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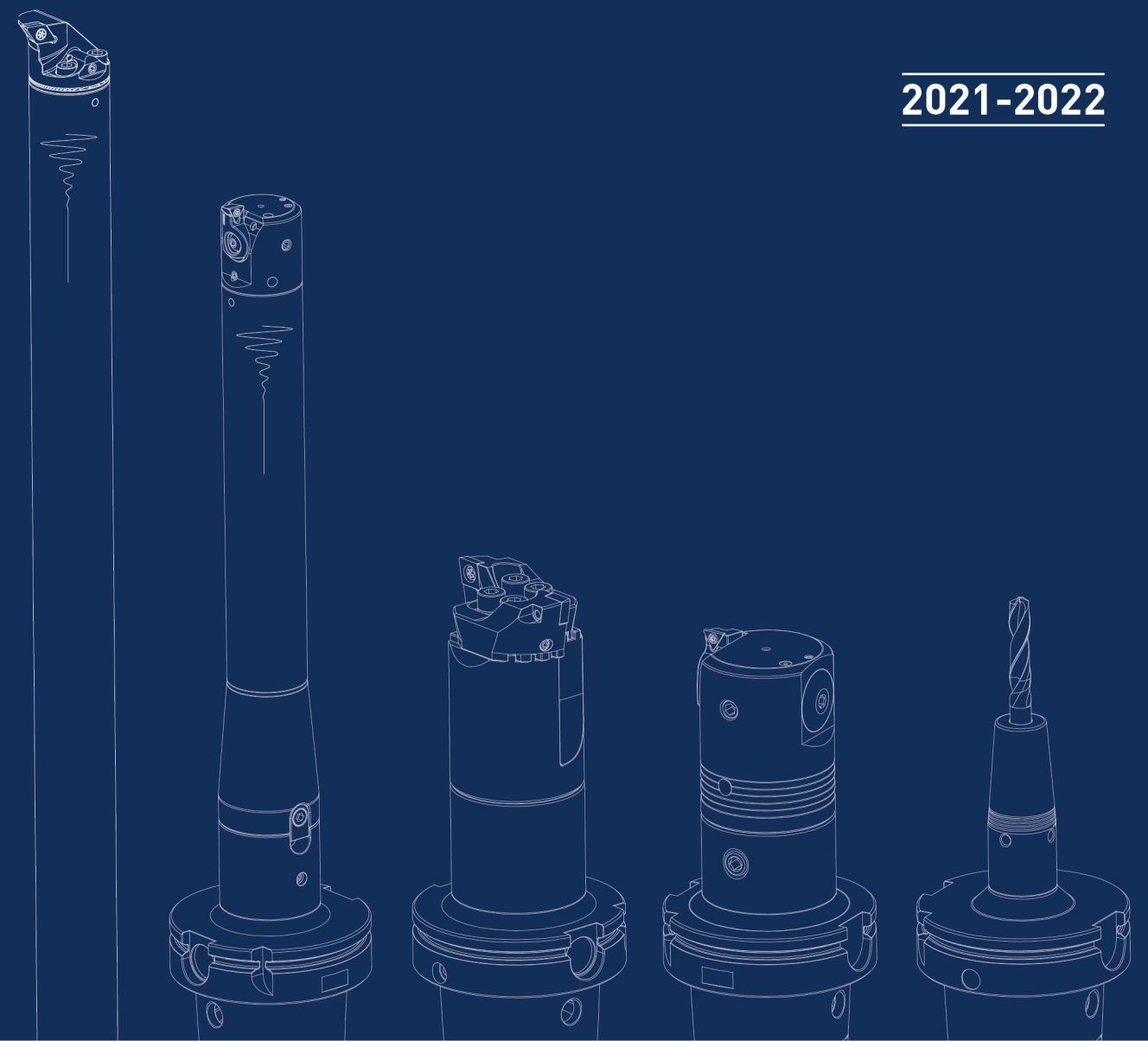


PRODUCT CATALOG

产品综合样本

2021-2022

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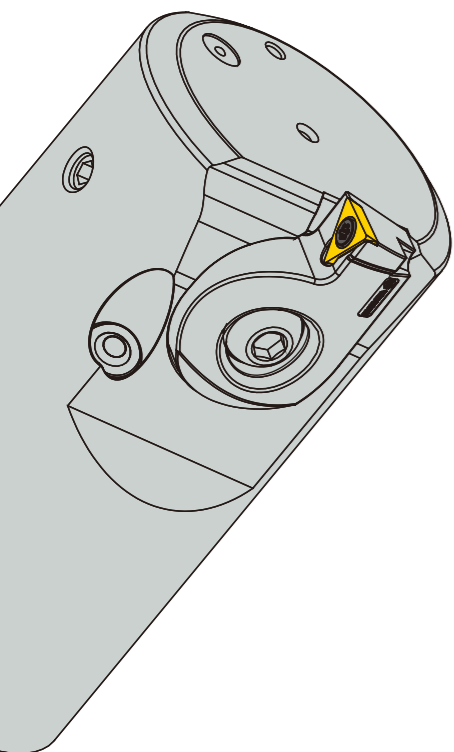
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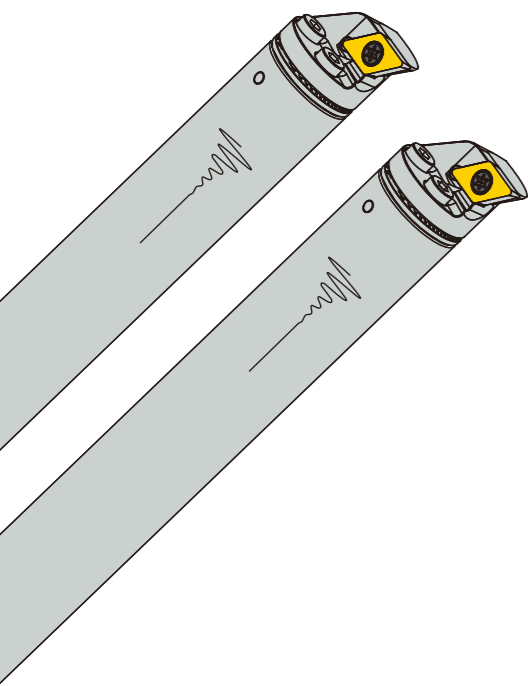
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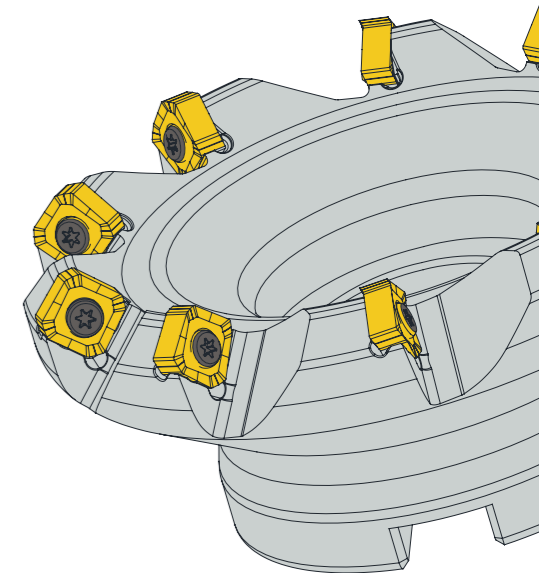
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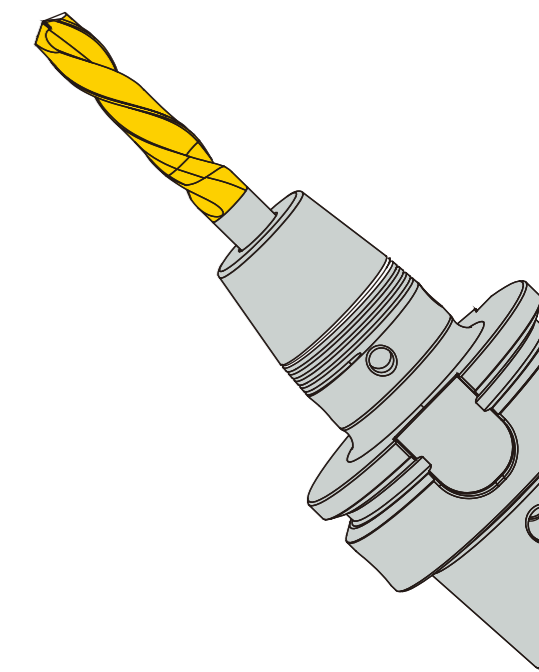
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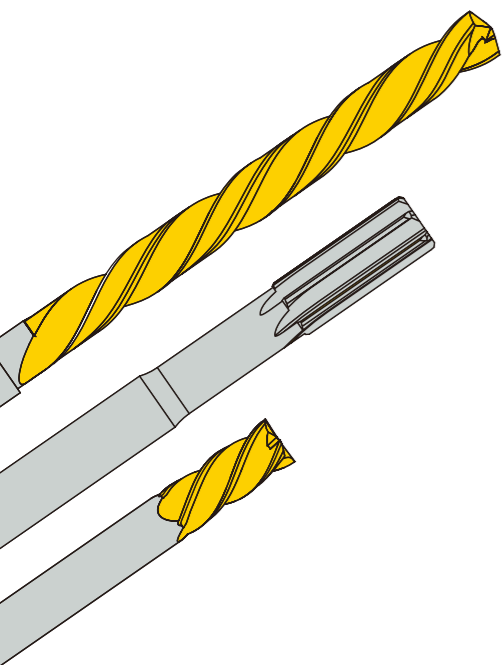


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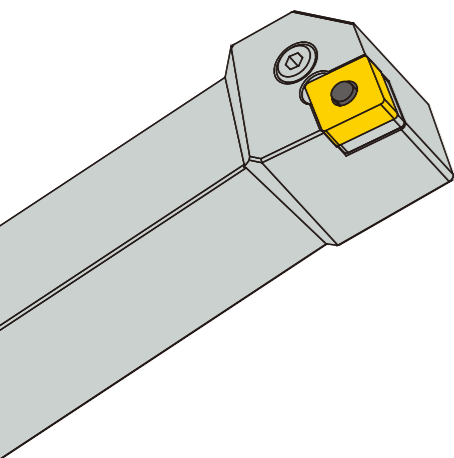
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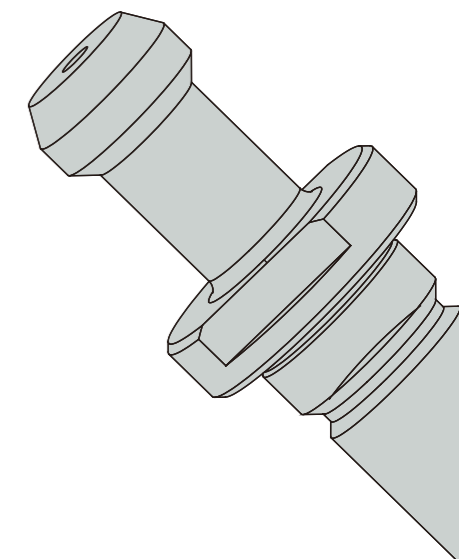


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MODULAR BORING TOOL WITH TYPE K CONNECTION

模块式镗刀 (K 接口)



A
孔加工刀具
HOLE MAKING TOOLS

模块式镗刀 (K 接口) Modular Boring Tool with Type K Connection

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MODULAR BORING TOOL WITH TYPE K CONNECTION 模块式镗刀 (K 接口)

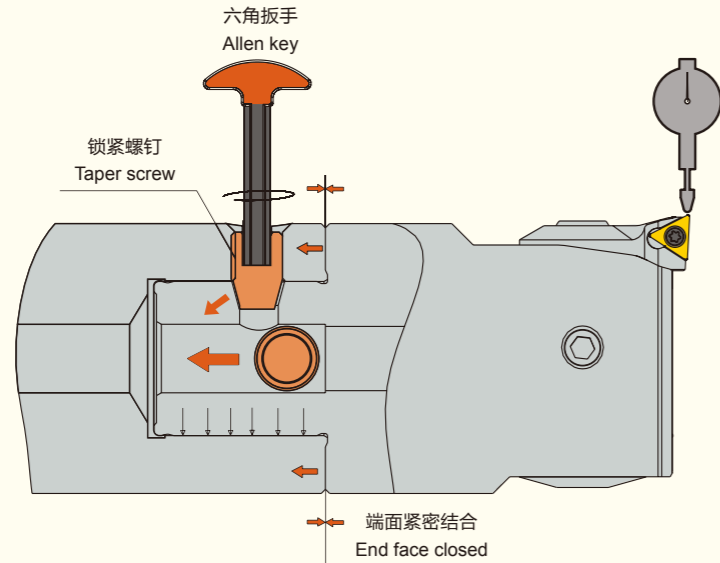
模块式 K 接口原理及连接锁紧方式

Clamping Principle for Type K Connection

K 接口连接方式，只需要六角扳手使锁紧螺钉拧紧就能强力将刀柄与刀杆的端面紧密结合在一起，连接方式简单。同一镗刀重复多次装取，刀尖的位置误差小于 $2\mu\text{m}$ ，是高精度连接系统。

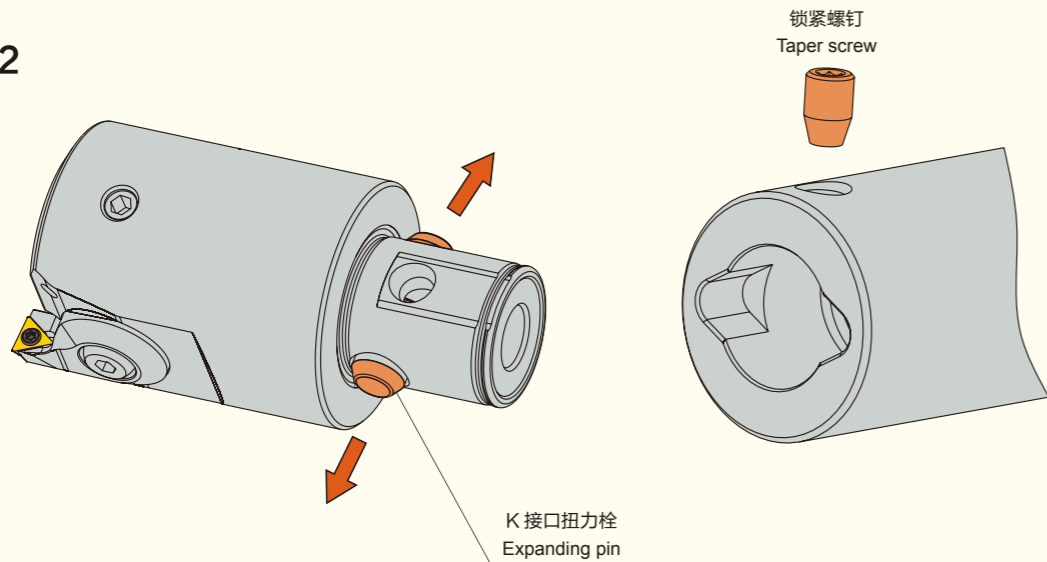
The type K connection is easy, tightening the taper screw so that end face between adaptor and boring heads closed. The tolerance is smaller than 0.002mm when assembling and disassembling repeatedly several times.

图示 1
Figure 1



同一镗刀多次重复装取时，刀尖位置误差 $2\mu\text{m}$ 以内
Assembling and disassembling repeatedly several times, the tolerance of the tool nose is within 0.002mm

图示 2
Figure 2



K 接口扭力栓的结构

The Structure of Expanding Pin

加工时切削扭力非常大，因此必须使用 K 接口扭力栓。K 接口扭力栓采用左右浮动方式，安装镗刀时会自动平衡，因此可以承受非常强的切削力。

Please use the expanding pin if there is large cutting torsion when machining. It works by floating right and left and it will automatically balance when assembling the boring head, so that it will support so large cutting force.

MODULAR BORING TOOL WITH TYPE K CONNECTION 模块式镗刀 (K 接口)

CBR 系列粗镗刀

CBR Rough Boring Tool with Type K Connection

双刃可调，镗孔加工范围 $\Phi 20-\Phi 153$ ，圆柱模块式 K 接口，矩形槽刀座接口。

Twin cutter rough boring head with boring range $\Phi 20-\Phi 153$. Cylinder modular connection type K, with rectangular guide slot cartridge.

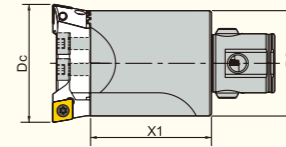


Fig A

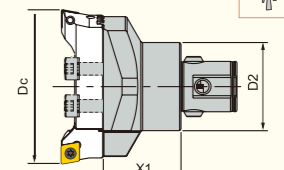


Fig B

规格型号 Designation	Dc	D2	X1	Z	Fig	Kg	适配刀座 Cartridge	在库 Stock
CBR D19.K19.22.C	20-24	19	22	2	A	0.05	C..D020-024..	●
	23-27	19	22	2	A	0.05	C..D023-027..	●
CBR D25.K25.25.C	26-35	25	25	2	A	0.09	C..D026-035..	●
CBR D32.K32.30.C	33-41	32	30	2	A	0.19	C..D033-041..	●
CBR D40.K40.30.C	41-55	40	30	2	A	0.25	C..D041-055..	●
CBR D40.K40.52.C	41-55	40	52	2	A	0.47	C..D041-055..	●
CBR D50.K50.57.C	55-70	50	57	2	A	0.86	C..D055-070..	●
CBR D63.K63.55.C	70-90	63	55	2	A	1.49	C..D070-090..	●
CBR D80.K63.55.C	90-110	63	55	2	B	1.73	C..D090-110..	●
CBR D80.K90.55.C	90-110	88	55	2	A	2.77	C..D090-110..	●
CBR D100.K63.55.C	110-133	63	55	2	B	2.03	C..D110-133..	●
	130-153	63	55	2	B	2.03	C..D130-153..	●
CBR D100.K90.55.C	110-133	88	55	2	B	3.06	C..D110-133..	●
	130-153	88	55	2	B	3.06	C..D130-153..	●

- 适配刀座需单独订购，请参照：A6-A8 页。
- 适配刀柄需单独订购，请参照：A20-A24 页。
- 加工不同材料刀具的切削参数，请参照：A113-A116 页。
- 刀座刻线标注依据：CC06/CC09/TC11/TC16/SO06 圆角为 R0.4 时的值，SO09 圆角为 R0.6 时的值，CC12/SC09/SC12/SO12 圆角为 R0.8 时的值；SO16 圆角为 R1.2 时的值；
- 订货示例：1 件 CBR D25.K25.25.C。
- The cartridge should be ordered separately please see page A6-A8.
- The adaptor should be ordered separately, please see page A20-A24.
- Recommended cutting date please see page A113-A116.
- Scale mark basis.
- The scale value for CC06/CC09/TC11/SO06 with R0.4. The scale value for SO09 with R0.6.
- The scale value for CC12/SC09/SC12/SO12 with R0.8. The scale value for SO16 with R1.2.
- Ordering sample: 1 PC CBR D25.K25.25.C

备件

Spare Parts

Dc	刀座锁紧螺钉 Clamping screw for cartridge	碟形垫片 Disk spring	锁紧扳手 Allen key for adjusting screw
20-27mm	SR55 M4x16	GK20 D4	KEY01 M3
26-35mm	SR55 M4x16	GK20 D4	KEY01 M3
33-41mm	SR55 M5x16	GK20 D5	KEY01 M4
41-55mm	SR55 M6x20	GK20 D6	KEY01 M5
55-70mm	SR55 M6x20	GK20 D6	KEY01 M5
70-90mm	SR55 M8x25	GK20 D8	KEY01 M6
90-153mm	SR55 M10x30	GK20 D10	KEY01 M8

D2	K 接口扭力栓 Expanding pin	橡胶圈 Sealing disc
D2=19	FT90 D4x13.5	FT91 D4-1
D2=25	FT90 D5x17	FT91 D5-1
D2=32	FT90 D7x22	FT91 D7-1
D2=40	FT90 D8.5x26.5	FT91 D8.5-1.5
D2=50	FT90 D11x33	FT91 D11-1.5
D2=63	FT90 D14x43	FT91 D14-1.5
D2=88	FT90 D18x56	FT91 D16-1.5

● 标准库存
Item in stock

● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

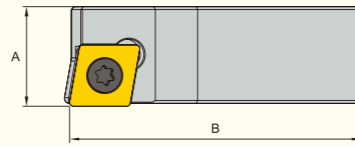
MODULAR BORING TOOL WITH TYPE K CONNECTION 模块式镗刀 (K 接口)

反镗刀座

Cartridge for Rough Boring Tool for Back Boring

适配于 CBR 系列矩形槽刀座接口的双刃粗镗刀，调整方便，加工范围：Φ30-Φ152。

It is suitable for the CBR series twin cutter rough boring tool, with the boring range of Φ30-Φ152, and also it can be adjusted easily.



规格型号 Designation	镗削范围 Boring rang	A	B	刀片型号 Insert	Kg	在库 Stock
C90C D19.3035.CC06	30-35	10.3	21.0	CC..0602..	0.01	○
C90C D25.3341.CC06	33-41	10.3	23.0	CC..0602..	0.01	○
C90C D25.4048.CC06	40-48	10.3	26.6	CC..0602..	0.02	○
C90C D32.4252.CC06	42-52	10.3	30.2	CC..0602..	0.02	○
C90C D32.5161.CC06	51-61	10.3	35.0	CC..0602..	0.03	○
C90C D40.5365.CC09	53-65	16.6	36.6	CC..09T3..	0.06	○
C90C D40.6476.CC09	64-76	16.6	42.3	CC..09T3..	0.07	○
C90C D50.5369.CC09	53-69	16.6	45.0	CC..09T3..	0.06	○
C90C D50.6884.CC09	68-84	16.6	52.8	CC..09T3..	0.08	○
C90C D50.8399.CC09	83-99	16.6	62.0	CC..09T3..	0.10	○
C90C D63.6889.CC09	68-89	16.6	57.3	CC..09T3..	0.12	○
C90C D63.88109.CC09	88-109	16.6	67.3	CC..09T3..	0.16	○
C90C D80.88110.CC12	88-110	25.6	70.4	CC..1204..	0.25	○
C90C D80.108130.CC12	108-130	25.6	82.4	CC..1204..	0.31	○
C90C D100.108132.CC12	108-132	25.6	82.3	CC..1204..	0.29	○
C90C D100.128152.CC12	128-152	25.6	92.1	CC..1204..	0.36	○

- 刀片请根据不同材料单独订购，请参照：A91 页。
- 订货示例：1 件 C90C D32.4252.CC06。
- The inserts for different materials should be ordered separately, please see page A91.
- Ordering sample: 1 PC C902C D32.4252.CC06.

备件

Spare Parts



刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
CC..0602..	SR21 M2.5x5.3	KEY02 T7
CC..09T3..	SR21 M4x9.5	KEY02 T15
CC..1204..	SR21 M5x12.8	KEY02 T20

- 标准库存
Item in stock
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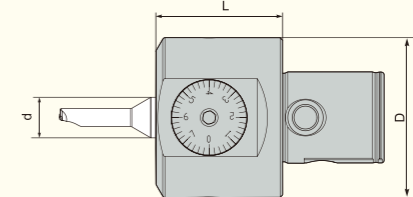
MODULAR BORING TOOL WITH TYPE K CONNECTION 模块式镗刀 (K 接口)

CBF 系列小孔径微调精镗刀

CBF Mini Precision Boring Tool with Type K Connection

小孔径微调精镗刀，微调精度每格直径 0.01mm，加工范围 Φ2-Φ50，圆柱模块式 K 接口，需配小孔精镗刀杆。

Mini boring tool has a highly precise adjustment mechanism, 1 DIV = 0.01 mm in diameter, and the boring range is Φ2- Φ50. High rigidity thanks of cylindrical modular connection type K. Boring bars for the body.



规格型号 Designation	Dc	L	D	d	Kg	适配刀杆 Boring bar	在库 Stock
CBF D02-22.K40.35.C	2-22	35	40	10	0.35	NBF C10-6 ST06E... ST10... ST10E...	●
CBF D06-50.K50.50.C	6-50	50	63	16	1.09	ST16... ST16E...	●
CBF D06-50.K63.50.C	6-50	50	63	16	1.25	ST16... ST16E...	●

- 适配精镗刀杆需单独订购，请参照：A35-A36 页。
- 适配刀柄需单独订购，请参照：A20-A24 页。
- 加工不同材料刀具的切削参数，请参照：A117 页。
- 订货示例：1 件 CBF D02-22.K40.35.C。
- The boring bar should be ordered separately, please see page A35-A36.
- The adaptor should be ordered separately, please see page A20-A24.
- Recommended cutting data please see page A117.
- Ordering sample: 1 piece CBF D02-22.K40.35.C

备件

Spare Parts



规格型号 Designation	刀杆锁紧螺钉 Clamping screw for insert	LOCK 螺钉 Lock screw	调整扳手 Allen key for adjusting screw	K 接口扭力栓 Expanding pin	橡胶圈 Sealing ring
CBF D02-22.K40	SR54 M6x10	SR54 M6x10	KEY01 M3	FT90 D8.5x26.5	FT91 D8.5-1.5
CBF D06-50.K50	SR54 M10x16	SR54 M10x16	KEY01 M5	FT90 D11x33	FT91 D11-1.5
CBF D06-50.K63	SR54 M10x16	SR54 M10x16	KEY01 M5	FT90 D14x43	FT91 D14-1.5

- 标准库存
Item in stock
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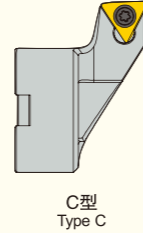
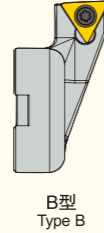
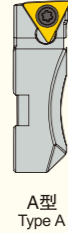
MODULAR BORING TOOL WITH TYPE K CONNECTION 模块式镗刀 (K 接口)

直压式精镗刀头

Cartridge for Precision Boring Tool

适配于 NBF,CBF 系列的微调精镗刀，定位锁紧稳固，更换简便，可方便进行正反镗加工的变换，配有不同规格的刀片。

It is suitable for the NBF & CBF series micro fine boring head, and has the features of locked firmly, easy to be changed and convenient for the general and back boring machining, and also could be suitable for inserts with different specifications.



规格型号 Designation	适用刀片 Insert	刀片锁紧螺钉 Clamping screw for insert	在庫 Stock
FRB 10A.TB06	TB..0601..	SR20 M2x3.7	●
FRB 10B.TB06	TB..0601..	SR20 M2x3.7	●
FRB 10C.TB06	TB..0601..	SR20 M2x3.7	●
FRB 12A.TP09	TP..0902..	SR22 M2.5x6	●
FRB 12B.TP09	TP..0902..	SR22 M2.5x6	●
FRB 12C.TP09	TP..0902..	SR22 M2.5x6	●
FRB 16A.TP09	TP..0902..	SR22 M2.5x6	●
FRB 16B.TP09	TP..0902..	SR22 M2.5x6	●
FRB 16C.TP09	TP..0902..	SR22 M2.5x6	●
FRB 20A.TP09	TP..0902..	SR22 M2.5x6	●
FRB 20B.TP09	TP..0902..	SR22 M2.5x6	●
FRB 20C.TP09	TP..0902..	SR22 M2.5x6	●
FRB 25A.TP09	TP..0902..	SR22 M2.5x6	●
FRB 25B.TP09	TP..0902..	SR22 M2.5x6	●
FRB 25C.TP09	TP..0902..	SR22 M2.5x6	●
FRB 30A.TP11	TP..1103..	SR22 M3x8	●
FRB 30B.TP11	TP..1103..	SR22 M3x8	●
FRB 30C.TP11	TP..1103..	SR22 M3x8	●

- 刀片请根据不同材料单独订购，请参照：A95 页。
- 订货示例：1 件 FRB 10A.TB06。
- The inserts for different materials should be ordered separately, please see page A95.
- Ordering sample: 1 PC FRB 10A.TB06

备件

Spare Parts



刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
SR20 M2x3.7	KEY02 T6
SR22 M2.5x6	KEY02 T8
SR22 M3x8	KEY02 T8
SR20 M2.2x5.6	KEY02 T7
SR20 M2.5x6	KEY02 T8
SR21 M4x9.5	KEY02 T15

● 标准库存
Item in stock

● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

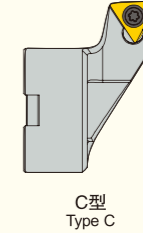
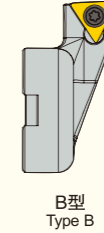
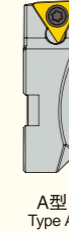
MODULAR BORING TOOL WITH TYPE K CONNECTION 模块式镗刀 (K 接口)

直压式精镗刀头

Cartridge for Precision Boring Tool

适配于 NBF,CBF 系列的微调精镗刀，定位锁紧稳固，更换简便，可方便进行正反镗加工的变换，配有不同规格的刀片。

It is suitable for the NBF & CBF series micro fine boring head, and has the features of locked firmly, easy to be changed and convenient for the general and back boring machining, and also could be suitable for inserts with different specifications.



规格型号 Designation	适用刀片 Insert	刀片锁紧螺钉 Clamping screw for insert	在庫 Stock
FRB 12A.CC06	CC..0602..	SR21 M2.5x5.3	●
FRB 12B.CC06	CC..0602..	SR21 M2.5x5.3	●
FRB 12C.CC06	CC..0602..	SR21 M2.5x5.3	●
FRB 16A.CC06	CC..0602..	SR21 M2.5x5.3	●
FRB 16B.CC06	CC..0602..	SR21 M2.5x5.3	●
FRB 16C.CC06	CC..0602..	SR21 M2.5x5.3	●
FRB 20A.CC06	CC..0602..	SR21 M2.5x5.3	●
FRB 20B.CC06	CC..0602..	SR21 M2.5x5.3	●
FRB 20C.CC06	CC..0602..	SR21 M2.5x5.3	●
FRB 25A.CC06	CC..0602..	SR21 M2.5x5.3	●
FRB 25B.CC06	CC..0602..	SR21 M2.5x5.3	●
FRB 25C.CC06	CC..0602..	SR21 M2.5x5.3	●
FRB 30A.CC09	CC..09T3..	SR21 M4x9.5	●
FRB 30B.CC09	CC..09T3..	SR21 M4x9.5	●
FRB 30C.CC09	CC..09T3..	SR21 M4x9.5	●

- 刀片请根据不同材料单独订购，请参照：A91 页。
- 订货示例：1 件 FRB 10A.TB06。
- The inserts for different materials should be ordered separately, please see page A91.
- Ordering sample: 1 PC FRB 10A.TB06

规格型号 Designation	适用刀片 Insert	刀片锁紧螺钉 Clamping screw for insert	在庫 Stock
FRB 12A.TC0903	TC..0903..	SR20 M2.5x6	●
FRB 12B.TC0903	TC..0903..	SR20 M2.5x6	●
FRB 12C.TC0903	TC..0903..	SR20 M2.5x6	●
FRB 16A.TC0903	TC..0903..	SR20 M2.5x6	●
FRB 16B.TC0903	TC..0903..	SR20 M2.5x6	●
FRB 16C.TC0903	TC..0903..	SR20 M2.5x6	●
FRB 20A.TC0903	TC..0903..	SR20 M2.5x6	●
FRB 20B.TC0903	TC..0903..	SR20 M2.5x6	●
FRB 20C.TC0903	TC..0903..	SR20 M2.5x6	●
FRB 25A.TC0903	TC..0903..	SR20 M2.5x6	●
FRB 25B.TC0903	TC..0903..	SR20 M2.5x6	●
FRB 25C.TC0903	TC..0903..	SR20 M2.5x6	●
FRB 30A.TC0903	TC..0903..	SR20 M2.5x6	●
FRB 30B.TC0903	TC..0903..	SR20 M2.5x6	●
FRB 30C.TC0903	TC..0903..	SR20 M2.5x6	●

备件

Spare Parts



刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
SR20 M2x3.7	KEY02 T6
SR22 M2.5x6	KEY02 T8
SR22 M3x8	KEY02 T8
SR20 M2.2x5.6	KEY02 T7
SR20 M2.5x6	KEY02 T8
SR21 M2.5x5.3	KEY02 T7
SR21 M4x9.5	KEY02 T15

● 标准库存
Item in stock

● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
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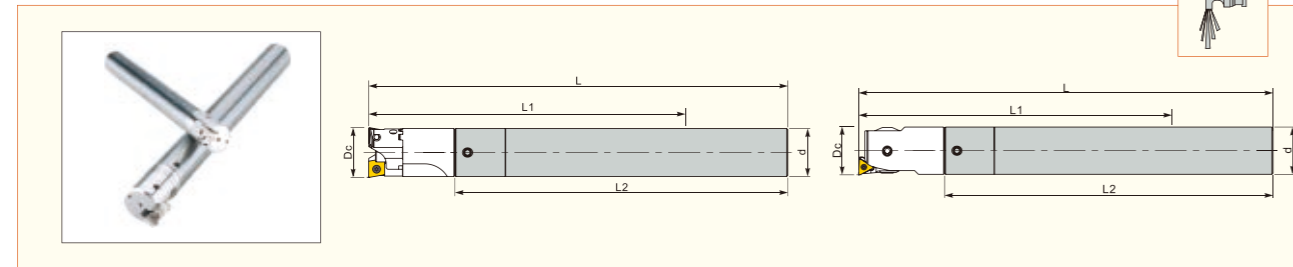
MODULAR BORING TOOL WITH TYPE K CONNECTION 模块式镗刀 (K 接口)

硬质合金直柄 K 接口刀杆

Cylindrical Shank Solid Carbide Boring Bar with Type K Connection

硬质合金加长抗振杆, 适配粗、精镗刀可实现孔的粗、精加工。

The solid carbide extension anti-vibration boring bar is suitable for the rough and fine boring tool to meet the rough and finish boring.



规格型号 Designation	d	L	L1	L2	长径比 L/D ratio	适配粗镗刀 Rough boring head	适配精镗刀 Precision boring head	在库 Stock
STH K19-150.E	19	185	135	150	7.1	CBR D19.K19.22.C	CBF D19.K19.34.C	●
STH K25-200.E	25	240	185	200	7.4	CBR D25.K25.25.C	CBF D25.K25.37.C	●
STH K32-250.E	32	290	230	250	7.2	CBR D32.K32.30.C	CBF D32.K32.43.C	●

- 此系列刀具推荐使用高精度强力夹头刀柄或液压力夹持。
- 型号后缀“E”改为“EN”的为不带扭力槽刀杆, 适配于精镗刀, 不适配粗镗刀。
- 适配镗刀需单独订购, 请参照: A4, A11 页。
- 订货示例: 1 件 STH K19-150.E。

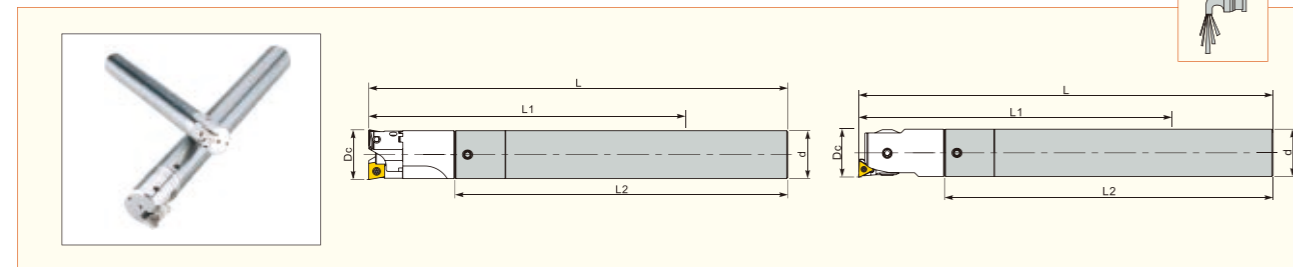
- Recommended for high precision power chuck adaptor or hydraulic adaptor.
- End as "E" can be changed into "EN" which indicates the shank without the torsion slot. It is only suitable for precision boring head.
- The suitable boring head should be ordered separately, please see page A4, A11.
- Ordering sample: 1 PC STH K19-150.E

钢制直柄 K 接口刀杆

Cylindrical Shank Steel Boring Bar with Type K Connection

钢制直柄 K 接口加长刀杆, 适配粗、精镗头可实现孔的粗、精加工。

The long version cylindrical shank steel bar with rough and precision boring heads can meet the rough and precision boring.



规格型号 Designation	d	L	L1	L2	长径比 L/D ratio	适配粗镗刀 Rough boring head	适配精镗刀 Precision boring head	在库 Stock
STH K19-140	19	175	125	140	6	CBR D19.K19.22.C	CBF D19.K19.34.C	○
STH K25-175	25	215	160	175	6	CBR D25.K25.25.C	CBF D25.K25.37.C	○
STH K32-215	32	260	200	215	6	CBR D32.K32.30.C	CBF D32.K32.43.C	○
STH K40-265	40	310	250	265	6	CBR D40.K40.30.C	CBF D40.K40.48.C	○

- 此系列刀具推荐使用高精度强力夹头刀柄或液压力夹持。
- 适配镗刀需单独订购, 请参照: A4, A11 页。
- 订货示例: 1 件 STH K19-140。

- Recommended for high precision power chuck adaptor or hydraulic adaptor.
- The boring tool should be ordered separately, please see page A4, A11.
- Ordering sample: 1 PC STH K19-140

MODULAR BORING TOOL WITH TYPE K CONNECTION 模块式镗刀 (K 接口)

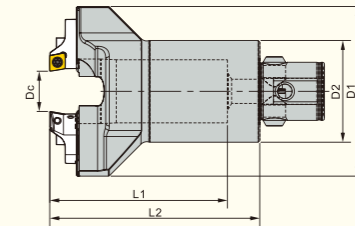
粗套镗刀

Rough Boring Tool for External Turning

K 接口粗套镗刀配置矩形槽镗刀座, 调整自如、稳定, 但加工时刀具必须逆时针旋转。

Cartridge with rectangular slot guide. the cartridge move on the guide freely to reach the diameter.

Note: Tool rotating anticlockwise when external turning.



规格型号 Designation	Dc	D1	D2	L1	L2	Z	Kg	适配刀座 Cartridge	在库 Stock
CXR D02-17.K50.100	2-17	62	50	82	100	2	1.3	S90A D026-035.CC06	○
CXR D16-38.K63.120	16-38	105	63	110	130	2	2.3	S90A D041-055.CC09	○
CXR D28-50.K63.160	28-50	118	80	152	177	2	4.1	S90A D041-055.CC09	○
CXR D45-70.K90.230	45-70	164	95	214	239	2	6.9	S90A D055-070.CC09	○

- 适配刀座需单独订购, 请参照: A6-A8 页。
- 适配刀柄需单独订购, 请参照: A20-A24 页。
- 订货示例: 1 件 CXR D02-17.K50.100。
- The cartridge should be ordered separately, please see page A6-A8.
- The adaptor should be ordered separately, please see page A20-A24.
- Ordering sample: 1 PC CXR D02-17.K50.100

备件

Spare Parts



规格 Designation	刀座锁紧螺钉 Clamping screw for cartridge	蝶形垫片 Disk spring	锁紧扳手 Allen key for adjusting screw	K 接口扭力栓 Expanding pin	橡胶圈 Sealing ring
K50	SR55 M4x16	GK20 D4	KEY01 M3	FT90 D11x33	FT91 D11-1.5
K63	SR55 M6x20	GK20 D6	KEY01 M5	FT90 D14x43	FT91 D14-1.5
K90	SR55 M6x20	GK20 D6	KEY01 M5	FT90 D18x56	FT91 D16-1.5

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

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Order on demand
(please confirm delivery time when ordering it)

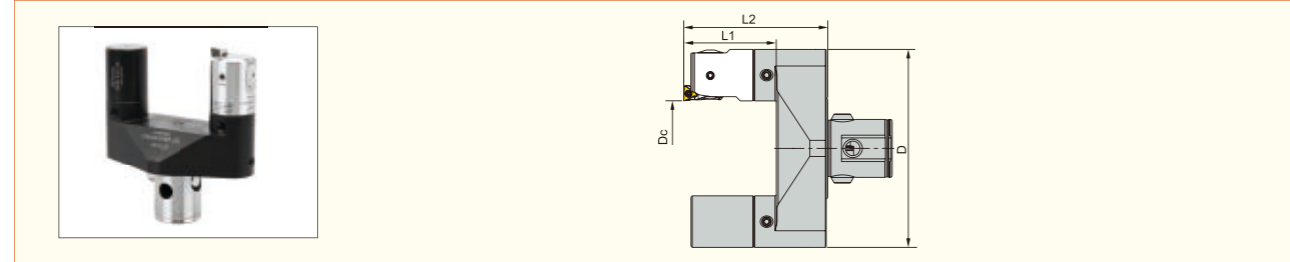
MODULAR BORING TOOL WITH TYPE K CONNECTION 模块式镗刀 (K 接口)

精套镗刀

Precision Boring Tool for External Turning

K 接口精套镗刀，微调精度每格直径 0.01mm，调整自如、稳定，但加工时刀具必须逆时针旋转。

It is fine boring tool body with K connection, and the dial each of which is 0.01 mm on diameter, which can be adjusted freely and stably, but the tool should be rotated on the anticlockwise direction.



规格型号① Designation	Dc	L1	L2	D	Kg	适配精镗刀② Precision boring head	适配刀头③ Cartridge	配重块④ Balance block	在库 Stock
CXF D02-30.K63.88.C	2-12	56	88	95	1.8	CBF D32.K32.43.C	FRB 16C...	BHB K32.39	○
	11-21	56	88	95	1.8	CBF D32.K32.43.C	FRB 16B...	BHB K32.39	○
	20-30	56	88	95	1.8	CBF D32.K32.43.C	FRB 16A...	BHB K32.39	○
CXF D30-58.K63.88.C	30-40	56	88	125	2.1	CBF D32.K32.43.C	FRB 16C...	BHB K32.39	○
	39-49	56	88	125	2.1	CBF D32.K32.43.C	FRB 16B...	BHB K32.39	○
	48-58	56	88	125	2.1	CBF D32.K32.43.C	FRB 16A...	BHB K32.39	○
CXF D58-86.K63.88.C	58-68	56	88	151	2.4	CBF D32.K32.43.C	FRB 16C...	BHB K32.39	○
	67-77	56	88	151	2.4	CBF D32.K32.43.C	FRB 16B...	BHB K32.39	○
	76-86	56	88	151	2.4	CBF D32.K32.43.C	FRB 16A...	BHB K32.39	○

- 适配镗刀及刀头需单独订购，请参照：A11-A14 页。
- 适配刀柄需单独订购，请参照：A20-A24 页。
- 订货示例：1 件 CXF D02-30.K63.88.C

- The cartridge should be ordered separately, please see page A11-A14.
- The adaptor should be ordered separately, please see page A20-A24.
- Ordering sample: 1 PC CXF D02-30.K63.88.C

备件

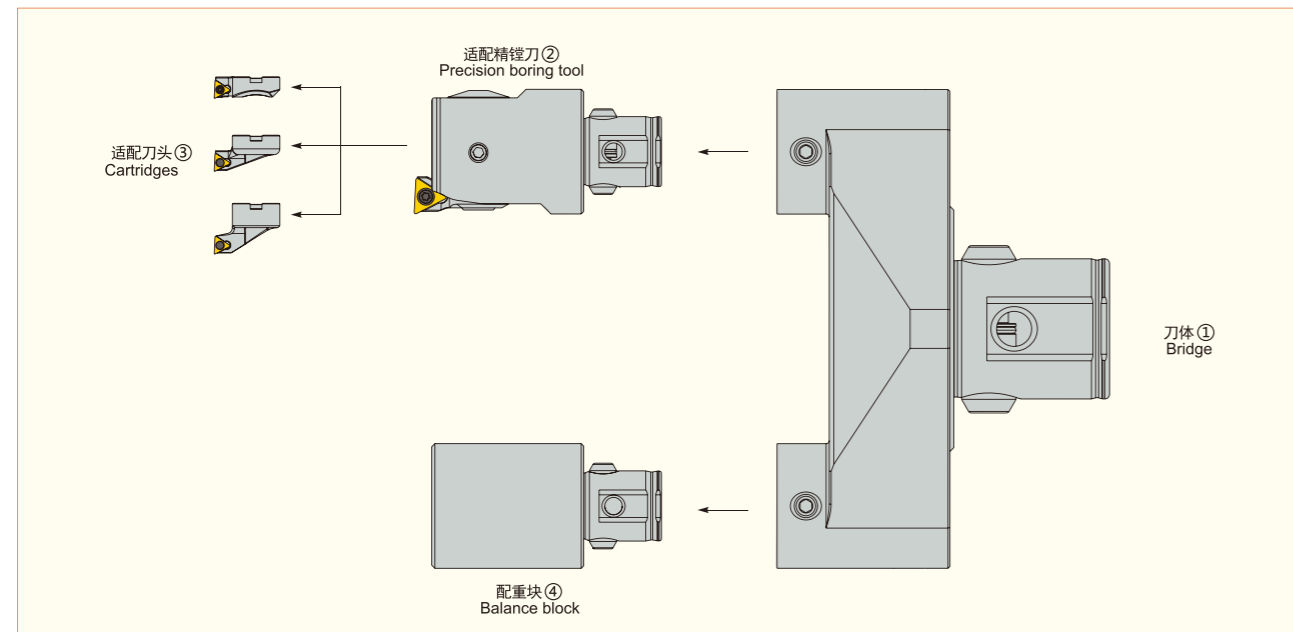
Spare Parts



规格型号 Designation	接口锁紧螺钉 Clamping screw	锁紧扳手 Allen key for clamping screw	K 接口扭力栓 Expanding pin	橡胶圈 Sealing ring
CXF D02-30.K63.88.C	SR65 M6x9-X	KEY01 M3	FT90 D14x43	FT91 D14-1.5
CXF D30-58.K63.88.C	SR65 M6x9-X	KEY01 M3	FT90 D14x43	FT91 D14-1.5
CXF D58-86.K63.88.C	SR65 M6x9-X	KEY01 M3	FT90 D14x43	FT91 D14-1.5

组合示意图

Instruction of Modular Combination Type K Connection



● 标准库存
Item in stock

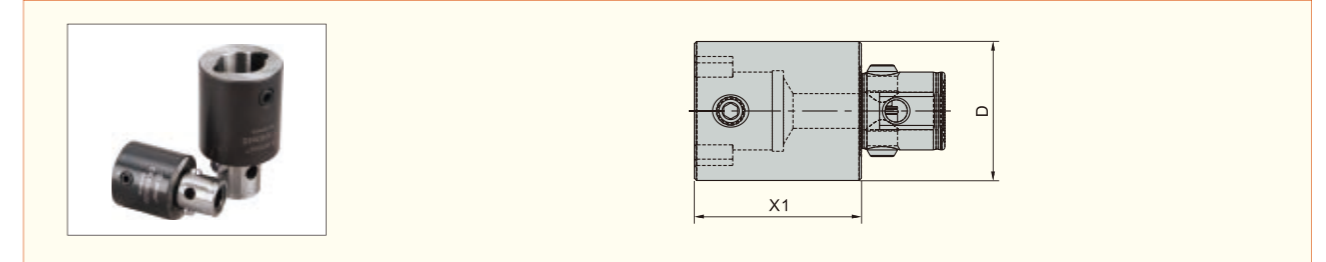
◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MODULAR BORING TOOL WITH TYPE K CONNECTION 模块式镗刀 (K 接口)

K 接口接长杆

Extension with Type K Connection



规格型号 Designation	D	X1	Kg	在库 Stock
EX K19x20	19	20	0.04	●
EX K19x30	19	30	0.06	●
EX K25x30	25	30	0.1	●
EX K25x45	25	45	0.16	●
EX K32x30	32	30	0.17	●
EX K32x45	32	45	0.25	●
EX K40x45	40	45	0.39	●
EX K40x60	40	60	0.53	●
EX K50x60	50	60	0.83	●
EX K50x90	50	90	1.25	●
EX K63x60	63	60	1.32	●
EX K63x100	63	100	2.22	●
EX K90x105	88	105	4.59	●

- 订货示例：1 件 EX K19x20
- Ordering sample: 1 PC EX K19x20

备件

Spare Parts



规格型号 Designation	K 接口扭力栓 Expanding pin	橡胶圈 Sealing ring	锁紧螺钉 Clamping screw	锁紧扳手 Allen key for clamping screw
D=19	FT90 D4x13.5	FT91 D4-1	SR65 M4x5-X	KEY01 M2
D=25	FT90 D5x17	FT91 D5-1	SR65 M5x6.5-X	KEY01 M2.5
D=32	FT90 D7x22	FT91 D7-1	SR65 M6x9-X	KEY01 M3
D=40	FT90 D8.5x26.5	FT91 D8.5-1.5	SR65 M8x11-X	KEY01 M4
D=50	FT90 D11x33	FT91 D11-1.5	SR65 M10x14-X	KEY01 M5
D=63	FT90 D14x43	FT91 D14-1.5	SR65 M12x18-X	KEY01 M6
D=88	FT90 D18x56	FT91 D16-1.5	SR65 M20x28-X	KEY01 M10

● 标准库存
Item in stock

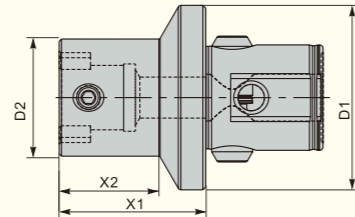
◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
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○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MODULAR BORING TOOL WITH TYPE K CONNECTION 模块式镗刀 (K 接口)

K 接口缩径杆

Reduction with Type K Connection



规格型号 Designation	D1	D2	X1	X2	Kg	在库 Stock
RE K25-K19x40	25	19	40	26.5	0.1	●
RE K32-K19x40	32	19	40	27	0.14	●
RE K32-K25x35	32	25	35	22	0.16	●
RE K40-K19x50	40	19	50	35	0.25	●
RE K40-K25x50	40	25	50	38	0.28	●
RE K40-K32x50	40	32	50	38	0.32	●
RE K50-K19x60	50	19	60	40	0.38	●
RE K50-K25x50	50	25	50	33	0.4	●
RE K50-K25x80	50	25	80	63	0.51	●
RE K50-K32x50	50	32	50	33	0.54	●
RE K50-K32x80	50	32	80	63	0.64	●
RE K50-K40x40	50	40	40	23	0.47	●
RE K50-K40x70	50	40	70	53	0.82	●
RE K63-K19x70	63	19	70	36	0.84	●
RE K63-K25x70	63	25	70	54	0.69	●
RE K63-K25x95	63	25	95	79	0.98	●
RE K63-K32x60	63	32	60	44	0.75	●
RE K63-K32x90	63	32	90	74	1.12	●
RE K63-K40x50	63	40	50	34	0.8	●
RE K63-K40x85	63	40	85	69	1.28	●
RE K63-K50x40	63	50	40	24	0.92	●
RE K63-K50x75	63	50	75	59	1.33	●
RE K90-K63x105	88	63	105	88	3.1	●

● 订货示例: 1 件 RE K25-K19x40
● Ordering sample: 1 PC RE K25-K19x40

备件

Spare Parts



D1	K 接口扭力栓 Expanding pin	橡胶圈 Sealing ring
D1=25	FT90 D5x17	FT91 D5-1
D1=32	FT90 D7x22	FT91 D7-1
D1=40	FT90 D8.5x26.5	FT91 D8.5-1.5
D1=50	FT90 D11x33	FT91 D11-1.5
D1=63	FT90 D14x43	FT91 D14-1.5
D1=88	FT90 D18x56	FT91 D16-1.5



D2	锁紧螺钉 Clamping screw	锁紧扳手 Allen key for clamping screw
D2=19	SR65 M4x5-X	KEY01 M2
D2=25	SR65 M5x6.5-X	KEY01 M2.5
D2=32	SR65 M6x9-X	KEY01 M3
D2=40	SR65 M8x11-X	KEY01 M4
D2=50	SR65 M10x14-X	KEY01 M5
D2=63	SR65 M12x18-X	KEY01 M6

● 标准库存
Item in stock

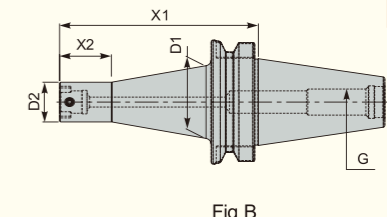
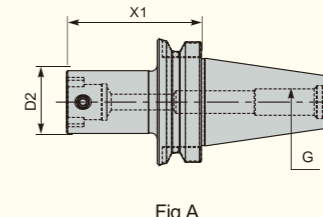
○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
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○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MODULAR BORING TOOL WITH TYPE K CONNECTION 模块式镗刀 (K 接口)

BT MAS403 K 接口刀柄

MAS403 BT Adaptor with Type K Connection



规格型号 Designation	ISO	D1	D2	X1	X2	G	Fig	Kg	在库 Stock
BT30 K19x70	30	31	19	70	38	M12	B	0.49	●
BT30 K25x70	30	-	25	70	-	M12	A	0.52	●
BT30 K32x75	30	-	32	75	-	M12	A	0.64	●
BT30 K40x50	30	-	40	50	-	M12	A	0.55	●
BT30 K50x50	30	-	50	50	-	M12	A	0.65	●
BT40 K19x70	40	31	19	70	38	M16	B	1.07	●
BT40 K25x50	40	-	25	50	-	M16	A	1.01	●
BT40 K25x85	40	-	25	85	-	M16	A	1.14	●
BT40 K25x100	40	-	25	100	-	M16	A	1.16	●
BT40 K32x50	40	-	32	50	-	M16	A	1.05	●
BT40 K32x90	40	-	32	90	-	M16	A	1.28	●
BT40 K32x115	40	-	32	115	-	M16	A	1.4	●
BT40 K40x50	40	-	40	50	-	M16	A	1.09	●
BT40 K40x100	40	-	40	100	-	M16	A	1.54	●
BT40 K40x140	40	-	40	140	-	M16	A	1.89	●
BT40 K50x50	40	-	50	50	-	M16	A	1.2	●
BT40 K50x100	40	-	50	100	-	M16	A	1.87	●
BT40 K50x150	40	-	50	150	-	M16	A	2.25	●
BT40 K63x60	40	-	63	60	-	M16	A	1.45	●
BT40 K63x120	40	-	63	120	-	M16	A	2.74	●
BT40 K63x165	40	-	63	165	-	M16	A	3.76	●

● 刀柄若需数据芯片孔, 请在型号后加 "X"
● 订货示例: 1 件 BT40 K32x50
● If needing the hole for data chip, please add "X" at the end of the designation
● Ordering sample: 1 PC BT 40 K32x50

备件

Spare Parts



D2	锁紧螺钉 Clamping screw	锁紧螺钉扳手 Allen key for clamping screw
D2=19	SR65 M4x5-X	KEY01 M2
D2=25	SR65 M5x6.5-X	KEY01 M2.5
D2=32	SR65 M6x9-X	KEY01 M3
D2=40	SR65 M8x11-X	KEY01 M4
D2=50	SR65 M10x14-X	KEY01 M5
D2=63	SR65 M12x18-X	KEY01 M6

● 标准库存
Item in stock

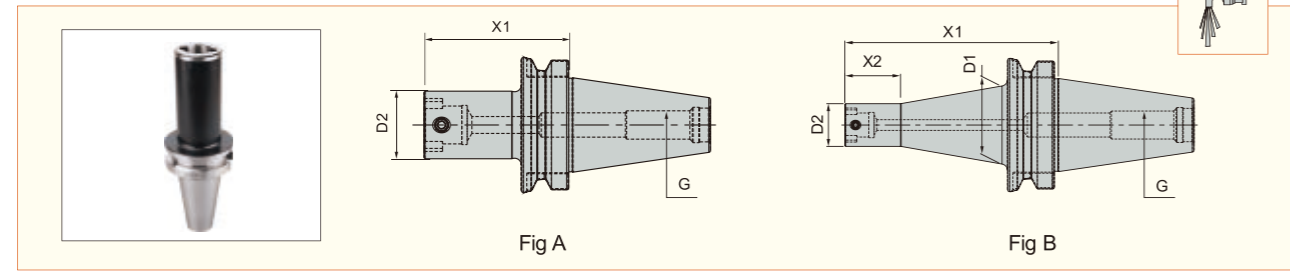
○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MODULAR BORING TOOL WITH TYPE K CONNECTION 模块式镗刀 (K 接口)

BT MAS403 K 接口刀柄

MAS403 BT Adaptor with Type K Connection



规格型号 Designation	ISO	D1	D2	X1	X2	G	Fig	Kg	在庫 Stock
BT50 K19x100	50	31	19	100	42	M24	B	3.65	●
BT50 K25x70	50	50	25	70	22	M24	B	6.66	●
BT50 K25x110	50	50	25	110	62	M24	B	3.76	●
BT50 K25x140	50	50	25	140	32	M24	B	4.17	●
BT50 K32x70	50	-	32	70	-	M24	A	6.64	●
BT50 K32x120	50	-	32	120	-	M24	A	3.93	●
BT50 K32x160	50	60	32	160	42	M24	B	4.8	●
BT50 K40x70	50	-	40	70	-	M24	A	3.71	●
BT50 K40x110	50	-	40	110	-	M24	A	4.07	●
BT50 K40x160	50	-	40	160	-	M24	A	4.53	●
BT50 K40x200	50	-	40	200	-	M24	A	4.83	●
BT50 K50x70	50	-	50	70	-	M24	A	3.86	●
BT50 K50x110	50	-	50	110	-	M24	A	4.42	●
BT50 K50x160	50	-	50	160	-	M24	A	5.13	●
BT50 K50x210	50	-	50	210	-	M24	A	5.89	●
BT50 K50x230	50	-	50	230	-	M24	A	6.06	●
BT50 K50x250	50	-	50	250	-	M24	A	6.34	●
BT50 K63x80	50	-	63	80	-	M24	A	4.12	●
BT50 K63x160	50	-	63	160	-	M24	A	5.94	●
BT50 K63x230	50	-	63	230	-	M24	A	7.52	●
BT50 K63x260	50	-	63	260	-	M24	A	8.16	●
BT50 K63x280	50	-	63	280	-	M24	A	8.6	●
BT50 K63x300	50	-	63	300	-	M24	A	9.05	●
BT50 K90x100	50	-	88	100	-	M24	A	5.61	●
BT50 K90x180	50	-	88	180	-	M24	A	9.2	●
BT50 K90x250	50	-	88	250	-	M24	A	12.34	●
BT50 K90x320	50	-	88	320	-	M24	A	15.48	●
BT50 K90x350	50	-	88	350	-	M24	A	16.84	●

- 刀柄若需数据芯片孔, 请在型号后加 "X"
- 订货示例: 1 件 BT50 K19x100
- If needing the hole for data chip, please add "X" at the end of the designation
- Ordering sample: 1 PC BT50 K19x100

备件

Spare Parts

D2	锁紧螺钉 Clamping screw	锁紧螺钉扳手 Allen key for clamping screw
D2=19	SR65 M4x5-X	KEY01 M2
D2=25	SR65 M5x6.5-X	KEY01 M2.5
D2=32	SR65 M6x9-X	KEY01 M3
D2=40	SR65 M8x11-X	KEY01 M4
D2=50	SR65 M10x14-X	KEY01 M5
D2=63	SR65 M12x18-X	KEY01 M6
D2=88	SR65 M20x28-X	KEY01 M10

● 标准库存
Item in stock

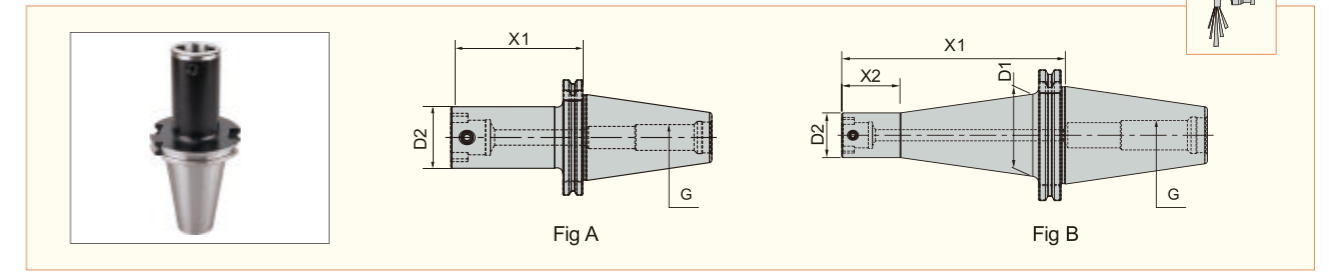
○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MODULAR BORING TOOL WITH TYPE K CONNECTION 模块式镗刀 (K 接口)

DIN69871-A K 接口刀柄

DIN69871-A Adaptor with Type K Connection



规格型号 Designation	ISO	D1	D2	X1	X2	G	Fig	Kg	在庫 Stock
DIN69871 30 K19x70	30	31	19	70	38	M12	B	0.44	●
DIN69871 30 K25x70	30	-	25	70	-	M12	A	0.47	●
DIN69871 30 K32x75	30	-	32	75	-	M12	A	0.59	●
DIN69871 30 K40x50	30	-	40	50	-	M12	A	0.5	●
DIN69871 30 K50x50	30	-	50	50	-	M12	A	0.6	●
DIN69871 40 K19x70	40	31	19	70	38	M16	B	0.97	●
DIN69871 40 K25x50	40	-	25	50	-	M16	A	0.91	●
DIN69871 40 K25x85	40	-	25	85	-	M16	A	1.04	●
DIN69871 40 K25x100	40	-	25	100	-	M16	A	1.05	●
DIN69871 40 K32x50	40	-	32	50	-	M16	A	0.95	●
DIN69871 40 K32x90	40	-	32	90	-	M16	A	1.18	●
DIN69871 40 K32x115	40	-	32	115	-	M16	A	1.31	●
DIN69871 40 K40x50	40	-	40	50	-	M16	A	0.99	●
DIN69871 40 K40x100	40	-	40	100	-	M16	A	1.44	●
DIN69871 40 K40x140	40	-	40	140	-	M16	A	1.82	●
DIN69871 40 K50x50	40	-	50	50	-	M16	A	1.1	●
DIN69871 40 K50x100	40	-	50	100	-	M16	A	1.77	●
DIN69871 40 K50x150	40	-	50	150	-	M16	A	2.53	●
DIN69871 40 K63x60	40	-	63	60	-	M16	A	1.35	●
DIN69871 40 K63x120	40	-	63	120	-	M16	A	2.64	●
DIN69871 40 K63x165	40	-	63	165	-	M16	A	3.7	●

- 刀柄若需数据芯片孔, 请在型号后加 "X"
- 订货示例: DIN69871 30 K19x70
- If needing the hole for data chip, please add "X" at the end of the designation
- Ordering sample: 1 PC DIN69871 30 K19x70

备件

Spare Parts

D2	锁紧螺钉 Clamping screw	锁紧螺钉扳手 Allen key for clamping screw
D2=19	SR65 M4x5-X	KEY01 M2
D2=25	SR65 M5x6.5-X	KEY01 M2.5
D2=32	SR65 M6x9-X	KEY01 M3
D2=40	SR65 M8x11-X	KEY01 M4
D2=50	SR65 M10x14-X	KEY01 M5
D2=63	SR65 M12x18-X	KEY01 M6

● 标准库存
Item in stock

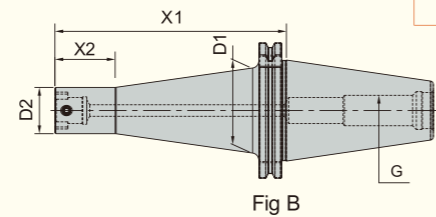
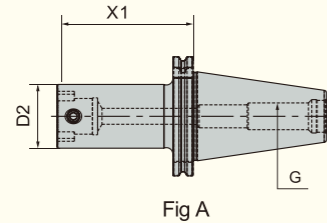
○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MODULAR BORING TOOL WITH TYPE K CONNECTION 模块式镗刀 (K 接口)

DIN69871-A K 接口刀柄

DIN69871-A Adaptor with Type K Connection



规格型号 Designation	ISO	D1	D2	X1	X2	G	Fig	Kg	在库 Stock
DIN69871 50 K19x100	50	31	19	100	42	M24	B	2.81	●
DIN69871 50 K25x70	50	50	25	70	22	M24	B	2.84	●
DIN69871 50 K25x110	50	50	25	110	62	M24	B	2.98	●
DIN69871 50 K25x140	50	50	25	140	32	M24	B	3.39	●
DIN69871 50 K32x70	50	-	32	70	-	M24	A	2.8	●
DIN69871 50 K32x120	50	-	32	120	-	M24	A	3.09	●
DIN69871 50 K32x160	50	60	32	160	42	M24	B	4.01	●
DIN69871 50 K40x70	50	-	40	70	-	M24	A	2.91	●
DIN69871 50 K40x110	50	-	40	110	-	M24	A	3.26	●
DIN69871 50 K40x160	50	-	40	160	-	M24	A	3.7	●
DIN69871 50 K40x200	50	-	40	200	-	M24	A	4.05	●
DIN69871 50 K50x70	50	-	50	70	-	M24	A	3.11	●
DIN69871 50 K50x110	50	-	50	110	-	M24	A	3.68	●
DIN69871 50 K50x160	50	-	50	160	-	M24	A	4.37	●
DIN69871 50 K50x210	50	-	50	210	-	M24	A	5.1	●
DIN69871 50 K50x230	50	-	50	230	-	M24	A	5.38	●
DIN69871 50 K50x250	50	-	50	250	-	M24	A	5.66	●
DIN69871 50 K63x80	50	-	63	80	-	M24	A	3.59	●
DIN69871 50 K63x160	50	-	63	160	-	M24	A	5.38	●
DIN69871 50 K63x230	50	-	63	230	-	M24	A	6.96	●
DIN69871 50 K63x260	50	-	63	260	-	M24	A	7.63	●
DIN69871 50 K63x280	50	-	63	280	-	M24	A	8.08	●
DIN69871 50 K63x300	50	-	63	300	-	M24	A	8.53	●
DIN69871 50 K90x100	50	-	88	100	-	M24	A	5.34	●
DIN69871 50 K90x180	50	-	88	180	-	M24	A	8.93	●
DIN69871 50 K90x250	50	-	88	250	-	M24	A	12.07	●
DIN69871 50 K90x320	50	-	88	320	-	M24	A	15.21	●
DIN69871 50 K90x350	50	-	88	350	-	M24	A	16.56	●

- 刀柄若需数据芯片孔, 请在型号后加 "X"
- 订货示例: 1 件 DIN69871 50 K19x100
- If needing the hole for data chip, please add "X" at the end of the designation
- Ordering sample: 1 PC DIN69871 50 K19x100

备件

Spare Parts



D2	锁紧螺钉 Clamping screw	锁紧螺钉扳手 Allen key for clamping screw
D2=19	SR65 M4x5-X	KEY01 M2
D2=25	SR65 M5x6.5-X	KEY01 M2.5
D2=32	SR65 M6x9-X	KEY01 M3
D2=40	SR65 M8x11-X	KEY01 M4
D2=50	SR65 M10x14-X	KEY01 M5
D2=63	SR65 M12x18-X	KEY01 M6
D2=88	SR65 M20x28-X	KEY01 M10

● 标准库存
Item in stock

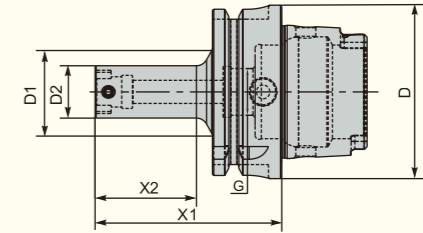
○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MODULAR BORING TOOL WITH TYPE K CONNECTION 模块式镗刀 (K 接口)

HSK-A K 接口刀柄

HSK-A Adaptor with Type K Connection



规格型号 Designation	D	D1	D2	X1	X2	G	Kg	在库 Stock
HSK A63 K19x80	63	31	19	80	40	M18x1	0.9	●
HSK A63 K25x80	63	-	25	80	-	M18x1	1.0	●
HSK A63 K32x85	63	-	32	85	-	M18x1	1.1	●
HSK A63 K32x120	63	-	32	120	-	M18x1	1.13	●
HSK A63 K40x80	63	-	40	80	-	M18x1	1.2	●
HSK A63 K40x120	63	-	40	120	-	M18x1	1.42	●
HSK A63 K50x60	63	-	50	60	-	M18x1	1.3	●
HSK A63 K50x115	63	-	50	115	-	M18x1	1.78	●
HSK A63 K63x70	63	-	63	70	-	M18x1	1.5	●
HSK A63 K63x110	63	-	63	110	-	M18x1	2.02	●
HSK A100 K19x100	100	31	19	100	40	M24x1.5	2.4	●
HSK A100 K25x115	100	50	25	115	70	M24x1.5	2.6	●
HSK A100 K32x110	100	-	32	110	-	M24x1.5	2.8	●
HSK A100 K40x105	100	-	40	105	-	M24x1.5	3.0	●
HSK A100 K40x150	100	-	40	150	-	M24x1.5	3.00	●
HSK A100 K50x75	100	-	50	75	-	M24x1.5	3.3	●
HSK A100 K50x140	100	-	50	140	-	M24x1.5	3.43	●
HSK A100 K50x185	100	-	50	185	-	M24x1.5	4.10	●
HSK A100 K63x75	100	-	63	75	-	M24x1.5	3.4	●
HSK A100 K63x165	100	-	63	165	-	M24x1.5	4.79	●
HSK A100 K63x215	100	-	63	215	-	M24x1.5	5.94	●
HSK A100 K90x125	100	-	88	125	-	M24x1.5	5.8	●
HSK A100 K90x215	100	-	88	215	-	M24x1.5	9.82	●
HSK A100 K90x275	100	-	88	275	-	M24x1.5	12.58	●

- 订货示例: 1 件 HSK A63 K19x80.
- 内冷却管需单独订购, 请参照: ① H017 页.
- Ordering Simple: 1 PC HSK A63 K19x80.
- Inner coolant should be ordered separately, please see page H017.

备件

Spare Parts



D2	锁紧螺钉 Clamping screw	锁紧螺钉扳手 Allen key for clamping screw
D2=19	SR65 M4x5-X	KEY01 M2
D2=25	SR65 M5x6.5-X	KEY01 M2.5
D2=32	SR65 M6x9-X	KEY01 M3
D2=40	SR65 M8x11-X	KEY01 M4
D2=50	SR65 M10x14-X	KEY01 M5
D2=63	SR65 M12x18-X	KEY01 M6
D2=88	SR65 M20x28-X	KEY01 M10

● 标准库存
Item in stock

○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MODULAR BORING TOOL WITH TYPE E CONNECTION

模块式镗刀 (E 接口)



A
孔加工刀具
HOLE MAKING TOOLS

模块式镗刀 (E 接口) Modular Boring Tool with Type E Connection

模块式 E 接口原理及连接锁紧方式	A27
Clamping Principle for Type E Connection	
BR 系列粗镗刀	A28
BR Rough Boring Tool with Type E Connection	
BR 系列粗镗刀 (反镗示意)	A29
BR Rough Boring Tool for Back Boring with Type E Connection	
矩形槽粗镗刀座	A30
Cartridge for Rough Boring Tool	
反镗刀座	A33
Cartridge for Rough Boring Tool for Back Boring	
NBF 系列小孔径微调精镗刀	A34
NBF Mini Precision Boring Tool with Type E Connection	
小孔精镗刀杆	A35
Mini Precision Boring Bar	
小孔精镗刀杆变径套	A36
Reduction Sleeve for Mini Precision Boring Bar	
NBF 系列微调精镗刀	A37
NBF Precision Boring Tool with Type E Connection	
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E 接口接长杆	A39
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Reduction with Type E Connection	
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DIN69871-A Adaptor with Type E Connection	
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HSK-A Adaptor with Type E Connection	
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MODULAR BORING TOOL WITH TYPE E CONNECTION 模块式镗刀 (E 接口)

模块式 E 接口原理及连接锁紧方式

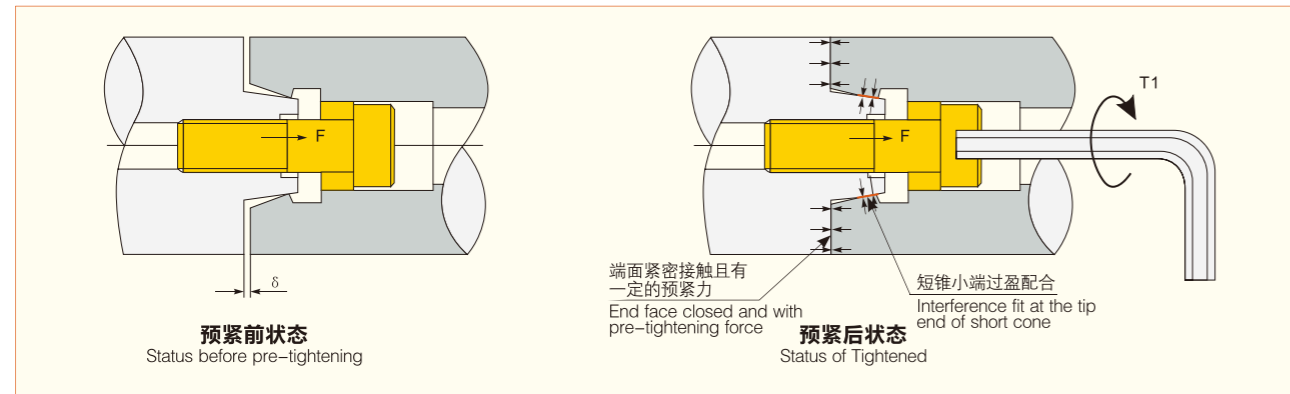
Clamping Principle and Assembly Instruction of Type E Connection

模块式 E 接口采用短锥过定位连接方式，自由状态时为短锥配合，端面有间隙；工作状态时轴向加一拉紧力 F，使短锥过盈并微量变形，同时端面接触并有一定的预紧力，使接口保持高的连接刚性和定位精度；短锥小端的过盈能保证中心拉紧时端面接触均匀、预紧力一致，使接口的连接性和定位精度更稳定；接口圆周上设计有一端面键，以传递更大的切削扭矩，模块式 E 接口分标准 E 接口和加长型 E 接口两种连接锁紧方式，标准 E 接口直接用轴向螺钉锁紧，简单快捷；加长型 E 接口通过锥面螺钉的转换，锁紧通过径向两螺钉的平衡加力。使接口锁紧，加长柄连接时方便省力。

The type E connection adopts the short cone over-positioning connecting method, and there will have space if it is the short cone fitting when it is free status. There will be axial tension F makes the short cone interfered and a little bit deformation, meanwhile the end face closed to and the pretightening force makes sure the high rigidity, high accuracy. The interference can make sure the contact surface well-distributed, pretightening force is coincident and with the high rigidity, high accuracy. There is an end face key at the circumference to transfer more cutting torsions. There are two styles of E connection, one is standard which is with axial screw tighten the boring tool and the adaptor for standard type Two radial screw tighten the boring tool and the adaptor with balance clamping force to make long type connection easily.

标准型 E 接口原理图

Clamping Principle of Type E Connection



模块式 E 接口锁紧力矩参考值

Recommend Value of Tightening Torque of Type E Connection

接口规格 Designation	E25	E32	E40	E50	E63	E80
标准 E 接口锁紧力矩 T1 T1 for Standard E connection	18	18	80	80	150	200

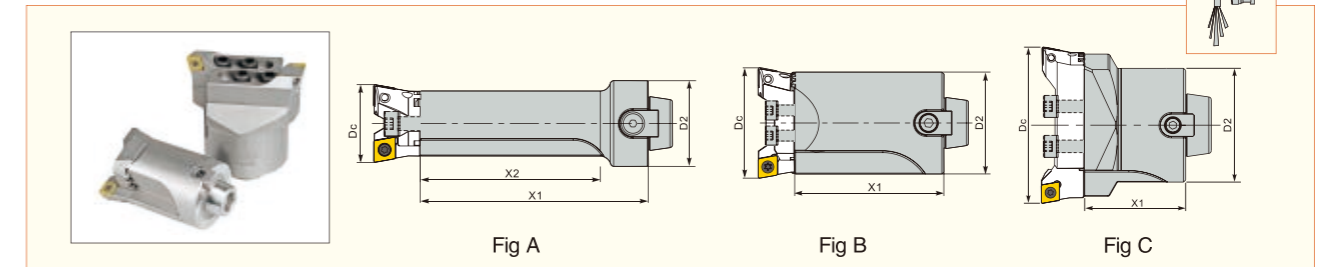
MODULAR BORING TOOL WITH TYPE E CONNECTION 模块式镗刀 (E 接口)

BR 系列粗镗刀

BR Rough Boring Tool with Type E Connection

双刃可调，镗孔加工范围 $\Phi 20-\Phi 153$ ，短锥模块式 E 接口，矩形槽刀座接口。

Two teeth rough boring tool, boring range 20-153. Hollow short taper modular connection type E. with rectangular guide slot cartridge.



规格型号 Designation	Dc	D2	X1	X2	Z	Fig	Kg	适配刀座 Cartridge	在庫 Stock
BR D020-027.E25.Z2.68.C	20-24	25	68	55	2	A	0.14	S..D020-024..	●
BR D020-027.E25.Z2.88.C	23-27	25	68	55	2	A	0.14	S..D023-027..	●
BR D026-035.E25.Z2.88.C	20-24	25	88	75	2	A	0.15	S..D020-024..	●
BR D026-035.E25.Z2.68.C	23-27	25	88	75	2	A	0.15	S..D023-027..	●
BR D033-041.E32.Z2.68.C	26-35	25	68	-	2	B	0.20	S..D026-035..	●
BR D033-041.E32.Z2.88.C	26-35	32	68	-	2	B	0.35	S..D033-041..	●
BR D041-055.E40.Z2.65.C	41-55	40	65	-	2	B	0.54	S..D041-055..	●
BR D055-070.E50.Z2.75.C	55-70	50	75	-	2	B	0.98	S..D055-070..	●
BR D070-090.E63.Z2.75.C	70-90	63	75	-	2	B	1.65	S..D070-090..	●
BR D090-110.E63.Z2.75.C	90-110	63	75	-	2	C	1.90	S..D090-110..	●
BR D090-110.E80.Z2.75.C	90-110	80	75	-	2	B	2.68	S..D090-110..	●
BR D110-153.E63.Z2.75.C	110-133	63	75	-	2	C	2.20	S..D110-133..	●
BR D110-153.E80.Z2.75.C	110-133	63	75	-	2	C	2.20	S..D130-153..	●
BR D110-153.E80.Z2.75.C	130-153	80	75	-	2	C	2.94	S..D110-133..	●
BR D110-153.E80.Z2.75.C	130-153	80	75	-	2	C	2.94	S..D130-153..	●

- 适配刀座需单独订购，请参照：A30-A32 页。
- 适配刀柄需单独订购，请参照：A41-A44 页。
- 加工不同材料刀具的切削参数，请参照：A113-A116 页。
- 刀座刻线标注依据：CC06/CC09/TC11/TC16/SO06 圆角为 R0.4 时的值，SO09 圆角为 R0.6 时的值，CC12/SC09/SC12/SO12 圆角为 R0.8 时的值；SO16 圆角为 R1.2 时的值；
- 订货示例：1 件 BR D020-027.E25.Z2.68.C。
- The cartridge should be ordered separately, please see page A30-A32.
- The adaptor should be ordered separately, please see page A41-A44.
- Recommended cutting data please see page A113-A116.
- Scale mark basis.
- The scale value for CC06/CC09/TC11/SO06 with R0.4. The scale value for SO09 with R0.6.
- The scale value for CC12/SC09/SC12/SO12 with R0.8. The scale value for SO16 with R1.2.
- Ordering sample: 1 Piece BR D020-027.E25.Z2.68.C

备件

Spare Parts

Dc	刀座锁紧螺钉 Clamping screw for cartridge	碟形垫片 Disk spring	锁紧扳手 Allen key for adjusting screw	D2	平键 Flat key	平键锁紧螺钉 Clamping screw for flat key
20-35mm	SR55 M4x16	GK20 D4	KEY01 M3	D2=25	PL03 8x2	SR57 M3X6
33-41mm	SR55 M5x16	GK20 D5	KEY01 M4	D2=32	PL03 8x6	SR57 M3x10
41-55mm	SR55 M6x20	GK20 D6	KEY01 M5	D2=40	PL03 10x5	SR57 M4x12
55-70mm	SR55 M6x20	GK20 D6	KEY01 M5	D2=50	PL04 12x9	SR55 M5x12
70-90mm	SR55 M8x25	GK20 D8	KEY01 M6	D2=63	PL04 14x12	SR55 M5X12
90-153mm	SR55 M10x30	GK20 D10	KEY01 M8	D2=80	PL04 16x14	SR55 M6x16

● 标准库存
Item in stock

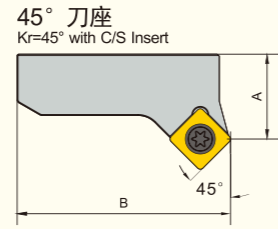
● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MODULAR BORING TOOL WITH TYPE E CONNECTION 模块式镗刀 (E 接口)

矩形槽粗镗刀座

Cartridge for Rough Boring Tool



45° 刀座

Kr=45° with C/S Insert



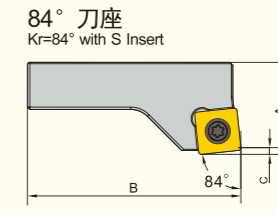
规格型号 Designation	镗削范围 Boring range	A	B	适用刀片 Insert	Kg	刀座调整螺钉 Clamping for adjusting insert	刀座调整扳手 Allen key for adjusting screw	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for damping screw	在庫 Stock
S45A D023-027.CC06	23-27	13.6	17	CC..0602..	0.01	SR50 M2.5x6	KEY01 M1.3	SR21 M2.5x5.3	KEY02 T7	●
S45A D026-035.CC06	26-35	13.6	20	CC..0602..	0.01	SR50 M2.5x6	KEY01 M1.3	SR21 M2.5x5.3	KEY02 T7	●
S45A D033-041.CC06	33-41	15	25	CC..0602..	0.02	SR50 M3.0x8	KEY01 M1.5	SR21 M2.5x5.3	KEY02 T7	●
S45A D041-055.SC09	41-55	18	30	SC..09T3..	0.03	SR50 M3.0x10	KEY01 M1.5	SR21 M4x9.5	KEY02 T15	●
S45A D055-070.SC09	55-70	30	45	SC..09T3..	0.04	SR50 M4.0x10	KEY01 M2	SR21 M4x9.5	KEY02 T15	●
S45A D070-090.SC09	70-90	30	59	SC..09T3..	0.13	SR50 M5.0x12	KEY01 M2.5	SR21 M4x9.5	KEY02 T15	●
S45A D090-110.SC09	90-110	30	75	SC..09T3..	0.21	SR50 M5.0x16	KEY01 M2.5	SR21 M4x9.5	KEY02 T15	●
S45A D110-133.SC09	110-133	30	85	SC..09T3..	0.25	SR50 M5.0x16	KEY01 M2.5	SR21 M4x9.5	KEY02 T15	●
S45A D130-153.SC09	130-153	30	93	SC..09T3..	0.27	SR50 M5.0x16	KEY01 M2.5	SR21 M4x9.5	KEY02 T15	●

- 刀片请根据不同材料单独订购，请参照：☞ A91 页, A96 页。
- 订货示例：1 件 S45A D023-027.CC06。
- The inserts for different materials should be ordered separately, please see page A91, A96.
- Ordering sample: 1 PC S45A D023-027.CC06.

MODULAR BORING TOOL WITH TYPE E CONNECTION 模块式镗刀 (E 接口)

矩形槽粗镗刀座

Cartridge for Rough Boring Tool



84° 刀座

Kr=84° with S Insert



规格型号 Designation	镗削范围 Boring range	A	B	C	适用刀片 Insert	Kg	刀座调整螺钉 Clamping for adjusting insert	刀座调整扳手 Allen key for adjusting screw	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for damping screw	在庫 Stock
S84A D020-024.SO06	20-24	13.9	17	0.7	SO.. 0603..	0.01	SR50 M2.5x5	KEY01 M1.3	SR20 M2.2x5.6	KEY02 T7	●
S84A D023-027.SO06	23-27	13.9	17.9	0.7	SO.. 0603..	0.01	SR50 M2.5x6	KEY01 M1.3	SR20 M2.2x5.6	KEY02 T7	●
S84A D026-035.SO06	26-35	13.9	20.4	0.7	SO.. 0603..	0.01	SR50 M2.5x6	KEY01 M1.3	SR20 M2.2x5.6	KEY02 T7	●
S84A D033-041.SO06	33-41	15.1	25.8	0.7	SO.. 0603..	0.02	SR50 M3x8	KEY01M1.5	SR20 M2.2x5.6	KEY02 T7	●
S84A D041-055.SO09	41-55	18.1	32.1	0.7	SO.. 09T3..	0.03	SR50 M3x10	KEY01 M1.5	SR20 M3x6.6	KEY02 T9	●
S84A D055-070.SO09	55-70	18.1	45.3	0.7	SO.. 09T3..	0.05	SR50 M4x10	KEY01 M2	SR20 M3x6.6	KEY02 T9	●
S84A D070-090.SO12	70-90	30.3	58.8	1.0	SO.. 1204..	0.15	SR50 M5x12	KEY01 M2.5	SR20 M4x9.5	KEY02 T15	●
S84A D090-110.SO12	90-110	30.3	73.6	1.0	SO.. 1204..	0.22	SR50 M5x16	KEY01 M2.5	SR20 M4x9.5	KEY02 T15	●
S84A D110-133.SO12	110-133	30.3	85.4	1.0	SO.. 1204..	0.26	SR50 M5x16	KEY01 M2.5	SR20 M4x9.5	KEY02 T15	●
S84A D130-153.SO12	130-153	30.3	96.4	1.0	SO.. 1204..	0.31	SR50 M5x16	KEY01 M2.5	SR20 M4x9.5	KEY02 T15	●
S84A D090-110.SO16	90-110	30.1	73.6	2.6	SO.. 1605..	0.22	SR50 M5x16	KEY01 M2.5	SR20 M5x13.8	KEY02 T15	●
S84A D110-133.SO16	110-133	30.1	85.4	2.6	SO.. 1605..	0.26	SR50 M5x16	KEY01 M2.5	SR20 M5x13.8	KEY02 T15	●
S84A D130-153.SO16	130-153	30.1	96.4	2.6	SO.. 1605..	0.32	SR50 M5x16	KEY01 M2.5	SR20 M5x13.8	KEY02 T15	●

- 刀片请根据不同材料单独订购，请参照：☞ A98 页。
- 订货示例：1 件 S84A D033-041.SO06。
- The inserts for different materials should be ordered separately, please see page A98.
- Ordering sample: 1 PC S84A D033-041.SO06.

规格型号 Designation	镗削范围 Boring range	A	B	C	适用刀片 Insert	Kg	刀座调整螺钉 Clamping for adjusting insert	刀座调整扳手 Allen key for adjusting screw	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for damping screw	在庫 Stock
S84A D033-041.SC09	33-41	16.5	26	1.3	SC..09T3..	0.02	SR50 M3x8	KEY01 M1.5	SR21 M4x9.5	KEY02 T15	●
S84A D041-055.SC09	41-55	18.0	32	1.3	SC..09T3..	0.04	SR50 M3x8	KEY01 M1.5	SR21 M4x9.5	KEY02 T15	●
S84A D047-059.SC12	47-59	20.0	36	2.0	SC..1204..	0.04	SR50 M3x10	KEY01 M1.5	SR21 M5x12.8	KEY02 T20	●
S84A D055-070.SC09	55-70	18.0	45	1.3	SC..09T3..	0.05	SR50 M4x10	KEY01 M2.0	SR21 M4x9.5	KEY02 T15	●
S84A D058-073.SC12	58-73	20.0	47	2.0	SC..1204..	0.05	SR50 M4x10	KEY01 M2.0	SR21 M5x12.8	KEY02 T20	●
S84A D070-090.SC12	70-90	30.0	59	2.0	SC..1204..	0.15	SR50 M5x12	KEY01 M2.5	SR21 M5x12.8	KEY02 T20	●
S84A D090-110.SC12	90-110	30.0	74	2.0	SC..1204..	0.22	SR50 M5x16	KEY01 M2.5	SR21 M5x12.8	KEY02 T20	●
S84A D110-133.SC12	110-133	30.0	85	2.0	SC..1204..	0.26	SR50 M5x16	KEY01 M2.5	SR21 M5x12.8	KEY02 T20	●
S84A D130-153.SC12	130-153	30.0	96	2.0	SC..1204..	0.31	SR50 M5x16	KEY01 M2.5	SR21 M5x12.8	KEY02 T20	●

- 适用刀片请根据不同的加工材料单独订购，请参照：☞ A96 页。
- 订货示例：1 件 S84A D070-090.SC12。
- The inserts for different materials should be ordered separately, please see page A96.
- Ordering sample: 1 PCS84A D070-090.SC12

● 标准库存
Item in stock

○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

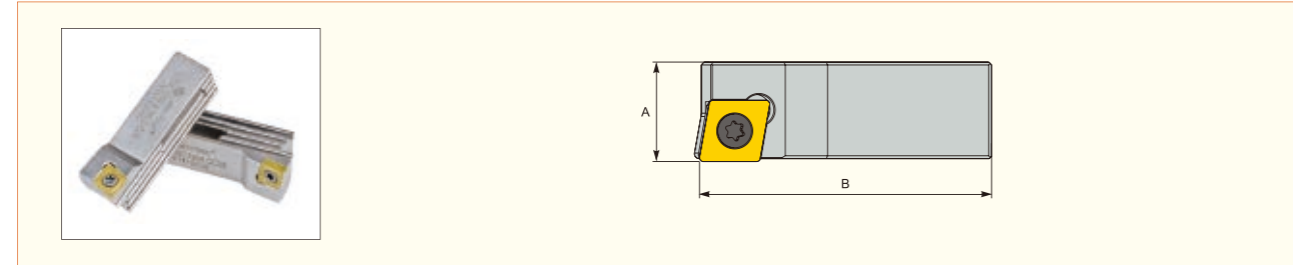
MODULAR BORING TOOL WITH TYPE E CONNECTION 模块式镗刀 (E 接口)

反镗刀座

Cartridge for Rough Boring Tool for Back Boring

适配于 BR 系列矩形槽刀座接口的双刃粗镗刀，调整方便，加工范围：Φ30-Φ152。

It is suitable for the BR series twin cutter rough boring tool, with the boring range of Φ30-Φ152, and also it can be adjusted easily.



规格型号 Designation	镗削范围 Boring rang	A	B	适用刀片 Insert	Kg	在库 Stock
S90C D19.3035.CC06	30-35	11.3	21.0	CC..0602..	0.01	●
S90C D25.3341.CC06	33-41	11.3	23.0	CC..0602..	0.01	●
S90C D25.4048.CC06	40-48	11.3	26.6	CC..0602..	0.02	●
S90C D32.4252.CC06	42-52	10.3	30.2	CC..0602..	0.02	●
S90C D32.5161.CC06	51-61	10.3	35.0	CC..0602..	0.03	●
S90C D40.5365.CC09	53-65	16.6	36.6	CC..09T3..	0.06	●
S90C D40.6476.CC09	64-76	16.6	42.3	CC..09T3..	0.07	●
S90C D50.5369.CC09	53-69	16.6	45.0	CC..09T3..	0.06	●
S90C D50.6884.CC09	68-84	16.6	52.8	CC..09T3..	0.08	●
S90C D50.8399.CC09	83-99	16.6	62.0	CC..09T3..	0.10	●
S90C D63.6889.CC09	68-89	16.6	57.3	CC..09T3..	0.12	●
S90C D63.88109.CC09	88-109	16.6	67.3	CC..09T3..	0.16	●
S90C D80.88110.CC12	88-110	25.6	70.4	CC..1204..	0.25	●
S90C D80.108130.CC12	108-130	25.6	82.4	CC..1204..	0.31	●
S90C D100.108132.CC12	108-132	25.6	82.3	CC..1204..	0.29	●
S90C D100.128152.CC12	128-152	25.6	92.1	CC..1204..	0.36	●

- 刀片请根据不同材料单独选购，请参照：A93 页。
- 订货示例：1 件 S90C D32.4252.CC06。
- The inserts for different materials should be ordered separately, please see page A93.
- Ordering sample: 1 PC S90C D32.4252.CC06.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
CC..0602..	SR21 M2.5x5.3	KEY02 T7
CC..09T3..	SR21 M4x9.5	KEY02 T15
CC..1204..	SR21 M5x12.8	KEY02 T20

● 标准库存
Item in stock

● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

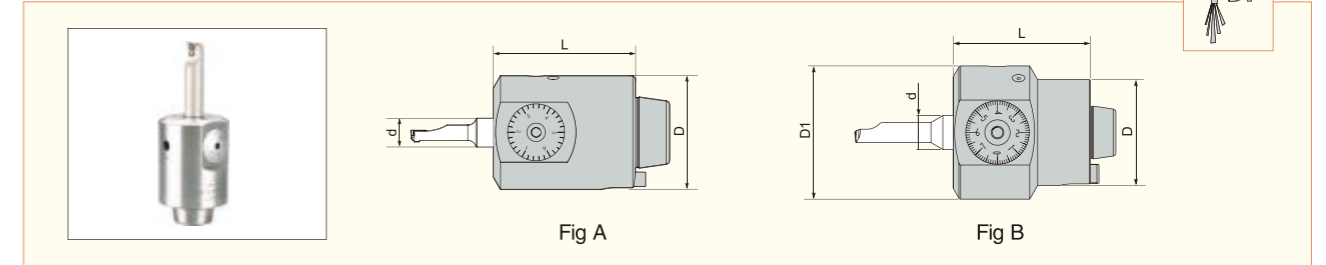
MODULAR BORING TOOL WITH TYPE E CONNECTION 模块式镗刀 (E 接口)

NBF 系列小孔径微调精镗刀

NBF Mini Precision Boring Tools with Type E Connection

小孔径可微调精镗刀，微调精度每格直径 0.01mm，加工范围 Φ2-Φ50，短锥模块式 E 接口，需配小孔精镗刀杆。

It is suitable for the BR rough boring Mini boring tool has a highly precise adjustment mechanism, 1 DIV =0.001 mm in diameter, and the boring range is Φ2-Φ50. High rigidity thanks of hollow short taper combination type E connection. Boring bars for the body.



规格型号 Designation	Dc	L	D	D1	d	Kg	Fig	适配刀杆 Boring bar	在库 Stock
NBF D02-22.E40.50.C	2-22	50	40	-	10	0.5	A	NBF C10-6 ST06E.. ST10.. ST10E..	●
NBF D06-50.E50.65.C	6-50	65	50	63	16	1.15	B	ST16.. ST16E..	●
NBF D06-50.E63.70.C	6-50	70	63	-	16	1.55	A	ST16.. ST16E..	●

- 适配精镗刀杆需单独选购，请参照：A35-A36 页。
- 适配刀杆需单独订购，请参照：A41-A46 页。
- 加工不同材料刀具的切削参数，请参照：A115-A118 页。
- 订货示例：1 件 NBF D02-22.E40.Z1.50.C。
- The boring bar should be ordered separately, please see page A35-A36.
- The adaptor should be ordered separately, please see page A41-A46.
- Recommended cutting data please see page A115-A118.
- Ordering sample: 1 piece NBF D02-22.E40.Z1.50.C

备件

Spare Parts

规格型号 Designation	刀杆锁紧螺钉 Clamping screw for insert	LOCK 螺钉 Lock screw	调整扳手 Allen key for adjusting screw	平键 Flat key	平键锁紧螺钉 Clamping screw for flat key
NBF D02-22.E40	SR54 M6x10	SR54 M6x10	KEY01 M3	PL03 10x5	SR57 M4x12
NBF D06-50.E50	SR54 M10x16	SR54 M10x16	KEY01 M5	PL04 12x9	SR55 M5x12
NBF D06-50.E63	SR54 M10x16	SR54 M10x16	KEY01 M5	PL04 14x12	SR55 M5x12

● 标准库存
Item in stock

● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

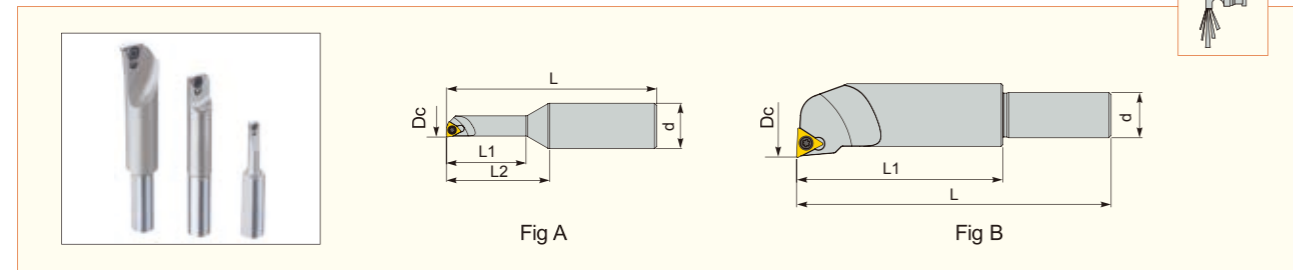
○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MODULAR BORING TOOL WITH TYPE E CONNECTION 模块式镗刀 (E 接口)

小孔精镗刀杆

Mini Precision Boring Bar

适用于小孔微调精镗刀，钢制，标准长度。
Mini boring bar made of steel with standard length.



ST10

规格型号 Designation	Dc	d	L	L1	L2	刀片 Insert	Fig	在库 Stock
ST10 D06-08.WB06.23	6-8	10	53	20	23	WB..0601..	A	●
ST10 D08-10.WB06.25	8-10	10	55	23	25	WB..0601..	A	●
ST10 D10-12.WB06.30	10-12	10	60	30	30	WB..0601..	A	●
ST10 D12-14.TP09.36	12-14	10	66	36	-	TP..0902..	B	●
ST10 D14-16.TP09.42	14-16	10	72	42	-	TP..0902..	B	●
ST10 D16-18.TP11.48	16-18	10	78	48	-	TP..1103..	B	●
ST10 D18-20.TP11.54	18-20	10	84	54	-	TP..1103..	B	●
ST10 D20-22.TP11.60	20-22	10	90	60	-	TP..1103..	B	●

- 刀片请根据不同材料单独订购。请参照：A93 页, A95 页。
- 订货示例：1 件 ST10 D06-08.WB06.23。
- The insert should be ordered separately, please see page A93, A95.
- Ordering sample: 1 piece ST10 D06-08.WB06.23

ST16

规格型号 Designation	Dc	d	L	L1	L2	刀片 Insert	Fig	在库 Stock
ST16 D06-08.WB06.23	6-8	16	63	23	33	WB..0601..	A	●
ST16 D08-11.WB06.28	8-11	16	68	28	36	WB..0601..	A	●
ST16 D10-13.WB06.36	10-13	16	76	36	42	WB..0601..	A	●
ST16 D12-16.TP09.50	12-16	16	90	50	54	TP..0902..	A	●
ST16 D15-21.TP09.60	15-21	16	100	60	61	TP..0902..	A	●
ST16 D20-26.TP11.64	20-26	16	104	64	-	TP..1103..	B	●
ST16 D25-31.TP11.64	25-31	16	104	64	-	TP..1103..	B	●
ST16 D30-36.TP11.72	30-36	16	112	72	-	TP..1103..	B	●
ST16 D35-41.TP11.72	35-41	16	112	72	-	TP..1103..	B	●
ST16 D40-46.TP11.72	40-46	16	112	72	-	TP..1103..	B	●
ST16 D44-50.TP11.72	44-50	16	112	72	-	TP..1103..	B	●

- 刀片请根据不同材料单独订购。请参照：A93 页, A95 页。
- 订货示例：1 件 ST16 D06-08.WB06.23。
- The insert should be ordered separately, please see page A93, A95.
- Ordering sample: 1 piece ST16 D06-08.WB06.23

备件

Spare Parts

刀片 Insert	刀片螺钉 Clamping screw for insert	螺钉扳手 Allen key for insert clamping screw
WB..0601..	SR20 M2x3.7	KEY02 T6
TP..0902..	SR22 M2.5x6	KEY02 T8
TP..1103..	SR22 M3x8	KEY02 T8

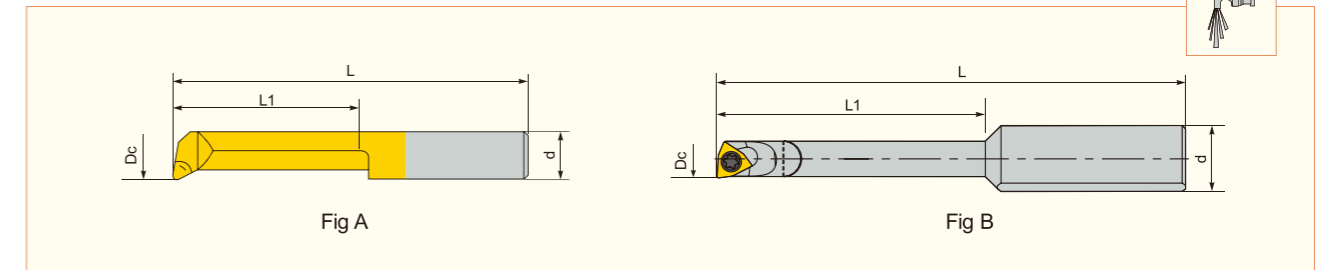
- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MODULAR BORING TOOL WITH TYPE E CONNECTION 模块式镗刀 (E 接口)

小孔精镗刀杆 (抗振型)

Mini Anti-Vibration Precision Boring Bar

适用于小孔微调精镗刀，硬质合金杆，加长抗振型。
Anti-vibration mini boring bar made of carbide. Advantage: increase rigidity. Reduce deflection. Vibration neutralisation.



STO6E/10E

规格型号 Designation	Dc	d	L	L1	刀片 Insert	Fig	在库 Stock
STO6E D02-03.10	2-3	6	35	10	-	A	○
STO6E D03-04.15	3-4	6	40	15	-	A	○
STO6E D04-06.20	4-6	6	45	20	-	A	○
ST10E D06-08.WB06.40	6-8	10	70	40	WB..0601..	B	○
ST10E D08-10.WB06.60	8-10	10	90	60	WB..0601..	B	○
ST10E D10-12.WB06.75	10-12	10	105	75	WB..0601..	B	○

- D2-D6 整体硬质合金镗刀杆最低订货量 5 支 / 次。STO6E 须用 NBF C10-6 变径套夹持。
- 刀片请根据不同材料单独订购。请参照：A93 页。
- 订货示例：5 件 STO6E D02-03.10。
- D2-D6 is solid carbide boring bar and the MOQ is 5 units. STO6E must be clamped by the reduction sleeve whose model# is NBF C10-6.
- Insert should be ordered by separately, please see page A93.
- Ordering sample: 5 pieces STO6E D02-03.10

ST16E

规格型号 Designation	Dc	d	L	L1	刀片 Insert	Fig	在库 Stock
ST16E D06-08.WB06.45	6-8	16	85	45	WB..0601..	B	○
ST16E D08-11.WB06.60	8-11	16	100	60	WB..0601..	B	○
ST16E D10-13.WB06.75	10-13	16	115	75	WB..0601..	B	○
ST16E D12-16.TP09.90	12-16	16	130	90	TP..0902..	B	○
ST16E D15-21.TP09.110	15-21	16	150	110	TP..0902..	B	○

- 刀片请根据不同材料单独订购。请参照：A93 页, A95 页。
- 订货示例：5 件 ST16E D06-08.WB06.45。
- The insert should be ordered separately, please see page A93, A95.
- Ordering sample: 1 piece ST16E D06-08.WB06.45.

备件

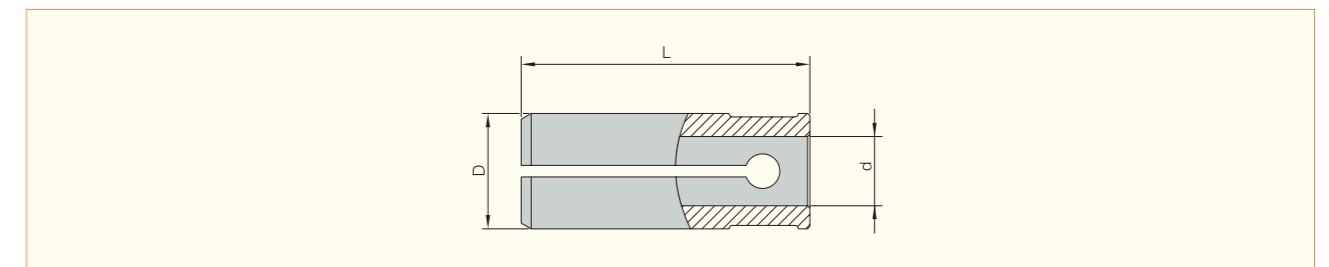
Spare Parts

刀片 Insert	刀片螺钉 Clamping screw for insert	螺钉扳手 Allen key for insert clamping screw
WB..0601..	SR20 M2x3.7	KEY02 T6
TP..0902..	SR22 M2.5x6	KEY02 T8

小孔精镗刀杆变径套

Reduction Sleeve for Mini Boring Bar

适用于 STO6E ... 小孔精镗刀杆。
It is suitable for STO6E ... mini precision boring bar.



规格型号 Designation	D	d	L	在库 Stock
NBF C10-6	10	6	25	○

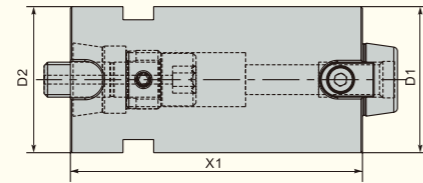
- 订货示例：1 件 NBF C10-6。
- Ordering sample: 1 piece NBF C10-6.

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MODULAR BORING TOOL WITH TYPE E CONNECTION 模块式镗刀 (E 接口)

E 接口接长杆

Extension with Type E Connection



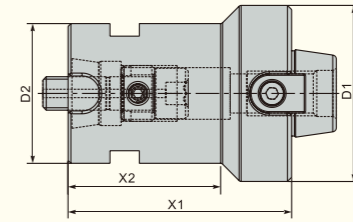
规格型号 Designation	D1	D2	X1	Kg	在庫 Stock
EX E25-E25x50	25	25	50	0.20	●
EX E25-E25x75	25	25	75	0.25	●
EX E32-E32x50	32	32	50	0.30	●
EX E32-E32x80	32	32	80	0.50	●
EX E40-E40x55	40	40	55	0.50	●
EX E40-E40x75	40	40	75	0.65	●
EX E40-E40x100	40	40	100	0.90	●
EX E50-E50x60	50	50	60	0.90	●
EX E50-E50x80	50	50	80	1.15	●
EX E50-E50x100	50	50	100	1.45	●
EX E63-E63x80	63	63	80	1.80	●
EX E63-E63x100	63	63	100	2.25	●
EX E63-E63x120	63	63	120	2.70	●
EX E80-E80x100	80	80	100	3.60	●
EX E80-E80x120	80	80	120	4.35	●
EX E80-E80x140	80	80	140	5.10	●
EX E80-E80x160	80	80	160	5.80	●

- 如需内冷, 请在规格型号后加 "C"。
- 适配刀柄需单独订购, 请参照: [A41-A46 页](#)。
- 备件请参照: [A112 页](#)。
- 订货示例: 1 件 EX E25-E25x50.C。
- Please add ".C" at the end of designation by internal coolant hole requirement.
- The adaptor should be ordered separately, please see page [A41-A46](#).
- Spare parts: please see page [A112](#).
- Ordering sample: 1 piece EX E25-E25x50.

MODULAR BORING TOOL WITH TYPE E CONNECTION 模块式镗刀 (E 接口)

E 接口缩径杆

Reduction with Type E Connection



规格型号 Designation	D1	D2	X1	X2	Kg	在庫 Stock
RE E32-E25x50	32	25	50	32	0.21	●
RE E40-E25x50	40	25	50	30	0.30	●
RE E40-E32x50	40	32	50	28	0.38	●
RE E50-E25x50	50	25	50	25	0.30	●
RE E50-E32x50	50	32	50	25	0.50	●
RE E50-E40x70	50	40	70	50	0.70	●
RE E63-E25x50	63	25	50	20	0.70	●
RE E63-E25x80	63	25	80	50	0.80	●
RE E63-E32x50	63	32	50	20	0.80	●
RE E63-E32x80	63	32	80	50	0.95	●
RE E63-E40x80	63	40	80	55	1.00	●
RE E63-E40x100	63	40	100	75	1.20	●
RE E63-E40x120	63	40	120	95	1.40	●
RE E63-E40x140	63	40	140	15	1.60	●
RE E63-E50x80	63	50	80	55	1.30	●
RE E63-E50x100	63	50	100	75	1.60	●
RE E63-E50x120	63	50	120	95	1.90	●
RE E63-E50x140	63	50	140	115	2.20	●
RE E80-E32x80	80	32	80	45	1.45	●
RE E80-E40x80	80	40	80	45	1.65	●
RE E80-E50x80	80	50	80	48	1.95	●
RE E80-E50x100	80	50	100	63	2.20	●
RE E80-E63x80	80	63	80	50	2.25	●
RE E80-E63x100	80	63	100	63	2.80	●

- 如需内冷, 请在规格型号后加 "C"。
- 适配刀柄需单独订购, 请参照: [A41-A46 页](#)。
- 备件请参照: [A112 页](#)。
- 订货示例: RE E32-E25x50.C。
- Please add ".C" at the end of designation by internal coolant hole requirement.
- The adaptor should be ordered separately, please see page [A41-A46](#).
- Spare parts: please see page [A112](#).
- Ordering sample: 1 piece RE E32-E25x50.C.

● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

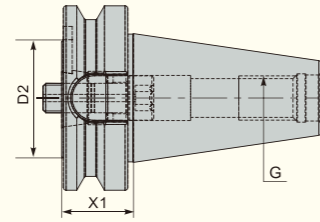
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Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MODULAR BORING TOOL WITH TYPE E CONNECTION 模块式镗刀 (E 接口)

BT MAS403 标准 E 接口刀柄

MAS403 BT Adaptor with Type E Connection



规格型号 Designation	ISO	D2	X1	G	Kg	在库 Stock
BT30 E25.C	30	25	23	M12	0.36	●
BT30 E32.C	30	32	23	M12	0.36	●
BT30 E40.C	30	40	55	M12	0.73	●
BT30 E50.C	30	50	60	M12	0.99	●
BT40 E25.C	40	25	28	M16	0.95	●
BT40 E32.C	40	32	28	M16	0.95	●
BT40 E40.C	40	40	28	M16	0.91	●
BT40 E40x70.C	40	40	70	M16	1.27	●
BT40 E50.C	40	50	28	M16	0.91	●
BT40 E50x80.C	40	50	80	M16	1.64	●
BT40 E63.C	40	63	50	M16	1.35	●
BT40 E63x90.C	40	63	90	M16	2.24	●
BT40 E80.C	40	80	90	M16	2.30	●
BT50 E25.C	50	25	40	M24	3.60	●
BT50 E32.C	50	32	40	M24	3.60	●
BT50 E32x70.C	50	32	70	M24	3.73	●
BT50 E40.C	50	40	40	M24	3.55	●
BT50 E40x80.C	50	40	80	M24	3.84	●
BT50 E50.C	50	50	40	M24	3.55	●
BT50 E50x90.C	50	50	90	M24	4.2	●
BT50 E63.C	50	63	40	M24	3.50	●
BT50 E63x100.C	50	63	100	M24	4.81	●
BT50 E80.C	50	80	44	M24	3.50	●
BT50 E80x120.C	50	80	120	M24	6.3	●

- 刀柄尺寸: 见 D59 页。
- 备件请参照: 见 A111 页。
- 刀柄若需数据芯片孔, 请在型号后加 "X"。
- 订货示例: BT30 E25.C。
- Size of adaptors please see page D59.
- Spare parts please see page A111.
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: BT30 E25.C.

备件

Spare Parts



接口 Connection	螺纹环 Thread ring	锥端紧定螺钉 Locking screw	中心螺钉 Central Screw	备注 Remarks
E25/E32	RG05 M14x1	SR51 M4x8	SR155 M8x30.C	-
E40	RG05 M20x1.5	SR51 M5x10	SR55 M12x40.C	BT50/BT40
E40	RG05 M20x1.5	SR51 M5x10	SR61 M12x40.C	BT30
E50	RG05 M20x1.5	SR51 M6x12	SR55 M12x40.C	BT50/BT40
E50	RG05 M20x1.5	SR51 M6x12	SR61 M12x40.C	BT30
E63	RG05 M26x1.5	SR51 M6x12	SR55 M16x45.C	BT50
E63	RG05 M26x1.5	SR51 M6x12	SR61 M16x45.C	BT40
E80	RG05 M33x1.5	SR51 M6x12	SR55 M20x50.C	BT50
E80	RG05 M33x1.5	SR51 M6x12	SR62 M20x50.C	BT40

● 标准库存
Item in stock

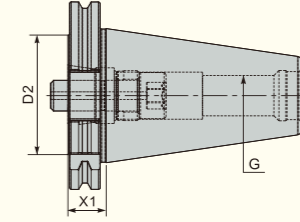
○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MODULAR BORING TOOL WITH TYPE E CONNECTION 模块式镗刀 (E 接口)

DIN69871-A 标准 E 接口刀柄

DIN69871-A Adaptor with Type E Connection



规格型号 Designation	ISO	D2	X1	G	Kg	在库 Stock
DIN69871 40 E25.C	40	25	20	M16	0.80	●
DIN69871 40 E32.C	40	32	20	M16	0.80	●
DIN69871 40 E40.C	40	40	20	M16	0.80	●
DIN69871 40 E50.C	40	50	20	M16	0.80	●
DIN69871 40 E63.C	40	63	50	M16	1.20	●
DIN69871 40 E80.C	40	80	72	M16	1.80	●
DIN69871 50 E25.C	50	25	20	M24	2.60	●
DIN69871 50 E32.C	50	32	20	M24	2.60	●
DIN69871 50 E40.C	50	40	20	M24	2.60	●
DIN69871 50 E50.C	50	50	20	M24	2.60	●
DIN69871 50 E63.C	50	63	20	M24	2.50	●
DIN69871 50 E80.C	50	80	24	M24	2.50	●

- 刀柄尺寸: 见 D60 页。
- 备件请参照: 见 A111 页。
- 刀柄若需数据芯片孔, 请在型号后加 "X"。
- 订货示例: DIN69871 40 E25.C。
- Size of adaptors please see page D60.
- Spare parts please see page A111.
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: DIN69871 40 E25.C.

备件

Spare Parts



接口 Connection	螺纹环 Thread ring	锥端紧定螺钉 Locking screw	中心螺钉 Central Screw	备注 Remarks
E25/E32	RG05 M14x1	SR51 M4x8	SR155 M8x30.C	-
E40	RG05 M20x1.5	SR51 M5x10	SR55 M12x40.C	-
E50	RG05 M20x1.5	SR51 M6x12	SR55 M12x40.C	DIN69871 40
E50	RG05 M20x1.5	SR51 M5x10	SR55 M12x40.C	DIN69871 50
E63	RG05 M26x1.5	SR51 M6x12	SR55 M16x45.C	DIN69871 50
E63	RG05 M26x1.5	SR51 M6x12	SR61 M16x45.C	DIN69871 40
E80	RG05 M33x1.5	SR51 M6x12	SR55 M20x50.C	DIN69871 50
E80	RG05 M33x1.5	SR51 M6x8	SR62 M20x50.C	DIN69871 40

● 标准库存
Item in stock

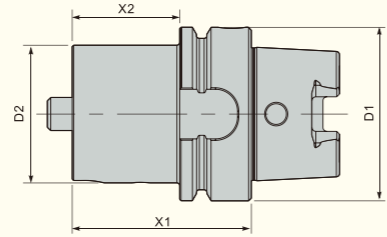
○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MODULAR BORING TOOL WITH TYPE E CONNECTION 模块式镗刀 (E 接口)

HSK-A E 接口刀柄

HSK-A Adaptor with Type E Connection



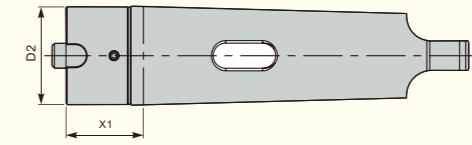
规格型号 Designation	D1	D2	X1	X2	Kg	在庫 Stock
HSK A63 E25.C	63	25	60	34	0.80	●
HSK A63 E32.C	63	32	60	34	0.80	●
HSK A63 E40.C	63	40	75	49	0.90	●
HSK A63 E50.C	63	50	75	49	1.00	●
HSK A63 E63.C	63	63	80	54	1.40	●
HSK A100 E25.C	100	25	65	36	2.20	●
HSK A100 E32.C	100	32	65	36	2.20	●
HSK A100 E40.C	100	40	80	51	2.60	●
HSK A100 E50.C	100	50	80	51	2.80	●
HSK A100 E63.C	100	63	90	61	3.40	●
HSK A100 E80.C	100	80	100	71	4.10	●

- 订货示例: HSK A63 E25.C.
- 备件请参照: [A112-A114](#) 页。
- Ordering sample :HSK A63 E25.C
- Spare parts please see page [A112-A114](#).

MODULAR BORING TOOL WITH TYPE E CONNECTION 模块式镗刀 (E 接口)

莫氏镗刀柄

Morse Taper Adaptor for Boring Tool



规格型号 Designation	标准柄 Standard shank	D2	X1	Kg	在庫 Stock
MT6A E63	莫氏 6 号 MT#6	63	50	4.46	○
MT80A E80	米制 80Metric 80	80	28	7.61	○

- 备件请参照: [A112-A114](#) 页。
- 订货示例: 1 件 MT6A E63。
- Spare parts please see page [A112-A114](#).
- Ordering sample: MT6A E63.

备件

Spare Parts



接口 Connection	螺纹环 Thread ring	锥端紧定螺钉 Locking screw	中心螺钉 Central Screw	备注 Remarks
E25/E32	RG05 M14x1	SR51 M4x8	SR155 M8x30.C	-
E40	RG05 M20x1.5	SR51 M5x10	SR55 M12x40.C	HSK A100
E40	RG05 M20x1.5	SR51 M5x10	SR61 M12x40.C	HSK A63
E50	RG05 M20x1.6	SR51 M6x12	SR55 M12x40.C	HSK A100
E50	RG05 M20x1.6	SR51 M6x12	SR61 M12x40.C	HSK A63
E63	RG05 M26x1.5	SR51 M6x13	SR61 M16x45.C	-
E80	RG05 M33x1.5	SR51 M6x13	SR61 M20x50.C	HSK A100

● 标准库存
Item in stock

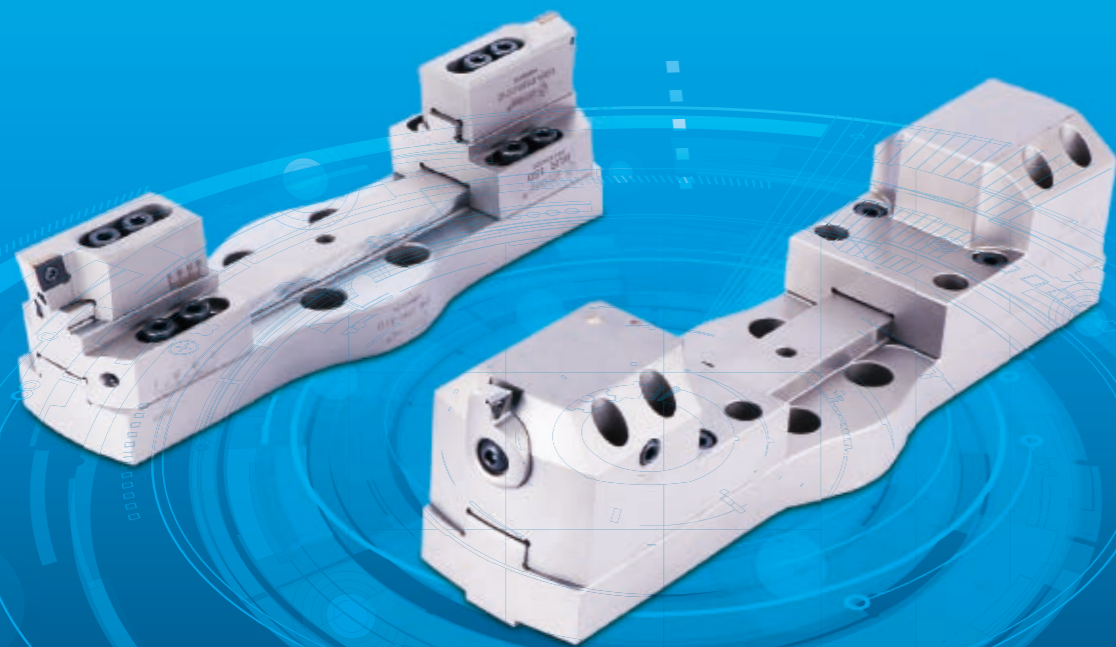
● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING TOOL WITH BRIDGE**桥式镗刀**

A
孔加工刀具
HOLE MAKING TOOLS

桥式镗刀

Boring Tool With Bridge

NLR 双刃桥式粗镗刀	A47
NLR Two-flute Rough Boring Tool with Bridge	
NLF 单刃桥式精镗刀	A49
NLF Precision Boring Tool with Bridge	
大型铝合金桥式粗 / 精镗刀	A51
Boring Tool (Rough/Finish) with Aluminum Bridge	
NLR 双刃桥式粗镗刀刀座	A52
Cartridge for Rough Boring Tool with Bridge	
桥式镗刀刀柄	A53
Adaptor for Boring Tool with Bridge	
定位芯轴	A54
Location Spindle	

自动伸缩式反刮刀

Automatic Telescopic Back Boring Tool

自动伸缩式反刮刀	A56
Automatic Telescopic Back Boring Tool	
反刮刀刀头	A57
Cartridge	
反刮刀刀片	A57
Insert	

定尺寸镗刀

Fixed Size Boring Tool

定尺寸镗刀	A59
Fixed Size Boring Tool	

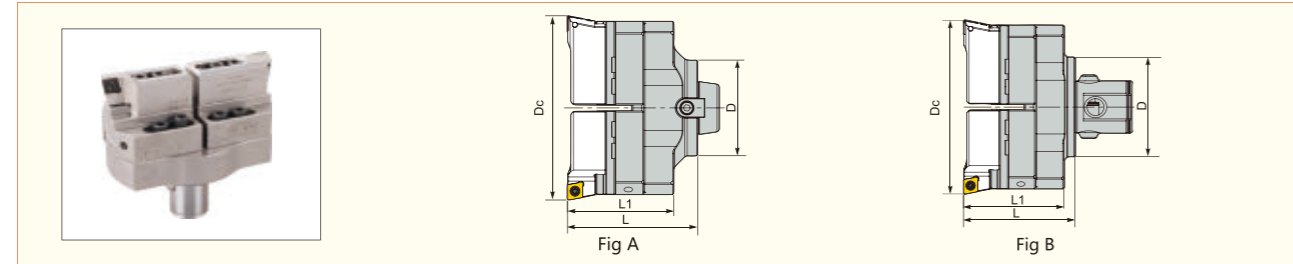
BORING TOOL WITH BRIDGE 桥式镗刀

NLR 双刃桥式粗镗刀

NLR Two-flute Rough Boring Tool With Bridge

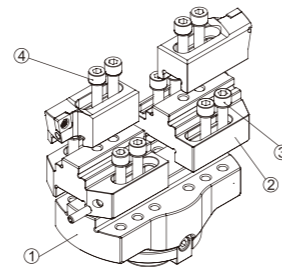
适用于大孔加工的双刃桥式粗镗刀，全磨制导向槽，标准型加工范围 $\Phi 150-\Phi 210$ ，适配大矩形槽双刃桥式粗镗刀座。

It is suitable for the finish machining for the large diameter, complete ground guide slot, the boring range is $\Phi 150-\Phi 210$. There is special cartridge for it.



规格型号 Designation	Dc	L1	L	D	Fig	手柄接口 Connection	Kg	适配刀座 Cartridge	在库 Stock
NLR D150-210.E63	150-210	89	105	63	A	E63	5.0	L..A D150..	●
NLR D150-210.E80	150-210	89	109	80	A	E80	5.4	L..A D150..	●
NLR D150-210.K63	150-210	89	99	63	B	K63	5.1	L..A D150..	●
NLR D150-210.K90	150-210	89	99	88	B	K90	5.4	L..A D150..	●

- 适配刀座单独订购，请参照：☞ A20-A24 页，A41-A44 页。
- 适配刀柄单独订购，请参照：☞ A20-A24 页，A41-A44 页。
- 加工不同材料刀具的切削参数，请参照：☞ A113-A116 页。
- 刀座刻线标注依据：CC06/CC09/TC11/TC16/SO06 圆角为 R0.4 时的值；SO09 圆角为 R0.6 时的值；CC12/SC09/SC12/SO12 圆角为 R0.8 时的值；SO16 圆角为 R1.2 时的值；
- 订货示例：1 件 NLR D150-210.E63。
- The cartridge should be ordered separately, please see page A20-A24, A41-A44.
- The adaptor should be ordered separately, please see page A20-A24, A41-A44.
- Recommended cutting data please see page A113-A116.
- Scale mark basis.
The scale value for CC06/CC09/TC11/SO06 with R0.4. The scale value for SO09 with R0.6.
The scale value for CC12/SC09/SC12/SO12 with R0.8. The scale value for SO16 with R1.2.
- Ordering sample: 1 PC NLR D150-210.E63.



备件

Spare Parts

Dc	①刀桥 Bridge	②滑块 Cartridge holder	③滑块锁紧螺钉 Clamping screw for cartridge holder	④刀座锁紧螺钉 Clamping screw for cartridge	锁紧扳手 Allen key for clamping screw
150-210	SNL 150-210.E63	BLR 150 2 件	SR55 M8x35 8 件	SR55 M8x30 4 件	KEY01 M6
	SNL 150-210.E80	BLR 150 2 件	SR55 M8x35 8 件	SR55 M8x30 4 件	KEY01 M6
	SNL 150-210.K63	BLR 150 2 件	SR55 M8x35 8 件	SR55 M8x30 4 件	KEY01 M6
	SNL 150-210.K90	BLR 150 2 件	SR55 M8x35 8 件	SR55 M8x30 4 件	KEY01 M6

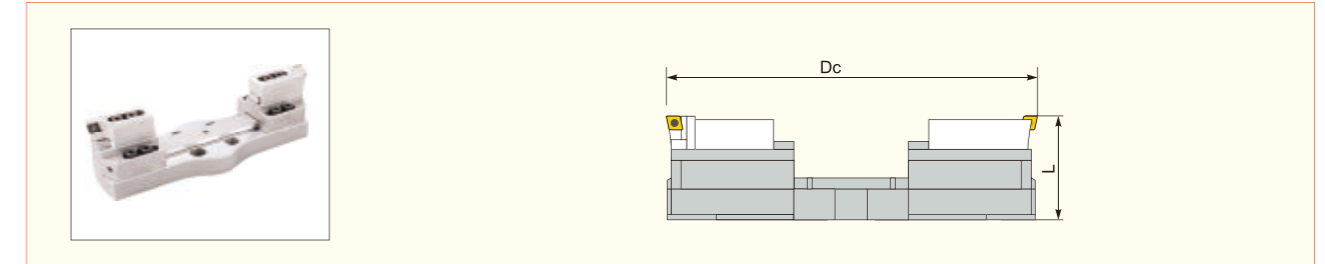
BORING TOOL WITH BRIDGE 桥式镗刀

NLR 双刃桥式粗镗刀

NLR Two-flute Rough Boring Tool With Bridge

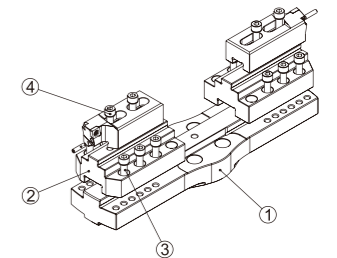
适用于大孔加工的双刃桥式粗镗刀，全磨制导向槽，标准型加工范围 $\Phi 210-\Phi 850$ ，适配大矩形槽双刃桥式粗镗刀座。

It is suitable for the finish machining for the large diameter, complete ground guide slot, the boring range is $\Phi 210-\Phi 850$. There is special cartridge for it.



规格型号 Designation	Dc	L	手柄接口 Connection	Kg	适配刀头 Cartridge	在库 Stock
NLR D210-290	210-290	89	SNL 32	4.83	L..A D150..	●
NLR D290-370	290-370	89	SNL 32	6.13	L..A D150..	●
NLR D370-490	370-490	100	SNL 32	12.64	L..A D370..	●
NLR D490-610	490-610	115	SNL 32	17.22	L..A D370..	●
NLR D610-730	610-730	120	SEL 40	22.6	L..A D370..	●
NLR D730-850	730-850	125	SEL 40	26.83	L..A D370..	●

- 适配刀座单独订购，请参照：☞ A52 页。
- 适配刀柄单独订购，请参照：☞ A53-A54 页。
- 加工不同材料刀具的切削参数，请参照：☞ A113-A116 页。
- 刀座刻线标注依据：CC06/CC09/TC11/TC16/SO06 圆角为 R0.4 时的值；SO09 圆角为 R0.6 时的值；CC12/SC09/SC12/SO12 圆角为 R0.8 时的值；SO16 圆角为 R1.2 时的值；
- 订货示例：1 件 NLR D210-290。
- The cartridge should be ordered separately, please see page A52.
- The adaptor should be ordered separately, please see page A53-A54.
- The different cutting parameters of cutting tools for machining different materials, please see page A113-A116.
- Scale mark basis.
The scale value for CC06/CC09/TC11/SO06 with R0.4. The scale value for SO09 with R0.6.
The scale value for CC12/SC09/SC12/SO12 with R0.8. The scale value for SO16 with R1.2.
- Ordering sample: 1 PC NLR D210-290.



备件

Spare Parts

Dc	①刀桥 Bridge	②滑块 Cartridge holder	③滑块锁紧螺钉 Clamping screw for cartridge holder	④刀座锁紧螺钉 Clamping screw for cartridge	锁紧扳手 Allen key for clamping screw
210-290	SNL 210-290	BLR 150 2 件	SR55 M8x35 8 件	SR55 M8x30 4 件	KEY01 M6
290-370	SNL 290-370	BLR 150 2 件	SR55 M8x35 8 件	SR55 M8x30 4 件	KEY01 M6
370-490	SNL 370-490	NLR 370 2 件	SR55 M8x35 12 件	SR55 M8x25 4 件	KEY01 M6
490-610	SNL 490-610	NLR 370 2 件	SR55 M8x35 12 件	SR55 M8x25 4 件	KEY01 M6
610-730	SNL 610-730	NLR 370 2 件	SR55 M8x35 12 件	SR55 M8x25 4 件	KEY01 M6
730-850	SNL 730-850	NLR 370 2 件	SR55 M8x35 12 件	SR55 M8x25 4 件	KEY01 M6

● 标准库存
Item in stock

● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

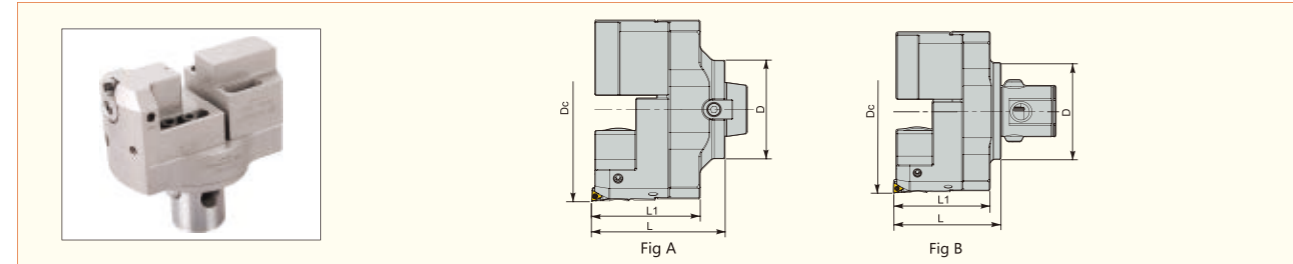
○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING TOOL WITH BRIDGE 桥式镗刀

NLF 单刃桥式微调精镗刀

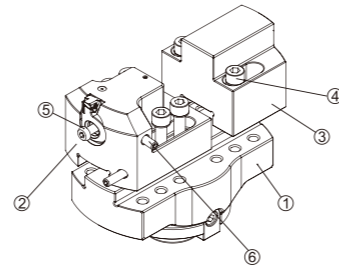
NLF Precision Boring Tool with Bridge

适用于大孔加工的单刃桥式微调精镗刀，调整精度高，每格直径 0.01mm，标准型加工范围 $\phi 150-\phi 210$ 。
It is suitable for the finish machining for large diameter, with high accuracy 0.01mm/dial. The diameter range is $\phi 150-\phi 210$.



规格型号 Designation	Dc	L1	L	D	Fig	手柄接口 Connection	Kg	适配刀头 Cartridge	在库 Stock
NLF D150-210.E63	150-210	87	103	63	A	E63	5.3	FRB 25A..	●
NLF D150-210.E80	150-210	87	107	80	A	E80	5.8	FRB 25A..	●
NLF D150-210.K63	150-210	87	97	63	B	K63	5.5	FRB 25A..	●
NLF D150-210.K90	150-210	87	97	88	B	K90	5.8	FRB 25A..	●

- 适配刀座单独订购，请参照：A13-A14 页。
- 适配刀柄单独订购，请参照：A20-A24 页，A41-A44 页。
- 加工范围 Dc 是指 FRB 10.. 刀座刀片圆角为 R0.2 时的值，FRB 12/16/20/25/30 刀座刀片圆角为 R0.4 的值。
- 加工不同材料刀具的切削参数，请参照：A117 页。
- 订货示例：1 件 NLF D150-210.E63。
- The cartridge should be ordered separately, please see page A13-A14.
- The adaptor should be ordered separately, please see page A20-A24, A41-A44.
- The diameter range Dc is the value that the radius of insert of FRB 1 O cartridge is R0.2, and the radius of insert of FRB 12/16/20/25/30 cartridge is R0.4.
- The different cutting parameters of cutting tools for machining different materials, please see page A117.
- Ordering sample: 1 PC NLF D150-210.E63



备件

Spare Parts

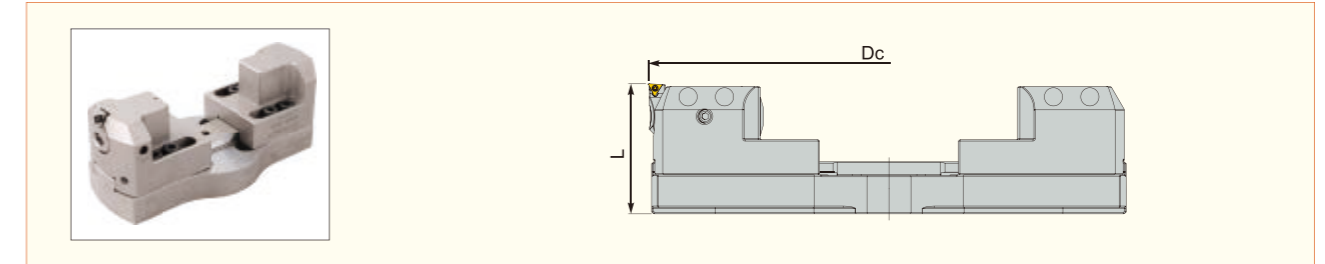
Dc	①刀桥 Bridge	②微调模块 Cartridge holder	③配重模块 Balance block	④滑块锁紧螺钉 Clamping screw for cartridge holder	⑤刀头锁紧螺钉 Clamping screw for cartridge	⑥ LOCK 螺钉 Lock screw
150-210	SNL 150-210.E63	NLF 150 1 件	BHB 150 1 件	SR55 M8x35 6 件	SR56 M6x16 1 件	SR54 M6x12 1 件
	SNL 150-210.E80	NLF 150 1 件	BHB 150 1 件	SR55 M8x35 6 件	SR56 M6x16 1 件	SR54 M6x12 1 件
	SNL 150-210.K63	NLF 150 1 件	BHB 150 1 件	SR55 M8x35 6 件	SR56 M6x16 1 件	SR54 M6x12 1 件
	SNL 150-210.K90	NLF 150 1 件	BHB 150 1 件	SR55 M8x35 6 件	SR56 M6x16 1 件	SR54 M6x12 1 件

BORING TOOL WITH BRIDGE 桥式镗刀

NLF 单刃桥式微调精镗刀

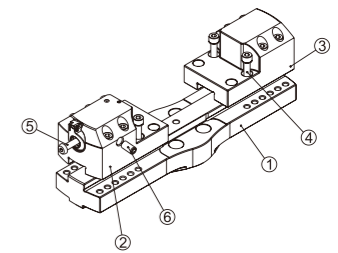
NLF Precision Boring Tool with Bridge

适用于大孔加工的单刃桥式微调精镗刀，调整精度高，每格直径 0.01mm，标准型加工范围 $\phi 210-\phi 850$ 。
It is suitable for the finish machining for large diameter, with high accuracy 0.01mm/dial. The diameter range is $\phi 210-\phi 850$.



规格型号 Designation	Dc	L	手柄接口 Connection	Kg	适配刀头 Cartridge	在库 Stock
NLF D210-290	210-290	89	SNL 32	6.0	FRB 25A..	●
NLF D290-370	290-370	89	SNL 32	7.3	FRB 25A..	●
NLF D370-490	370-490	100	SNL 32	12.64	FRB 30A..	●
NLF D490-610	490-610	115	SNL 32	17.22	FRB 30A..	●
NLF D610-730	610-730	120	SEL 40	22.6	FRB 30A..	●
NLF D730-850	730-850	125	SEL 40	26.83	FRB 30A..	●

- 适配刀座单独订购，请参照：A13-A14 页。
- 适配刀柄单独订购，请参照：A53-A54 页。
- 加工范围 Dc 是指 FRB 10.. 刀座刀片圆角为 R0.2 时的值，FRB 12/16/20/25/30 刀座刀片圆角为 R0.4 的值。
- 加工不同材料刀具的切削参数，请参照：A117 页。
- 订货示例：1 件 NLF D210-290。
- The cartridge should be ordered separately, please see page A13-A14.
- The adaptor should be ordered separately, please see page A53-A54.
- The diameter range Dc is the value that the radius of insert of FRB 1 O cartridge is R0.2, and the radius of insert of FRB 12/16/20/25/30 cartridge is R0.4.
- Recommended cutting data please see page A117.
- Ordering sample: 1 PC NLF D210-290



备件

Spare Parts

Dc	①刀桥 Bridge	②微调模块 Cartridge holder	③配重模块 Balance block	④模块锁紧螺钉 Clamping screw for cartridge holder	⑤刀头锁紧螺钉 Clamping screw for cartridge	⑥ LOCK 螺钉 Locking screw
210-290	SNL 210-290	NLF 150 1 件	BHB 210 1 件	SR55 M8x35 8 件	SR56 M6x16 1 件	SR54 M6x12 1 件
290-370	SNL 290-370	NLF 150 1 件	BHB 210 1 件	SR55 M8x35 8 件	SR56 M6x16 1 件	SR54 M6x12 1 件
370-490	SNL 370-490	NLF 370 1 件	BHB 370 1 件	SR55 M8x35 12 件	SR56 M8x25 1 件	SR54 M10x20 1 件
490-610	SNL 490-610	NLF 370 1 件	BHB 370 1 件	SR55 M8x35 12 件	SR56 M8x25 1 件	SR54 M10x20 1 件
610-730	SNL 610-730	NLF 370 1 件	BHB 370 1 件	SR55 M8x35 12 件	SR56 M8x25 1 件	SR54 M10x20 1 件
730-850	SNL 730-850	NLF 370 1 件	BHB 370 1 件	SR55 M8x35 12 件	SR56 M8x25 1 件	SR54 M10x20 1 件

- 若有刀具质量超重的问题，可选用铝合金刀桥（刀桥重量减轻 60%）订货时请注明 AL；
如：钢制桥式镗刀：NLF 730-850 单独订购钢制刀桥：SNL 730-850
铝合金桥式镗刀：NLF 730-850AL 单独订购铝合金刀桥：SNL730-850AL
- Please choose the connection made from aluminum which will be 60% lighter than the ordinary material. if considering the weight. and please indicate AL when ordering.
For example:
Connection made from steel: NLF 730-850 Ordering the steel connection separately: SNL 730-850
Connection made from aluminum: NLF 730-850AL Ordering the aluminum connection separately: SNL 730-850AL

备件 Spare Parts	螺钉扳手 Allen key for clamping screw
SR55 M8x35	KEY01 M6
SR54 M6x12	KEY01 M3
SR54 M10x20	KEY01 M5
SR56 M6x16	KEY01 M4
SR56 M8x25	KEY01 M5

● 标准库存
Item in stock

● 半标准库存（订货时，请确认交货期）
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存（订货时，请确认交货期）
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

● 半标准库存（订货时，请确认交货期）
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存（订货时，请确认交货期）
Order on demand
(please confirm delivery time when ordering it)

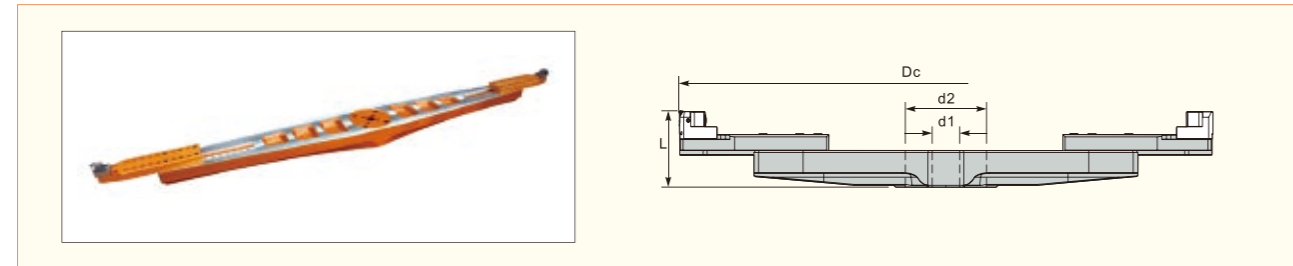
BORING TOOL WITH BRIDGE 桥式镗刀

大型铝合金桥式粗 / 精镗刀

Boring Tool (Rough/Finish) with Aluminum Bridge

镗孔范围 $\Phi 850$ 以上的桥式粗 / 精镗刀可根据客户的机床及加工尺寸等定制, 高强度铝合金基体, 重量轻, 刚性足, 调整范围大; 刀座及刀片可方便更换, 调整精度高, 精镗微量每格直径 0.01mm。

We could do the customer designed boring tool if the boring range is diameter than $\Phi 850\text{mm}$ which depends on the size of machined work piece and machines. The body is made from high strength aluminum which is with the features of lighter weight, higher rigidity, wider adjusting range. It is so convenient to replace the cartridges and inserts, with high precision, and the dial each of which is 0.01 mm on diameter.



大型铝合金桥式精镗刀

Precision Boring Tool with Aluminum Bridge

组合规格 Assembled specification	Dc	刀桥 Bridge	延伸块 Extension slide	微调模块 Cartridge holder	配重模块 Balance block	适配刀头 Cartridge	L	d1	kg	在库 Stock
BLF D850-1250AL	850-1250	SEL 850AL	BL400AL	NLF 150	BHB 210	FRB 25A...	167	60	31	○
BLF D1200-1600AL	1200-1600	SEL 1200AL	BL400AL	NLF 150	BHB 210	FRB 25A...	177	60	42	○
BLF D1450-1850AL	1450-1850	SEL 1450AL	BL400AL	NLF 150	BHB 210	FRB 25A...	187	60	62	○
BLF D1450-2090AL	1450-2090	SEL 1450AL	BL640AL	NLF 150	BHB 210	FRB 25A...	197	60	72	○
BLF D2050-2690AL	2050-2690	SEL 2050AL	BL640AL	NLF 150	BHB 210	FRB 25A...	207	60	112	○
BLF D2660-3300AL	2660-3300	SEL 2660AL	BL640AL	NLF 150	BHB 210	FRB 25A...	217	60	172	○

- 适配刀头需单独订购, 请参照: A13 页。
- The suitable cartridge should be ordered separately, please see page A13.

大型铝合金桥式粗镗刀

Rough Boring Tool with Aluminum Bridge

组合规格 Assembled specification	Dc	刀桥 Bridge	延伸块 Extension slide	调整块 Cartridge holder	适配刀头 Cartridge	L	d1	kg	在库 Stock
BLR D850-1250AL	850-1250	SEL 850AL	BL400AL	BLR 150	L..A D150..	169	60	30	○
BLR D1200-1600AL	1200-1600	SEL 1200AL	BL400AL	BLR 150	L..A D150..	179	60	41	○
BLR D1450-1850AL	1450-1850	SEL 1450AL	BL400AL	BLR 150	L..A D150..	189	60	61	○
BLR D1450-2090AL	1450-2090	SEL 1450AL	BL640AL	BLR 150	L..A D150..	199	60	71	○
BLR D2050-2690AL	2050-2690	SEL 2050AL	BL640AL	BLR 150	L..A D150..	209	60	111	○
BLR D2660-3300AL	2660-3300	SEL 2660AL	BL640AL	BLR 150	L..A D150..	219	60	171	○

- 也可选配粗精组合配件, 粗精加工一次完成! 详情咨询销售工程师。
- If choosing both of rough and finish combined parts, it can do finish and rough machining just at one time, for any details please contact our sales engineers.

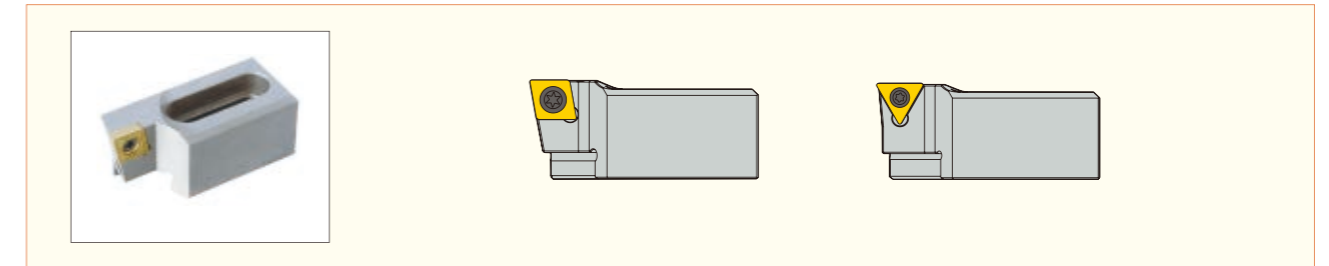
BORING TOOL WITH BRIDGE 桥式镗刀

NLR 双刃桥式粗镗刀刀座

Cartridge for Rough Boring Tool with Bridge

全磨制大矩形槽导向, 适用于桥式粗镗刀。

It is with the guide slot which is complete ground, and suitable for all of the large diameter rough and fine boring tools.



规格型号 Designation	适用刀片 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw	刀座调整螺钉 Adjusting screw for cartridge	刀座调整扳手 Allen key for adjusting screw	Kg	在库 Stock
L90A D150.CC12	CC..1204..	SR21 M5x12.8	KEY02 T20	SR50 M5x20	KEY01 M2.5	0.31	●
L90A D150.TC16	TC..16T3..	SR21 M4x9.5	KEY02 T15	SR50 M5x20	KEY01 M2.5	0.31	●
L90A D150.TC22	TC..2204..	SR21 M5x12.8	KEY02 T20	SR50 M5x20	KEY01 M2.5	0.34	●
L84A D150.SO16	SO..1605..	SR20 M5x13.8	KEY02 T15	SR50 M5x20	KEY01 M2.5	0.34	●
L45A D150.SC12	SC..1204..	SR21 M5x12.8	KEY02 T20	SR50 M5x20	KEY01 M2.5	0.34	●
L90A D370.CC12	CC..1204..	SR21 M5x12.8	KEY02 T20	SR50 M5x20	KEY01 M2.5	0.74	●
L90A D370.TC16	TC..16T3..	SR21 M4x9.5	KEY02 T15	SR50 M5x20	KEY01 M2.5	0.74	●
L90A D370.TC22	TC..2204..	SR21 M5x12.8	KEY02 T20	SR50 M5x20	KEY01 M2.5	0.79	●
L84A D370.SO16	SO..1605..	SR20 M5x13.8	KEY02 T15	SR50 M5x20	KEY01 M2.5	0.79	●
L45A D370.SC12	SC..1204..	SR21 M5x12.8	KEY02 T20	SR50 M5x20	KEY01 M2.5	0.79	●

- 刀片请根据不同材料单独订购, 请参照: A91 页, A93 页, A96 页, A97 页。
- 订货示例: 1 件 L90A D150.CC12。
- Insert should be ordered separately, please see page A91, A93, A96, A97.
- Ordering sample: 1 PC L90A D150.CC12A.

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

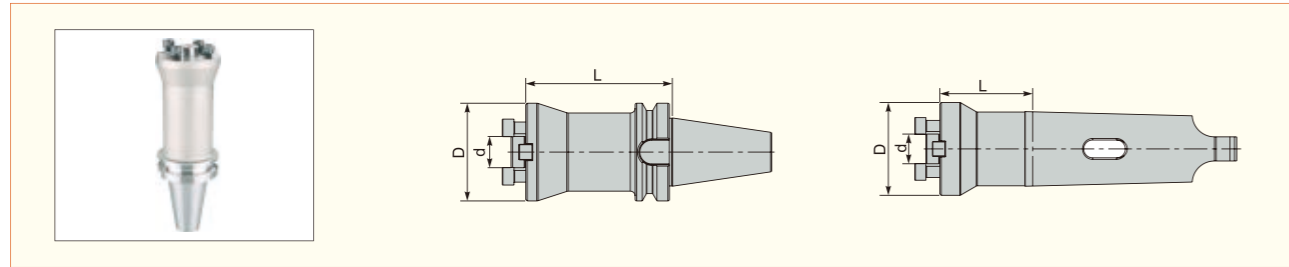
● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING TOOL WITH BRIDGE 桥式镗刀

桥式镗刀刀柄

Adaptor for Boring Tool with Bridge

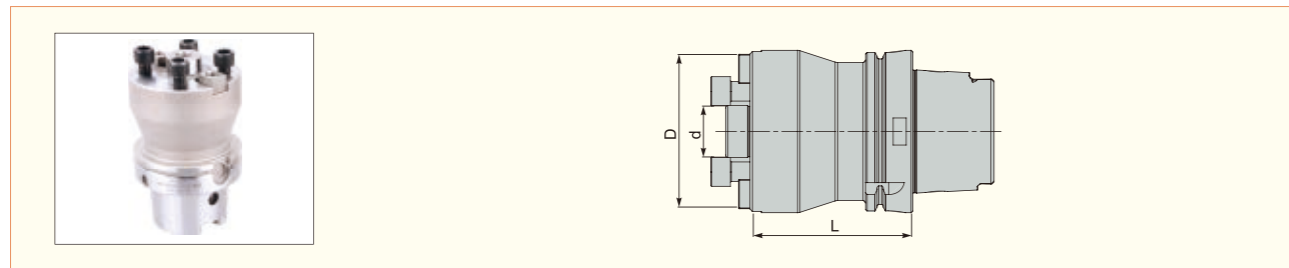


规格型号 Designation	柄部标准 ISO	L	d	D	锁刀螺钉 Clamping screw	平键 Flat key	Kg	在库 Stock
BT40 SNL32x60	BT40	60	32	100	SR55 M12x35	PL10 16x14	2.52	●
BT50 SNL32x100	BT50	100	32	100	SR55 M12x35	PL10 16x14	6.65	●
BT50 SNL32x150	BT50	150	32	100	SR55 M12x35	PL10 16x14	8.74	●
BT50 SNL32x200	BT50	200	32	100	SR55 M12x35	PL10 16x14	10.44	●
BT50 SNL32x250	BT50	250	32	100	SR55 M12x35	PL10 16x14	12.32	●
BT50 SNL32x300	BT50	300	32	100	SR55 M12x35	PL10 16x14	14.21	●
BT50 SNL32x350	BT50	350	32	100	SR55 M12x35	PL10 16x14	16.1	●
BT50 SEL40x100	BT50	100	40	136	SR55 M16x50	PL10 25x18	9.8	●
BT50 SEL40x250	BT50	250	40	136	SR55 M16x50	PL10 25x18	17.0	●
DIN69871 50 SNL32x100	DIN69871 50	100	32	100	SR55 M12x35	PL10 16x14	6.65	●
DIN69871 50 SNL32x150	DIN69871 50	150	32	100	SR55 M12x35	PL10 16x14	8.74	●
DIN69871 50 SNL32x200	DIN69871 50	200	32	100	SR55 M12x35	PL10 16x14	10.44	●
DIN69871 50 SNL32x250	DIN69871 50	250	32	100	SR55 M12x35	PL10 16x14	12.32	●
DIN69871 50 SNL32x300	DIN69871 50	300	32	100	SR55 M12x35	PL10 16x14	14.21	●
DIN69871 50 SNL32x350	DIN69871 50	350	32	100	SR55 M12x35	PL10 16x14	15.1	●
MT80A SNL32x100	米制 80 Metric 80	100	32	100	SR55 M12x35	PL10 16x14	10.95	●
DIN69871 50 SEL40x100	DIN69871 50	100	40	136	SR55 M16x50	PL10 25x18	9.4	●
DIN69871 50 SEL40x250	DIN69871 50	250	40	136	SR55 M16x50	PL10 25x18	17.0	●

- 刀柄尺寸: 见 D59 页, D60 页。
- 刀柄若需数据芯片孔, 请在型号后加 "X"。
- 订货示例: 1 件 BT40 SNL32x60。
- Size of tool holder: please see page D59, D60.
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: 1 PC BT 40 SNL32x60.

桥式镗刀刀柄

Adaptor for Boring Tool with Bridge



规格型号 Designation	柄部标准 ISO	L	d	D	锁刀螺钉 Clamping screw	平键 Flat key	Kg	在库 Stock
HSK A100 SNL32x100	HSK A100	100	32	100	SR55 M12x35	PL10 16x14	5.87	●
HSK A100 SNL32x150	HSK A100	150	32	100	SR55 M12x35	PL10 16x14	7.81	●
HSK A100 SNL32x200	HSK A100	200	32	100	SR55 M12x35	PL10 16x14	9.95	●
HSK A100 SEL40x100	HSK A100	100	40	136	SR55 M16x50	PL10 25x18	8.80	●
HSK A100 SEL40x250	HSK A100	250	40	136	SR55 M16x50	PL10 25x18	15.7	●

- 刀柄尺寸: 见 D62 页。
- 订货示例: 1 件 BT40 SNL32x600。
- Size of tool holder: please see page D62.
- Ordering sample: 1 PC BT 40 SNL32x60.

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

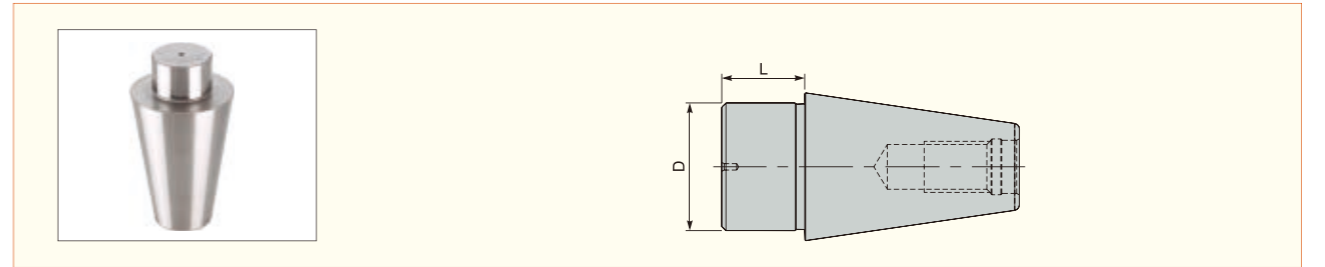
BORING TOOL WITH BRIDGE 桥式镗刀

定位芯轴

Location Spindle

D610 以上桥式镗刀可与机床主轴连接, 连接时必须用此定位芯轴定心。

The boring tool could be connected directly to the spindle of the machine without any tool holders, if the hole diameter is larger than $\Phi 610\text{mm}$, but positioning spindle must be used.

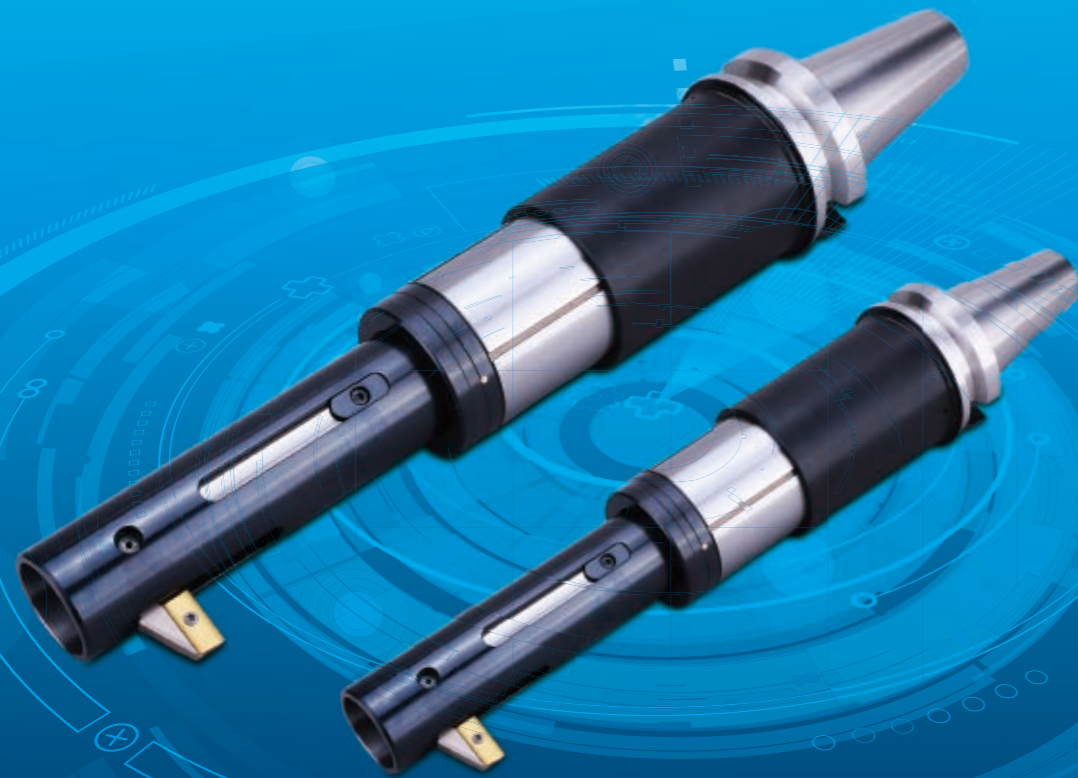


规格型号 Designation	ISO	D	L	Kg	在库 Stock
ISO50 SEM40	50	40	26	1.94	○
ISO50 SEM60	50	60	39	2.53	○
ISO60 SEM40	60	40	27	6.87	○
ISO60 SEM60	60	60	43	7.54	○

- 订货示例: 1 件 ISO50 SEM40。
- Ordering sample: 1 PC ISO50 SEM40.

AUTOMATIC TELESCOPIC BACK BORING TOOL

自动伸缩式反刮刀



AUTOMATIC TELESCOPIC BACK BORING TOOL 自动伸缩式反刮刀

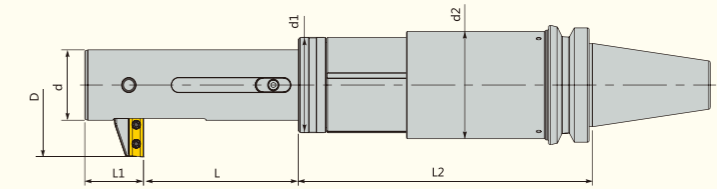
自动伸缩式反刮刀

Automatic Telescopic Back Boring Tool

适用于要求反刮面直径大，但过孔直径小，反刮面直径不大于过孔直径的2倍时均可使用；全自动的进出机构，无需定位装置；可根据客户需求订制。

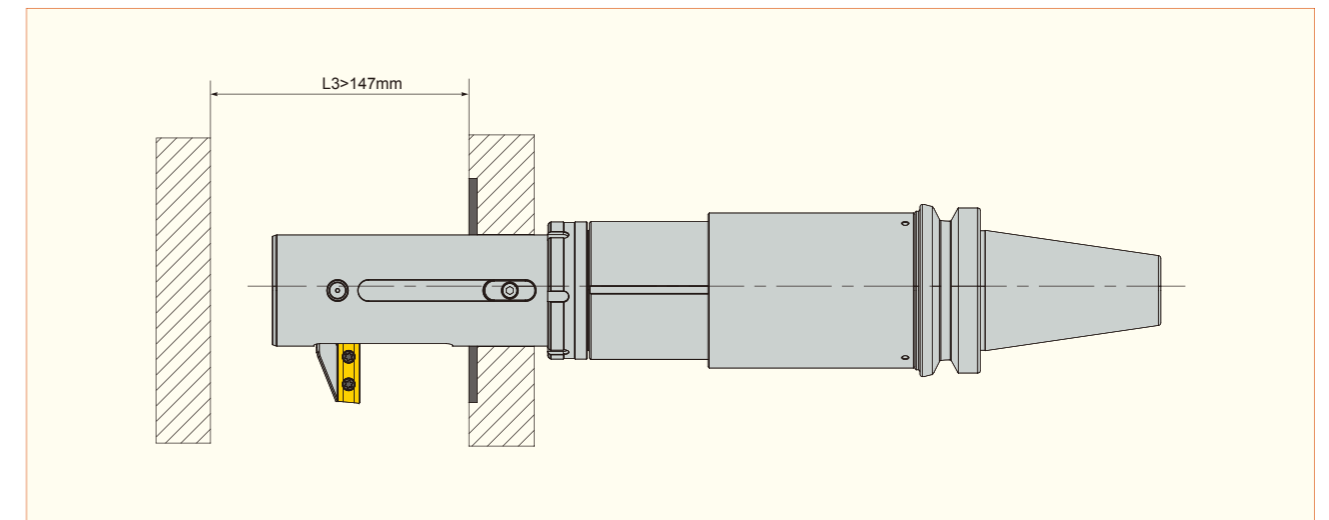
It is suitable for the requirements of large diameter of back boring place but smaller diameter of through hole, which dia. of back boring place is no larger than 2 times dia. of through hole.

There is no need to do the position due to the automatic turnover structure of the tool body.



规格型号 Designation	D	d	d1	d2	L	L1	L2	Kg	适配刀头 Cartridge	在庫 Stock
BT50 ABR D070-d035x330	70	34.5	80	90	75	60	255	10.6	ABR D071-D034.AC21	○
BT50 ABR D080-d040x330	80	39.5	80	90	75	55	255	11.1	ABR D081-D039.AC27	○
BT50 ABR D090-d045x330	90	44.5	80	90	75	55	255	11.6	ABR D091-D044.AC27	○
BT50 ABR D100-d050x330	100	49.5	80	90	75	51	255	12.0	ABR D101-D049.AC27	○
BT50 ABR D110-d055x330	110	54.5	80	90	75	51	255	12.7	ABR D111-D054.AC32	○
BT50 ABR D120-d060x330	120	59.5	80	90	75	51	255	13.4	ABR D121-D064.AC37	○
BT50 ABR D130-d065x330	130	64.5	80	90	75	51	255	14.2	ABR D131-D064.AC37	○
BT50 ABR D140-d070x330	140	69.5	80	90	75	51	255	15.3	ABR D141-D069.AC37	○
DIN69871 50 ABR D070-d035x350	70	34.5	80	90	75	60	275	10.4	ABR D071-D034.AC21	○
DIN69871 50 ABR D080-d040x350	80	39.5	80	90	75	55	275	10.9	ABR D081-D039.AC27	○
DIN69871 50 ABR D090-d045x350	90	44.5	80	90	75	55	275	11.4	ABR D091-D044.AC27	○
DIN69871 50 ABR D100-d050x350	100	49.5	80	90	75	51	275	11.8	ABR D101-D049.AC27	○
DIN69871 50 ABR D110-d055x350	110	54.5	80	90	75	51	275	12.5	ABR D111-D054.AC32	○
DIN69871 50 ABR D120-d060x350	120	59.5	80	90	75	51	275	13.2	ABR D121-D059.AC37	○
DIN69871 50 ABR D130-d065x350	130	64.5	80	90	75	51	275	14.1	ABR D131-D064.AC37	○
DIN69871 50 ABR D140-d070x350	140	69.5	80	90	75	51	275	15.1	ABR D141-D069.AC37	○

- 订货示例：1 件 BT50 ABR D070-d035x330。
- 根据反刮直径不同可更换不同的刀头，请参照：☐ A57 页。
- 刀头需单独订购，请参照：☐ A57 页。
- Ordering sample: 1 PC BT50 ABR D070-d035x330.
- Select suitable cartridges as customer's requirements, please see page A57.
- The cartridge should be ordered separately, please see page A57.



- 开档部分 L3 需大于 147mm
- L3 should be over 147mm.

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

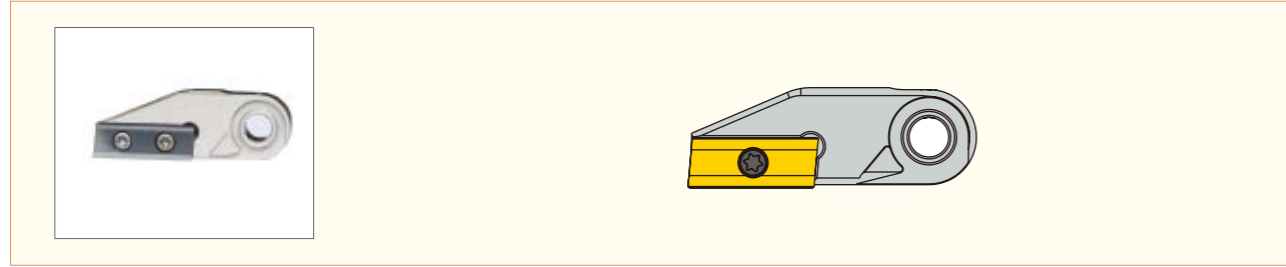
○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

AUTOMATIC TELESCOPIC BACK BORING TOOL 自动伸缩式反刮刀

反刮刀刀头

Cartridge

孔加工工具
HOLE MAKING TOOLS

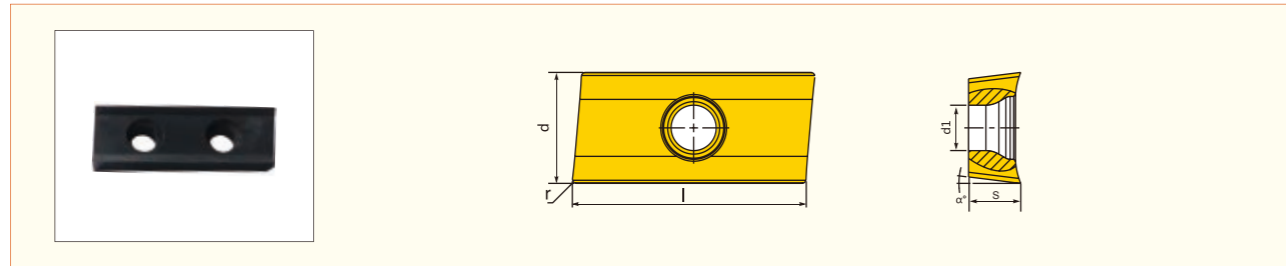


规格型号 Designation	适配刀片 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for Clamping screw	刀座锁紧螺钉 Clamping screw for cartridge	锁紧螺钉扳手 Allen key for Clamping screw	在库 Stock
ABR D071-D034.AC21	ACMX 2104-DL	SR20 M5x11	KEY02 T20	SR54 M4x6	KEY01 M2	○
ABR D081-D039.AC27	ACMX 2706-DL	SR20 M5x11	KEY02 T20	SR54 M4x6	KEY01 M2	○
ABR D091-D044.AC27	ACMX 2706-DL	SR20 M5x11	KEY02 T20	SR54 M4x6	KEY01 M2	○
ABR D101-D049.AC27	ACMX 2706-DL	SR20 M5x11	KEY02 T20	SR54 M4x6	KEY01 M2	○
ABR D111-D054.AC32	ACMX 3206-DL	SR20 M5x11	KEY02 T20	SR54 M4x6	KEY01 M2	○
ABR D121-D059.AC37	ACMX 3706-DL	SR20 M5x11	KEY02 T20	SR54 M4x6	KEY01 M2	○
ABR D131-D064.AC37	ACMX 3706-DL	SR20 M5x11	KEY02 T20	SR54 M4x6	KEY01 M2	○
ABR D141-D069.AC37	ACMX 3706-DL	SR20 M5x11	KEY02 T20	SR54 M4x6	KEY01 M2	○

- ACMX 3706-DL 刀片为两个锁紧螺钉。
- 订货示例：1 件 ABR D071-D034.AC21。
- Two clamping screws need for ACMX3706-DL insert.
- Ordering sample: 1 PC ABR D071-D034AC21.

反刮刀刀片

Insert



规格型号 Designation	l	d	d1	r	S	α	材质 Grade
							SH1005
ACMX 2104-DL	21	12.7	5.2	0.5	4.76	7	○
ACMX 2706-DL	27	12.7	5.2	0.5	6	7	○
ACMX 3206-DL	32	12.7	5.2	0.5	6	7	○
ACMX 3706-DL	37	12.7	5.2	0.5	6	7	○

- ACMX 3706-DL 刀片为两个锁紧孔。
- 刀片材质为粉末 HSS+ 涂层。
- Two clamping screws need for ACMX 3706-DL insert.
- Grade is powder HSS with coating ..

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

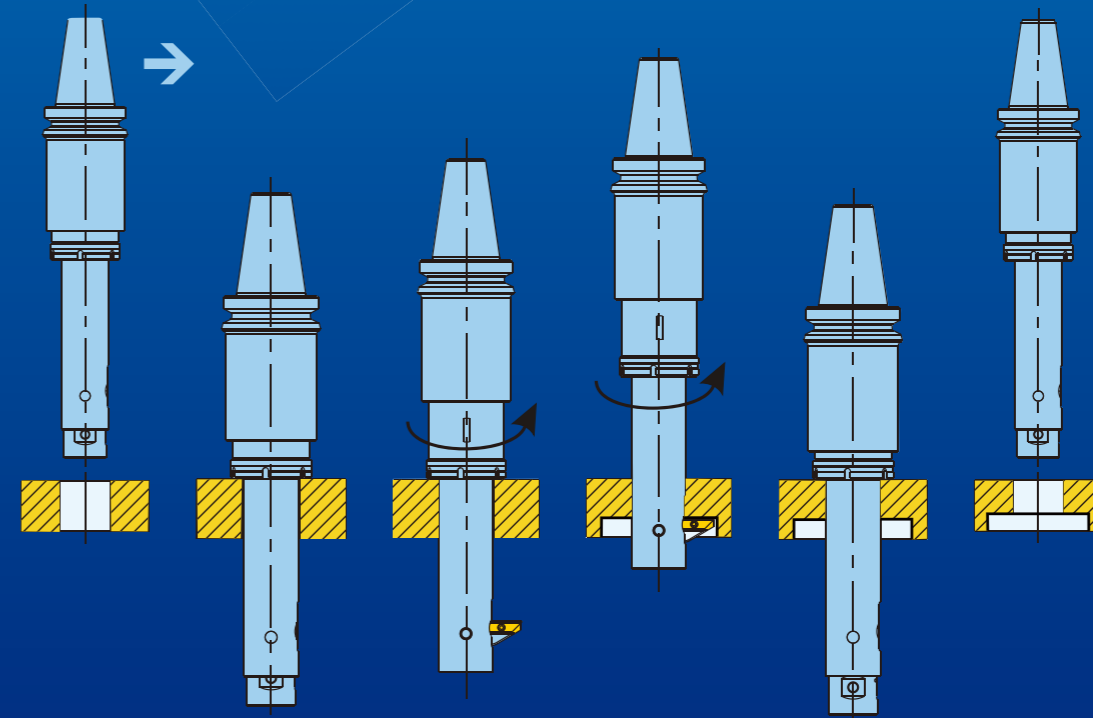
○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)



特点 Features

- 适用于要求反刮面直径大, 但过孔直径小的位置;
- 反刮面直径不大于过孔直径的 2 倍时均可使用此刀具;
- 全自动的进出机构, 不需要定位装置;
- 反刮效率高;
- 安全系数高;
- 一把刀具可对应不同规格的反刮面;
- 刀具根据客户需求非标订做。
- It is suitable for the requirements of large diameter of back boring place but smaller diameter of the through hole.
- Using this tool when the diameter of back boring place is no larger than 2 times diameter of through hole.
- There is no need to do the positioning device due to the automatic turnover structure of the tool body.
- Highre performance.
- Higher coefficient of safety.
- One tool can meet several back boring diameters.
- It can be designed by customers' requirements

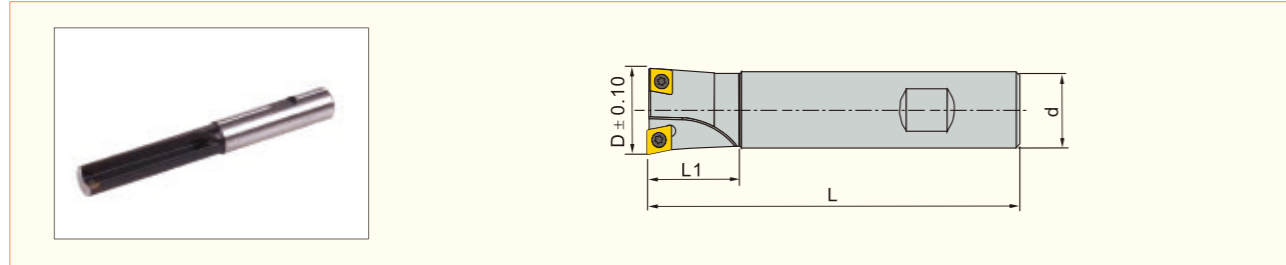
加工示意图 Processing Schematic



FIXED SIZE BORING TOOL 定尺寸镗刀

定尺寸镗刀

Fixed Size Boring Tool



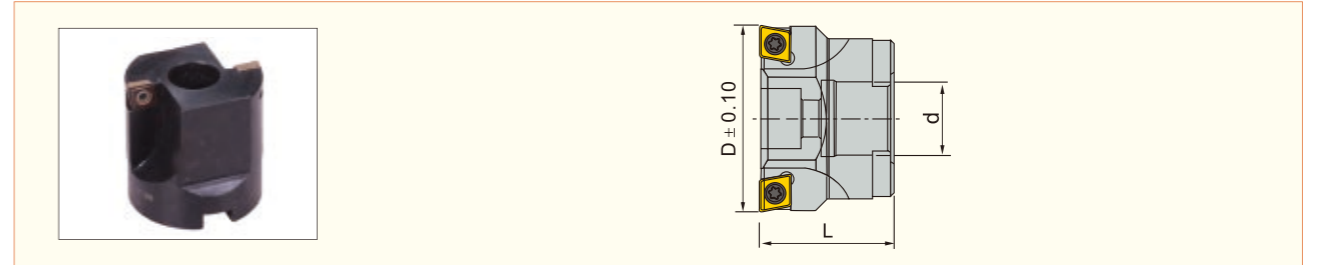
规格型号 Designation	D	d	L	L1	刃数 Z	适用刀片 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw	在庫 Stock
BR D17.7.W16.C6.120	17.7	16	120	30	2	CC..060204	SR21 M2.5x5.3	KEY02 T7	○
BR D18.7.W16.C6.120	18.7	16	120	30	2	CC..060204	SR21 M2.5x5.3	KEY02 T7	○
BR D19.7.W16.C6.120	19.7	16	120	30	2	CC..060204	SR21 M2.5x5.3	KEY02 T7	○
BR D21.7.W16.C6.120	21.7	16	120	30	2	CC..060204	SR21 M2.5x5.3	KEY02 T7	○
BR D23.7.W20.C6.130	23.7	20	130	30	2	CC..060204	SR21 M2.5x5.3	KEY02 T7	○
BR D24.7.W20.C6.130	24.7	20	130	30	2	CC..060204	SR21 M2.5x5.3	KEY02 T7	○
BR D25.7.W20.C9.130	25.7	20	130	30	2	CC..09T304	SR21 M4x9.5	KEY02 T15	○
BR D26.7.W20.C9.130	26.7	20	130	30	2	CC..09T304	SR21 M4x9.5	KEY02 T15	○
BR D27.7.W20.C9.130	27.7	20	130	30	2	CC..09T304	SR21 M4x9.5	KEY02 T15	○
BR D29.7.W25.C9.160	29.7	25	160	40	2	CC..09T304	SR21 M4x9.5	KEY02 T15	○
BR D31.7.W25.C9.160	31.7	25	160	40	2	CC..09T304	SR21 M4x9.5	KEY02 T15	○
BR D34.7.W25.C9.160	34.7	25	160	40	2	CC..09T304	SR21 M4x9.5	KEY02 T15	○
BR D39.7.W25.C9.160	39.7	25	160	40	2	CC..09T304	SR21 M4x9.5	KEY02 T15	○
BR D41.7.W32.C12.200	41.7	32	200	45	2	CC..120408	SR21 M5x12.8	KEY02 T20	○
BR D44.7.W32.C12.200	44.7	32	200	45	2	CC..120408	SR21 M5x12.8	KEY02 T20	○
BR D47.7.W32.C12.200	47.7	32	200	45	2	CC..120408	SR21 M5x12.8	KEY02 T20	○
BR D49.7.W32.C12.200	49.7	32	200	45	2	CC..120408	SR21 M5x12.8	KEY02 T20	○

- 刀片请根据不同材料单独订购，请参照：A91 页。
- 加工不同材料刀具的切削参数，请参照：A113-A116 页。
- 订货示例：1 件 BR D17.7.W16.C6.120。
- Suitable insert should be ordered separately, please see page A91.
- Recommended cutting data please see page A113-A116.
- Ordering sample: IPC BR D17.7.W16.C6.120.

FIXED SIZE BORING TOOL 定尺寸镗刀

定尺寸镗刀

Fixed Size Boring Tool



规格型号 Designation	D	d	L	刃数 Z	适用刀片 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw	在庫 Stock
BR D44.7.B22.C9.50	44.7	22	50	2	CC..09T304	SR21 M4x9.5	KEY02 T15	○
BR D49.7.B22.C9.50	49.7	22	50	2	CC..09T304	SR21 M4x9.5	KEY02 T15	○
BR D54.7.B22.C9.50	54.7	22	50	2	CC..09T304	SR21 M4x9.5	KEY02 T15	○
BR D59.7.B22.C12.50	59.7	22	50	2	CC..120408	SR21 M5x12.8	KEY02 T20	○
BR D61.7.B27.C12.50	61.7	27	50	2	CC..120408	SR21 M5x12.8	KEY02 T20	○
BR D64.7.B27.C12.50	64.7	27	50	2	CC..120408	SR21 M5x12.8	KEY02 T20	○
BR D69.7.B27.C12.50	69.7	27	50	2	CC..120408	SR21 M5x12.8	KEY02 T20	○
BR D74.7.B27.C12.50	74.7	27	50	2	CC..120408	SR21 M5x12.8	KEY02 T20	○
BR D79.7.B27.C12.50	79.7	27	50	2	CC..120408	SR21 M5x12.8	KEY02 T20	○
BR D84.7.B27.C12.50	84.7	27	50	2	CC..120408	SR21 M5x12.8	KEY02 T20	○
BR D89.7.B27.C12.50	89.7	27	50	2	CC..120408	SR21 M5x12.8	KEY02 T20	○
BR D94.7.B27.C12.50	94.7	27	50	2	CC..120408	SR21 M5x12.8	KEY02 T20	○
BR D99.7.B27.C12.50	99.7	27	50	2	CC..120408	SR21 M5x12.8	KEY02 T20	○
BR D104.7.B32.C12.50	104.7	32	50	2	CC..120408	SR21 M5x12.8	KEY02 T20	○
BR D109.7.B32.C12.50	109.7	32	50	2	CC..120408	SR21 M5x12.8	KEY02 T20	○
BR D114.7.B32.C12.50	114.7	32	50	2	CC..120408	SR21 M5x12.8	KEY02 T20	○
BR D119.7.B32.C12.50	119.7	32	50	2	CC..120408	SR21 M5x12.8	KEY02 T20	○

- 刀片请根据不同材料单独订购，请参照：A91 页。
- 加工不同材料刀具的切削参数，请参照：A113-A116 页。
- 订货示例：1 件 BR D44.7.B22.C9.50。
- Suitable insert should be ordered separately, please see page A91.
- Recommended cutting data please see page A113-A116.
- Ordering sample: IPC BR D44.7.B22.C9.50

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

CARTRIDGE

小刀座



A

孔加工刀具 HOLE MAKING TOOLS

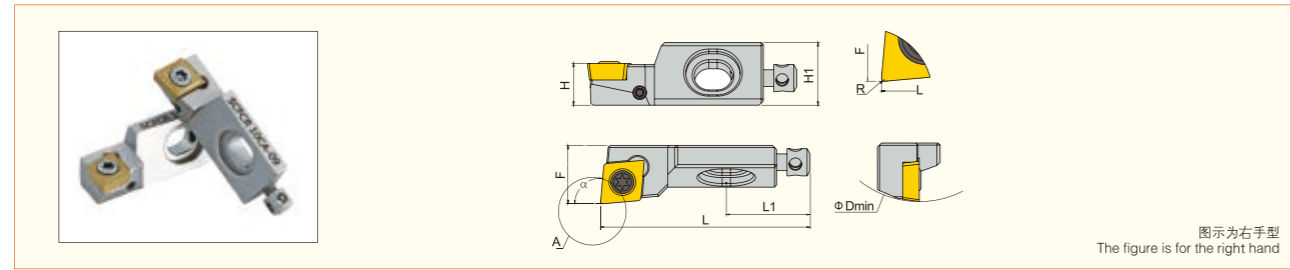
小刀座 Cartridge

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CARTRIDGE 小刀座

ISO 刀座 SCFCRIL...

ISO Cartridge



主偏角 (α) Designation	右手型号 Right hand	左手型号 Left hand	H	F	L	H1	L1	Dmin	R	刀片型号 Insert	在庫 Stock
90°	SCFPR 06CA-05	SCFPL 06CA-05	6	8	25	8.5	12	20	0.4	CP..0502..	●
	SCFCR 08CA-06	SCFCL 08CA-06	8	10	32	10	17	25	0.4	CC..0602..	●
	SCFCR 10CA-09	SCFCL 10CA-09	10	14	50	15	20	40	0.8	CC..09T3..	●
	SCFCR 12CA-12	SCFCL 12CA-12	12	20	55	20	20	50	0.8	CC..1204..	●
	SCFCR 16CA-12	SCFCL 16CA-12	16	25	63	25	25	55	0.8	CC..1204..	●

- 刀片请根据不同材料单独订购, 请参照: A91-A92 页。
- 配件及安装尺寸: 请参照: A67 页。
- Inserts with different materials should be ordered separately, please see page A91-A92.
- Spare parts and assembled size, please see page A67.

ISO 刀座 STFCRIL...

ISO Cartridge

主偏角 (α) Designation	右手型号 Right hand	左手型号 Left hand	H	F	L	H1	L1	Dmin	R	刀片型号 Insert	在庫 Stock
90°	STFCR 08CA-09	STFCL 08CA-09	8	10	32	10	17	25	0.4	TC..0902..	●
	STFCR 10CA-11	STFCL 10CA-11	10	14	50	15	20	40	0.4	TC..1102..	●
	STFCR 12CA-16	STFCL 12CA-16	12	20	55	20	20	50	0.8	TC..16T3..	●
	STFCR 16CA-16	STFCL 16CA-16	16	25	63	25	25	55	0.8	TC..16T3..	●

- 刀片请根据不同材料单独订购, 请参照: A93 页。
- 配件及安装尺寸: 请参照: A67 页。
- Inserts with different materials should be ordered separately, please see page A93.
- Spare parts and assembled size, please see page A67.

备件

Spare Parts

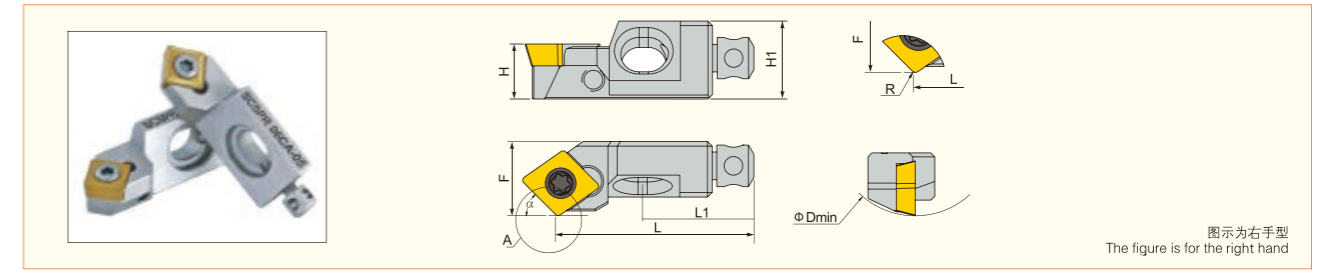
刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
CP..0502..	SR20 M2.2x5.6	KEY02 T7
CC..0602..	SR21 M2.5x5.3	KEY02 T7
CC..09T3..	SR20 M4x9.5	KEY02 T15
CC..1204..	SR20 M5x11	KEY02 T20
TC..0902..	SR20 M2.2x4.6	KEY02 T7
TC..1102..	SR20 M2.5x6	KEY02 T8
TC..16T3..	SR21 M4x9.5	KEY02 T15

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

CARTRIDGE 小刀座

ISO 刀座 SCSCRIL...

ISO Cartridge



主偏角 (α) Designation	右手型号 Right hand	左手型号 Left hand	H	F	L	H1	L1	Dmin	R	刀片型号 Insert	在庫 Stock
45°	SCSPR 06CA-05	SCSPL 06CA-05	6	8	21.4	8.5	12	20	0.4	CP..0502..	●
	SCSCR 08CA-06	SCSCL 08CA-06	8	10	28.0	10.0	17	25	0.4	CC..0602..	●
	SCSCR 10CA-09	SCSCL 10CA-09	10	14	44.0	15.0	20	40	0.8	CC..09T3..	●

- 刀片请根据不同材料单独订购, 请参照: A91-A92 页。
- 配件及安装尺寸: 请参照: A67 页。
- Inserts with different materials should be ordered separately, please see page A91-A92.
- Spare parts and assembled size, please see page A67.

ISO 刀座 SCTCRIL...

ISO Cartridge

主偏角 (α) Designation	右手型号 Right hand	左手型号 Left hand	H	F	L	H1	L1	Dmin	R	刀片型号 Insert	在庫 Stock
30°	SCTPR 06CA-05	SCTPL 06CA-05	6	8	20.4	8.5	12	20	0.4	CP..0502..	○
	SCTCR 08CA-06	SCTCL 08CA-06	8	10	26.7	10	17	25	0.4	CC..0602..	○
	SCTCR 10CA-09	SCTCL 10CA-09	10	14	42.3	15	20	40	0.8	CC..09T3..	○

- 刀片请根据不同材料单独订购, 请参照: A91-A92 页。
- 配件及安装尺寸: 请参照: A67 页。
- Inserts with different materials should be ordered separately, please see page A91-A92.
- Spare parts and assembled size, please see page A67.

备件

Spare Parts

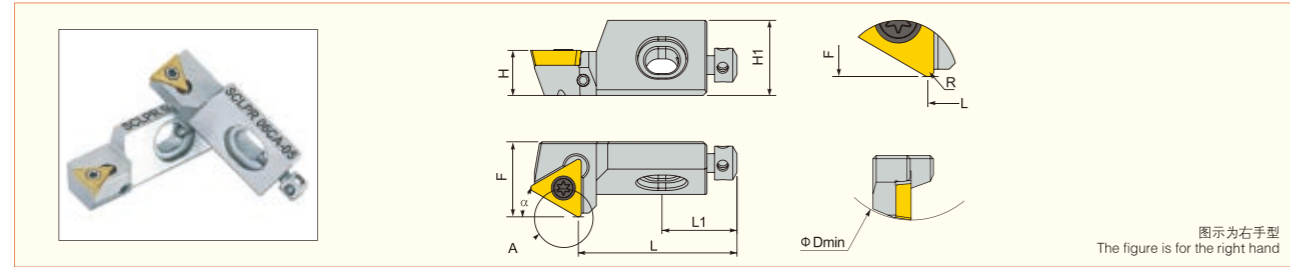
刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
CP..0502..	SR20 M2.2x5.6	KEY02 T7
CC..0602..	SR21 M2.5x5.3	KEY02 T7
CC..09T3..	SR20 M4x9.5	KEY02 T15

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

CARTRIDGE 小刀座

ISO 刀座 SCLCRIL...

ISO Cartridge



主偏角 (α) Designation	右手型号 Right hand	左手型号 Left hand	H	F	L	H1	L1	Dmin	R	刀片型号 Insert	在庫 Stock
95°	SCLPR 06CA-05	SCLPL 06CA-05	6	8	25	8.5	12	20	0.4	CP..0502..	●
	SCLCR 08CA-06	SCLCL 08CA-06	8	10	32	10	17	25	0.4	CC..0602..	●
	SCLCR 10CA-09	SCLCL 10CA-09	10	14	50	15	20	40	0.8	CC..09T3..	●
	SCLCR 12CA-12	SCLCL 12CA-12	12	20	55	20	20	50	0.8	CC..1204..	●
	SCLCR 16CA-12	SCLCL 16CA-12	16	25	63	25	25	55	0.8	CC..1204..	●

- 刀片请根据不同材料单独订购, 请参照: A91-A92 页。
- 配件及安装尺寸: 请参照: A67 页。
- Inserts with different materials should be ordered separately, please see page A91-A92.
- Spare parts and assembled size, please see page A67.

ISO 刀座 STTCRIL...

ISO Cartridge

主偏角 (α) Designation	右手型号 Right hand	左手型号 Left hand	H	F	L	H1	L1	Dmin	R	刀片型号 Insert	在庫 Stock
30°	STTCR 08CA-09	STTCL 08CA-09	8	10	24.4	10	17	25	0.4	TC..0902..	○
	STTCR 10CA-11	STTCL 10CA-11	10	14	41.3	15	20	40	0.4	TC..1102..	○
	STTCR 12CA-16	STTCL 12CA-16	12	20	42.3	20	20	50	0.8	TC..16T3..	○
	STTCR 16CA-16	STTCL 16CA-16	16	25	50.3	25	25	55	0.8	TC..16T3..	○

- 刀片请根据不同材料单独订购, 请参照: A93 页。
- 配件及安装尺寸: 请参照: A67 页。
- Inserts with different materials should be ordered separately, please see page A93.
- Spare parts and assembled size, please see page A67.

ISO 刀座 STWCRIL...

ISO Cartridge

主偏角 (α) Designation	右手型号 Right hand	左手型号 Left hand	H	F	L	H1	L1	Dmin	R	刀片型号 Insert	在庫 Stock
60°	STWCR 08CA-09	STWCL 08CA-09	8	10	28	10	17	25	0.4	TC..0902..	●
	STWCR 10CA-11	STWCL 10CA-11	10	14	44	15	20	40	0.4	TC..1102..	●
	STWCR 12CA-16	STWCL 12CA-16	12	20	47	20	20	50	0.8	TC..16T3..	●
	STWCR 16CA-16	STWCL 16CA-16	16	25	53	25	25	55	0.8	TC..16T3..	●

- 刀片请根据不同材料单独订购, 请参照: A92 页。
- 配件及安装尺寸: 请参照: A67 页。
- Inserts with different materials should be ordered separately, please see page A92.
- Spare parts and assembled size, please see page A67.

备件

Spare Parts

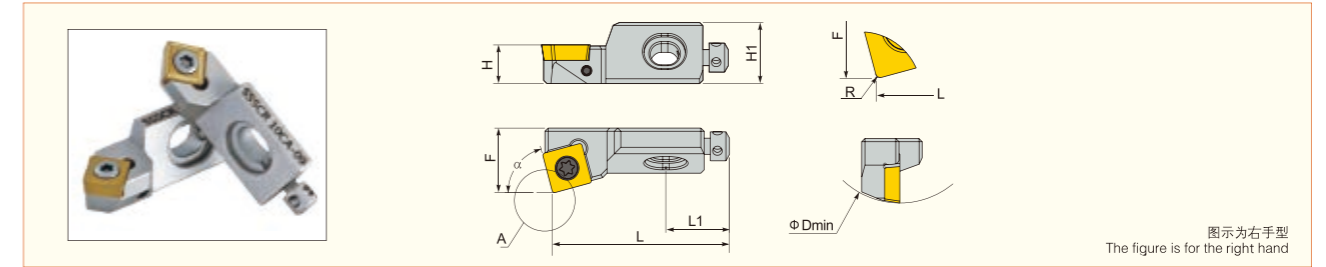
刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
CP..0502..	SR20 M2.2x5.6	KEY02 T7
CC..0602..	SR21 M2.5x5.3	KEY02 T7
CC..09T3..	SR20 M4x9.5	KEY02 T15
CC..1204..	SR20 M5x11	KEY02 T20
TC..0902..	SR20 M2.2x5.6	KEY02 T7
TC..1102..	SR20 M2.5x6	KEY02 T8
TC..16T3..	SR21 M4x9.5	KEY02 T15

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

CARTRIDGE 小刀座

ISO 刀座 SSKCRIL...

ISO Cartridge



主偏角 (α) Designation	右手型号 Right hand	左手型号 Left hand	H	F	L	H1	L1	Dmin	R	刀片型号 Insert	在庫 Stock
75°	SSKCR 10CA-09	SSKCL 10CA-09	10	14	50	15	20	40	0.8	SC..09T3..	○
	SSKCR 12CA-09	SSKCL 12CA-09	12	20	55	20	20	50	0.8	SC..09T3..	○
	SSKCR 12CA-12	SSKCL 12CA-12	12	20	55	20	20	50	0.8	SC..1204..	○
	SSKCR 16CA-12	SSKCL 16CA-12	16	25	63	25	25	55	0.8	SC..1204..	○

- 刀片请根据不同材料单独订购, 请参照: A96 页。
- 配件及安装尺寸: 请参照: A67 页。
- Inserts with different materials should be ordered separately, please see page A96.
- Spare parts and assembled size, please see page A67.

ISO 刀座 SSSCRIL...

ISO Cartridge

主偏角 (α) Designation	右手型号 Right hand	左手型号 Left hand	H	F	L	H1	L1	Dmin	R	刀片型号 Insert	在庫 Stock
45°	SSSCR 10CA-09	SSSCL 10CA-09	10	14	44	15	20	40	0.8	SC..09T3..	○
	SSSCR 12CA-09	SSSCL 12CA-09	12	20	47	20	20	50	0.8	SC..09T3..	○
	SSSCR 12CA-12	SSSCL 12CA-12	12	20	47	20	20	50	0.8	SC..1204..	○
	SSSCR 16CA-12	SSSCL 16CA-12	16	25	53	25	25	55	0.8	SC..1204..	○

- 刀片请根据不同材料单独订购, 请参照: A96 页。
- 配件及安装尺寸: 请参照: A67 页。
- Inserts with different materials should be ordered separately, please see page A96.
- Spare parts and assembled size, please see page A67.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
SC..09T3..	SR21 M4x9.5	KEY02 T15
SC..1204..	SR20 M5x11	KEY02 T20

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

CARTRIDGE 小刀座

ISO 刀座备件

Spare Parts for ISO Cartridge

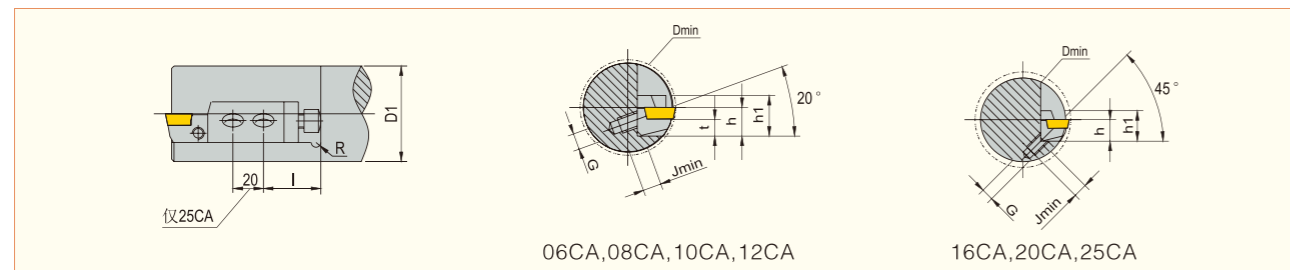
小刀夹型号 Designation	① 螺钉 Clamping screw	② 扳手 Allen key	③ 螺钉 Clamping screw	④ 螺钉 Clamping screw	⑤ 扳手 Allen key
06CA	SR56 M4x10	KEY01 M2.5	SR68 M3x9	SR50 M3x4	KEY01 M1.5
08CA	SR56 M4x16	KEY01 M2.5	SR68 M4x12	SR50 M3x6	KEY01 M1.5
10CA	SR55 M6x20	KEY01 M5	SR68 M4x12	SR50 M4x8	KEY01 M2
12CA	SR55 M6x25	KEY01 M5	SR68 M5x14	SR50 M4x12	KEY01 M2
16CA	SR55 M8x30	KEY01 M6	SR68 M6x16	SR50 M4x12	KEY01 M2
20CA	SR55 M8x30	KEY01 M6	SR68 M6x16	SR50 M6x20	KEY01 M3
25CA	SR55 M10x30	KEY01 M8	SR68 M6x16	SR50 M6x20	KEY01 M3

ISO 刀座安装示意图

Assembly Instruction for ISO Cartridge

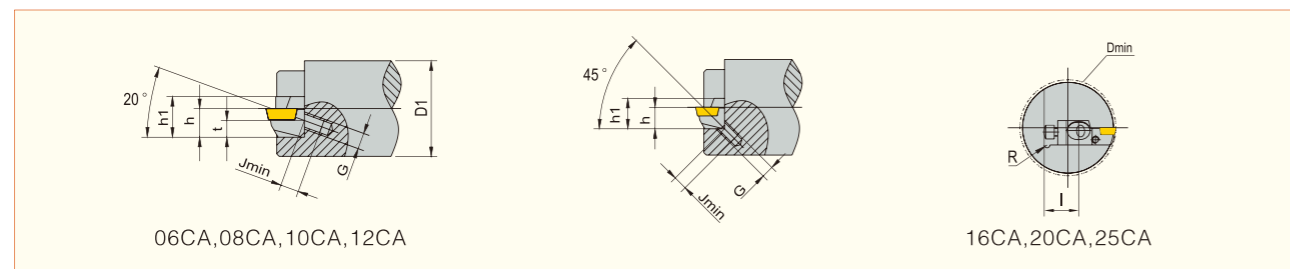
轴向安装

Assembly Instruction for Cartridge of Axial Clamping



径向安装

Assembly Instruction for Cartridge of Radial Clamping

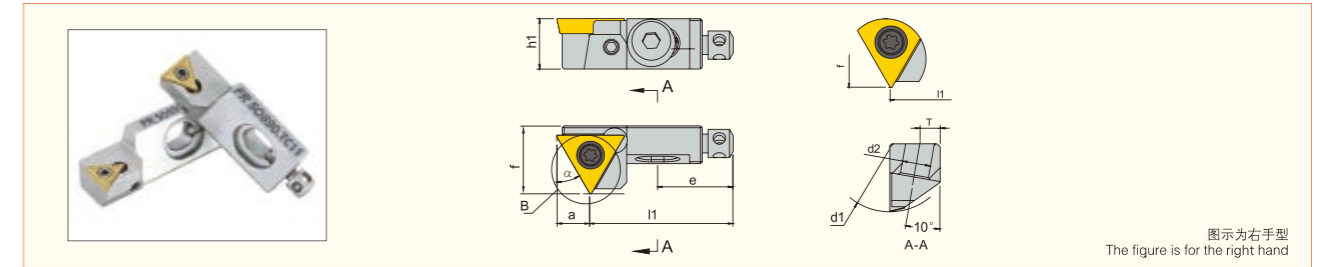


小刀夹型号 Designation	h±0.076	l	G	Jmin	t	h1	Rmax	Dmin	D1
06CA	6	12	M4x0.7	10	3.5	8.5	2.0	20	刀杆最大直径小于镗孔直径 3mm The maximum diameter of boring bar should be smaller 3mm than the diameter of hole
08CA	8	17	M4x0.7	10	4.5	10	2.5	25	
10CA	10	20	M6x1	14	5	15	4.0	40	
12CA	12	20	M6x1	14	6	20	5.0	50	
16CA	16	25	M8x1.25	15	-	25	5.0	55	
20CA	20	30	M8x1.25	15	-	25	5.0	70	
25CA	25	30	M10x1.5	19	-	32	6.0	100	

CARTRIDGE 小刀座

微型刀座

Mini Cartridge



主偏角 (α) Approach angle	右手型号 Right hand	左手型号 Left hand	a	d1	d2	e	h1	f	l1	T	适用刀片 Insert	在库 Stock
90°	FR S0690.CP05	FL S0690.CP05	-	14.5	3.4	10.5	6	8	25	2.3	CP..0502..	●
	FR S0690.CC06	FL S0690.CC06	-	20	3.4	10.5	6	9.7	25	2.3	CC..0602..	●
90°	FR S0890.TC11	FL S0890.TC11	-	20	4.5	12	8	11	28	3.2	TC..1102..	●
45°	FR S0845.TC11	FL S0845.TC11	7.4	20	4.5	12	8	10.8	20.6	3.2	TC..1102..	●
60°	FR S0860.TC11	FL S0860.TC11	9.1	20	4.5	12	8	11	18.9	3.2	TC..1102..	●
30°	FR S0830.TC11	FL S0830.TC11	5.2	20	4.5	12	8	10.8	22.8	3.2	TC..1102..	●
75°	FR S0875.TC11	FL S0875.TC11	10.1	20	4.5	12	8	11	17.9	3.2	TC..1102..	●

- 刀片请根据不同材料单独订购, 请参照: A91-A93 页。
- 订货示例: 1 件 FR S0690.CP05。
- Inserts with different materials should be ordered separately, please see page A91-A93.
- Ordering sample: 1 PC FR S0690.CP05.

备件

Spare Parts

h1	锁紧螺钉 Clamping screw	径向调整螺钉 Radial adjusting screw	轴向调整螺钉 Axial adjusting screw	锁紧扳手 Allen key for clamping screw	径向调整扳手 Radial adjusting allen key
h1=6	SR56 M3x10	SR50 M3x4	SR68 M3x9	KEY01 M2	KEY01 M1.5
h1=8	SR56 M4x12	SR50 M3x4	SR68 M3x9	KEY01 M2.5	KEY01 M1.5

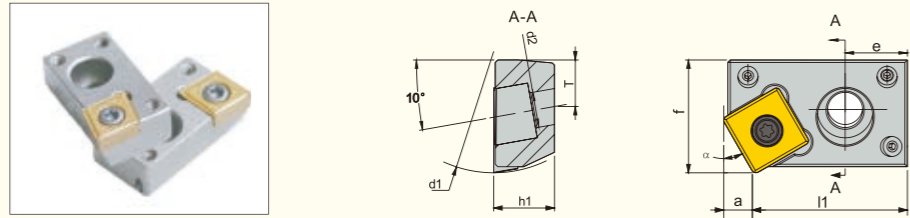
刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
CP..0502..	SR20 M2.2x5.6	KEY02 T7
CC..0602..	SR21 M2.5x5.3	KEY02 T7
TC..1102..	SR20 M2.5x6	KEY02 T8

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

CARTRIDGE 小刀座

重切刀座

Mini Cartridge for Heavy Duty Cutting



图示为右手型
The figure is for the right hand

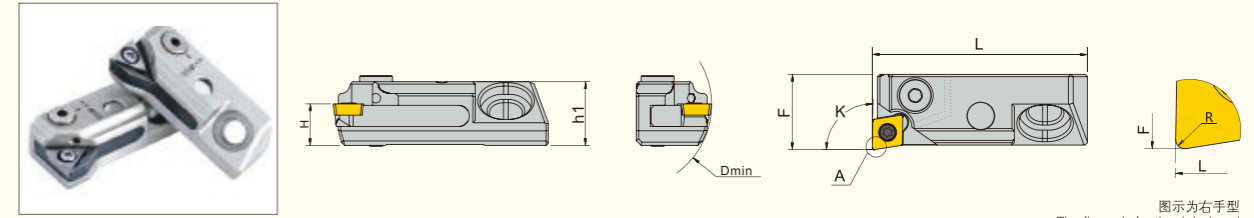
主偏角 (α) Approach angle	右手型号 Right hand	左手型号 Left hand	a	d1	d2	e	f	h1	l1	T	适用刀片 Insert	在庫 Stock
15°	FR B0875.CC06	FL B0875.CC06	1.2	32	5	12.3	14.3	8	24.1	5.9	CC..0602..	○
	FR B1075.CC09	FL B1075.CC09	2	40	6	12.3	18.3	10	28.3	7.5	CC..09T3..	○
	FR B1275.CC12	FL B1275.CC12	2.8	48	7	12.3	22.3	12	33.5	9.2	CC..1204..	○
90°	FR B0890.CC06	FL B0890.CC06	-	32	5	12.3	14.3	8	25.3	5.9	CC..0602..	○
	FR B1090.CC09	FL B1090.CC09	-	40	6	12.3	18.3	10	30.3	7.5	CC..09T3..	○
	FR B1290.CC12	FL B1290.CC12	-	48	7	12.3	22.3	12	36.3	9.2	CC..1204..	○
15°	FR B1075.SC09	FL B1075.SC09	2	40	6	12.3	18.3	10	28.3	7.5	SC..09T3..	○
	FR B1275.SC12	FL B1275.SC12	2.8	48	7	12.3	22.3	12	33.5	9.2	SC..1204..	○
	FR B1030.SC09	FL B1030.SC09	4	40	6	12.3	18.3	10	26.3	7.5	SC..09T3..	○
30°	FR B1230.SC12	FL B1230.SC12	5.7	48	7	12.3	22.3	12	30.6	9.2	SC..1204..	○
	FR B1045.SC09	FL B1045.SC09	6.1	40	6	12.3	18.3	10	24.2	7.5	SC..09T3..	○
45°	FR B1245.SC12	FL B1245.SC12	9.3	48	7	12.3	22.3	12	28	9.2	SC..1204..	○

- 刀片请根据不同材料单独订购, 请参照: A91 页, A93 页, A96 页。
- 订货示例: 1 件 FR B0875.CC06。
- Inserts with different materials should be ordered separately, please see page A91, A93, A96.
- Ordering sample: 1 PC FR B0875.CC06.

CARTRIDGE 小刀座

微调刀座

Mini Adjustable Cartridge



图示为右手型
The figure is for the right hand

规格型号 Designation		尺寸规格 Dimensions							适用刀片 Suitable Insert	在庫 Stock
右手型号 Right hand	左手型号 Left hand	K	H	F	L	h1	Dmin	R		
HFR90 F16.CC06	HFL90 F16.CC06	90	8.8	16	45.6	13.5	28	0.4	CC.0602..	●
HFR95 F16.CC06	HFL95 F16.CC06	95	8.8	16	45.6	13.5	28	0.4	CC.0602..	●
HFR90 F16.TP09	HFL90 F16.TP09	90	8.8	16	45.6	13.5	28	0.4	TP..0902..	●
HFR95 F16.TP09	HFL95 F16.TP09	95	8.8	16	45.6	13.5	28	0.4	TP..0902..	●
HFR90 F20.TC11	HFL90 F20.TC11	90	8.8	20	45.6	13.5	36	0.4	TC..1102..	●
HFR95 F20.TC11	HFL95 F20.TC11	95	8.8	20	45.6	13.5	36	0.4	TC..1102..	●
HFR90 F20.TP11	HFL90 F20.TP11	90	8.8	20	45.6	13.5	36	0.4	TP..1103..	●
HFR95 F20.TP11	HFL95 F20.TP11	95	8.8	20	45.6	13.5	36	0.4	TP..1103..	●
HFR30 F16.DC07	HFL30 F16.DC07	120	8.8	16	48.5	13.5	28	0.4	DC..0702..	●

- 刀片请根据不同材料单独订购, 请参照: A91 页, A93 页, A95 页。
- 货备库存有左手和右手型号。
- 微调精度直径 0.01mm, 半径 0.005mm。
- 径向最大调整量直径 0.6mm, 轴向调整量 1mm。
- Inserts with different materials should be ordered separately, please see page A91, A93, A95.
- There are right and left hand specifications available in stock.
- The adjustment: 0.01 mm on diameter and 0.005mm on radius.
- The adjustment range: 0.6mm on diameter by radial direction, 1 mm on diameter by axial direction.

备件

Spare Parts



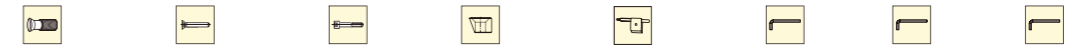
h1	锁紧螺钉 Clamping screw	径 / 轴向调整螺钉 Radial/Axial adjusting screw	锁紧扳手 Allen key for clamping screw	径 / 轴向调整扳手 Radial/Axial adjusting allen key
h1=8	SR55 M4x12	SR67 M2.5x5	KEY01 M3	KEY01 M1.3
h1=10	SR55 M5x12	SR67 M3x6	KEY01 M4	KEY01 M1.5
h1=12	SR55 M6x16	SR67 M3x6	KEY01 M5	KEY01 M1.5



刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
CC..0602..	SR21 M2.5x5.3	KEY02 T7
CC..09T3..	SR20 M4x9.5	KEY02 T15
CC..1204..	SR20 M5x11	KEY02 T20
SC..09T3..	SR21 M4x9.5	KEY02 T15
SC..1204..	SR20 M5x11	KEY02 T20

备件

Spare Parts



刀片型号 Insert	刀片锁紧螺钉 Clamping screw insert	轴向调整螺钉 Axial adjusting screw	刀座锁紧螺钉 Clamping screw for cartridge	轴向调节环 Axial adjusting ring	刀片锁紧扳手 Allen key for clamping screw	径向调整扳手 Allen key for radial adjusting	压紧扳手 Allen key for clamping	径向调整扳手 Allen key for radial adjusting
CC..0602..	SR21 M2.5x5.3	SR57 M5X16	SR55 M5x20	HFX.3	KEY02 T7	KEY01 M2.5	KEY01 M4	KEY01 M3
TP..0902..	SR22 M2.5x6	SR57 M5X16	SR55 M5x20	HFX.3	KEY02 T8	KEY01 M2.5	KEY01 M4	KEY01 M3
TC..1102..	SR21 M2.5x5.3	SR57 M5X16	SR55 M5x20	HFX.3	KEY02 T7	KEY01 M2.5	KEY01 M4	KEY01 M3
TP..1103..	SR22 M3x6	SR57 M5X16	SR55 M5x20	HFX.3	KEY02 T8	KEY01 M2.5	KEY01 M4	KEY01 M3

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

CARTRIDGE 小刀座

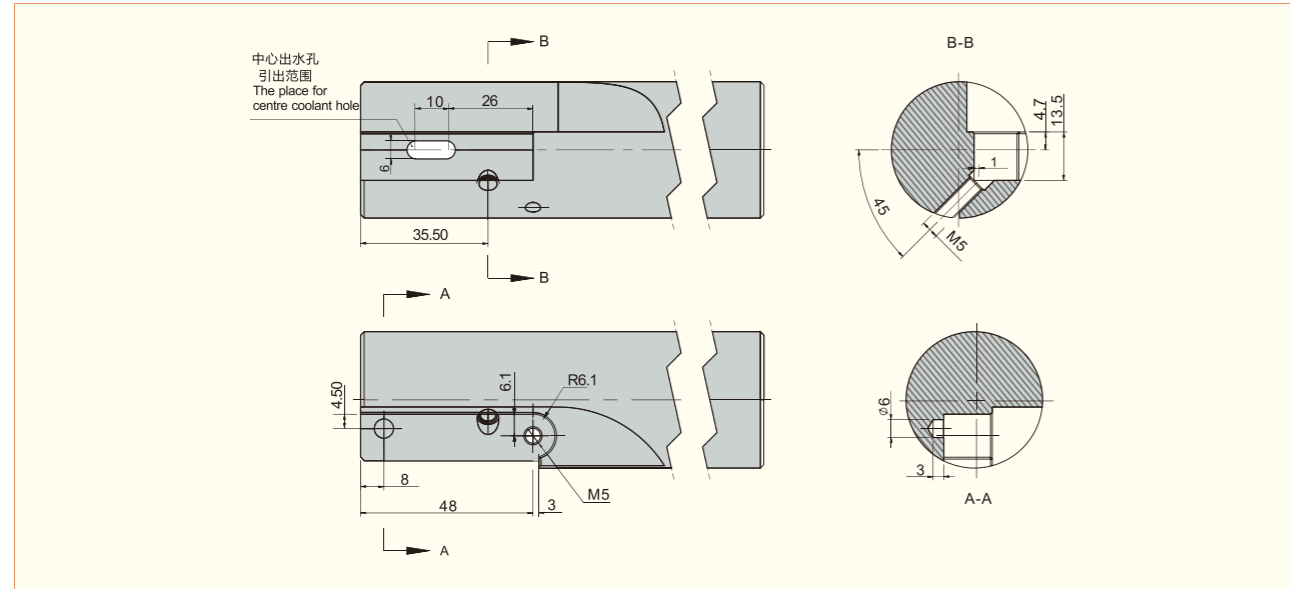
微调刀座安装尺寸

Assembly Instruction for Mini Adjustable Cartridge

图示按照右手 R.H 刀座的方向设置。
使用左手 L.H 刀座时请按照镜像的方式设置。
The figure is for the right hand specification.
For the left hand specification, please refer to the opposite figure.
Setting Instruction

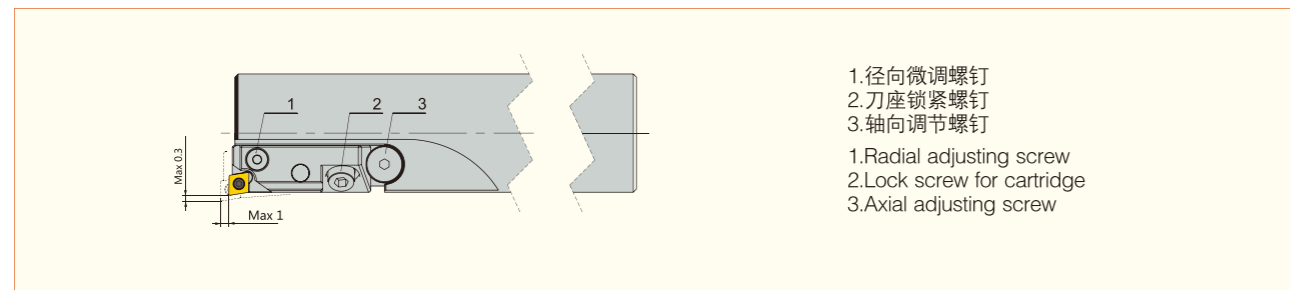
刀座安装尺寸

Assembly Instruction



刀座调节方法

Adjustment Instruction



轴向调节方法

Adjusting on axial direction

- 稍微松开刀座锁紧螺钉 2。
- 顺时针旋转轴向调节螺钉 3，刀座向前移动至需要的尺寸。
- 夹紧刀座锁紧螺钉 2。
- Loosening the 2# lock screw lightly.
- Rotating the 3# axial adjusting screw on the anticlockwise direction, so that the cartridge can be moved forward to the required size.
- Tightening the 2# lock screw firmly.

注意：如果刀座需要向后调节，应当松开刀座锁紧螺钉，并把刀座移动到后面，然后逐渐向前调节直到需要的尺寸。

Note: If the cartridge should be moved backward, please loosen the lock screw, and then move the cartridge to the back, finally adjust the cartridge to forward little by little to meet the required size.

刀具直径调节方法

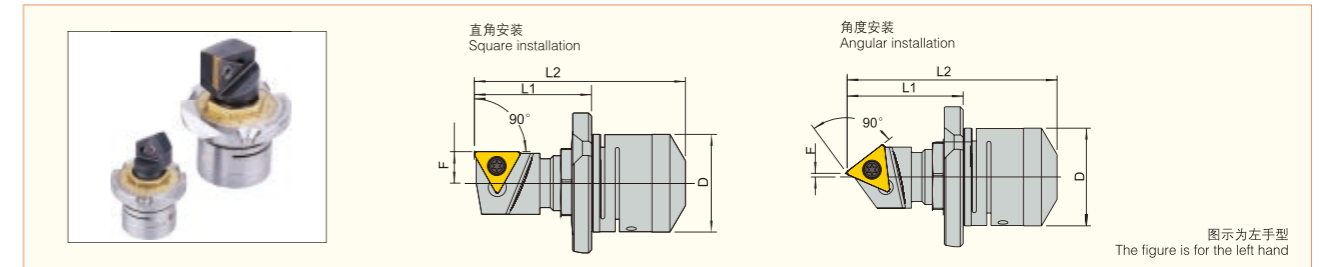
Adjusting on radial direction

- 顺时针方向旋转径向调节螺钉 1。刀具直径逐渐变大。
- 逆时针方向旋转径向调节螺钉 1。刀具直径逐渐变小。
- 径向微调螺钉调节是每旋转一个刻度，刀具直径变化 0.01mm。
- Rotating the 1# radial adjusting screw on the clockwise direction, so that the diameter of tool will be larger and larger.
- Rotating the 1# radial adjusting screw on the anticlockwise direction, so that the diameter of tool will be smaller and smaller.
- The adjustment on diameter: 0.01mm as per dial.

CARTRIDGE 小刀座

微调镗头

Mini Precision Boring Head



微调镗头规格型号

Designation of Precision Boring Head

安装方式 Installation method	规格型号 Designation	主偏角 Approach angle	切入角 Entrance angle	D	L1	L2	F	Dmin	刀片型号 Insert	在库 Stock
角度安装 Angular installation 主偏角 =90° Approach angle=90°	HFL/R A90.S16.CC06	90°	0°	16	14.2	25.15	0.45	25.5	CC..0602..	•
	HFL/R A90.S16.TC06	90°	0°	16	14.2	25.15	0.49	24.8	TC..06T1..	•
	HFL/R A90.S16.TB06	90°	0°	16	14.2	25.15	0.49	24.8	TB..0601..	•
	HFL/R A90.S20.TC09	90°	0°	20	19.8	34.3	0.9	32.5	TC..0902..	•
	HFL/R A90.S20.TP09	90°	0°	20	19.8	34.3	0.9	32.5	TP..0902..	•
	HFL/R A90.S22.TC11	90°	0°	22	23.8	46.2	1.1	42	TC..1102..	•
	HFL/R A90.S22.TP11	90°	0°	22	23.8	46.2	1.1	42	TP..1103..	•
	HFL/R A90.S32.TC16	90°	0°	32	32.15	63.14	1.2	59.4	TC..16T3..	•
	HFL/R A90.S32.TP11	90°	0°	32	32.15	63.14	1.2	59.4	TP..1103..	•
	HFL/R B90.S16.CC06	90°	0°	16	13.3	24.2	5.1	27	CC..0602..	•
直度安装 Square installation 主偏角 =90° Approach angle=90°	HFL/R B90.S16.TC06	90°	0°	16	13.3	24.2	5.1	25	TC..06T1..	•
	HFL/R B90.S16.TB06	90°	0°	16	13.3	24.2	5.1	25	TB..0601..	•
	HFL/R B90.S20.TC09	90°	0°	20	18.3	32.9	6.3	36.5	TC..0902..	•
	HFL/R B90.S20.TP09	90°	0°	20	18.3	32.9	6.3	36.5	TP..0902..	•
	HFL/R B90.S22.TC11	90°	0°	22	22.1	44.3	7.2	48.5	TC..1102..	•
	HFL/R B90.S22.TP11	90°	0°	22	22.1	44.3	7.2	48.5	TP..1103..	•
	HFL/R B90.S32.TP11	90°	0°	32	32	62.7	10.3	68.4	TP..1103..	•
	HFL/R B90.S32.TC16	90°	0°	32	32	62.7	10.3	68.4	TC..16T3..	•

- 刀片请根据不同材料单独订购，请参照：A91 页, A93 页, A95 页。
- 安装尺寸，请参照：A74 页。
- 订货示例：1 件 HFR A90.S16.CC06。
- Insert with different materials should be ordered separately, please see page A91, A93, A95.
- Installation size, please see page A74.
- Ordering sample: 1 PC HFR A90.S16.CC06

备件

Spare Parts

D	镗头锁紧螺钉 Clamping screw for boring head	锁紧扳手 Allen key for clamping screw	调整扳手 Allen key for adjusting screw
D=16	SR22 M3x8	KEY02 T8	KEY06 S10
D=20	SR22 M3x8	KEY02 T8	KEY06 S13
D=22	SR20 M4x11.5	KEY02 T15	KEY06 S15
D=32	SR21 M5x12.8	KEY02 T20	KEY06 S22

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
CC..0602..	SR21 M2.5x5.3	KEY02 T7
TC..06T1..	SR20 M2x3.7	KEY02 T6
TC..0902..	SR20 M2.2x5.6	KEY02 T7
TC..1102..	SR20 M2.5x6	KEY02 T8
TC..16T3..	SR21 M4x9.5	KEY02 T15
TB..0601..	SR20 M2x3.7	KEY02 T6
TP..0902..	SR22 M2.5x6	KEY02 T8
TP..1103..	SR22 M3x8	KEY02 T8

• 标准库存
Item in stock

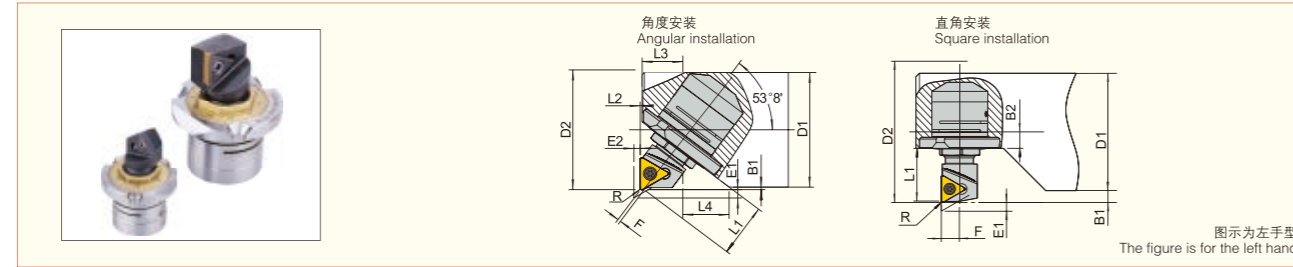
◦ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

CARTRIDGE 小刀座

微调镗头

Mini Precision Boring Head



微调镗头安装尺寸

Assembly Size for Mini Precision Boring Head

安装方式 Installation method	D	R	D1 min	D2 min	B1 min	E1 max	E2 max	B2 min	L1 min	L2	L3	L4	F
角度安装 Angular installation 主偏角 =90° Approach angle=90°	16	0.2	26.0	27.9	0.6	2.5	-	3.6	9.8	-	-	-	5.1
		0.4	26.0	27.6	0.55	2.5	-	3.6	9.6	-	-	-	5.1
		0.8	26.0	27	0.5	2.5	-	3.6	9.1	-	-	-	5.1
	16	0.2	24.0	25.9	0.6	2.5	-	3.6	8.8	-	-	-	5.1
		0.4	24.0	25.6	0.55	2.5	-	3.6	8.6	-	-	-	5.1
		0.8	24.0	25	0.5	2.5	-	3.6	8.1	-	-	-	5.1
	20	0.2	34.5	37.4	1.45	3.5	-	4.55	13.95	-	-	-	6.3
		0.4	34.5	37.1	1.3	3.5	-	4.55	13.6	-	-	-	6.3
		0.8	34.5	36.5	1	3.5	-	4.55	12.9	-	-	-	6.3
	22	0.2	46.5	49.4	1.45	6	-	7.75	16.75	-	-	-	7.2
		0.4	46.5	49.1	1.3	6	-	7.75	16.4	-	-	-	7.2
		0.8	46.5	48.5	1	6	-	7.75	15.7	-	-	-	7.2
32	0.4	67.0	69.6	1.3	10	-	9.4	25	-	-	-	10.3	
	0.8	67.0	69	1	10	-	9.4	24.3	-	-	-	10.3	
	1.2	67.0	68.4	0.7	10	-	9.4	23.6	-	-	-	10.3	
直度安装 Square installation 主偏角 =90° Approach angle=90°	16	0.2	22.0	26.2	1.7	2	1.5	-	11	0.5	6.6	9.55	0.4
		0.4	22.0	25.9	1.65	2	1.5	-	10.7	0.5	6.6	9.55	0.4
		0.8	22.0	25.3	1.6	2	1.5	-	10.1	0.5	6.6	9.55	0.45
	16	0.2	22.0	25.7	1.5	2	1.5	-	10.9	0.5	6.6	9.55	0.4
		0.4	22.0	25.4	1.45	2	1.5	-	10.6	0.5	6.6	9.55	0.4
		0.8	22.0	24.8	1.4	2	1.5	-	10	0.5	6.6	9.55	0.45
	20	0.2	28.5	33.4	2.45	2.8	2.1	-	14.9	0.5	9.4	12.15	0.95
		0.4	28.5	33.1	2.3	2.8	2.1	-	14.5	0.5	9.4	12.15	1
		0.8	28.5	32.5	2	2.8	2.1	-	13.7	0.5	9.4	12.15	1.1
	22	0.2	38.0	42.9	2.45	4.8	3.6	-	17.6	0.5	11.2	14.85	1.15
		0.4	38.0	42.6	2.3	4.8	3.6	-	17.2	0.5	11.2	14.85	1.2
		0.8	38.0	42	2	4.8	3.6	-	16.4	0.5	11.2	14.85	1.3
32	0.4	55.0	60.6	2.8	8	6	-	26.2	0.5	16.65	23.7	1.3	
	0.8	55.0	60	2.5	8	6	-	25.4	0.5	16.65	23.7	1.4	
	1.2	55.0	59.4	2.2	8	6	-	24.6	0.5	16.65	23.7	1.5	

● 安装尺寸，请参照：☞ A74 页。
● Installation size, please see page A74.

CARTRIDGE 小刀座

微调镗头

Mini Precision Boring Head

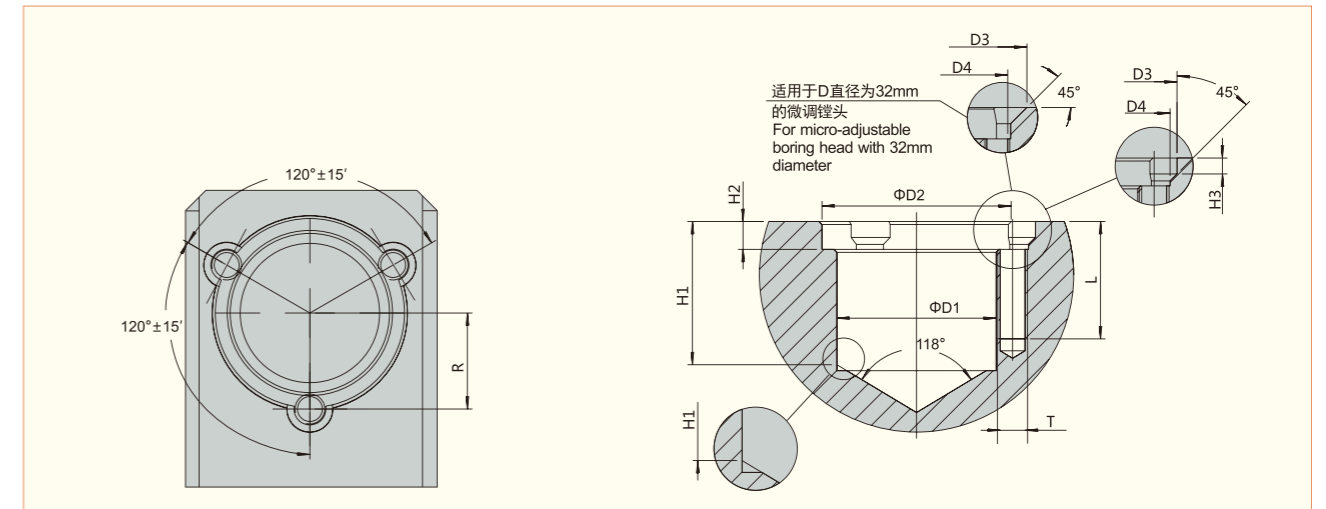
- 微调镗头是定制非标刀具系统中的精密微调模块，适合于精加工及半精加工工序的镗孔应用；
- 其结构化的设计、高精度、高可靠性的特点，使组合镗孔刀具的设计、生产效率大幅提升，且降低了刀具生产周期；
- 使用微调镗头模块的非标刀具在精镗孔的时候调节非常方便、操作简单、自锁的结构有效降低因操作不当引起的损坏。
- Micro boring head is the precision module for the special boring tools, which is for finishing and semi-finishing process;
- It is with the features of high precision, high reliability and high repeatability due to the modular structure, it improves the performance of modular boring tool, moreover shortens the production cycle;
- The special cutting tools with the micro boring head are easy to be adjusted and operated, and the damages caused by improper operation reduced due to the self-locking structure.

特点：

- 径向安装，轴向间距小，尤其在直径较小的刀具，优势更加明显。
- 微调刻度盘在模块的前方，所以可以在非常方便的角度进行微调。
- 微调单元是自锁的设计，在微调前无需其他操作，调整后不用锁紧。
- 整个微调单元安装在盲孔内，有效防止切削液、灰尘等进入，大大提高了使用寿命及尺寸稳定性。

Features:

- The axial gap is smaller when installing on radial direction, and the advantages are more obvious for the small diameter tools.
- It is easy to be adjusted due to the micro knob in the front of micro boring head.
- There is no need to do any operations before and after adjusting due to the self-locking structure.
- The micro boring head will be installed into the blind hole and it could help stop the cutting chips and dust, so that the tools will get higher stability and longer life.



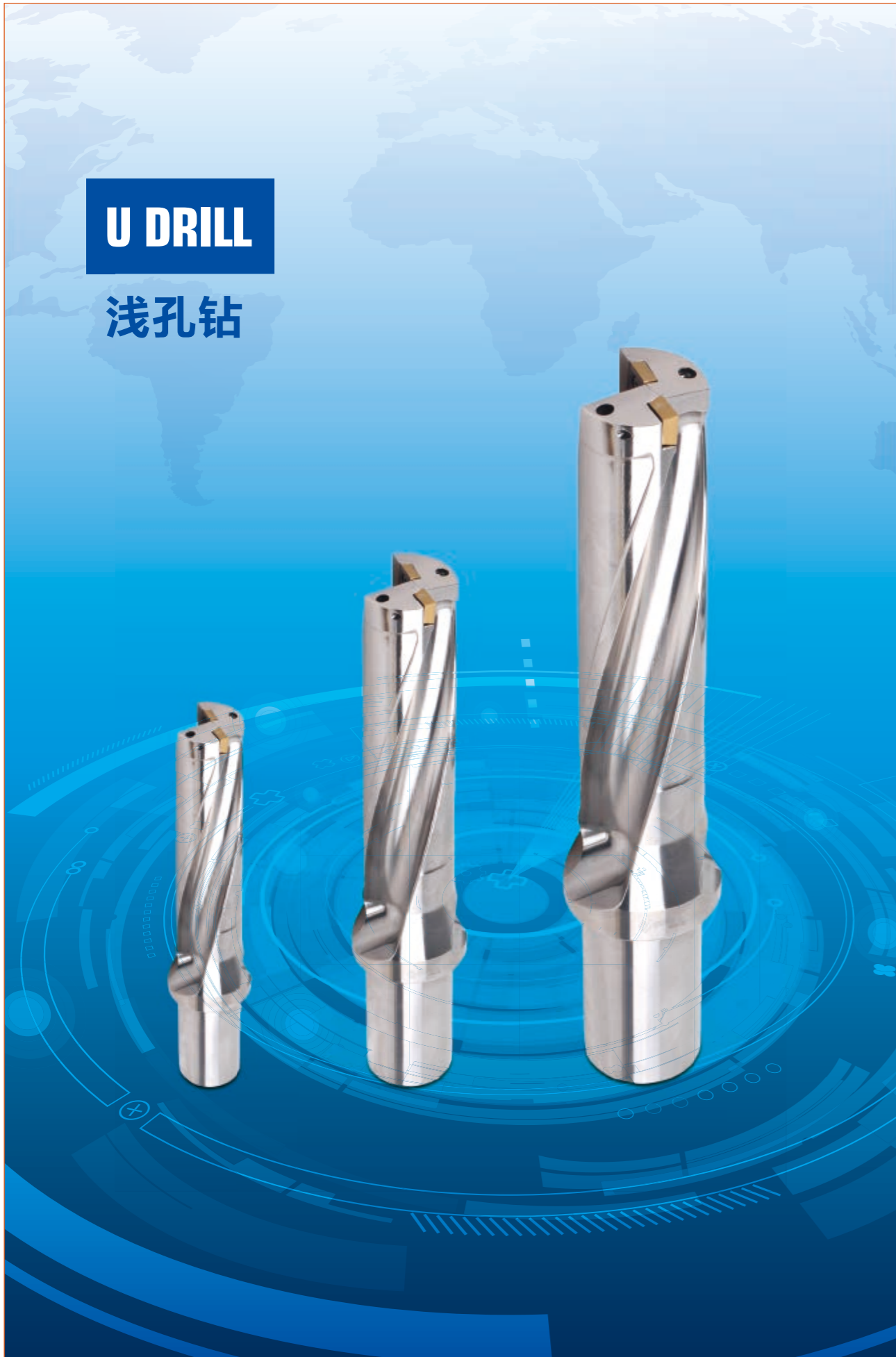
安装尺寸

Assembly Instruction

D 直径 Diameter	D1(H7)	D2	D3	D4	H1	H2	H3	L	R	T
16	16	19	4.6	3.2	11.5	2.8	1.6	9	9.65±0.02	M3
20	20	25	4.6	3.2	15.5	4	1.6	9	12.5±0.05	M3
22	22	30	6.5	4.3	24	5	1.8	13	15.4±0.05	M4
32	32	46	11.9	5.4	33	6.3	-	16	23±0.05	M5

U DRILL

浅孔钻



A

孔加工刀具 HOLE MAKING TOOLS

浅孔钻 U Drill

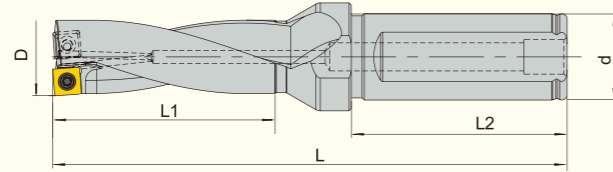
DR 钻头 (2D)	A77
DR U Drill (2D)	
DR 钻头 (3D)	A79
DR U Drill (3D)	
DR 钻头 (4D)	A81
DR U Drill (4D)	
DR 钻头 (5D)	A83
DR U Drill (5D)	
SP 钻削刀片	A85
Insert	
技术参数	A86
Technical Information	

U DRILL 浅孔钻

DR 钻头 (5D)

DR U Drill (5D)

钻深 5xD, 钻头直径范围 : Φ 20-35 mm。
Drilling depth 5xD, drill diameter range: Φ20-35 mm.



规格型号 Designation	D	L1	L	L2	d	适用刀片 Suitable Insert	螺丝 Screw	扳手 Wrench	在庫 Stock
DR D20.W25.100.SP06	20.0	100.0	179	56	25	SP..0602..	SR13 M2.2x5	KEY02 T6	●
DR D20.5.W25.102.5.SP06	20.5	102.5	181	56	25	SP..0602..	SR13 M2.2x5	KEY02 T6	●
DR D21.W25.105.SP06	21.0	105.0	184	56	25	SP..0602..	SR13 M2.2x5	KEY02 T6	●
DR D21.5.W25.107.5.SP06	21.5	107.5	186	56	25	SP..0602..	SR13 M2.2x5	KEY02 T6	●
DR D22.W25.110.SP07	22.0	110.0	189	56	25	SP..07T3..	SR13 M2.5x6	KEY02 T8	●
DR D22.5.W25.112.5.SP07	22.5	112.5	193	56	25	SP..07T3..	SR13 M2.5x6	KEY02 T8	●
DR D23.W25.115.SP07	23.0	115.0	194	56	25	SP..07T3..	SR13 M2.5x6	KEY02 T8	●
DR D23.5.W25.117.5.SP07	23.5	117.5	196	56	25	SP..07T3..	SR13 M2.5x6	KEY02 T8	●
DR D24.W25.120.SP07	24.0	120.0	199	56	25	SP..07T3..	SR13 M2.5x6	KEY02 T8	●
DR D24.5.W25.122.5.SP07	24.5	122.5	201	56	25	SP..07T3..	SR13 M2.5x6	KEY02 T8	●
DR D25.W32.125.SP07	25.0	125.0	216	60	32	SP..07T3..	SR13 M2.5x6	KEY02 T8	●
DR D25.5.W32.127.5.SP07	25.5	127.5	218	60	32	SP..07T3..	SR13 M2.5x6	KEY02 T8	●
DR D26.W32.130.SP07	26.0	130.0	221	60	32	SP..07T3..	SR13 M2.5x6	KEY02 T8	●
DR D26.5.W32.132.5.SP07	26.5	132.5	223	60	32	SP..07T3..	SR13 M2.5x6	KEY02 T8	●
DR D27.W32.135.SP07	27.0	135.0	226	60	32	SP..07T3..	SR13 M2.5x6	KEY02 T8	●
DR D27.5.W32.137.5.SP09	27.5	137.5	228	60	32	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D28.W32.140.SP09	28.0	140.0	231	60	32	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D28.5.W32.142.5.SP09	28.5	142.5	233	60	32	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D29.W32.145.SP09	29.0	145.0	236	60	32	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D29.5.W32.147.5.SP09	29.5	147.5	238	60	32	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D30.W32.150.SP09	30.0	150.0	241	60	32	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D30.5.W32.152.5.SP09	30.5	152.5	243	60	32	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D31.W32.155.SP09	31.0	155.0	246	60	32	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D31.5.W32.157.5.SP09	31.5	157.5	248	60	32	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D32.W32.160.SP09	32.0	160.0	251	60	32	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D32.5.W32.162.5.SP09	32.5	162.5	253	60	32	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D33.W32.165.SP09	33.0	165.0	256	60	32	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D33.5.W32.167.5.SP11	33.5	167.5	258	60	32	SP..1104..	SR13 M4x10	KEY02 T15	●
DR D34.W32.170.SP11	34.0	170.0	261	60	32	SP..1104..	SR13 M4x10	KEY02 T15	●
DR D34.5.W32.172.5.SP11	34.5	172.5	263	60	32	SP..1104..	SR13 M4x10	KEY02 T15	●
DR D35.W32.175.SP11	35.0	175.0	266	60	32	SP..1104..	SR13 M4x10	KEY02 T15	●

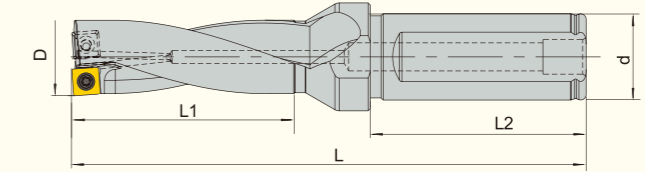
● 刀片请根据不同材料单独订购, 请参照: A85 页。
● Insert with different materials should be ordered separately, please see page A85.

U DRILL 浅孔钻

DR 钻头 (5D)

DR U Drill (5D)

钻深 5xD, 钻头直径范围 : Φ 35.5-60 mm。
Drilling depth 5xD, drill diameter range: Φ35.5-60mm.



规格型号 Designation	D	L1	L	L2	d	适用刀片 Suitable Insert	螺丝 Screw	扳手 Wrench	在庫 Stock
DR D35.5.W32.177.5.SP11	35.5	177.5	268	60	32	SP..1104..	SR13 M4x10	KEY02 T15	●
DR D36.W32.180.SP11	36.0	180.0	271	60	32	SP..1104..	SR13 M4x10	KEY02 T15	●
DR D36.5.W32.182.5.SP11	36.5	182.5	273	60	32	SP..1104..	SR13 M4x10	KEY02 T15	●
DR D37.W32.185.SP11	37.0	185.0	276	60	32	SP..1104..	SR13 M4x10	KEY02 T15	●
DR D37.5.W32.187.5.SP11	37.5	187.5	278	60	32	SP..1104..	SR13 M4x10	KEY02 T15	●
DR D38.W32.190.SP11	38.0	190.0	281	60	32	SP..1104..	SR13 M4x10	KEY02 T15	●
DR D38.5.W32.192.5.SP11	38.5	192.5	283	60	32	SP..1104..	SR13 M4x10	KEY02 T15	●
DR D39.W32.195.SP11	39.0	195.0	284	60	32	SP..1104..	SR13 M4x10	KEY02 T15	●
DR D39.5.W32.197.5.SP11	39.5	197.5	288	60	32	SP..1104..	SR13 M4x10	KEY02 T15	●
DR D40.W32.200.SP11	40.0	200.0	291	60	32	SP..1104..	SR13 M4x10	KEY02 T15	●
DR D41.W32.205.SP14	41.0	205.0	296	60	32	SP..1405..	SR13 M5x10	KEY02 T20	●
DR D42.W32.210.SP14	42.0	210.0	301	60	32	SP..1405..	SR13 M5x10	KEY02 T20	●
DR D43.W40.215.SP14	43.0	215.0	315	65	40	SP..1405..	SR13 M5x10	KEY02 T20	●
DR D44.W40.220.SP14	44.0	220.0	320	65	40	SP..1405..	SR13 M5x10	KEY02 T20	●
DR D45.W40.225.SP14	45.0	225.0	325	65	40	SP..1405..	SR13 M5x10	KEY02 T20	●
DR D46.W40.230.SP14	46.0	230	330	65	40	SP..1405..	SR13 M5x10	KEY02 T20	●
DR D47.W40.235.SP14	47.0	235	335	65	40	SP..1405..	SR13 M5x10	KEY02 T20	●
DR D48.W40.240.SP14	48.0	240	340	65	40	SP..1405..	SR13 M5x10	KEY02 T20	●
DR D49.W40.245.SP14	49.0	245	345	65	40	SP..1405..	SR13 M5x10	KEY02 T20	●
DR D50.W40.250.SP14	50.0	250	350	65	40	SP..1405..	SR13 M5x10	KEY02 T20	●
DR D51.W40.255.SP14	51.0	255	355	65	40	SP..1405..	SR13 M5x10	KEY02 T20	●
DR D52.W40.260.SP09	52.0	260	360	65	40	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D53.W40.265.SP09	53.0	265	365	65	40	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D54.W40.270.SP09	54.0	270	370	65	40	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D55.W40.275.SP09	55.0	275	375	65	40	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D56.W40.280.SP09	56.0	280	380	65	40	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D57.W40.285.SP09	57.0	285	385	65	40	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D58.W40.290.SP09	58.0	290	390	65	40	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D59.W40.295.SP09	59.0	295	395	65	40	SP..0904..	SR13 M3.5x8	KEY02 T15	●
DR D60.W40.300.SP09	60.0	300	400	65	40	SP..0904..	SR13 M3.5x8	KEY02 T15	●

● 刀片请根据不同材料单独订购, 请参照: A85 页。
● Insert with different materials should be ordered separately, please see page A85.

● 标准库存 Item in stock
○ 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
○ 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

● 标准库存 Item in stock
○ 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
○ 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

U DRILL 浅孔钻

推荐切削参数

Recommended Cutting Parameter

DRILL 5xD 加工数据

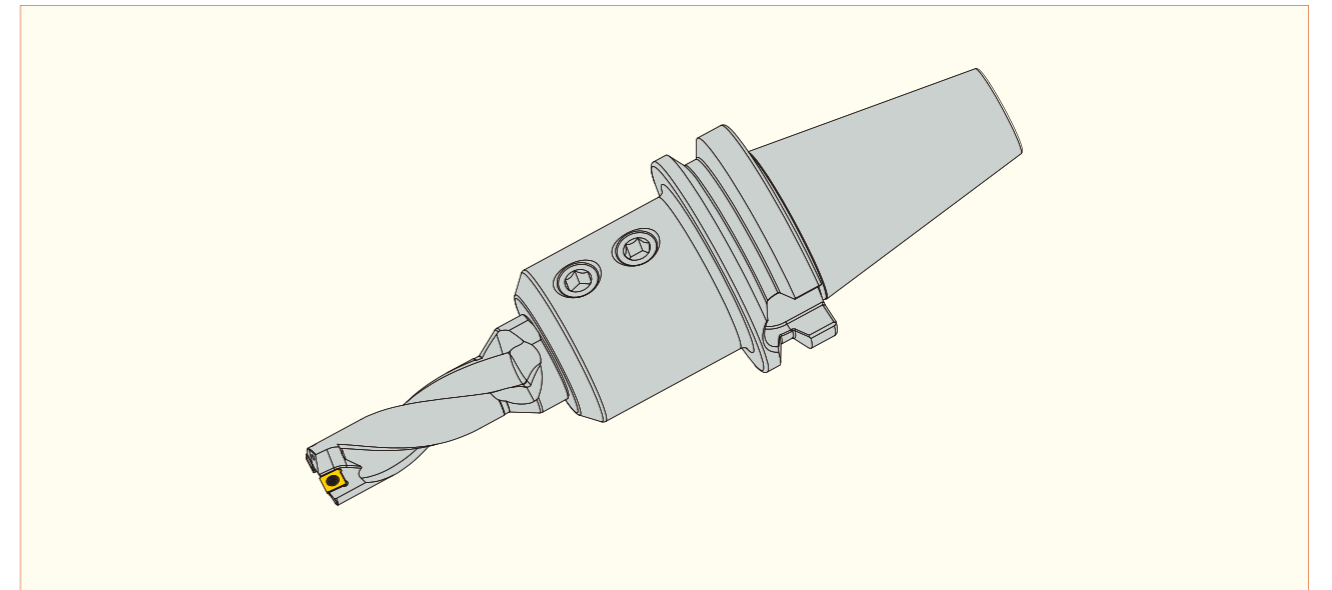
DRILL 5xD

ISO	材质 Workpiece material	条件 Condition	拉伸强度	单位面积比切力	硬度	切削速度 Cutting speed	进给 (mm/rev) 对比 钻头直径钻深 5XD							
			Tensile strength	Shearing force as per square (mm)	Hardness		Feed in different diameters							
			N/mm2	N/mm2	HB		Vc(m/min)	SPMG 05	SPMG 06	SPMG 07	SPMG 09	SPMG 11	SPMG 14	SPMG 09
P	非合金钢、铸钢、易切削钢 Unalloyed steel, cast steel, free cutting steel	<0.25%C 退火 Annealed	420	1350	125	250-350	0.04-0.05	0.04-0.05	0.04-0.06	0.04-0.07	0.06-0.08	0.06-0.10	0.04-0.07	
		>=0.25%C 退火 Annealed	650	1500	190	180-250	0.06-0.08	0.06-0.08	0.06-0.10	0.07-0.12	0.08-0.13	0.08-0.14	0.07-0.12	
		<0.55%C 调质 Quenched and tempered	850	1675	250	160-220	0.06-0.10	0.08-0.13	0.10-0.16	0.12-0.20	0.12-0.22	0.13-0.23	0.12-0.20	
		>=0.55%C 退火 Annealed	750	1700	220	160-220	0.06-0.10	0.08-0.13	0.10-0.16	0.12-0.20	0.12-0.22	0.13-0.23	0.12-0.20	
	低合金钢和铸钢 (合金成分低于 5%) Low alloy steel and cast steel (less than 5% alloying elements)	退火 Annealed	600	1775	200	150-220	0.06-0.10	0.08-0.12	0.10-0.16	0.12-0.18	0.12-0.18	0.13-0.18	0.12-0.18	
			930	1675	275	120-160	0.06-0.12	0.06-0.13	0.08-0.16	0.08-0.16	0.08-0.17	0.08-0.17	0.08-0.16	
		调质 Quenched and tempered	1000	1725	300	120-160	0.06-0.12	0.06-0.13	0.08-0.16	0.08-0.16	0.08-0.17	0.08-0.17	0.08-0.16	
			1200	1800	350	120-160	0.06-0.12	0.06-0.13	0.08-0.16	0.08-0.16	0.08-0.17	0.08-0.17	0.08-0.16	
高合金钢, 铸钢, 工具钢 High alloy steel, cast steel, and tool steel	退火 Annealed	680	2450	200	140-180	0.06-0.08	0.06-0.08	0.08-0.10	0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.12		
	调质 Quenched and tempered	1100	2500	325	130-180	0.06-0.09	0.08-0.10	0.10-0.13	0.12-0.13	0.12-0.15	0.12-0.16	0.12-0.13		
M	不锈钢, 铸钢 Stainless steel and cast steel	铁素体 / 马氏体 Ferritic/ martensitic	680	1875	200	170-240	0.05-0.09	0.06-0.10	0.08-0.13	0.09-0.15	0.10-0.15	0.10-0.17	0.09-0.15	
		马氏体 Martensitic	820	1875	240	170-240	0.05-0.09	0.06-0.10	0.08-0.13	0.09-0.15	0.10-0.15	0.10-0.17	0.09-0.15	
		奥氏体 Austenitic	600	2150	180	170-240	0.05-0.09	0.06-0.10	0.08-0.13	0.09-0.15	0.10-0.15	0.10-0.17	0.09-0.15	
K	灰铸铁 (GG) Grey cast iron	铁素体 Ferritic		1150	160	180-250	0.06-0.10	0.08-0.15	0.12-0.18	0.15-0.22	0.16-0.25	0.18-0.28	0.15-0.22	
		珠光体 Pearlite		1350	250	180-250	0.06-0.10	0.08-0.15	0.12-0.18	0.15-0.22	0.16-0.25	0.18-0.28	0.15-0.22	
	球墨铸铁 (GGG) Ductile cast iron	铁素体 Ferritic		1225	180	180-250	0.06-0.10	0.08-0.15	0.12-0.18	0.15-0.22	0.16-0.25	0.18-0.28	0.15-0.22	
		珠光体 Pearlite		1350	260	180-250	0.06-0.10	0.08-0.15	0.12-0.18	0.15-0.22	0.16-0.25	0.18-0.28	0.15-0.22	
可锻铸铁 Malleable cast iron	铁素体 Ferritic		1225	130	130-200	0.06-0.08	0.08-0.12	0.10-0.16	0.12-0.18	0.15-0.22	0.16-0.23	0.12-0.18		
	珠光体 Pearlite		1420	230	130-200	0.06-0.08	0.08-0.12	0.10-0.16	0.12-0.18	0.15-0.22	0.16-0.23	0.12-0.18		
N	锻造铝合金 Aluminium wrought alloys	未硬化 Not cureable		700	60	330-380	0.06-0.12	0.08-0.15	0.10-0.13	0.12-0.18	0.14-0.20	0.14-0.24	0.12-0.18	
		硬化 Cured		800	100	330-380	0.06-0.12	0.08-0.15	0.10-0.13	0.12-0.18	0.14-0.20	0.14-0.24	0.12-0.18	
	铸造铝合金 Aluminium wrought alloys	<=12% Si 未硬化 Not cureable		700	75	330-380	0.06-0.12	0.08-0.15	0.10-0.13	0.12-0.18	0.14-0.20	0.14-0.24	0.12-0.18	
		>12% Si 硬化 Cured		700	90	330-380	0.06-0.12	0.08-0.15	0.10-0.13	0.12-0.18	0.14-0.20	0.14-0.24	0.12-0.18	
	铜合金 Copper alloys	>1% Pb 高温 High temperature		750	130	330-380	0.06-0.12	0.08-0.15	0.10-0.13	0.12-0.18	0.14-0.20	0.14-0.24	0.12-0.18	
		易切削 Free cutting		700	110	150-230	0.06-0.12	0.06-0.12	0.08-0.13	0.08-0.13	0.08-0.14	0.08-0.14	0.08-0.13	
		黄铜 Brass		700	90	150-230	0.06-0.12	0.06-0.12	0.08-0.13	0.08-0.13	0.08-0.14	0.08-0.14	0.08-0.13	
		电解铜 Electrolytic copper		700	100	150-230	0.06-0.12	0.06-0.12	0.08-0.13	0.08-0.13	0.08-0.14	0.08-0.14	0.08-0.13	
非金属 Non-metallic	高强度塑料, 纤维塑料 Duroplastic, fiber plastic					150-230	0.06-0.12	0.06-0.12	0.08-0.13	0.08-0.13	0.08-0.14	0.08-0.14	0.08-0.13	
	硬橡胶 Hard rubber					150-230	0.06-0.12	0.06-0.12	0.08-0.13	0.08-0.13	0.08-0.14	0.08-0.14	0.08-0.13	
S	高温合金 Heat-resistant	铁基	退火 Annealed		2600	200	30-60	0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08
			固化 Curing		3100	280	30-60	0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08
		镍基或钴基	退火 Annealed		3300	250	30-60	0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08
			固化 Curing		3300	350	30-60	0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08
	钛合金 Titanium alloys	铸造 Cast		3300	320	30-60	0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08	
		硬化钛合金 (TiAL4V) Alpha + beta alloys cured	Rm 400	1700			30-60	0.05-0.09	0.08-0.13	0.08-0.17	0.10-0.20	0.14-0.22	0.14-0.24	0.10-0.20
H	淬硬钢 Hardened steel	淬硬 Hardened		4600	55HRC	30-60	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09	
		淬硬 Hardened		4700	60HRC	30-60	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09	
	冷硬铸铁 Hardened cast iron	铸造 Cast		4600	400	30-60	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09	
		淬硬 Hardened		4500	55HRC	30-60	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09	

U DRILL 浅孔钻

浅孔钻加工易出现的问题

Common Problems



问题 Problems	可能因素 Possible cause
加工中刀具振动大 Strong vibration	<ul style="list-style-type: none"> 过大的刀具悬伸和进给量 Longer overhang and roughing feed 机床刚性不足 Machine tool lacking of rigidity 工装夹具未紧固 Unfirm fixture
断屑效果差, 拍屑不畅, 导致被加工孔质量差 Poor chip breaking, jam of chip removal cause poor performance	<ul style="list-style-type: none"> 未匹配正确的加工参数 Incorrect parameter 机床内冷压力不足 (最小压力 1.5MPa) Less coolant pressure (mini pressure 1.5MPa)
加工铸铁产品刀片寿命低 Shorter tool life for cast iron material	<ul style="list-style-type: none"> 刀片材质及涂层选择错误 Incorrect insert
在车床上应用, 内刀片容易崩刃 Easy to be tipping	<ul style="list-style-type: none"> 刀具中心与工件回转中心不重合 Misalignment of the center point

INSERTS FOR BORING

镗刀片



A

孔加工刀具 HOLE MAKING TOOLS

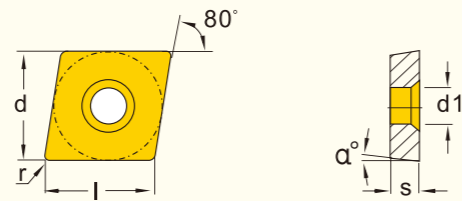
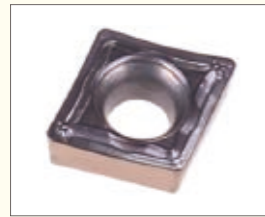
镗刀片 Inserts for Boring

CC 型刀片	A91
CC..	
TB 型刀片	A93
TB..	
TC 型刀片	A93
TC..	
TP 型刀片	A95
TP..	
SC 型刀片	A96
SC..	
SO 型刀片	A97
SO..	
WB 型刀片	A98
WB..	

INSERTS FOR BORING 镗刀片

CC 型刀片

CC..

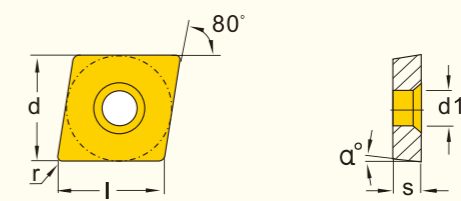
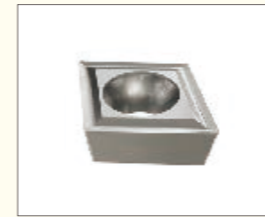


规格型号 Designation	尺寸 Size				加工材质 Material						切削参数推荐 Recommended cutting parameter		
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
CCMT 060204-F2P 1115	6.5	6.35	2.38	0.4	•						120-300	0.10-1.50	0.05-0.20
CCMT 060204-M2P 1115	6.5	6.35	2.38	0.4	•						120-300	0.50-2.50	0.08-0.30
CCMT 060204-M2M 1225	6.5	6.35	2.38	0.4		•					100-250	0.50-2.50	0.08-0.30
CCMT 060204-M2K 1115	6.5	6.35	2.38	0.4			•				150-350	0.50-2.50	0.08-0.30
CCMT 060204-F2S 1215	6.5	6.35	2.38	0.4					•		40-70	0.20-1.50	0.03-0.20
CCMT 060208-M2P 1125	6.5	6.35	2.38	0.8	•						120-280	0.50-2.50	0.08-0.35
CCMT 060208-M2K 1115	6.5	6.35	2.38	0.8			•				120-300	0.50-2.50	0.08-0.35
CCMT 09T304-F2P 1115	9.7	9.525	3.97	0.4	•						150-300	0.20-2.00	0.05-0.20
CCMT 09T304-M2P 1115	9.7	9.525	3.97	0.4	•						120-280	0.50-2.50	0.08-0.30
CCMT 09T304-M2M 1225	9.7	9.525	3.97	0.4		•					100-250	0.50-2.50	0.08-0.30
CCMT 09T304-M2K 1115	9.7	9.525	3.97	0.4			•				150-350	0.50-2.50	0.08-0.30
CCMT 09T304-F2S 1215	9.7	9.525	3.97	0.4					•		40-70	0.20-1.50	0.03-0.20
CCMT 09T308-R1P 1125	9.7	9.525	3.97	0.8	•						120-280	1.00-3.50	0.15-0.40
CCMT 09T308-M2M 1225	9.7	9.525	3.97	0.8		•					120-280	0.50-3.50	0.08-0.30
CCMT 09T308-M2K 1115	9.7	9.525	3.97	0.8			•				150-350	0.50-3.50	0.08-0.35
CCMT 120404-M2P 1125	12.9	12.7	4.76	0.4	•						120-280	0.50-2.50	0.08-0.30
CCMT 120404-M2M 1225	12.9	12.7	4.76	0.4		•					150-300	0.50-2.50	0.08-0.30
CCMT 120404-M2K 1115	12.9	12.7	4.76	0.4			•				150-350	0.50-2.50	0.08-0.30
CCMT 120408-M2P 1125	12.9	12.7	4.76	0.8	•						120-280	0.50-2.50	0.08-0.30
CCMT 120408-R1P 1125	12.9	12.7	4.76	0.8	•						120-280	1.00-3.50	0.15-0.40
CCMT 120408-M2M 1225	12.9	12.7	4.76	0.8		•					100-280	0.50-3.50	0.08-0.30
CCMT 120408-M2K 1115	12.9	12.7	4.76	0.8			•				200-350	0.50-3.50	0.08-0.30

INSERTS FOR BORING 镗刀片

CC 型刀片

CC..

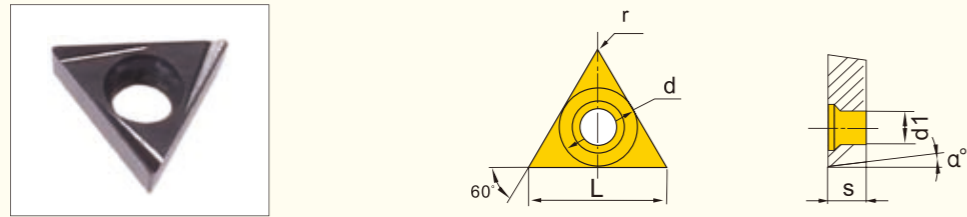


规格型号 Designation	尺寸 Size				加工材质 Material						切削参数推荐 Recommended cutting parameter		
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
CCGT 060204-F4N 1015	6.5	6.35	2.38	0.4				•			300-1000	0.5-2.50	0.1-0.25
CCGT 060204-F5N 1010	6.5	6.35	2.38	0.4				•			300-1000	0.5-2.50	0.1-0.25
CCGT 09T304-F4N 1015	9.7	9.525	3.97	0.4				•			300-1000	0.5-3.00	0.1-0.25
CCGT 09T304-F5N 1010	9.7	9.525	3.97	0.4				•			300-1000	0.5-3.00	0.1-0.25
CCGT 09T308-F4N 1015	9.7	9.525	3.97	0.8				•			300-1000	0.5-3.50	0.1-0.30
CCGT 09T308-F5N 1010	9.7	9.525	3.97	0.8				•			300-1000	0.5-3.50	0.1-0.30
CCGT 120404-F4N 1015	12.9	12.7	4.76	0.4				•			300-1000	0.5-3.00	0.1-0.25
CCGT 120408-F5N 1010	12.9	12.7	4.76	0.8				•			300-1000	0.5-4.00	0.1-0.30
CCGT 120408-F4N 1015	12.9	12.7	4.76	0.8				•			300-1000	0.5-4.00	0.1-0.30

INSERTS FOR BORING 镗刀片

TB 型刀片

TB..



规格型号 Designation	尺寸 Size				加工材质 Material						切削参数推荐 Recommended cutting parameter		
	l	r	s	d1	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
TBGT 060102-F7G 2315	6.9	0.2	1.59	2.3	•						100-250	0.08-0.15	0.05-0.10
TBGT 060102-F7K 1115	6.9	0.2	1.59	2.3		•					100-300	0.08-0.15	0.05-0.10
TBGT 060102-F7N 2020	6.9	0.2	1.59	2.3			•				150-400	0.08-0.15	0.05-0.15
TBGT 060102-F7P 1225	6.9	0.2	1.59	2.3	•	•			•		100-300	0.08-0.15	0.05-0.10
TBGT 060104-F7G 2315	6.9	0.4	1.59	2.3	•						100-250	0.10-0.20	0.08-0.15
TBGT 060104-F7K 1115	6.9	0.4	1.59	2.3		•					100-300	0.10-0.20	0.08-0.15
TBGT 060104-F7N 2020	6.9	0.4	1.59	2.3			•				150-400	0.10-0.20	0.08-0.15
TBGT 060104-F7P 1225	6.9	0.4	1.59	2.3	•	•			•		100-300	0.10-0.20	0.08-0.15
TBGT 060102-C1 CD05 ①	6.9	0.2	1.59	2.3				•			600-2000	0.10-0.20	0.05-0.25
TBGT 060104-C1 CD05 ①	6.9	0.4	1.59	2.3				•			600-2000	0.10-0.20	0.05-0.25
TBGT 060102-C1 CB05 ②	6.9	0.2	1.59	2.3				•			150-400	0.08-0.15	0.05-0.25
TBGT 060104-C1 CB05 ②	6.9	0.4	1.59	2.3				•			150-400	0.08-0.25	0.05-0.25

- 带①为 PCD 刀片。
- 带②为 CBN 刀片。

TC 型刀片

TC..

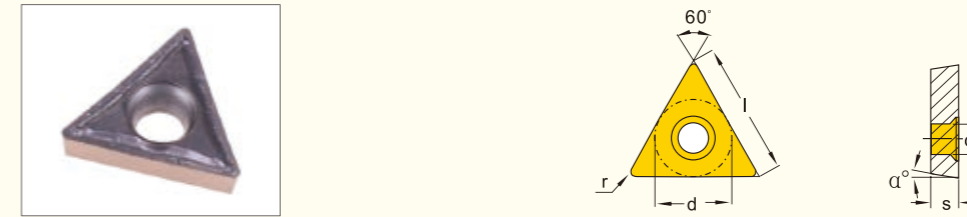


规格型号 Designation	尺寸 Size				加工材质 Material						切削参数推荐 Recommended cutting parameter		
	l	r	s	d1	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
TCMT 06T102F-F7P 2125	6	0.2	1.98	2.3	•						100-300	0.10-0.15	0.05-0.15
TCMT 06T102F-F7M 2120	6	0.2	1.98	2.3		•					100-300	0.10-0.15	0.05-0.15
TCMT 06T102F-F7K 2025	6	0.2	1.98	2.3			•				100-300	0.10-0.15	0.05-0.15
TCMT 06T104F-F7P 2116	6	0.4	1.98	2.3	•						100-300	0.10-0.20	0.05-0.15
TCMT 06T104F-F7M 2210	6	0.4	1.98	2.3		•					100-300	0.10-0.20	0.05-0.15
TCMT 06T104F-F7K 2120	6	0.4	1.98	2.3			•				100-300	0.10-0.20	0.05-0.15
TCMT 090202F-F7P 2116	9	0.2	2.38	2.45	•						120-300	0.10-0.15	0.05-0.20
TCMT 090204F-F7P 2116	9	0.4	2.38	2.45	•						120-300	0.10-0.20	0.05-0.20
TCMT 090204F-F7M 2216	9	0.4	2.38	2.45		•					120-300	0.10-0.20	0.05-0.20
TCMT 090204F-F7K 2120	9	0.4	2.38	2.45			•				120-300	0.10-0.20	0.05-0.20

INSERTS FOR BORING 镗刀片

TC 型刀片

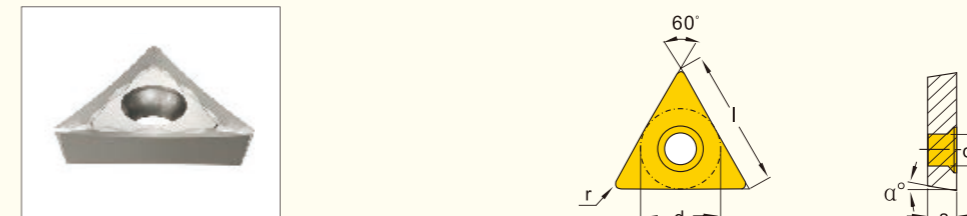
TC..



规格型号 Designation	尺寸 Size				加工材质 Material						切削参数推荐 Recommended cutting parameter		
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
TCMT 110204-M2P 1115	11	6.35	2.38	0.4	•						120-300	0.50-2.50	0.08-0.30
TCMT 110204-F2M 1225	11	6.35	2.38	0.4		•					100-220	0.20-1.50	0.03-0.20
TCMT 110204-F2K 1115	11	6.35	2.38	0.4			•				150-350	0.50-2.50	0.08-0.30
TCMT 16T304-M2P 1125	16.5	9.525	3.97	0.4	•						120-280	0.50-2.50	0.08-0.30
TCMT 16T304-M2M 1215	16.5	9.525	3.97	0.4		•					120-300	0.50-2.50	0.08-0.30
TCMT 16T304-M2K 1115	16.5	9.525	3.97	0.4			•				150-350	0.50-2.50	0.08-0.30
TCMT 16T308-M2P 1125	16.5	9.525	3.97	0.8	•						120-280	0.50-3.00	0.10-0.30
TCMT 16T308-M2M 1225	16.5	9.525	3.97	0.8		•					100-220	0.50-3.00	0.10-0.30
TCMT 16T308-M2K 1115	16.5	9.525	3.97	0.8			•				150-350	0.50-3.00	0.10-0.30

TC 型刀片

TC..

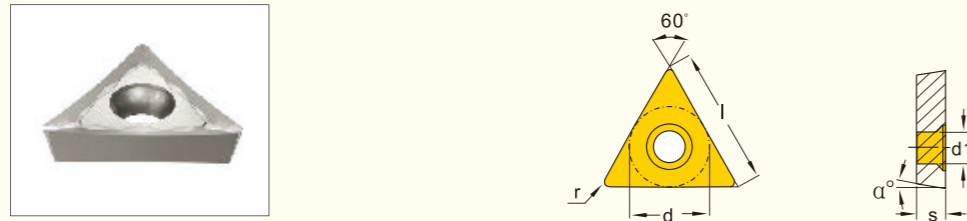


规格型号 Designation	尺寸 Size				加工材质 Material						切削参数推荐 Recommended cutting parameter		
	l	r	S	di	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
TCGT 06T104-F9N 2020	6	0.4	1.98	2.3				•			300-1000	0.2-0.40	0.05-0.30
TCGT 090204-F9N 2020	9	0.4	2.38	2.45				•			300-1000	0.2-0.40	0.05-0.30

INSERTS FOR BORING 镗刀片

TC型刀片

TC..

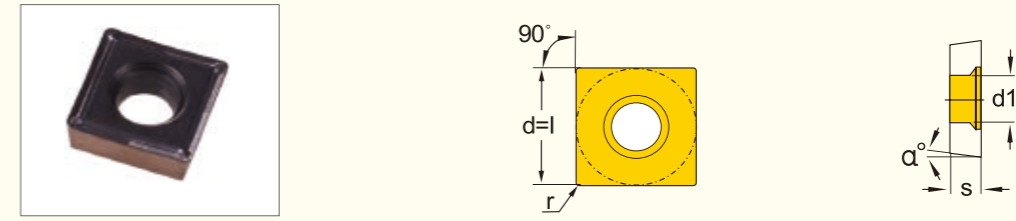


规格型号 Designation	尺寸 Size				加工材质 Material						切削参数推荐 Recommended cutting parameter		
	l	d _i	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
TCGT 110204-F4N 1025	11	6.35	2.38	0.4	•						300-1000	0.20-3.00	0.05-0.30
TCGT 110204-F5N 1010	11	6.35	2.38	0.4	•						300-1000	0.20-3.00	0.05-0.30
TCGT 110208-F5N 1010	11	6.35	2.38	0.8	•						300-1000	0.20-3.50	0.05-0.30
TCGT 16T304-F5N 1010	16.5	9.525	3.97	0.4	•						300-1000	0.50-3.50	0.1-0.30
TCGT 16T304-F4N 1015	16.5	9.525	3.97	0.4	•						300-1000	0.50-3.50	0.1-0.30
TCGT 16T308-F5N 1010	16.5	9.525	3.97	0.8	•						300-1000	0.50-4.00	0.1-0.30

INSERTS FOR BORING 镗刀片

SC型刀片

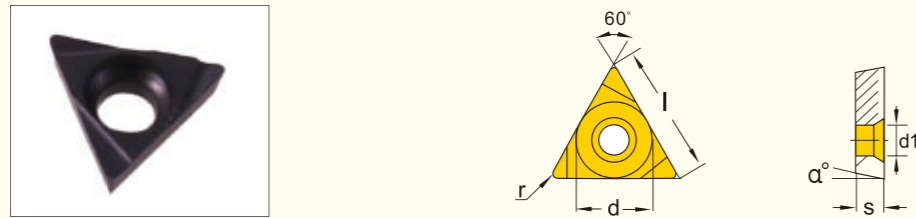
SC..



规格型号 Designation	尺寸 Size				加工材质 Material						切削参数推荐 Recommended cutting parameter		
	l	r	s	d ₁	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
SCMT 09T304-M2P 1125	9.525	9.525	3.97	0.4	•						120-280	0.40-2.00	0.08-0.20
SCMT 09T304-M2M 1115	9.525	9.525	3.97	0.4		•					120-300	0.40-2.00	0.08-0.20
SCMT 09T304-M2K 1115	9.525	9.525	3.97	0.4			•				120-300	0.40-2.00	0.08-0.20
SCMT 09T308-M2P 1125	9.525	9.525	3.97	0.8	•						120-280	0.50-2.50	0.10-0.30
SCMT 09T308-M2M 1125	9.525	9.525	3.97	0.8		•					120-280	0.50-2.50	0.10-0.30
SCMT 09T308-M2K 1115	9.525	9.525	3.97	0.8			•				120-300	0.50-2.50	0.10-0.30
SCMT 120408-M2P 1115	12.7	0.8	4.76	5.5	•						150-300	0.50-3.00	0.10-0.30
SCMT 120408-M2M 2210	12.7	0.8	4.76	5.5		•					150-300	0.50-3.00	0.10-0.30
SCMT 120408-M2K 1115	12.7	0.8	4.76	5.5			•				150-300	0.50-3.00	0.10-0.30

TP型刀片

TP..

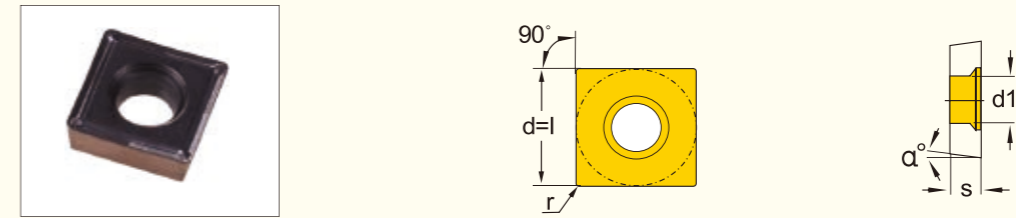


规格型号 Designation	尺寸 Size				加工材质 Material						切削参数推荐 Recommended cutting parameter		
	l	d _i	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
TPGX 090202-F6G 1310	9.6	5.56	2.38	0.2	•						120-300	0.08-0.15	0.05-0.12
TPGX 090202-F5S 2125	9.6	5.56	2.38	0.2	•	•					70-260	0.08-0.15	0.05-0.12
TPGX 090204-F6G 1310	9.6	5.56	2.38	0.4	•						120-300	0.10-0.20	0.08-0.15
TPGX 090204-F5K 1115	9.6	5.56	2.38	0.4			•				120-300	0.10-0.20	0.08-0.15
TPGX 090204-F5S 2125	9.6	5.56	2.38	0.4	•	•					70-260	0.10-0.20	0.08-0.15
TPGX 090204-F1N 1010	9.6	5.56	2.38	0.4				•			300-1000	0.10-0.20	0.08-0.15
TPGX 110302-F6G 1310	11	6.35	3.18	0.2	•						120-300	0.08-0.15	0.05-0.12
TPGX 110302-F5S 2125	11	6.35	3.18	0.2	•	•					70-260	0.08-0.15	0.05-0.12
TPGX 110304-F6G 1310	11	6.35	3.18	0.4	•						120-300	0.10-0.20	0.08-0.15
TPGX 110304-F5K 1115	11	6.35	3.18	0.4			•				120-300	0.10-0.20	0.08-0.15
TPGX 110304-F5S 2125	11	6.35	3.18	0.4	•	•					70-260	0.10-0.20	0.08-0.15
TPGX 110304-F1N 1010	11	6.35	3.18	0.4				•			300-1000	0.10-0.20	0.08-0.15
TPGX 090204-C1 CD05 ①	9.6	5.56	2.38	0.4				•			600-2000	0.10-0.30	0.05-0.25
TPGX 110304-C1 CD05 ①	11	6.35	3.18	0.4				•			600-2000	0.10-0.30	0.05-0.30
TPGX 090204-C1 CB05 ②	9.6	5.56	2.38	0.4				•			150-400	0.08-0.25	0.05-0.20
TPGX 110304-C1 CB05 ②	11	6.35	3.18	0.4				•			150-400	0.08-0.25	0.05-0.20

• 带①为PCD刀片。
• 带②为CBN刀片。

SC型刀片

SC..

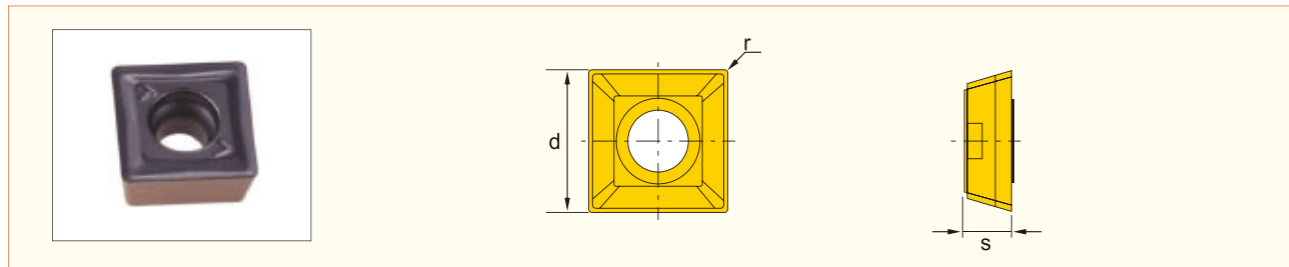


规格型号 Designation	尺寸 Size				加工材质 Material						切削参数推荐 Recommended cutting parameter		
	l	r	s	d ₁	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
SCGT 09T304-F5N 1010	9.52	0.4	3.97	4.4						•	300-1000	0.40-2.50	0.08-0.30
SCGT 09T308-F5N 1010	9.52	0.8	3.97	4.4						•	300-1000	0.50-3.00	0.10-0.30
SCGT 120408-F9N 2020	12.7	0.8	4.76	5.5						•	300-1000	0.50-3.00	0.15-0.30

INSERTS FOR BORING 镗刀片

SO 型刀片

SO..



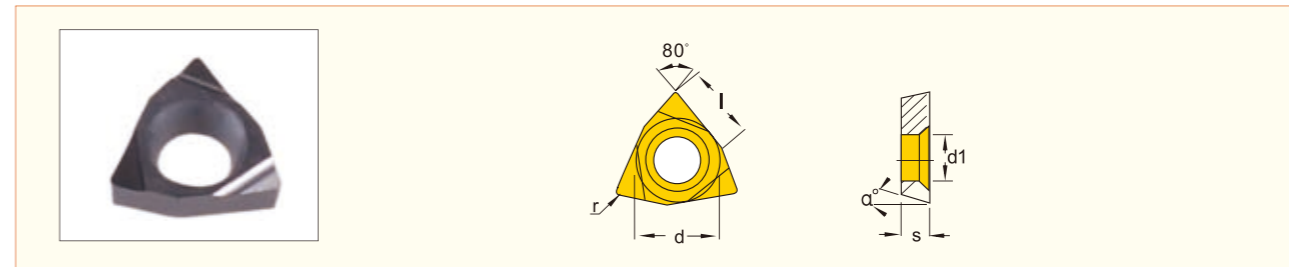
规格型号 Designation	尺寸 Size			加工材质 Material						切削参数推荐 Recommended cutting parameter	
	r	S	d	P	M	K	N	S	H	ap(mm)	fz(mm/z)
SOMX 060304-D4G 2225	0.4	3.2	6.2	•	•	•	•	•		0.50-2.50	0.08-0.20
SOMX 070305-D4G 2225	0.5	3.6	7.7	•	•	•	•	•		0.70-2.50	0.15-0.25
SOMT 09T306-D4G 2225	0.6	3.81	9	•	•	•	•	•		0.80-3.00	0.08-0.20
SOMT 120408-D4G 2225	0.8	4.76	12.7	•	•	•	•	•		0.80-3.50	0.08-0.25
SOMT 160512-D4G 2225	1.2	5.56	16	•	•	•	•	•		0.80-4.00	0.08-0.30

- D4- 通用型断屑槽，适用于中 - 高速进给。
- Insert with different materials should be ordered separately.

INSERTS FOR BORING 镗刀片

WB 型刀片

WB..



规格型号 Designation	尺寸 Size				加工材质 Material						切削参数推荐 Recommended cutting parameter		
	l	r	s	d1	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
WBGT 060102-F6G 2225	2.18	0.2	1.59	2.24	•	•	•	•	•		70-200	0.08-0.15	0.05-0.12
WBGT 060102-F1N 1010	2.18	0.2	1.59	2.24				•			300-800	0.10-0.25	0.05-0.12
WBMT 060102-F6P 2220	2.18	0.2	1.59	2.24	•						100-250	0.08-0.15	0.05-0.12

TECHNICAL INFORMATION

技术资料



A

孔加工刀具 HOLE MAKING TOOLS

技术资料 Technical Information

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双刃粗镗刀说明

Introduction of Two-flute Rough Boring Tool

短锥接口:

过定位配合使连接精度更高,刚性更好,并采用模块式连接结构连接方式多样化,减少库存量。

Short Cone Connection

High rigidity, high accuracy, economical inventory due to the interference fit connection method

碟形垫片:

刀座锁紧螺栓配有碟形垫片使刀座带有一定预紧力保证刀座调整精度。

Disk Spring:

There is a butterfly shim for the cartridge so that it will have pre-tightening force which is to make sure the high precision.

增加倒角环:

可在刀体上安装倒角环使粗镗、倒角一次完成,提高效率,降低成本。

Additional chamfering Ring:

There is a chamfering ring which can make sure roughing and chamfering can be ma-chined just at one time, which can enhance efficiency and lower cost.

矩形导轨:

刀座调整时左右不摆,轴向不变,且连接稳定。

Rectangular Slot Guide:

It can make sure the cartridge more stable when adjusting

径向微调:

借助对刀仪器调整精度可达 0.01mm.

Radial Micro-adjusting:

The accuracy can reach 0.01mm by the help of preseter.

更换刀座:

可完成通孔、盲孔镗削,倒角加工及实现双刃粗镗、单刃粗镗、反镗,并通过错齿排布,扩大加工范围。

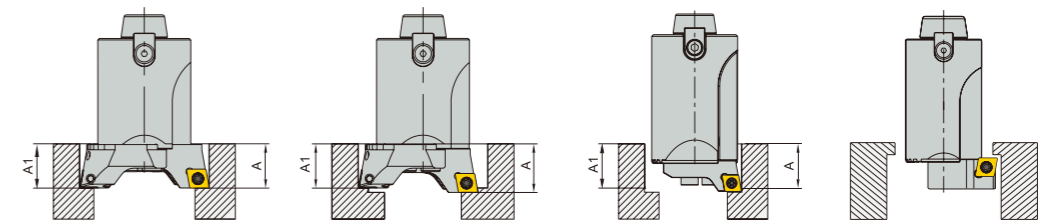
Changing Cartridges:

It can machine for the through, blind hole and chamfering if changing different cartridges. Also there is single and twin cutters and staggered tooth boring for wider machining range.



粗镗刀模块应用示例

Example Application of Rough Boring Tool



双刃镗

Boring with Two Teeth

错齿镗

Staggered tooth boring

单刃镗

Single tooth

反镗

Back boring

双刃镗: 两个切削刃, 并且具有相同的切深可获得最高金属去除率, 推荐使用;

错齿镗: 通过两个不同高度的镗头形成两个高低切削刃, 进给量减半, 可获得最大总切深;

单刃镗: 一个切削刃, 进给量减半。可获得最大的容屑空间, 用于切屑大且不易排除的场合。镗头若经过精确调整, 可作精镗使用;

反镗: 粗镗刀配置矩形槽反镗刀座, 即可轻松实现反镗粗加工, 调整自如、稳定、过孔直径 D 满足 $D \geq (D_c + D_1) / 2 + 1$ 。

Boring tool with two teeth: due to the two cutting edges, the metal is removed rapidly when there are two same cutting depths. Recommended

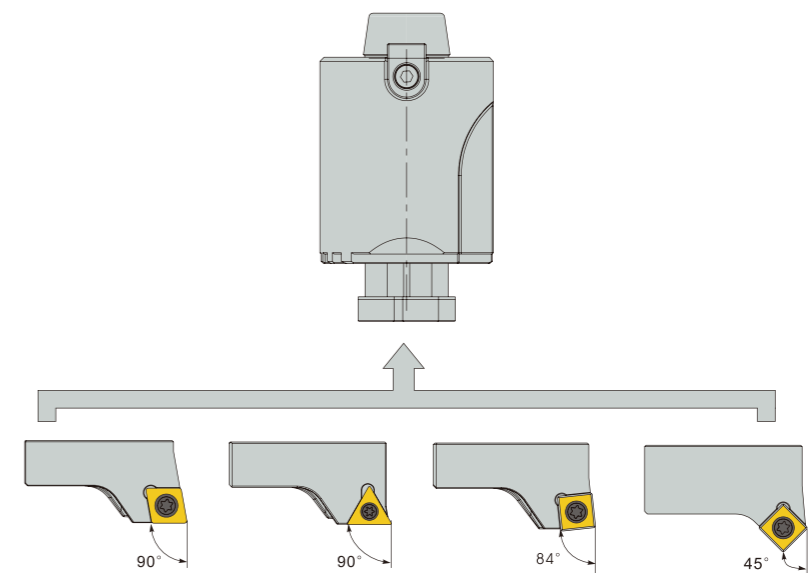
Staggered tooth boring: the two different cutting edges (high and low) can make the max cutting depth while half of feed.

Single tooth: single cutting edge with half of feed so that there is greatest chip space. It can be used as precision boring tool if adjusting it accurately.

Back boring: it can be back boring if assembling related cartridge. Also it is easy to be adjusted. Via hole diameter $D \geq (D_c + D_1) / 2 + 1$.

刀座的角度

Assembling Point of View of Cartridge



粗镗刀使用说明

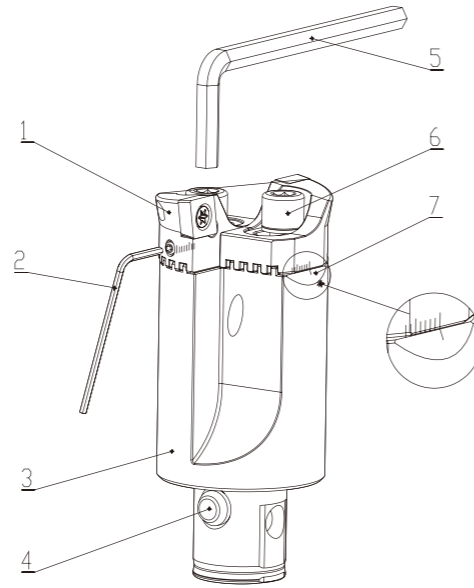
Instructions of Rough Boring Tool

各项说明:

1. 粗镗刀座
2. 调整扳手
3. 刀体
4. 扭力栓
5. 锁紧扳手
6. 刀座锁紧螺钉
7. 粗调刻度线

Features:

- 1.Cartridge for rough boring
- 2.Allen key for adjusting screw
- 3.Boring tool body
- 4.Expanding pin
- 5.Lock wrench
- 6.Clamping screw for cartridge
- 7.Rough adjusting scale mark



调整步骤:

1. 松开 6# 刀座锁紧螺钉;
2. 根据刻度线粗调两刀座对称, 两刀尖尺寸小于要加工的尺寸 0.5mm 左右;
3. 拧紧 6# 刀座锁紧螺钉, 使刀座锁紧; 拧动 2# 调整螺钉, 顶紧在 6# 刀座锁紧螺钉上, 以防让刀;
4. 试镗, 测量加工孔的尺寸与要求尺寸比较, 计算出偏小数值;
5. 稍微松开 6# 刀座锁紧螺钉, 使 2# 调整螺钉可以推动刀座移动;
6. 顶紧 2# 调整螺钉用百分表对比, 使移动量至计算出的偏小数值;
7. 锁紧 6# 刀座锁紧螺钉, 加工工件至尺寸要求。

Adjustment Steps:

- 1.Loosening the 6# clamping screw;
- 2.Rough adjusting the insert holders as the scale mark, and the distance between the two bits should be 0.5mm shorter than the one of the demanded distance;
- 3.Tighten the 2# clamping screw to lock the cartridge; then rotate the 3# adjusting screw,preload the 2# clamping screw to avoid the cutter relieving;
- 4.Testing run and comparing the testing size and actual requirements, then figure out the smaller number;
- 5.Loosen the 6# clamping screw lightly, so that the 2# adjusting screw for cartridge can make the cartridge moved;
- 6.Pre-load the 3# adjusting screw, and then compare by the dial gage to make the amount of the payment come to the smaller number;
- 7.Lock the 6# screw, and then machining the work piece as the demanded dimension.
- 6.The boring tool must be turned by anticlockwise when back boring.

调整过程 Adjustment Process:

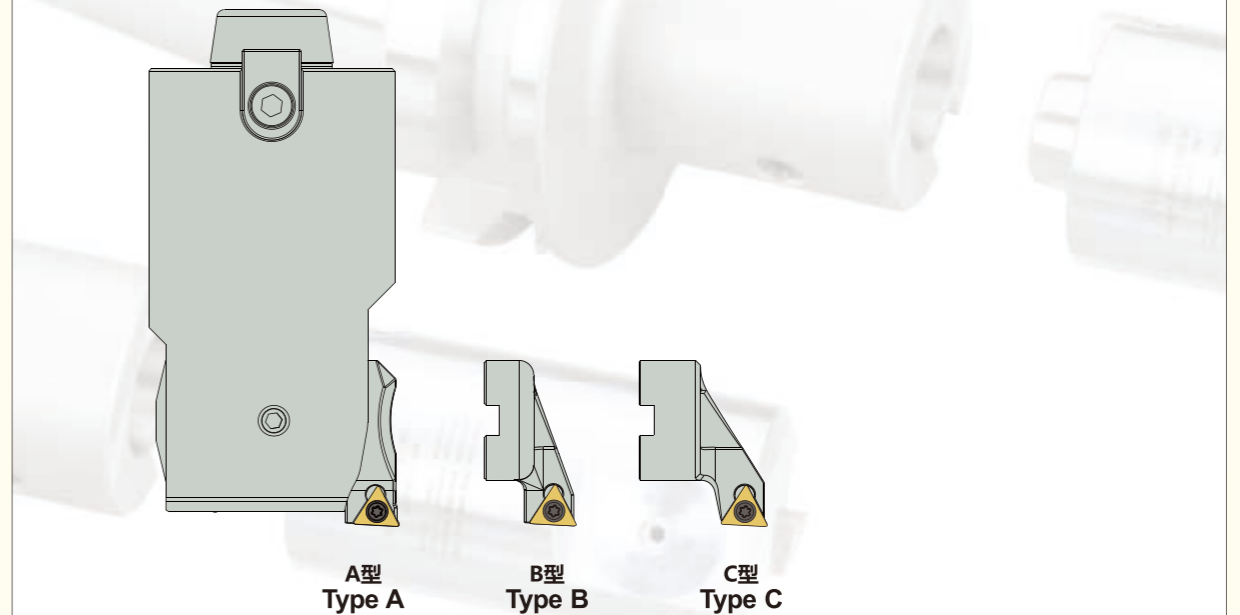


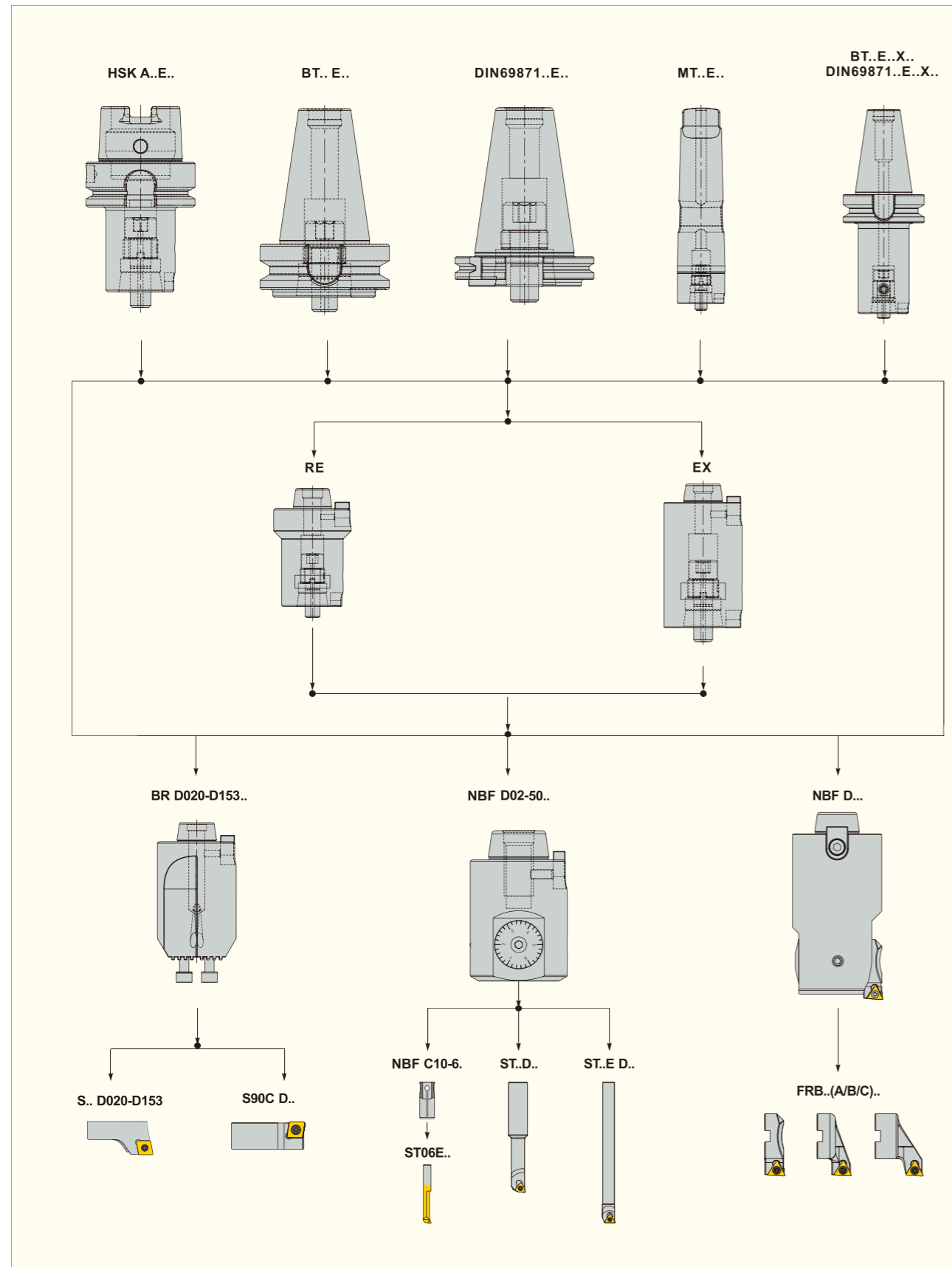
单刃精镗刀说明

Instructions of Rough Boring Tool



- 可精确调整一个刻度为 $\Phi 0.01\text{mm}$
- 紧凑的设计可达到较高的加工精度如 IT6、IT7
- 可进行正反镗加工
- 较广的加工范围: 小孔径精镗刀 D2-D50mm
小孔径硬质合金杆镗刀为 L/D=6-8
杆式精镗刀为 D20-D212mm
杆式反镗为 D30-D212mm
套镗范围为 D2-D86mm
桥式精镗刀为 D150-D4200mm
- 柄部形式可使用: HSK A100/63、BT50/40、DIN69871 50/40、米制 80 柄、莫氏锥柄
- It can be micro adjusted and the dial each of which is 0.01mm on diameter.
- It can meet the higher precision due to eliable design.
- It can be general & back boring.
- Wider machining range: diameter of micro-finish boring bar is D2-D50mm
the length-diameter ratio of mini solid carbide boring bar is L/D=6-8
machining range of finish boring tool with boring bar is D20-D212mm
solid carbide finish boring bar is D20-D76mm, L/D=6-10
diameter of back boring bar is D30-D212mm
diameter of modular adapter for pin turning is D2-D86mm
diameter of large diameter precision boring tool is D150-D4200mm
- Adaptors could be: HSK A 100/63, BT50/40, DIN69871 50/40, metric 80 system, and Morse taper adaptor.



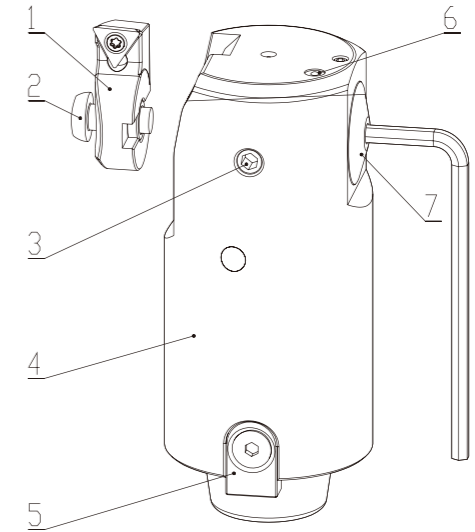


各项说明:

1. 精镗刀头
2. 刀头锁紧螺钉
3. 锁紧螺钉
4. 精镗刀体
5. 传动键
6. 注油嘴
7. 刻度盘

Features:

- 1.Cartridge
- 2.Clamping screw for cartridge
- 3.Lock Screw
- 4.Boring tool body
- 5.Expanding pin
- 6.Oil hole
- 7.Micro-adjustable knob



调整步骤:

1. 把 1# 精镗刀头凹槽按正确方向对准卡入镗头内，并锁紧 2# 刀头锁紧螺钉；
2. 逆时针旋转松开 3# 锁紧螺钉，用内六角扳手转动刻度盘调整刀头到切削直径所需要的位置，然后顺时针旋转 3# 锁紧螺钉锁紧刀具，刻度盘每转动一格代表 0.01mm 的直径切深变化，（顺时针旋转——增大，逆时针旋转——减小）；
3. 刀头镗孔范围查看刀体标记。（切莫旋转刻度盘超出范围）；
4. 定期保养，注润滑油（6# 注油嘴注入）；
5. 用红漆封堵的地方不能拆动，否则会损坏镗头；
6. 反镗加工时，刀具旋转方向必须为反转。

Adjustment Steps:

- 1.Install the 1# cartridge firmly according to the correct direction, and then lock the 2# clamping screw.
- 2.Loosen the clamping screw (3#), adjust the micro-adjustable knob with the allen key to meet the demanded diameter and then rotate the clamping screw (3#) by clockwise direction. It is 0.01mm in diameter when rotating per graduation. (Rotate the graduated dial by clockwise is to increase the processing diameter and by anti-clockwise is to decrease the processing diameter);
- 3.Please see the mark on the body which indicates the boring range (Be sure not to be out of the adjustment range);
- 4.Do regular scheduled maintenance, dip it in lube oil (dipping the oil at the 6# oil hole);
- 5.Do not open the place where is sealed by the red paint, otherwise the accuracy of boring head will be damaged;
- 6.The boring tool must be turned by anticlockwise when back boring.

调整过程 Adjustment Process:

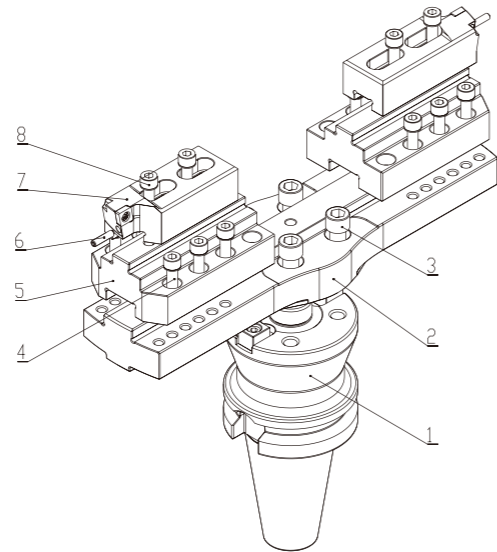


桥式粗镗刀使用说明

Instructions of Rough Boring Tool with Bridge

各项说明: Features:

- | | |
|-----------|--|
| 1. 刀柄 | 1. Adaptor |
| 2. 刀桥 | 2. Bridge |
| 3. 刀桥锁紧螺钉 | 3. Clamping screw for adaptor |
| 4. 滑块锁紧螺钉 | 4. Clamping screw for cartridge holder |
| 5. 滑块 | 5. Cartridge holder |
| 6. 刀座调整螺钉 | 6. Adjusting screw for cartridge |
| 7. 刀座 | 7. Cartridge |
| 8. 刀座锁紧螺钉 | 8. Clamping screw for cartridge |



调整步骤:

1. 松开 4# 滑块锁紧螺钉;
2. 根据刻度线粗调 5# 滑块与 7# 刀座, 刀尖尺寸小于要加工尺寸 0.5mm 左右, [注意: 通过复合调整 5# 滑块, 7# 刀座和 4# 滑块锁紧螺钉位置保证粗调尺寸];
3. 拧紧 4# 滑块锁紧螺钉及 8# 刀座锁紧螺钉, 拧动 6# 刀座调整螺钉, 顶紧在 8# 刀座锁紧螺钉杆部, 以防让刀;
4. 试镗, 测量加工孔的尺寸与要求尺寸比较, 计算出偏小数值;
5. 稍微松开 8# 刀座锁紧螺钉, 使 6# 刀座调整螺钉可以推动 7# 刀座移动;
6. 使用扳手旋 6# 刀座调整螺钉用百分表对比, 使移动量至计算出的偏小数值;
7. 使用扳手套紧 8# 刀座锁紧螺钉, 加工工件至尺寸。

Adjustment Steps:

1. Loosen the 4# clamping screw for the cartridge holder;
2. Rough adjusting the 5# cartridge holder and 7# cartridge as the scale mark, and the distance between the two bits should be 0.5mm shorter than the one of the demanded distance (note: by adjusting the position of cartridge & cartridge holder and clamping screw for the mobile slide to be sure the adjusting size);
3. Tighten the 4# balance block and 8# clamping screw for the cartridge, and rotate the 6# adjusting screw for cartridge, preload the 8# clamping screw for cartridge and 4# clamping screw for balance block to avoid to the cutter relieving;
4. Testing run and comparing the testing size and actual requirements, then figure out the smaller number;
5. Loosen the 5# clamping screw lightly, so that the 6# adjusting screw for cartridge can make the 7# cartridge moved;
6. Rotate the 6# adjusting screw for cartridge, compared by the dial gage to figure out the smaller number;
7. Lock the 8# screw, and then machining the work piece as the demanded dimension.

调整过程 Adjustment Process:



1. 松开滑块锁紧螺钉
Loose the clamping screw for the balance block

2. 松开刀座锁紧螺钉
Loose the clamping screw for the cartridge

3. 按照刻度粗调刻度线, 进行粗调
Rough adjusting as the

4. 进行刀座预锁紧
Pre-load the cartridge and cartridge holder

5. 拧动刀座上调整螺钉
Rotate the adjusting screw for the cartridge

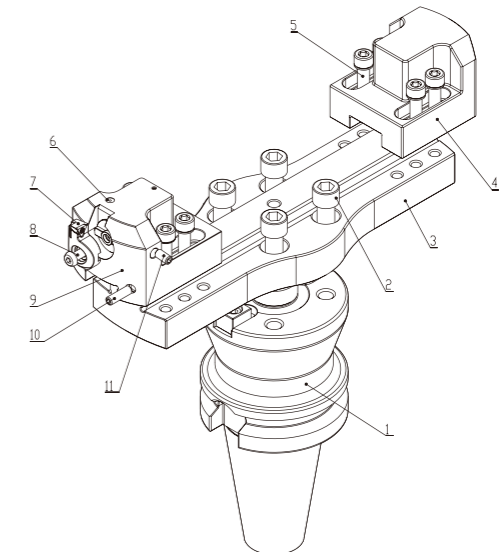
6. 滑块锁紧螺钉锁紧刀座锁紧螺钉锁紧
Lock the clamping screws both on the cartridge holder and cartridge

桥式精镗刀使用说明

Instructions of Precision Boring Tool with Bridge

各项说明: Features:

- | | |
|------------|-----------------------------------|
| 1. 刀柄 | 1. Adaptor |
| 2. 刀桥锁紧螺钉 | 2. Clamping screw for adaptor |
| 3. 刀桥 | 3. Bridge |
| 4. 配重块 | 4. Balance block |
| 5. 锁紧螺钉 | 5. Clamping screw |
| 6. 注油嘴 | 6. Oil hole |
| 7. 精镗刀头 | 7. Cartridge |
| 8. 刀头锁紧螺钉 | 8. Adjusting screw for cartridge |
| 9. 精镗刀体 | 9. Precision boring body |
| 10. 刀体调节螺钉 | 10. Adjusting screw for tool body |
| 11. 锁紧螺钉 | 11. Lock screw |



调整步骤:

1. 松开 5# 锁紧螺钉;
2. 根据刻度线粗调 9# 精镗刀体, 刀尖尺寸小于要加工尺寸 0.5mm 左右, [注意: 通过复合调整 7# 精镗刀头与 9# 精镗刀体来保证粗调尺寸来保证精调尺寸];
3. 拧紧 5# 锁紧螺钉, 拧动 10# 刀体调节螺钉, 顶紧锁紧螺钉杆部, 以防让刀;
4. 用同样方法调整 4# 配重块, 调好动平衡;
5. 锁紧 11# Lock 锁紧螺钉, 试镗, 测量加工孔的尺寸与要求尺寸比较, 计算出偏小数值;
6. 松开 11# Lock 锁紧螺钉, 旋刻度盘 (刻度盘每转动一小格代表 0.01mm 的直径切深变化), 使移动量至计算出的偏小数值;
7. 锁紧 10# Lock 锁紧螺钉, 加工工件至尺寸;
8. 定期保养, 注润滑油 (从 6# 注油嘴处注入)。

Adjustment Steps:

1. Loosen the 5# clamping screw;
2. Rough adjusting the 5# cartridge holder and 7# cartridge as the scale mark, and the distance between the two bits should be 0.5mm shorter than the one of the demanded distance (note: by adjusting the 7# cartridge and 9# boring tool body to be sure the adjusting size);
3. Tighten the 5# clamping screw, and rotate the 10# adjusting screw for tool body, preload the 5# clamping screw to avoid to the cutter relieving;
4. Adjust the balance block as the same process to be sure the dynamic balance;
5. Lock the 11# lock screw tightly, test run and comparing the testing size and actual requirements, then figure out the smaller number;
6. Loosen the 11# lock screw lightly, rotate the micro-adjustable knob (it is 0.01mm in diameter when rotating per graduation) to figure out the smaller number.
7. Lock the 8# screw, and then machining the work piece as the demanded dimension;
8. Do regular scheduled maintenance, dip it in lube oil (dipping the oil at the 6# oil hole).

调整过程 Adjustment Process:



1. 安装精镗刀头
Install the cartridge

2. 松开精镗刀体锁紧螺钉
Loosen clamping screw for the boring body

3. 按照粗调刻度线, 进行粗调, 粗调后锁紧精镗刀体
Rough adjusting as the scale mark

4. 松开 Lock 锁紧螺钉
Loosen LOCK screw

5. 微调刻度盘, 调整精度 0.01mm/格
Micro adjust the adjustable knob 0.01mm per dial

6. 微调至尺寸后, 锁紧 Lock 锁紧螺钉
After adjustment lock the clamping screw

TECHNICAL INFORMATION 技术资料

模块式 E 接口标准刀柄备件

Spare Parts and Accessories for Adaptor with Type E Connection

标准主柄备件

Spare Parts for Basic Adaptor



D2	螺纹环锁紧螺钉 Clamping screw for thread ring	轴向拉紧螺钉 Axial tensioning		螺纹环 Thread ring	轴向拉紧螺钉扳手 Wrench for axial tighten	
		ISO40	ISO50		ISO40	ISO50
D2=25	SR51 M4x8	SR155 M8x30.C	SR155 M8x30.C	RG05 M14x1	KEY01 M6	KEY01 M6
D2=32	SR51 M4x8	SR155 M8x30.C	SR155 M8x30.C	RG05 M14x1	KEY01 M6	KEY01 M6
D2=40	SR51 M5x10	SR55 M12x40.C	SR55 M12x40.C	RG05 M20x1.5	KEY01 M10	KEY01 M10
D2=50	SR51 M5x10	SR55 M12x40.C	SR55 M12x40.C	RG05 M20x1.5	KEY01 M10	KEY01 M10
D2=63	SR51 M6x10	SR61 M16x45.C	SR55 M16x45.C	RG05 M26x1.5	KEY01 M12	KEY01 M14
D2=80	SR51 M6x12	SR62 M20x50.C	SR55 M20x50.C	RG05 M33x1.5	KEY01 M12	KEY01 M16

- 订货示例: 1 件 SR55 M8x30.C.
- Orderings ample1: piece SR55 M8x30.C

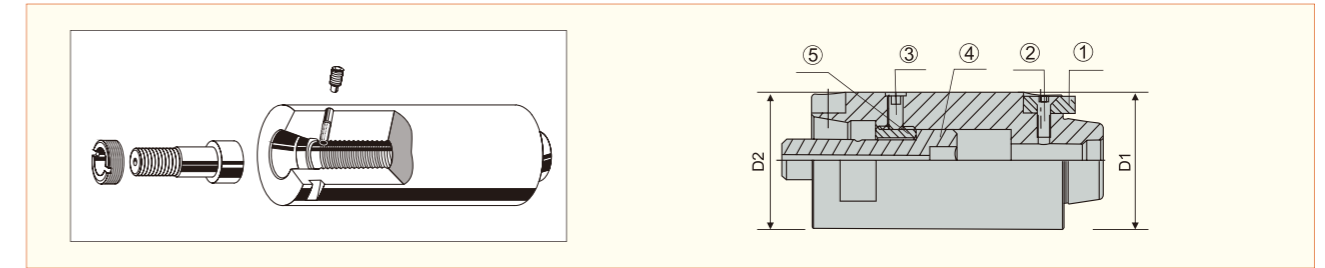
TECHNICAL INFORMATION 技术资料

模块式 E 接口标准刀柄备件

Spare Parts and Accessories for Adaptor with Type E Connection (Long Version)

E 接口中间件备件

Spare Parts for Extension



D1	平键 Flat key	平键锁紧螺钉 Clamping screw for flat key	平键锁紧螺钉扳手 Wrench for clamping screw
D1=25	PL03 8x2	SR57 M3X6	KEY01 M2
D1=32	PL03 8x6	SR57 M3x10	KEY01 M2
D1=40	PL03 10x5	SR57 M4x12	KEY01 M2.5
D1=50	PL04 12x9	SR55 M5x12	KEY01 M4
D1=63	PL04 14x12	SR55 M5x12	KEY01 M4
D1=80	PL04 16x14	SR55 M6x16	KEY01 M5

D2	螺纹环锁紧螺钉 Clamping screw for thread ring	轴向拉紧螺钉 Axial tensioning		轴向拉紧螺钉扳手 Wrench for axial tighten	螺纹环 Thread ring/Wrench for axial tighten
		接长杆 Extension	缩径杆 Reduction		
D2=25	SR51 M4x6	SR61 M8x30	SR61 M8x30	KEY01 M5	RG05 M14x1
D2=32	SR51 M4x8	SR61 M8x30	SR61 M8x30	KEY01 M5	RG05 M14x1
D2=40	SR51 M5x10	SR61 M12x40	SR55 M12x40	KEY01 M10	RG05 M20x1.5
D2=50	SR51 M6x12	SR61 M12x40	SR55 M12x40	KEY01 M10	RG05 M20x1.5
D2=63	SR51 M6x12	SR61 M16x45	SR55 M16x45	KEY01 M14	RG05 M26x1.5
D2=80	SR51 M6x12	SR61 M20x50	-	KEY01 M16	RG05 M33x1.5

- 内冷产品配套的轴向拉紧螺钉型号后面 ".C", 若需单独订购备件的请在轴向拉紧螺钉型号后加上 ".C".
- 订货示例: 1 件 SR61 M8x30.C.
- Please add ".C" at the end of designation by internal coolant hole requirement.
- Orderings ample1: piece SR55 M8x30.C.

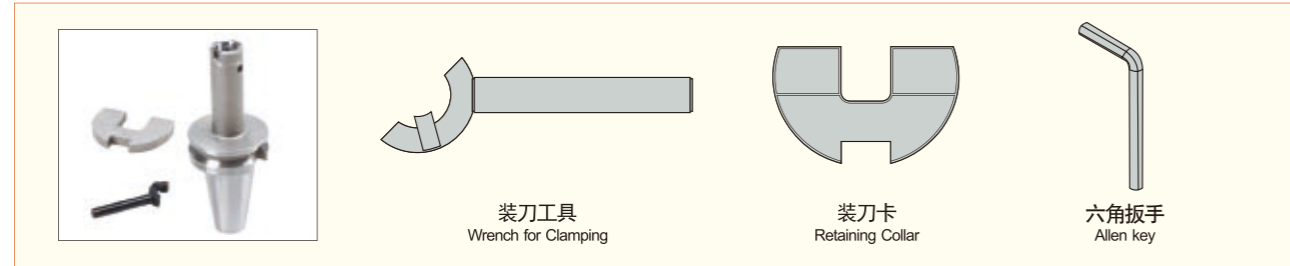
TECHNICAL INFORMATION 技术资料

模块式 E 接口标准刀柄备件

Spare Parts and Accessories for Adaptor with Type E Connection (Long Version)

装刀工具 / 装刀卡

Assembling Accessories



装刀工具
Wrench for Clamping

装刀卡
Retaining Collar

六角扳手
Allen key

D2	装刀工具 Wrench for clamping	D2	装刀卡 Retaining Collar
D2=25	TS-E32	D2=25	VS BT50.22.E25
D2=32	TS-E32	D2=32	VS BT50.27.E32
D2=40	TS-E40	D2=40	VS BT50.32.E40
D2=50	TS-E50	D2=50	VS BT50.41.E50
D2=63	TS-E63	D2=63	VS BT50.55.E63
D2=80	TS-E80	D2=80	VS BT50.70.E80

E 接口 Type E connection	六角扳手 Allen key				
	BT50	BT40	A100	A63	BT30
E25/E32	KEY01 M6	KEY01 M6	KEY01 M6	KEY01 M6	KEY01 M6
E40/E50	KEY01 M10	KEY01 M10	KEY01 M10	KEY01 M8	KEY01 M8
E63	KEY01 M14	KEY01 M12	KEY01 M12	KEY01 M12	-
E80	KEY01 M16	KEY01 M12	KEY01 M14	-	-

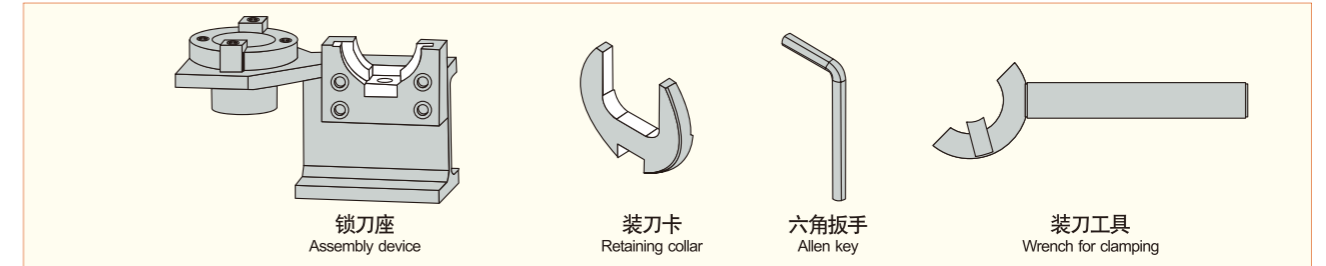
TECHNICAL INFORMATION 技术资料

镗刀 E 接口刀柄装配指南

Assembly Instruction for Adaptor of Boring Tool with Type E Connection

安装设备

Assembling Accessories



锁刀座
Assembly device

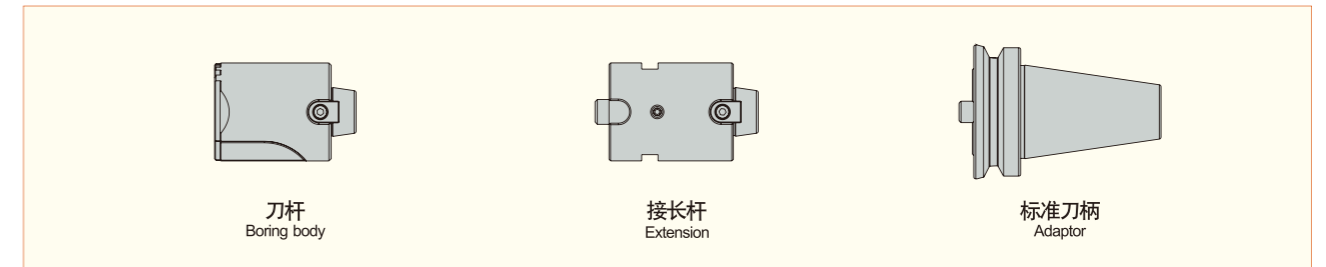
装刀卡
Retaining collar

六角扳手
Allen key

装刀工具
Wrench for clamping

标准刀柄连接示例

Assembly Instruction of Type E Connection



刀杆
Boring body

接长杆
Extension

标准刀柄
Adaptor

- 把装刀卡放入锁刀座;
- 把接长杆放入装刀卡;
- 用六角扳手从接长杆凸锥部伸入, 将其与刀杆通过螺钉拧紧;
- 取下装刀卡, 把刀柄放入锁刀座;
- 把接长杆和刀杆的连接体与刀柄固定在一起;
- 装好后保证接口两端面之间无间隙。

- Inside the retaining collar into the assembly device;
- Inside extension into the retaining collar;
- Screw the extension and the boring tools together, using Allen key;
- Take the collar off, Inside the Adaptor into the tapered bush;
- Screw the tool element and adaptor together;
- Tighten with a torque wrench to make sure all parts combination stable.

TECHNICAL INFORMATION 技术资料

粗镗刀切削参数

Recommended Cutting Data for Rough Boring

ISO	被加工材料 work-piece material	硬度 HB Hardness	悬伸(稳定性) L/D Overhang L/D	镗削范围 D20-35 Boring range		镗削范围 D35-55 Boring range		镗削范围 D55-70 Boring range		镗削范围 D70-110 Boring range		镗削范围 D110-150 Boring range		镗削范围 D150- Boring range			
				Ap(mm)	0.5-1.0	1.0-1.8	0.5-1.0	1.0-1.8	0.5-1.2	1.2-2.0	0.8-1.8	1.8-2.5	0.8-2.0	2.0-3.0	0.8-2.0	2.0-3.5	
				R(Radius)	0.2	0.4	0.2-0.4	0.4	0.2-0.4	0.4-0.8	0.2-0.4	0.4-0.8	0.2-0.4	0.4-0.8	0.2-0.4	0.4-0.8	
K	灰铸铁 GG 10-25 Grey cast iron	HB<200	2.5(高) Good	Vc(m/min)	120-160	100-140	120-180	110-150	120-180	110-150	120-200	110-150	150-250	180-280	150-250	180-280	
				fz(mm/z)	0.06-0.15	0.06-0.18	0.06-0.15	0.06-0.12	0.08-0.2	0.08-0.12	0.08-0.25	0.08-0.3	0.08-0.25	0.08-0.35	0.08-0.25	0.08-0.35	
			4(一般) Normal	Vc(m/min)	100-140	80-120	100-150	80-120	100-150	80-120	100-150	80-120	120-170	120-170	-	-	-
				fz(mm/z)	0.06-0.12	0.06-0.1	0.06-0.12	0.06-0.1	0.08-0.12	0.08-0.1	0.08-0.18	0.08-0.2	0.08-0.18	0.08-0.25	-	-	-
			6.0(差) Difficult	Vc(m/min)	70-100	60-90	70-100	60-90	70-100	60-90	70-100	60-90	-	-	-	-	-
				fz(mm/z)	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.08-0.1	0.08-0.1	0.08-0.15	0.08-0.12	-	-	-	-	-
K	灰铸铁 GG 25-40 Grey cast iron	-	2.5(高) Good	Vc(m/min)	140-200	140-200	140-220	160-250	180-220	220-280	250-300	250-350	250-350	250-350	250-350		
				fz(mm/z)	0.06-0.15	0.06-0.18	0.06-0.15	0.06-0.18	0.08-0.2	0.1-0.25	0.12-0.35	0.12-0.35	0.15-0.3	0.15-0.4	0.15-0.3	0.15-0.4	
			4(一般) Normal	Vc(m/min)	120-160	120-160	120-180	140-200	140-180	180-220	200-270	230-300	200-300	200-270	-	-	
				fz(mm/z)	0.06-0.12	0.06-0.14	0.06-0.12	0.06-0.14	0.08-0.12	0.08-0.2	0.1-0.25	0.12-0.3	0.15-0.3	0.15-0.35	-	-	
			6.0(差) Difficult	Vc(m/min)	70-100	60-90	70-100	60-90	60-100	60-120	70-150	60-120	-	-	-	-	
				fz(mm/z)	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.08-0.1	0.08-0.1	0.1-0.15	0.12-0.25	-	-	-	-	
K	铸铁 GGG Cast iron	球墨铸铁 Spheroidal graphite cast iron	2.5(高) Good	Vc(m/min)	120-180	120-180	120-200	140-220	180-220	180-240	200-240	200-280	200-280	220-300	220-300		
				fz(mm/z)	0.06-0.15	0.06-0.18	0.06-0.15	0.06-0.18	0.08-0.18	0.1-0.2	0.12-0.3	0.12-0.3	0.15-0.3	0.15-0.35	0.15-0.3	0.15-0.35	
			4(一般) Normal	Vc(m/min)	120-160	120-160	120-180	140-200	140-200	160-220	160-220	180-240	180-250	200-270	-	-	
				fz(mm/z)	0.06-0.12	0.06-0.14	0.06-0.12	0.06-0.14	0.08-0.12	0.08-0.18	0.1-0.2	0.12-0.25	0.15-0.25	0.15-0.35	-	-	
			6.0(差) Difficult	Vc(m/min)	60-100	60-90	60-100	60-90	60-90	60-100	60-100	60-100	-	-	-	-	
				fz(mm/z)	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.08-0.1	0.08-0.1	0.1-0.15	0.12-0.2	-	-	-	-	

TECHNICAL INFORMATION 技术资料

粗镗刀切削参数

Recommended Cutting Data for Rough Boring

ISO	被加工材料 work-piece material	硬度 HB Hardness	悬伸(稳定性) L/D Overhang L/D	镗削范围 D20-35 Boring range		镗削范围 D35-55 Boring range		镗削范围 D55-70 Boring range		镗削范围 D70-110 Boring range		镗削范围 D110-150 Boring range		镗削范围 D150- Boring range				
				Ap(mm)	0.5-1.5	1.5-2.5	0.5-1.5	1.5-2.5	0.5-2.0	1.2-3.0	0.8-3.0	1.8-4.0	0.8-3.0	2.0-4.0	0.8-3.0	2.0-4.5		
				R(Radius)	0.2	0.4	0.2-0.4	0.4	0.2-0.4	0.4-0.8	0.2-0.4	0.4-0.8	0.2-0.4	0.4-0.8	0.2-0.4	0.4-0.8		
K	铝合金 / 铸造 Cast aluminum alloys	Si>12%	2.5(高) Good	Vc(m/min)	200-300	240-350	200-300	240-350	200-300	240-350	200-300	240-350	200-300	240-350	200-300	240-350		
				fz(mm/z)	0.06-0.2	0.06-0.25	0.06-0.2	0.06-0.25	0.06-0.25	0.06-0.3	0.06-0.25	0.06-0.3	0.06-0.25	0.06-0.4	0.06-0.25	0.06-0.4		
			4(一般) Normal	Vc(m/min)	150-220	150-220	150-220	150-220	150-220	150-220	150-220	150-220	150-220	150-220	150-220	150-220	-	-
				fz(mm/z)	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.2	-	-
			6.0(差) Difficult	Vc(m/min)	60-100	60-100	60-100	60-100	60-100	60-100	60-100	60-100	60-100	60-100	60-100	60-100	-	-
				fz(mm/z)	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	-	-
K	铝合金 / 铸造 Cast aluminum alloys	Si<12%	2.5(高) Good	Vc(m/min)	180-250	220-280	180-250	220-280	180-250	220-280	180-250	220-280	180-250	220-280	180-250	220-280		
				fz(mm/z)	0.06-0.2	0.06-0.25	0.06-0.25	0.06-0.25	0.06-0.25	0.06-0.3	0.06-0.25	0.06-0.3	0.06-0.25	0.06-0.3	0.06-0.25	0.06-0.3		
			4(一般) Normal	Vc(m/min)	120-220	120-220	120-220	120-220	120-220	120-220	120-220	120-220	120-220	120-220	120-220	120-220	-	-
				fz(mm/z)	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.25	0.06-0.2	0.06-0.25	0.06-0.2	0.06-0.25	0.06-0.2	0.06-0.25	-	-
			6.0(差) Difficult	Vc(m/min)	60-100	60-100	60-100	60-100	60-100	60-100	60-100	60-100	60-100	60-100	60-100	60-100	-	-
				fz(mm/z)	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	-	-

• "*" 表示不推荐, 请与我们的销售工程师联系。
• Please add "C" at the end of designation by internal coolant hole requirement. Ordering sample: NG-E25.C

TECHNICAL INFORMATION 技术资料

精镗刀切削参数

Recommended Cutting Data for Finish Boring

被加工材料 work-piece material	悬深 L/D Overhang L/D	稳定性 Stability	切削速度 Vc=m/min Cutting speed	切削进给 f=mm/rev		Ap(mm)	刀片合金牌号 Grade
				刀片刀尖角 Radius			
				R=0.2	R=0.4		
碳钢 Hb≤200	2.5	高 Good	200-300	0.05-0.08	0.08-0.1	0.1-0.25	P 1115 P 1125 P 1225 P 2125 P 2116 P 2220 G 2315 G 1310 G 2225
	4	一般 Normal	160-250	0.05-0.08	0.08-0.1		
	6	差 Difficult	70-100	0.05-0.08	-		
碳钢 Hb≥200	2.5	高 Good	160-250	0.05-0.08	0.08-0.1	0.1-0.25	
	4	一般 Normal	150-200	0.05-0.08	0.08-0.1		
	6	差 Difficult	70-100	0.05-0.08	-		
合金钢 Low alloyed steel	2.5	高 Good	150-200	0.05-0.08	0.08-0.1	0.1-0.25	
	4	一般 Normal	120-160	0.05-0.08	0.08-0.1		
	6	差 Difficult	70-80	0.05-0.08	-		
合金钢 HB 480-550 Low alloyed steel	2.5	高 Good	120-160	0.05-0.08	0.08-0.1	0.1-0.25	
	4	一般 Normal	100-140	0.05-0.08	0.08-0.1		
	6	差 Difficult	70-100	0.05-0.08	-		
铸铁 Castiron	2.5	高 Good	120-160	0.05-0.08	0.08-0.1	0.1-0.25	K 1115 K 2025 K 2120
	4	一般 Normal	100-140	0.05-0.08	0.08-0.1		
	6	差 Difficult	70-100	0.05-0.08	-		
铝合金 Aluminum alloy	2.5	高 Good	300-400	0.05-0.08	0.08-0.1	0.1-0.25	N 2020 N 1010 N 1025 N 1015
	4	一般 Normal	250-350	0.05-0.08	0.08-0.1		
	6	差 Difficult	100-150	0.05-0.08	-		
不锈钢 Stainless steel	2.5	高 Good	160-210	0.05-0.08	0.08-0.1	0.1-0.25	M 1220 M 2216 M 2120 M 1225 M 2210 M 1215 M 1115
	4	一般 Normal	120-160	0.05-0.08	0.08-0.1		
	6	差 Difficult	70-90	0.05-0.08	-		

TECHNICAL INFORMATION 技术资料

表面粗糙度理论计算公式

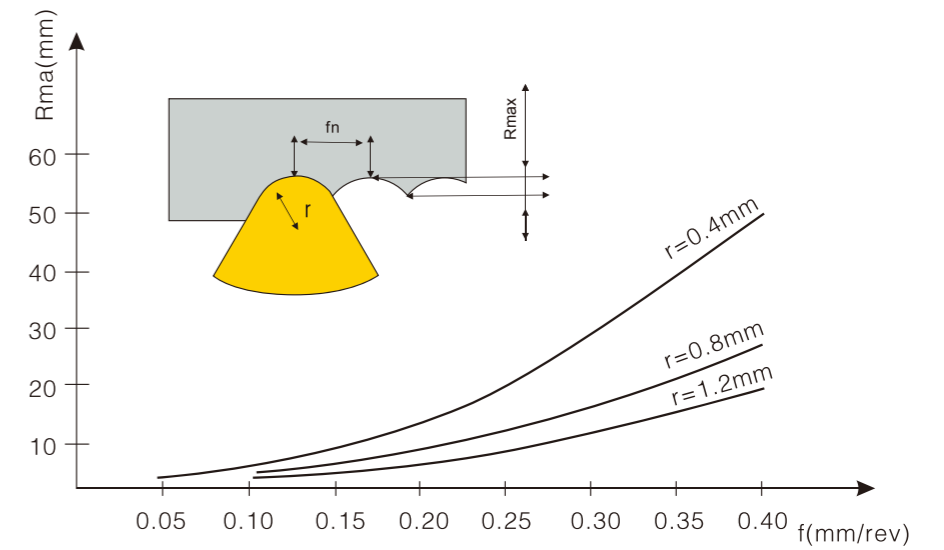
Achievable Surface Quality

$$R_{max} = \frac{f_n^2}{8r} \times 1000, \mu m$$

R_{max}=残留面积高度, μm
Residual area height

r=刀尖半径, mm
Nose radius

f_n=每转进给, mm/rev



表面粗糙度与刀尖半径、进给量的关系表

Achievable Surface Quality with Insert Radius and Feed Range

Rt	Ra ISO 1302		刀尖半径及进给量 (mm/rev) Radius and feed			
			R=0.4	r=0.8	r=1.2	r=1.6
√Rt100	12.5-25	25	-	0.51	0.69	0.88
√Rt63	6.3-25	12.5	0.27	0.43	0.56	0.68
√Rt40	4.9-6.3	6.3	0.25	0.37	0.49	0.57
√Rt31.5	4.0-4.9	3.2	0.22	0.32	0.41	0.47
√Rt25	2.5-4.0	3.2	0.20	0.28	0.36	0.39
√Rt16	1.6-2.5	1.6	0.15	0.22	0.29	0.31
√Rt10	1.0-1.6	1.6	0.10	0.13	0.18	0.20

TECHNICAL INFORMATION 技术资料

表面粗糙度

Surface Roughness

零件的表面都应该注明粗糙度的等级。如果较多的表面具有相同的表面粗糙度等级，则要集中在图样右上角标注，并加“其余”字样。

粗糙度等级的选择，一般可以根据对各表面的工作要求和尺寸精度等级来决定，在满足工作要求的条件下，不得随意提高等级。

The surface roughness should be marked for the different parts. If different parts with same roughness, then it should be marked on the upper right and plus "remainder".

The roughness grades depend on the work requirements and size accuracy. It is not allowed to change the marked grade if everything is going well.

(1) 取样长度和评定长度的选用值 (GB/T1031-1995)(mm)

Selected value for the sample area and length (GN/T1031-1995)(mm)

Ra (μm)	Rz (μm)	取样长度 (mm) Sample length	评定长度 (mm) Evaluation length
> 0.003~0.02	> 0.025~0.10	0.08	0.40
> 0.02~0.10	> 0.1~0.50	0.25	1.25
> 0.1~2.0	> 0.50~10.0	0.80	4.00
> 2.0~10.0	> 10.0~50	2.50	12.5
> 10.0~80	> 50~320	8.00	40.0

(2) 轮廓算术平均偏差 Ra 的数值 (GB/T1031-1995)(μm)

Ra value (GB/T1031-1995)(μm)

第1系列 0.012, 0.025, 0.050, 0.10, 0.20, 0.40, 0.80, 1.60, 3.2, 6.3, 12.5, 25, 50, 100

第2系列 0.008, 0.010, 0.016, 0.020, 0.032, 0.040, 0.063, 0.080, 0.125, 0.160, 0.25, 0.32, 0.50, 0.63, 1.0, 1.25, 2.0, 2.5, 4.0, 5.0, 8.0, 10.0, 16.0, 20, 32, 40, 63, 80

注：尽量选择第1系列

First series 0.012, 0.025, 0.050, 0.10, 0.20, 0.40, 0.80, 1.60, 3.2, 6.3, 12.5, 25, 50, 100

Second series 0.008, 0.010, 0.016, 0.020, 0.032, 0.040, 0.063, 0.080, 0.125, 0.160, 0.25, 0.32, 0.50, 0.63, 1.0, 1.25, 2.0, 2.5, 4.0, 5.0, 8.0, 10.0, 16.0, 20, 32, 40, 63, 80

Note: first series in priority

(3) 轮廓最大高度 Rz 的数值 (GB/T1031-1995)(μm)

Rz (GB/T1031-1995)(μm)

第1系列 0.025, 0.050, 0.100, 0.20, 0.40, 0.80, 1.60, 3.2, 6.3, 12.5, 25, 50, 100, 200, 400, 800, 1600

第2系列 0.032, 0.040, 0.063, 0.080, 0.125, 0.160, 0.25, 0.32, 0.50, 0.63, 1.0, 1.25, 2.0, 2.5, 4.0, 5.0, 8.0, 10.0, 16.0, 20, 32, 40, 63, 80, 125, 160, 250, 320, 500, 630

注：尽量选择第1系列

First series 0.025, 0.050, 0.100, 0.20, 0.40, 0.80, 1.60, 3.2, 6.3, 12.5, 25, 50, 100, 200, 400, 800, 1600

Second series 0.032, 0.040, 0.063, 0.080, 0.125, 0.160, 0.25, 0.32, 0.50, 0.63, 1.0, 1.25, 2.0, 2.5, 4.0, 5.0, 8.0, 10.0, 16.0, 20, 32, 40, 63, 80, 125, 160, 250, 320, 500, 630

自由公差表

Free Tolerance Table

线性尺寸的极限偏差数值 (GB/T1804-2000)(mm)

Limit deviation value of linear size (GB/TB1804-2000)(mm)

公差等级 Roughness grade	基本尺寸分段 Subsections of basic size						
	0.5~3	> 3~6	> 6~30	> 30~120	> 120~400	> 400~1000	> 1000~2000
精密 f	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3	±0.5
中等 m	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
粗糙 e	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3
最粗 v	-	±0.5	±1	±1.5	±2.5	±4	±6

圆半径和倒角高度尺寸的极限偏差 (GB/T1804-2000)(mm)

Limit deviation value of radius and chamfering height (GB/TB1804-2000)(mm)

公差等级 Roughness grade	基本尺寸分段 Subsections of basic size			
	0.5~3	> 3~6	> 6~30	> 30
精密 f	±0.2	±0.5	±1	±2
中等 m	±0.4	±1	±2	±4
粗糙 e	±0.4	±1	±2	±4
最粗 v	±0.4	±1	±2	±4

TECHNICAL INFORMATION 技术资料

自由公差表

Free Tolerance Table

角度尺寸的极限偏差数值 (GB/T1804-2000)

Limit deviation value of angle size (GB/TB1804-2000)

公差等级 Roughness grade	基本尺寸分段 Subsections of basic size				
	~10	> 10~50	> 50~120	> 120~400	> 400
精密 f	±1°	±30'	±20'	±10'	±5'
中等 m	±1°30'	±1°	±30'	±20'	±10'
粗糙 e	±3°	±2°	±1°	±30'	±20'
最粗 v	±3°	±2°	±1°	±30'	±20'

未注形位公差按 (GB/T1184-K)

Unspecified Tolerance (GN/T1184-K)

(1) 直线度和平面度未注公差值 (GB/T1184-1996)(mm)

Unspecified tolerance between straightness and flatness (GB/T1184-1996)(mm)

公差等级 Roughness grade	基本尺寸分段 Subsections of basic size					
	≤ 10	> 10~30	> 30~100	> 100~300	> 300~1000	> 1000~3000
H	0.03	0.05	0.1	0.2	0.3	0.4
K	0.05	0.1	0.2	0.4	0.6	0.8
L	0.1	0.2	0.4	0.8	1.2	1.6

(2) 垂直度未注公差值 (GB/T1184-1996)(mm)

Unspecified tolerance of perpendicularity (GB/T1184-1996)(mm)

公差等级 Roughness grade	基本尺寸分段 Subsections of basic size			
	≤ 100	> 100~300	> 300~1000	> 1000~3000
H	0.2	0.3	0.4	0.5
K	0.4	0.6	0.8	1
L	0.4	1	1.5	2

(3) 对称度未注公差值 (GB/T1184-1996)(mm)

Unspecified tolerance of symmetry control (GB/T1184-1996)(mm)

公差等级 Roughness grade	基本尺寸分段 Subsections of basic size			
	≤ 100	> 100~300	> 300~1000	> 1000~3000
H	0.5	-	-	-
K	0.6	0.8	1	-
L	0.6	1	1.5	2

(4) 圆跳动的未注公差值 (GB/T1184-1996)(mm)

Unspecified tolerance of run out (GB/T1184-1996)(mm)

公差等级 Roughness grade	圆跳动公差值 Tolerance of run out
H	0.1
K	0.2
L	0.3

TECHNICAL INFORMATION 技术资料

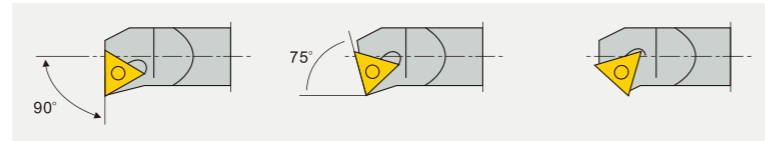
镗刀选择指南

Selection Guide for Boring Tools

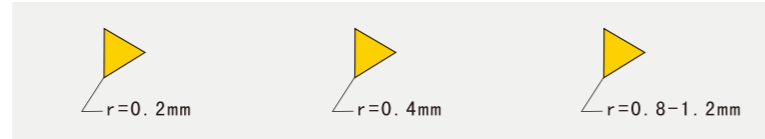
在为振动敏感的工序选择镗刀时应考虑的因素

The factors should be considered in selecting boring tool when the process 6aS'1 to be vibrated.

- 在选择接近 90° 的主偏角, 但不能小于 75°, 使径向力最小
- Selecting the approach angle closed to 90° but not small than 70° when the radial force is the least.



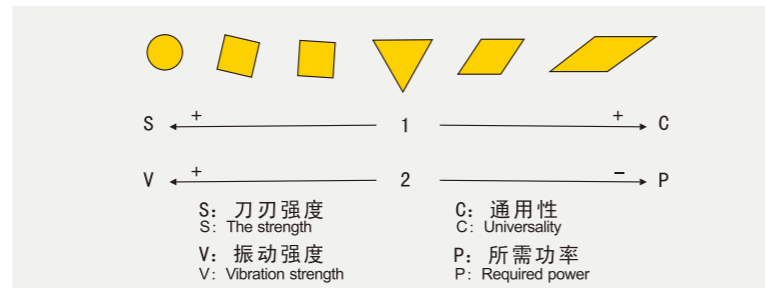
- 选择小的刀尖半径
- *Selecting the least diameter of tool nose



- 选择正前角刀片
- 注意: 避免使用后刀面过度磨损的刀片!
- Selecting the insert with front angle
- Please note: avoid the use of the insert with back wear down



- 通常的刀半径如图所示, 从圆角到 35°
- The ordinary radius please see the right figure, which is from radius to 35°



- 图例左向刀尖角越大, 刀尖强度越好, 右向刀尖角越小, 刀尖强度越弱, 通用性越高
- Please see the figure: the tool angle on the left is larger the strength is better; the tool angle on the right is smaller the rigidity is weaker but better universality.
- 图例右向刀尖强度减弱, 但加工时的振动倾向减小, 所需功率减小
- If the strength is weaker, the vibration will be cut down, meanwhile the required power is decreased.

刀尖半径和进给

Nose Radius and Feed

刀尖半径主要影响以下几方面:

- 粗加工中的刀刃强度
- 精加工中的表面精度

The nose radius affected the below points:

- The strength when rough machining
- The roughness of finish machining

精加工

- 为提高刀刃强度, 尽可能选择大刀尖半径
- 大刀尖半径可允许较大进给
- 如有振动倾向, 选择较小刀尖半径

Finish machining

- In order to enhance the strength, please select the tool with larger nose radius
- Higher feed for larger nose radius
- Please select the tool with smaller nose radius if there is a tendency of vibration

当为粗加工选择进给量时, 不要超过右表推荐值, 作为经验法则, 进给量可如下选择:

$$F_n = 0.5 \times \text{刀尖半径}$$

When selecting the feed for rough machining, the value should not be out of the ones in the table on the right, and the formula for the proper feed please see below:

$$f_n = 0.5 \times \text{Nose radius}$$

不同刀尖半径最大进给指南

User guide for the max feed of different nose radius

刀尖半径 rmm Nose radius	0.4	0.8	1.2	1.6	2.4
最大推荐进给 f _n mm/rev Recommended max feed	0.25-0.35	0.4-0.7	0.5-1.0	0.7-1.3	1.0-1.8

粗加工时, 常用刀片的刀尖半径是 0.8-1.6mm

上表中, 最大推荐进给量是刀尖半径的 2/3

The universal radius is 0.8-1.6mm when rough machining.

The recommended highest feed should not be out of 2/3 radius in the above table

大进给量用于以下刀片:

- 刀刃强度高且至少有 60° 刀尖角
- 刀具主偏角小于 90°
- 被加工材料有良好的加工性, 中低等切削速度

The higher feed is suitable for below inserts:

- The radius is no smaller than 60° and with higher strength
- The approach angle smaller than 90°
- For tough materials and with medium and low cutting speeds

TECHNICAL INFORMATION 技术资料

钻孔加工

Drilling

根据切削参数符号变更, 依次有如下变更

Symbols of the cutting parameter were changed, see the following list

规格型号 Designation	旧符号 Old symbol	新符号 New symbol	单位 Units
切削速度 Cutting speed	Vc	V	m/min
进给速度 Feed speed	Vf	F	mm/min
进给量 Feeds	f	f	mm/rev
直径 Diameter	Dc	D(Ds)	mm
切削动力 Cutting power	Pc	PKw	kW
比较切削阻力 Comparative cutting resistance	Kc	Ks	MPa
孔深 Hole depth	H	d	mm
转速 Rotational speed	n	N	min ⁻¹

- 切削速度

$$V_c = \frac{\pi \times D_c \times n}{1,000}$$

Vc : 切削速度 [m/min]

Dc : 钻头直径 [mm]

n : 主轴转速 [min⁻¹]

- 进给 (铣削加工时)

$$V_f = f_z \times Z \times n$$

Vf : 工作台进给速度 [mm/min]

fz : 每刀进给量 [mm/t]

Z : 切削刃 (切削刃数=1)

n : 主轴转速 [min⁻¹]

- 加工时间

$$T = \frac{60 \times L}{f \times n} = \frac{60 \times \pi \times D_c \times L}{1,000 \times V_c \times f}$$

T : 加工时间 [秒]

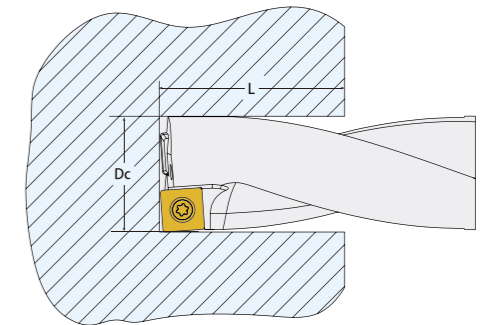
L : 孔深 [mm]

f : 每转进给量 [mm/rev]

n : 主轴转速 [min⁻¹]

Dc : 钻头直径 [mm]

Vc : 切削速度 [m/min]



- 所需动力 (标准值)

$$P_c = \frac{D_c}{20} \times \frac{V_c}{100} \times \left(1 + \left(\frac{2.5 \times f}{0.1} \right) \right)$$

Pc : 所需动力 [kW]

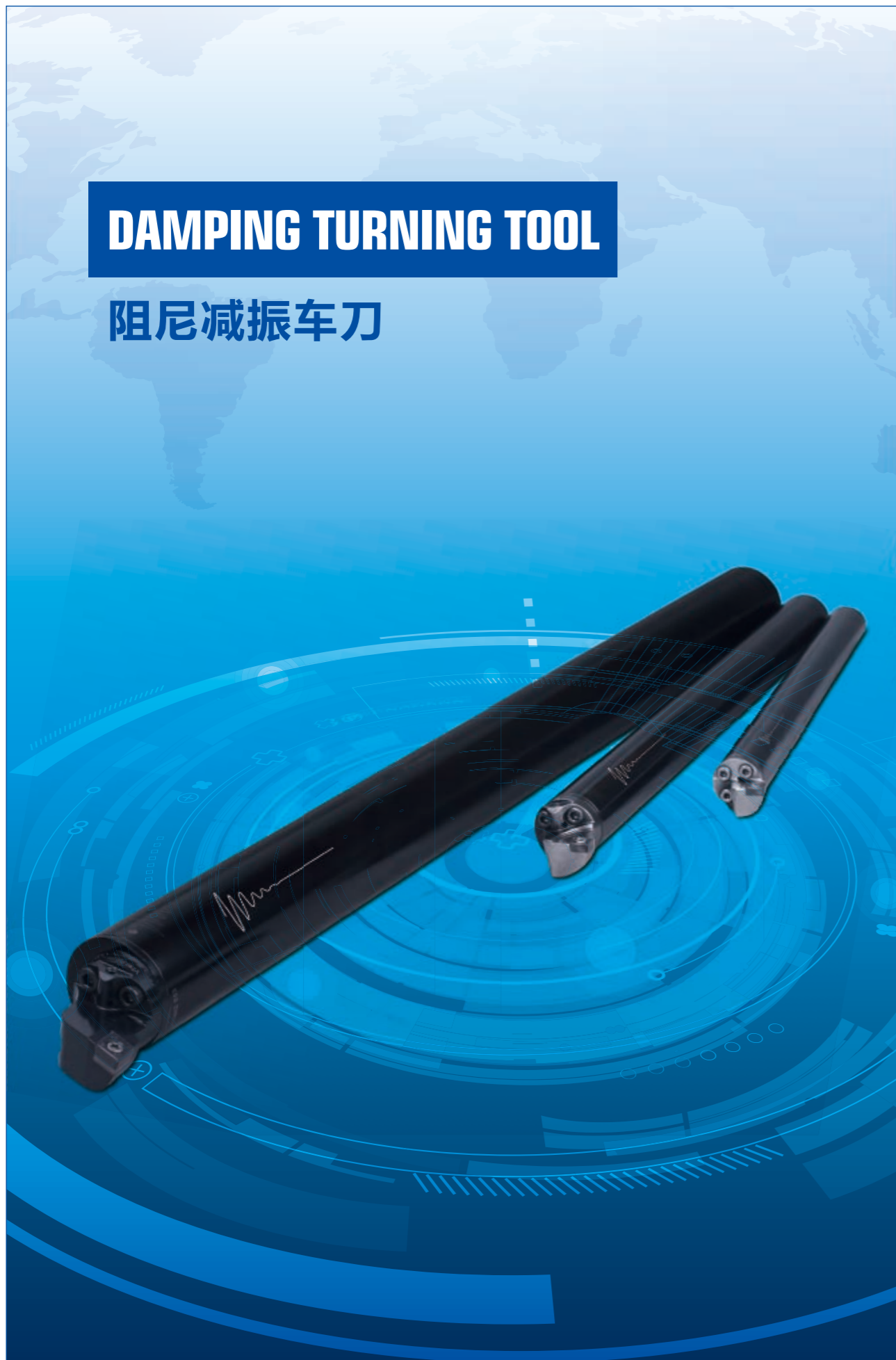
Dc : 钻头直径 [mm]

Vc : 切削速度 [m/min]

f : 每转进给量 [mm/rev]

DAMPING TURNING TOOL

阻尼减振车刀



B

阻尼减振刀具 DAMPING TOOLS

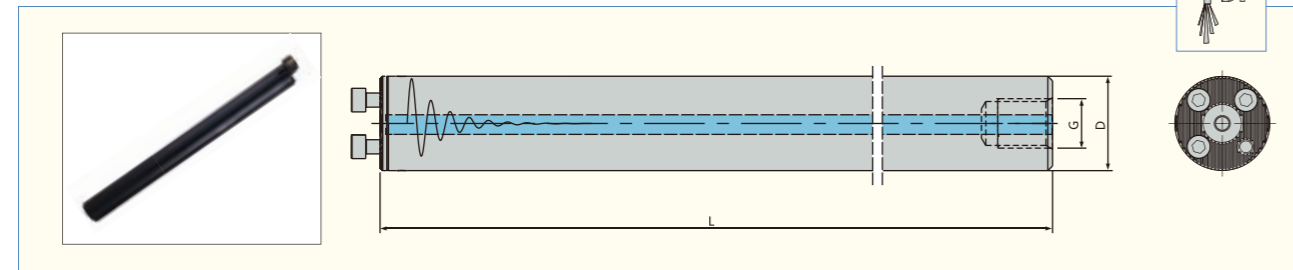
阻尼减振车刀 Damping Turning Tool

阻尼减振车刀杆	B3
Damping Turning Tool Holder	
阻尼减振车刀刀头	B7
Cartridge For Damping Turning Tool Holder	
中心校准块	B24
Centre Calibration Block	
阻尼减振车刀使用说明	B25
User Guide for Damping Turning Tool	

DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀杆

Damping Turning Tool Holder



规格型号 Designation	D	L	G	L/D	Kg	适配刀头 Cartridge	在庫 Stock
VT16 C16x156V	16	156	G1/8"	7	0.2	VT16..	●
VT16 C16x204VE	16	204	-	10	0.5	VT16..	●
VT20 C20x200V	20	200	G1/4"	7	0.4	VT20..	●
VT20 C20x260VE	20	260	-	10	0.8	VT20..	●
VT25 C25x255V	25	255	G1/4"	7	1.0	VT25..	●
VT25 C25x330V	25	330	G1/4"	10	1.3	VT25..	●
VT25 C25x380VE	25	380	G1/8"	12	2.0	VT25..	○
VT25 C25x430VE	25	430	G1/8"	14	2.6	VT25..	○
VT32 C32x320V	32	320	G3/8"	7	2.1	VT32..	●
VT32 C32x416V	32	416	G3/8"	10	2.8	VT32..	●
VT32 C32x480VE	32	480	G1/4"	12	4.2	VT32..	○
VT32 C32x544VE	32	544	G1/4"	14	4.8	VT32..	○
VT40 C40x408V	40	408	G1/2"	7	4.6	VT40..	●
VT40 C40x528V	40	528	G1/2"	10	5.3	VT40..	●
VT40 C40x608VE	40	608	G3/8"	12	8.3	VT40..	○
VT40 C40x688VE	40	688	G3/8"	14	9.4	VT40..	○

- 推荐最小夹紧长度为 4xD。
- 刀杆有内冷出水孔。
- 适配刀头需单独订购，请参照：B7-B24 页。
- 若出现减振性能下降时，建议维修保养。
- 订货示例：1 件 VT16 C16x156V。
- Suggested min. Length is 4xD.
- With coolant hole.
- The cartridge should be ordered separately, please see page B7-B24.
- The reducing head should be ordered separately.
- Suggest doing the maintenance when damping capacity is weaker than before.
- Ordering sample: 1 PC VT16 C16x156V.

备件

Spare Parts

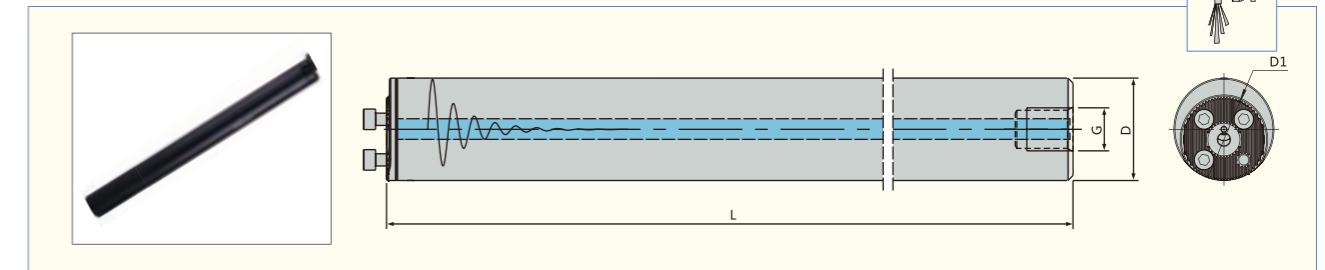
D	刀头锁紧螺钉 Clamp screw for cartridge	刀头锁紧扳手 Allen key for cartridge clamping screw
16	SR55-2 M3x10	KEY01 M2.5
20	SR55-2 M3.5x10	KEY01 M2.5
25	SR55-2 M4x12	KEY01 M3
32	SR55-2 M5x12	KEY01 M4
40	SR55-2 M6x16	KEY01 M5

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀杆

Damping Turning Tool Holder



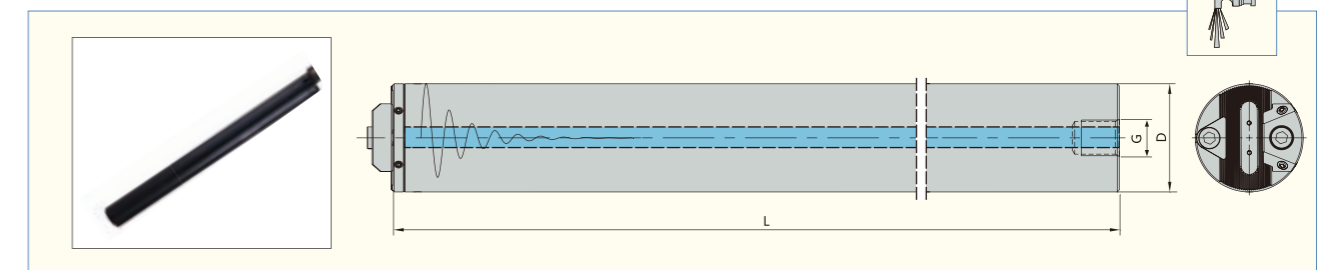
规格型号 Designation	D	D1	L	G	L/D	Dmin	Kg	适配刀头 Cartridge	在庫 Stock
VT40 C50x518V	50	40	518	G1/2"	7	60	7.2	VT40..	●
VT40 C50x668V	50	40	668	G1/2"	10	60	9.3	VT40..	●
VT40 C50x768VE	50	40	768	G1/2"	12	60	14.4	VT40..	○
VT40 C50x868VE	50	40	868	G1/2"	14	60	16.6	VT40..	○
VT40 C60x628V	60	40	628	G3/4"	7	70	12.5	VT40..	●
VT40 C60x808V	60	40	808	G3/4"	10	70	16.3	VT40..	●
VT40 C60x920VE	60	40	920	G3/4"	12	70	27.1	VT40..	○
VT40 C60x1040VE	60	40	1040	G3/4"	14	70	30.9	VT40..	○

- 推荐最小夹紧长度为 4xD。
- 刀杆有内冷出水孔。
- 适配刀头需单独订购，请参照：B7-B24 页。
- 若出现减振性能下降时，建议维修保养。
- 订货示例：1 件 VT40 C50x518V。
- Suggested min. Length is 4xD.
- With coolant hole.
- The cartridge should be ordered separately, please see page B7-B24.
- Suggest doing the maintenance when damping capacity is weaker than before.
- Ordering sample: 1 PC VT40 C50x518V.

备件

Spare Parts

D1	刀头锁紧螺钉 Clamp screw for cartridge	刀头锁紧扳手 Allen key for cartridge clamping screw
40	SR55-2 M6X16	KEY01 M5



规格型号 Designation	D	L	G	L/D	Kg	适配刀头 Cartridge	在庫 Stock
VH80 C80x880V	80	880	G3/4"	7	31.8	VH80..	●
VH80 C80x1200V	80	1200	G3/4"	10	52.3	VH80..	●
VH80 C80X1240VE	80	1240	G3/4"	12	50	VH80..	○
VH80 C80X1400VE	80	1400	G3/4"	14	63	VH80..	○

- 推荐最小夹紧长度为 4xD。
- 刀杆有内冷出水孔。
- 适配刀头需单独订购，请参照：B7-B24 页。
- 若出现减振性能下降时，建议维修保养。
- 订货示例：1 件 VT80 C80x880V。
- Suggested min. Length is 4xD.
- With coolant hole.
- The cartridge should be ordered separately, please see page B7-B24.
- Suggest to do the maintenance when damping capacity is weaker than before.
- Ordering sample: 1 PC VT80 C80x880V.

备件

Spare Parts

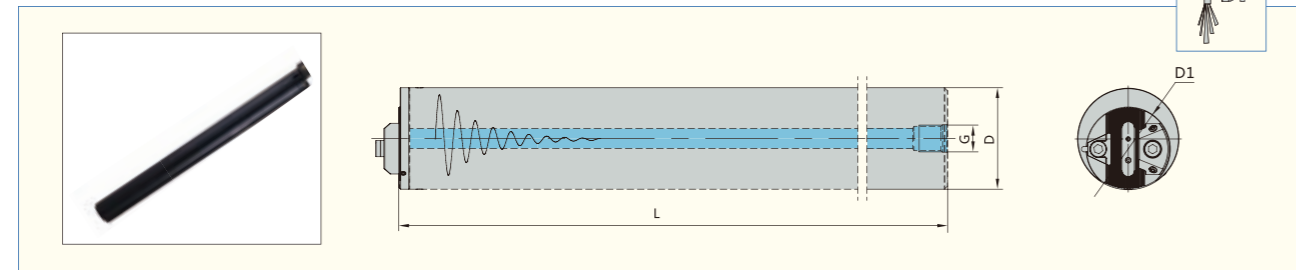
D	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping	上压板 Upper clamping pad	下压板 Lower clamping pad	压板弹簧 Spring clamping pad	定位螺钉 Clamp screw for cartridge
80	SR55 M10x25	KEY01 M8	PB20 M10x16	PB20 M10x11	YH 12.5x0.9x18	SR55 M3x6

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

DAMPING TURNING TOOL 阻尼减振车刀

大直径阻尼减振车刀杆

Long Overhang Damping Turning Tool



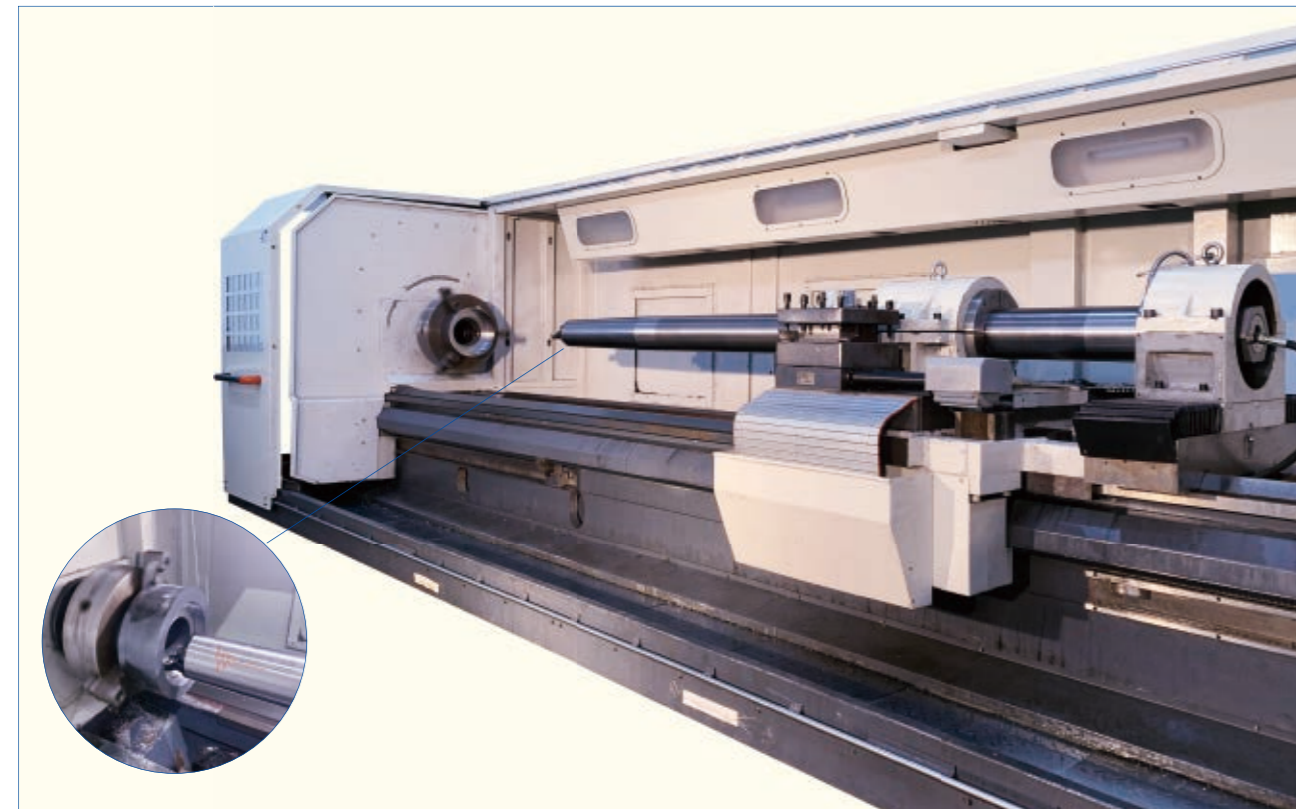
规格型号 Designation	D	D1	L	G	L/D	Kg	适配刀头 Cartridge	在库 Stock
VH80 C100X1100V	100	80	1100	G3/4"	7	63.4	VH80	●
VH80 C100X1500V	100	80	1500	G3/4"	10	86.8	VH80	●
VH80 C120X1900V	120	80	1900	G3/4"	10	134	VH80	●
VH80 C130X2000V	130	80	2000	G3/4"	10	192.3	VH80	●
VH80 C140X2200V	140	80	2200	G3/4"	10	241.5	VH80	●
VH80 C150X2400V	150	80	2400	G3/4"	10	252.6	VH80	●
VH80 C160X2600V	160	80	2600	G3/4"	10	339.3	VH80	○

- 推荐最小夹紧长度为 4xD。
- 刀杆有内冷出水孔。
- 适配刀头需单独订购，请参照：B7-B24 页。
- 若出现减振性能下降时，建议维修保养。
- 订货示例：1 件 VH80 C100X1100V。
- Suggested min. Length is 4xD.
- With coolant hole.
- The cartridge should be ordered separately, please see page B7-B24.
- Suggest to do the maintenance when damping capacity is weaker than before.
- Ordering sample: 1 PC VH80 C100X1100V.

备件

Spare Parts

D1	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping	上压板 Upper clamping pad	下压板 Lower clamping pad	压板弹簧 Spring clamping pad	定位螺钉 Clamp screw for cartridge
80	SR55 M10x25	KEY01 M8	PB20 M10x16	PB20 M10x11	YH 12.5x0.9x18	SR55 M3x6

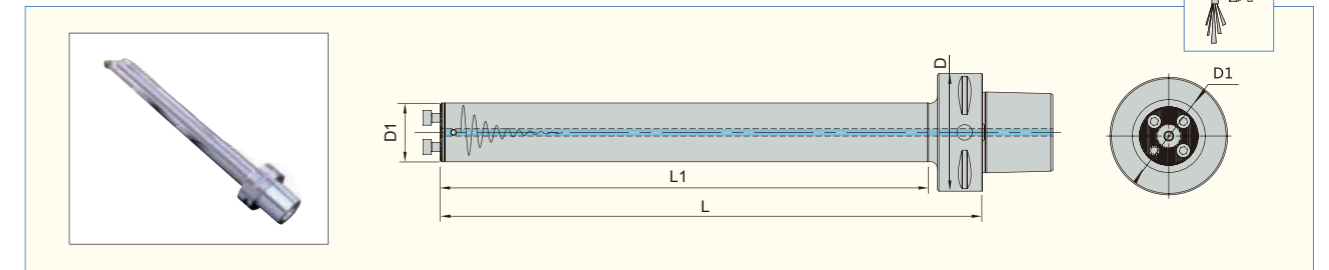


- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

DAMPING TURNING TOOL 阻尼减振车刀

PSC 接口阻尼减振车刀杆

PSC Damping Turning Tool



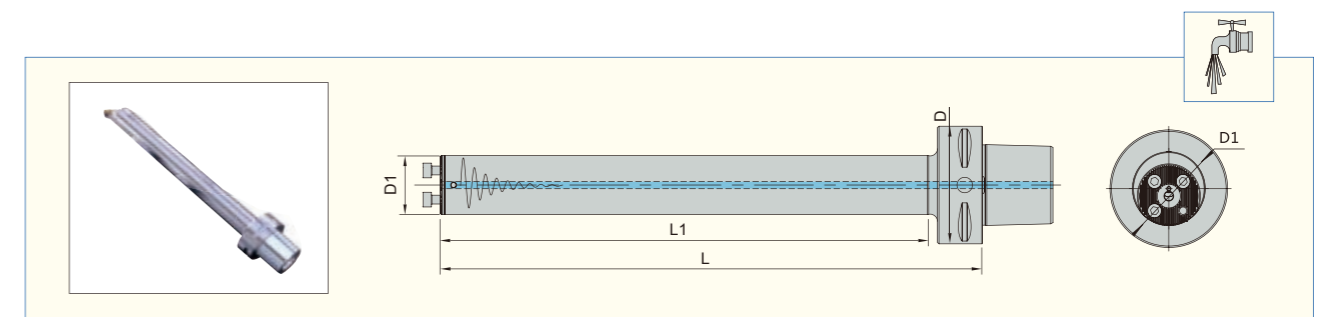
规格型号 Designation	D	D1	L	L1	KG	适配刀头 Cartridge	在库 Stock
C6 AT16X088V	63	16	88	58	1.01	VT16..	●
C6 AT20X108V	63	20	108	73	1	VT20..	●
C6 AT25X132V	63	25	132	103	1.35	VT25..	○
C6 AT25X230V	63	25	230	197	1.7	VT25..	○
C6 AT32X159V	63	32	159	129	1.8	VT32..	●
C6 AT32X288V	63	32	288	257	2.7	VT32..	●
C6 AT40X198V	63	40	198	169	2.6	VT40..	○
C6 AT40X368V	60	40	368	338	4.2	VT40..	○

- 刀杆有内冷出水孔。
- 适配刀头需单独订购，请参照：B7-B24 页。
- 若出现减振性能下降时，建议维修保养。
- 订货示例：1 件 C6 AT16X088V。
- With coolant hole.
- The cartridge should be ordered separately, please see page B7-B24.
- The reducing head should be ordered separately.
- Suggest doing the maintenance when damping capacity is weaker than before.
- Ordering sample: 1 PC C6 AT16X088V.

备件

Spare Parts

D1	刀头锁紧螺钉 Clamp screw for cartridge	刀头锁紧扳手 Allen key for cartridge clamping screw
16	SR55-2 M3x10	KEY01 M2.5
20	SR55-2 M3.5x10	KEY01 M2.5
25	SR55-2 M4x12	KEY01 M3
32	SR55-2 M5x12	KEY01 M4
40	SR55-2 M6x16	KEY01 M5



规格型号 Designation	D	D1	D2	L	L1	KG	适配刀头 Cartridge	在库 Stock
C6 AT40-D50x247V.R/L	63	50	40	247	222	4.2	VT40..	●
C6 AT40-D50x468V.R/L	63	50	40	468	440	7.4	VT40..	●
C6 AT40-D60x295V.R/L	63	60	40	295	273	6.8	VT40..	○
C6 AT40-D60x568V.R/L	60	60	40	568	545	12.2	VT40..	○

- 刀杆有内冷出水孔。
- 适配刀头需单独订购，请参照：B5-B22 页。
- 若出现减振性能下降时，建议维修保养。
- 订货示例：1 件 C6 AT40-D50x247V.R.
- With coolant hole.
- The cartridge should be ordered separately, please see page B5-B22.
- Suggest doing the maintenance when damping capacity is weaker than before.
- Ordering sample: 1 PC C6 AT40-D50x247V.R.

- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

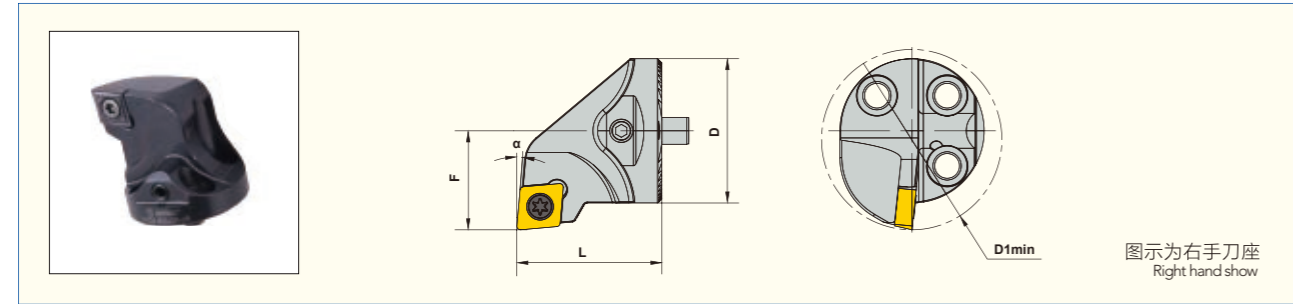
DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀刀头

Cartridge for Damping Turning Tool Holder

正型 95° 正镗

Positive Type 95° Boring



规格型号 Designation	D	D1 min	F	L	α°	Kg	适配刀片 Insert	在庫 Stock
VT16 SLCR-06	16	20	11	20	5°	0.02	CC..0602..	●
VT20 SLCR-09	20	25	13	20	5°	0.03	CC..09T3..	●
VT25 SLCR-09	25	32	17	20	5°	0.04	CC..09T3..	●
VT32 SLCR-09	32	40	22	32	5°	0.1	CC..09T3..	●
VT40 SLCR-12T	40	50	27	38	5°	0.2	CC..1204..	●
VT16 SCLCL-06	16	20	11	20	5°	0.02	CC..0602..	●
VT20 SCLCL-09	20	25	13	20	5°	0.03	CC..09T3..	●
VT25 SCLCL-09	25	32	17	20	5°	0.04	CC..09T3..	●
VT32 SCLCL-09	32	40	22	32	5°	0.1	CC..09T3..	●
VT40 SCLCL-12T	40	50	27	38	5°	0.2	CC..1204..	●

- 刀片请根据不同材料单独订购, 请参照: A91 页。
- 订货示例: 1 件 VT16 SLCR-06.
- The insert should be ordered separately, please see page A91.
- Ordering sample: 1 PC VT16 SLCR-06.

备件

Spare Parts

规格型号 Designation	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping	刀垫 Shim	刀垫螺套 Sleeve for shim	刀垫扳手 Allen key for shim	定位销 Locating pin
VT16 ...06	SR21 M2.5x5.3	KEY02 T7	-	-	-	FT39 D4-3x7
VT20 ...09	SR21 M4x9.5	KEY02 T15	-	-	-	FT39 D6-5x8
VT25 ...09	SR21 M4x9.5	KEY02 T15	-	-	-	FT39 D6-5x9
VT32 ...09	SR21 M4x9.5	KEY02 T15	-	-	-	FT39 D6-5x11
VT40 ...12T	SR21 M5x12.8	KEY02 T20	ST01 CC12x2.8	SRT M7-M5x13	KEY01 M3	FT39 D6-5x11

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

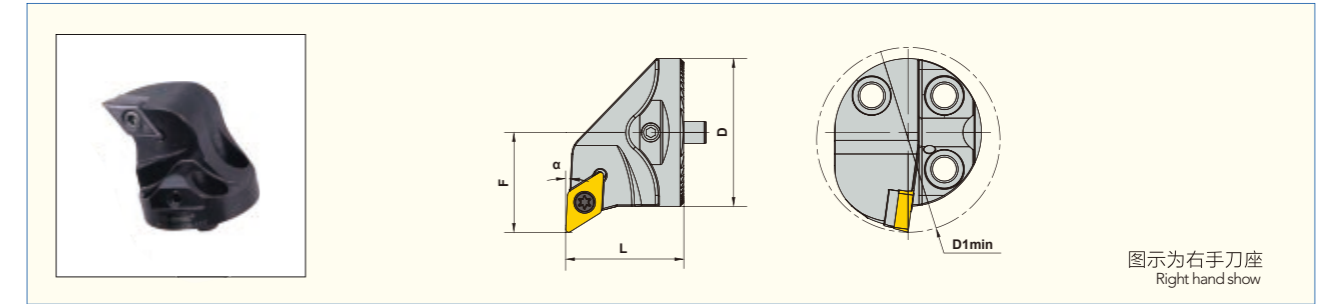
DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀刀头

Cartridge for Damping Turning Tool Holder

正型 93° 正镗

Positive Type 93° Boring



规格型号 Designation	D	D1 min	F	L	α°	Kg	适配刀片 Insert	在庫 Stock
VT16 SDUCR-07	16	20	11	20	3°	0.02	DC..0702..	●
VT20 SDUCR-11	20	25	13	20	3°	0.03	DC..11T3..	●
VT25 SDUCR-11	25	32	17	20	3°	0.04	DC..11T3..	●
VT32 SDUCR-11T	32	40	22	32	3°	0.1	DC..11T3..	●
VT40 SDUCR-11T	40	50	27	32	3°	0.2	DC..11T3..	●
VT16 SDUCL-07	16	20	11	20	3°	0.02	DC..0702..	●
VT20 SDUCL-11	20	25	13	20	3°	0.03	DC..11T3..	●
VT25 SDUCL-11	25	32	17	20	3°	0.04	DC..11T3..	●
VT32 SDUCL-11T	32	40	22	32	3°	0.1	DC..11T3..	●
VT40 SDUCL-11T	40	50	27	32	3°	0.2	DC..11T3..	●

- 刀片请根据不同材料单独订购, 请参照: F107 页。
- 订货示例: 1 件 VT16 SDUCR-07.
- The insert should be ordered separately, please see page F107.
- Ordering sample: 1 PC VT16 SDUCR-07.

备件

Spare Parts

规格型号 Designation	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping	刀垫 Shim	刀垫螺套 Sleeve for shim	刀垫扳手 Allen key for shim	定位销 Locating pin
VT16 ...07	SR21 M2.5x5.3	KEY02 T7	-	-	-	FT39 D4-3x7
VT20 ...11	SR21 M4x11	KEY02 T15	-	-	-	FT39 D6-5x8
VT25 ...11	SR21 M4x11	KEY02 T15	-	-	-	FT39 D6-5x9
VT32 ...11T	SR21 M4x11	KEY02 T15	ST01 DC11x2.82	SRT M6-M4x6.9	KEY01 M4	FT39 D6-5x11
VT40 ...11T	SR21 M4x11	KEY02 T15	ST01 DC11x2.82	SRT M6-M4x6.9	KEY01 M4	FT39 D6-5x11

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

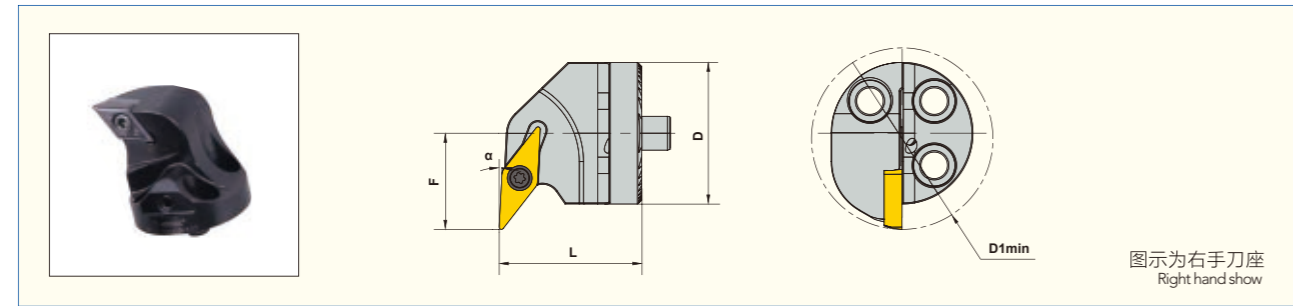
DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀刀头

Cartridge for Damping Turning Tool Holder

正型 93° 正镗及仿形车

Positive Type 93° Boring and Profile-turning



规格型号 Designation	D	D1 min	F	L	α°	Kg	适配刀片 Insert	在庫 Stock
VT20 SVUCR-11	20	27	16	20	3°	0.02	VC..1103..	●
VT25 SVUCR-11	25	31	17	25	3°	0.04	VC..1103..	●
VT20 SVUCL-11	20	27	16	20	3°	0.02	VC..1103..	○
VT25 SVUCL-11	25	31	17	25	3°	0.04	VC..1103..	○

- 刀片请根据不同材料单独订购, 请参照: F113 页。
- 订货示例: 1 件 VT20 SVUCR-11。
- The insert should be ordered separately, please see page F113.
- Ordering sample: 1 PC VT20 SVUCR-11.

备件

Spare Parts



规格型号 Designation	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping	定位销 Locating pin
VT20 ...-11	SR20 M2.5x6	KEY02 T8	FT39 D6-5x8
VT25 ...-11	SR20 M2.5x6	KEY02 T8	FT39 D6-5x9

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

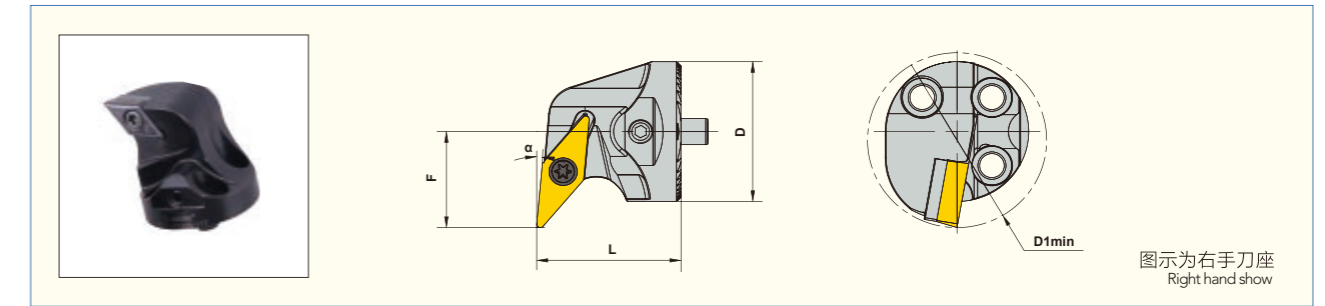
DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀刀头

Cartridge for Damping Turning Tool Holder

正型 95° 正镗及仿形车

Positive Type 95° Boring and Profile-turning



规格型号 Designation	D	D1 min	F	L	α°	Kg	适配刀片 Insert	在庫 Stock
VT32 SVLCR-16T	32	40	22	32	5°	0.1	VC..1604..	●
VT40 SVLCR-16T	40	50	27	32	5°	0.15	VC..1604..	●
VT32 SVLCL-16T	32	40	22	32	5°	0.1	VC..1604..	○
VT40 SVLCL-16T	40	50	27	32	5°	0.15	VC..1604..	○

- 刀片请根据不同材料单独订购, 请参照: F113 页。
- 订货示例: 1 件 VT32 SVLCR-16T。
- The insert should be ordered separately, please see page F113.
- Ordering sample: 1 PC VT32 SVLCR-16T.

备件

Spare Parts



规格型号 Designation	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping	刀垫 Shim	刀垫螺套 Sleeve for shim	刀垫扳手 Allen key for shim	定位销 Locating pin
VT32 ...-16T	SR21 M4x11	KEY02 T15	ST01 VC16x2.82	SRT M6-M4x6.9	KEY01 M4	FT39 D6-5x11
VT40 ...-16T	SR21 M4x11	KEY02 T15	ST01 VC16x2.82	SRT M6-M4x6.9	KEY01 M4	FT39 D6-5x11

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

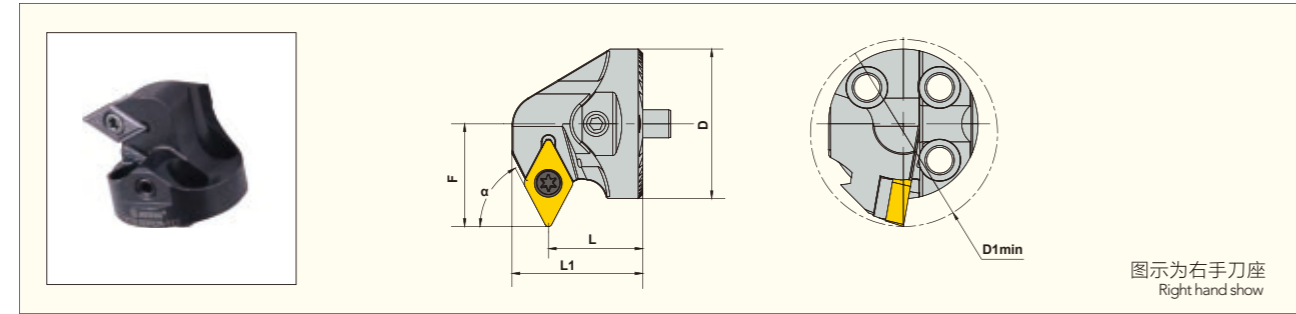
DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀刀头

Cartridge for Damping Turning Tool Holder

正型 62.5° 仿形车

Positive Type 62.5° Profile-turning



规格型号 Designation	D	D1 min	F	L	L1	α°	Kg	适配刀片 Insert	在庫 Stock
VT16 SDPCR-07	16	22	13	15	19	62.5°	0.01	DC..0702..	●
VT20 SDPCR-07	20	27	15	15	19	62.5°	0.02	DC..0702..	●
VT25 SDPCR-07	25	33	18	15	19	62.5°	0.03	DC..0702..	●
VT32 SDPCR-11T	32	40	22	20	28	62.5°	0.09	DC..11T3..	●
VT40 SDPCR-11T	40	50	27	20	28	62.5°	0.14	DC..11T3..	●
VT16 SDPCL-07	16	22	13	15	19	62.5°	0.01	DC..0702..	●
VT20 SDPCL-07	20	27	15	15	19	62.5°	0.02	DC..0702..	●
VT25 SDPCL-07	25	33	18	15	19	62.5°	0.03	DC..0702..	●
VT32 SDPCL-11T	32	40	22	20	28	62.5°	0.09	DC..11T3..	●
VT40 SDPCL-11T	40	50	27	20	28	62.5°	0.14	DC..11T3..	●

- 刀片请根据不同材料单独订购, 请参照: F107 页。
- 订货示例: 1 件 VT16 SDPCR-07。
- The insert should be ordered separately, please see page F107.
- Ordering sample: 1 PC VT16 SDZCR-07.

备件

Spare Parts



规格型号 Designation	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping	刀垫 Shim	刀垫螺套 Sleeve for shim	刀垫扳手 Allen key for shim	定位销 Locating pin
VT16 ..-07	SR21 M2.5x5.3	KEY02 T7	-	-	-	FT39 D4-3x7
VT20 ...-07	SR21 M2.5x5.3	KEY02 T7	-	-	-	FT39 D6-5x8
VT25 ..-07	SR21 M2.5x5.3	KEY02 T7	-	-	-	FT39 D6-5x9
VT32 ...-11T	SR21 M4x11	KEY02 T15	ST01 DC11x2.82	SRT M6-M4x6.9	KEY01 M4	FT39 D6-5x11
VT40 ...-11T	SR21 M4x11	KEY02 T15	ST01 DC11x2.82	SRT M6-M4x6.9	KEY01 M4	FT39 D6-5x11

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

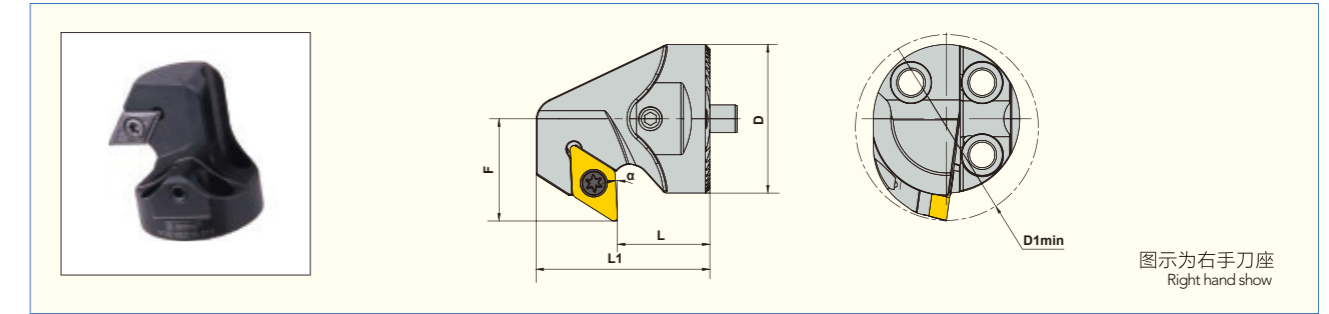
DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀刀头

Cartridge for Damping Turning Tool Holder

正型 93° 反镗

Positive Type 93° Back Boring



规格型号 Designation	D	D1 min	F	L	L1	α°	Kg	适配刀片 Insert	在庫 Stock
VT16 SDZCR-07	16	22	13	15	27	3°	0.03	DC..0702..	●
VT20 SDZCR-07	20	27	15	15	27	3°	0.05	DC..0702..	●
VT25 SDZCR-07	25	33	18	15	27	3°	0.12	DC..0702..	●
VT32 SDZCR-11T	32	40	22	20	38	3°	0.14	DC..11T3..	●
VT40 SDZCR-11T	40	50	27	20	38	3°	0.19	DC..11T3..	●
VT16 SDZCL-07	16	22	13	15	27	3°	0.03	DC..0702..	●
VT20 SDZCL-07	20	27	15	15	27	3°	0.05	DC..0702..	●
VT25 SDZCL-07	25	33	18	15	27	3°	0.12	DC..0702..	●
VT32 SDZCL-11T	32	40	22	20	38	3°	0.14	DC..11T3..	●
VT40 SDZCL-11T	40	50	27	20	38	3°	0.19	DC..11T3..	●

- 刀片请根据不同材料单独订购, 请参照: F107 页。
- 订货示例: 1 件 VT16 SDZCR-07。
- The insert should be ordered separately, please see page F107.
- Ordering sample: 1 PC VT16 SDZCR-07.

备件

Spare Parts



规格型号 Designation	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping	刀垫 Shim	刀垫螺套 Sleeve for shim	刀垫扳手 Allen key for shim	定位销 Locating pin
VT16 ..-07	SR21 M2.5x5.3	KEY02 T7	-	-	-	FT39 D4-3x7
VT20 ...-07	SR21 M2.5x5.3	KEY02 T7	-	-	-	FT39 D6-5x8
VT25 ..-07	SR21 M2.5x5.3	KEY02 T7	-	-	-	FT39 D6-5x9
VT32 ...-11T	SR21 M4x11	KEY02 T15	ST01 DC11x2.82	SRT M6-M4x6.9	KEY01 M4	FT39 D6-5x11
VT40 ...-11T	SR21 M4x11	KEY02 T15	ST01 DC11x2.82	SRT M6-M4x6.9	KEY01 M4	FT39 D6-5x11

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

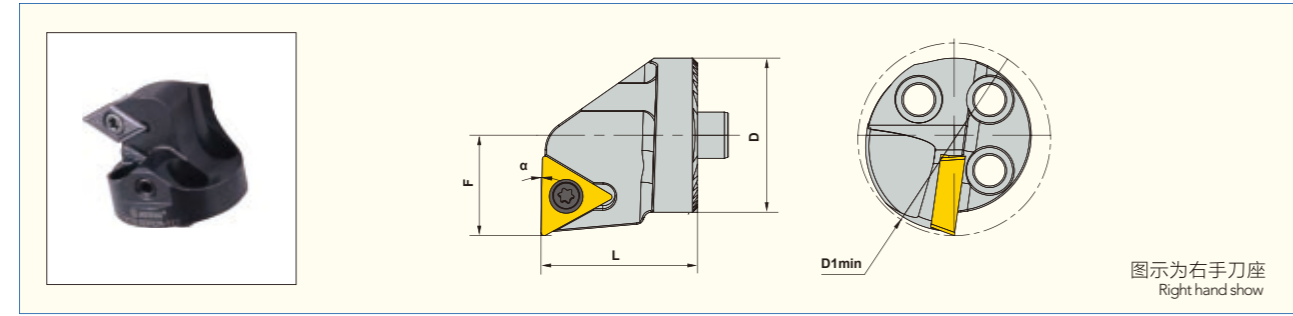
DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀刀头

Cartridge for Damping Turning Tool Holder

正型 91° 正镗

Positive Type 91° Profile-turning



规格型号 Designation	D	D1 min	F	L	α°	Kg	适配刀片 Insert	在庫 Stock
VT16 STFCR-09	16	20	11	20	1°	0.02	TC..0902..	●
VT16 STFCR-11	16	20	11	20	1°	0.02	TC..1102..	●
VT20 STFCR-11	20	25	13	20	1°	0.03	TC..1102..	●
VT25 STFCR-11	25	32	17	20	1°	0.04	TC..1102..	●
VT32 STFCR-16	32	40	22	32	1°	0.10	TC..16T3..	●
VT40 STFCR-16	40	50	27	32	1°	0.20	TC..16T3..	●
VT16 STFCL-09	16	20	11	20	1°	0.02	TC..0902..	●
VT16 STFCL-11	16	20	11	20	1°	0.02	TC..1102..	●
VT20 STFCL-11	20	25	13	20	1°	0.03	TC..1102..	●
VT25 STFCL-11	25	32	17	20	1°	0.04	TC..1102..	●
VT32 STFCL-16	32	40	22	32	1°	0.10	TC..16T3..	●
VT40 STFCL-16	40	50	27	32	1°	0.20	TC..16T3..	●

- 刀片请根据不同材料单独订购，请参照：A93 页。
- 订货示例：1 件 VT16 STFCL-09。
- The insert should be ordered separately, please see page A93.
- Ordering sample: 1 PC VT16 STFCL-09.

备件

Spare Parts



规格型号 Designation	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping	定位销 Locating pin
VT16...-09	SR20 M2.2x5.6	KEY02 T7	FT39 D4-3x7
VT16...-11	SR20 M2.5x6	KEY02 T8	FT39 D4-3x7
VT20...-11	SR20 M2.5x6	KEY02 T8	FT39 D6-5x8
VT25...-11	SR20 M2.5x6	KEY02 T8	FT39 D6-5x9
VT32...-16	SR21 M4x9.5	KEY02 T15	FT39 D6-5x11
VT40...-16	SR21 M4x9.5	KEY02 T15	FT39 D6-5x11

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

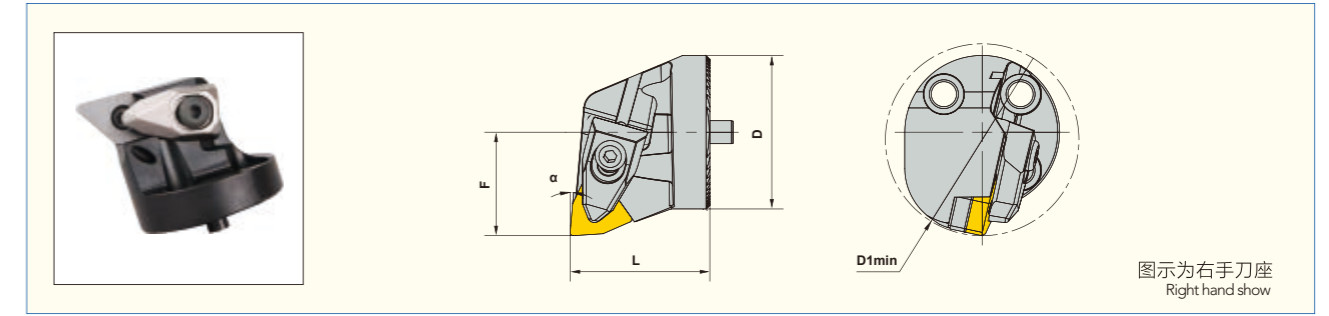
DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀刀头

Cartridge for Damping Turning Tool Holder

负型 95° 正镗

Positive Type 95° Profile-turning



规格型号 Designation	D	D1 min	F	L	α°	Kg	适配刀片 Insert	在庫 Stock
VT32 DWLNR-06T	32	40	22	32	5°	0.11	WN..0604..	●
VT32 DWLNR-08T	32	46	24	36	5°	0.12	WN..0804..	●
VT40 DWLNR-08T	40	50	27	36	5°	0.23	WN..0804..	●
VT32 DWLNL-06T	32	40	22	32	5°	0.11	WN..0604..	●
VT32 DWLNL-08T	32	46	24	36	5°	0.12	WN..0804..	●
VT40 DWLNL-08T	40	50	27	36	5°	0.23	WN..0804..	●

- 刀片请根据不同材料单独订购。
- 订货示例：1 件 VT32 DWLNR-06T。
- The insert should be ordered separately.
- Ordering sample: 1 PC VT32 DWLNR-06T.

备件

Spare Parts



规格型号 Designation	压板 Clamping pad	压板弹簧 Spring for clamping pad	压板螺钉 Screw for clamping pad	刀垫 Shim	压板扳手 Allen key for clamping pad	刀垫锁紧螺钉 Clamping screw for shim	刀垫锁紧扳手 Allen key for shim	定位销 Locating pin
VT32...-06T	PB10 DDN11	YH 7x0.6x13	SR59 M4x16	ST01 WN06x3.18	KEY01 M2.5	SR20 M4x9.5	KEY02 T15	FT39 D6-5x11
VT32...-08T	PB10 DCN12	YH 8x0.6x13	SR59 M5x20	ST01 WN08x3.18	KEY01 M3	SR20 M5x10	KEY02 T20	FT39 D6-5x11
VT40...-08T	PB10 DCN12	YH 8x0.6x13	SR59 M5x20	ST01 WN08x6.35	KEY01 M3	SR20 M4x9.5	KEY02 T15	FT39 D6-5x11

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

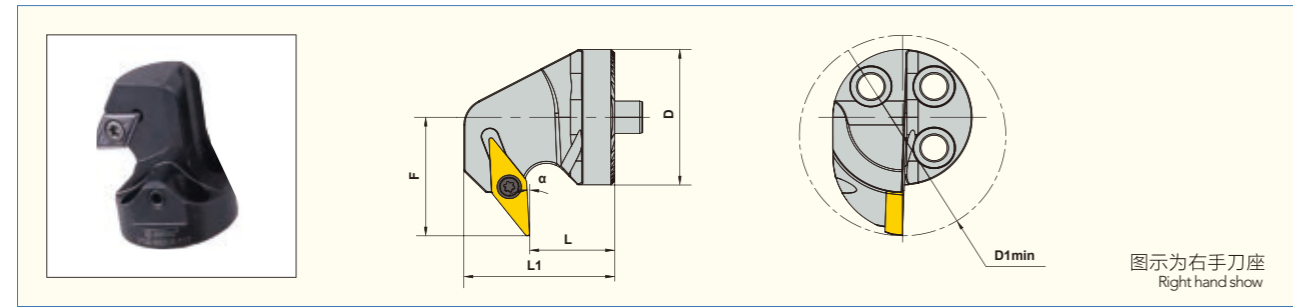
DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀刀头

Cartridge for Damping Turning Tool Holder

正型 93° 反镗及仿形车

Positive Type 93° Back Boring and Profile-turning

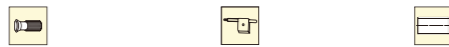


规格型号 Designation	D	D1 min	F	L	L1	α°	KG	适配刀片 Insert	在庫 Stock
VT20 SVZCR-11	20	32	20	15	27	3°	0.03	VC.. 1103..	●
VT25 SVZCR-11	25	37	22	15	27	3°	0.05	VC.. 1103..	●
VT20 SVZCL-11	20	32	20	15	27	3°	0.03	VC.. 1103..	●
VT25 SVZCL-11	25	37	22	15	27	3°	0.05	VC.. 1103..	●

- 刀片请根据不同材料单独订购, 请参照: F113 页。
- 订货示例: 1 件 VT20 SVZCR-11。
- The insert should be ordered separately, please see page F113.
- Ordering sample: 1 PC VT20 SVZCR-11.

备件

Spare Parts



规格型号 Designation	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping	定位销 Locating pin
VT20 ...-11	SR20 M2.5x6	KEY02 T8	FT39 D6-5x8
VT25 ...-11	SR20 M2.5x6	KEY02 T8	FT39 D6-5x9

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

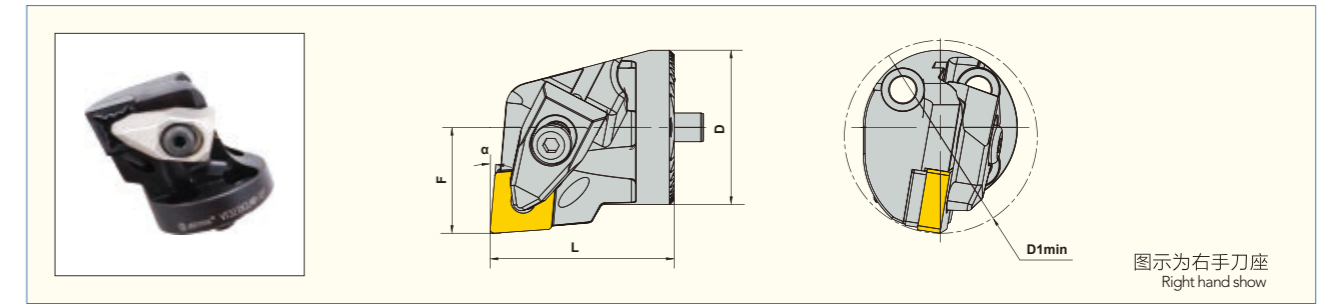
DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀刀头

Cartridge for Damping Turning Tool Holder

负型 95° 正镗

Negative Type 95° Boring



规格型号 Designation	D	D1 min	F	L	α°	kg	适配刀片 Insert	在庫 Stock
VT32 DCLNR-12T	32	40	22	38	5°	0.12	CN.. 1204..	●
VT40 DCLNR-12T	40	50	27	38	5°	0.21	CN.. 1204..	●
VT32 DCLNL-12T	32	40	22	38	5°	0.12	CN.. 1204..	●
VT40 DCLNL-12T	40	50	27	38	5°	0.21	CN.. 1204..	●

- 刀片请根据不同材料单独订购, 请参照: F106 页。
- 订货示例: 1 件 VT32 DCLNR-12T。
- The insert should be ordered separately, please see page F106.
- Ordering sample: 1 PC VT32 DCLNR-12T.

备件

Spare Parts



规格型号 Designation	压板 Clamping pad	压板弹簧 Spring for clamping pad	压板螺钉 Screw for clamping pad	刀垫 Shim	压板扳手 Allen key for clamping pad	刀垫锁紧螺钉 Clamping screw for shim	刀垫锁紧扳手 Allen key for shim	定位销 Locating pin
VT32 ...-12T	PB10 DCN12	YH 8x0.6x13	SR59 M5x20	ST01 CN12x3.2	KEY01 M3	SR20 M5x10	KEY02 T20	FT39 D6-5x11
VT40 ...-12T	PB10 DCN12	YH 8x0.6x13	SR59 M5x20	ST01 CN12x3.2	KEY01 M3	SR20 M5x10	KEY02 T20	FT39 D6-5x11

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

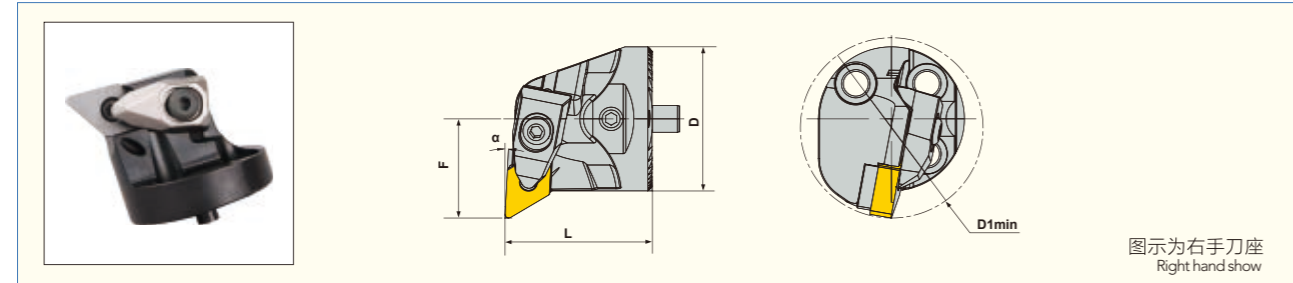
DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀刀头

Cartridge for Damping Turning Tool Holder

负型 93° 正镗及仿形车

Negative Type 93° Boring and Profile-turning



规格型号 Designation	D	D1 min	F	L	α°	Kg	适配刀片 Insert	在庫 Stock
VT32 DDUNL-11T	32	40	22	32	3°	0.11	DN.. 1104..	○
VT40 DDUNL-15T	40	50	27	38	3°	0.18	DN.. 1506..	○
VT32 DDUNR-11T	32	40	22	32	3°	0.11	DN.. 1104..	○
VT40 DDUNR-15T	40	50	27	38	3°	0.18	DN.. 1506..	○
VT40 DVUNR-16T	40	56	34	38	3°	0.2	VN.. 1604..	○
VT40 DVUNL-16T	40	56	34	38	3°	0.2	VN.. 1604..	○

- 刀片请根据不同材料单独订购, 请参照: F108 页。
- 订货示例: 1 件 VT32 DDUNL-11T。
- The insert should be ordered separately, please see page F108.
- Ordering sample: 1 PC VT32 DDUNL-11T.

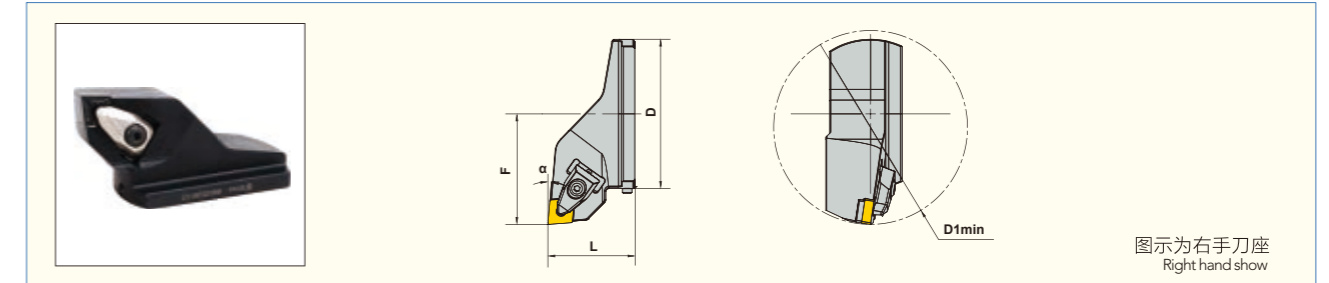
DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀刀头

Cartridge for Damping Turning Tool Holder

负型 95° 正镗

Negative Type 95° Boring



规格型号 Designation	D	D1 min	F	L	α°	Kg	适配刀片 Insert	在庫 Stock
VH80 DCLNR-12T	80	100	57	45	5°	0.49	CN.. 1204..	○
VH80 DCLNL-12T	80	100	57	45	5°	0.49	CN.. 1204..	○

- 刀片请根据不同材料单独订购, 请参照: F106 页。
- 订货示例: 1 件 VH80 DCLNR-12T。
- The insert should be ordered separately, please see page F106.
- Ordering sample: 1 PC VH80 DCLNR-12T.

备件

Spare Parts



规格型号 Designation	压板 Clamping pad	压板弹簧 Spring for clamping pad	压板螺钉 Screw for clamping pad	刀垫 Shim	压板扳手 Allen key for clamping pad	刀垫锁紧螺钉 Clamping screw for shim	刀垫锁紧扳手 Allen key for shim	定位销 Locating pin
VT32 ...-11T	PB10 DDN11	YH 7x0.6x13	SR59 M4x16	ST01 DN11x3.18	KEY01 M2.5	SR21 M4x9.5	KEY02 T15	FT39 D6-5x11
VT40 ...-15T	PB10 DCN12	YH 8x0.6x13	SR59 M5x20	ST01 DN15x4.76	KEY01 M3	SR20 M4x11.5	KEY02 T15	FT39 D6-5x11
VT40 ...-16T	PB10 DVN16	YH 9x0.8x14	SR59 M6x26.5	ST01 VN16x3.2	KEY01 M4	SR20 M3.5x8.5	KEY02 T10	FT39 D6-5x11

备件

Spare Parts



规格型号 Designation	压板 Clamping pad	压板弹簧 Spring for clamping pad	压板螺钉 Screw for clamping pad	刀垫 Shim	压板扳手 Allen key for clamping pad	刀垫锁紧螺钉 Clamping screw for shim	刀垫锁紧扳手 Allen key for shim
VH80 ...-12T	PB10 DCN12	YH 8x0.6x13	SR59 M5x20	ST01 CN12x3.2	KEY01 M3	SR20 M5x10	KEY02 T20

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

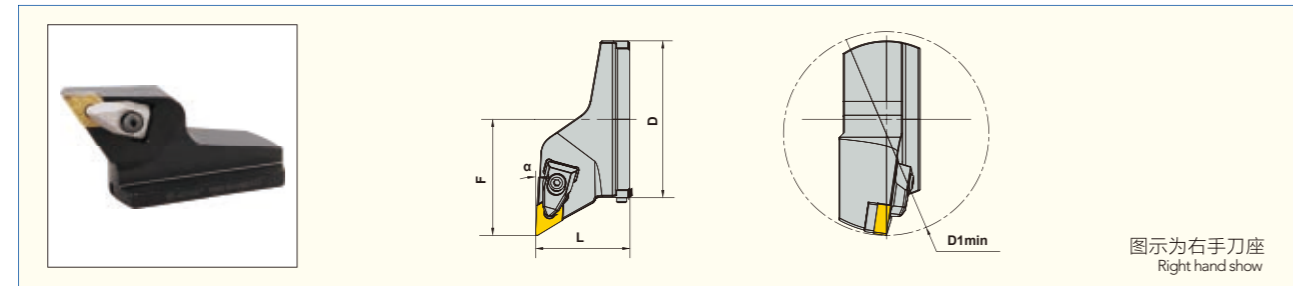
DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀刀头

Cartridge for Damping Turning Tool Holder

负型 93° 正镗及仿形车

Negative Type 93° Boring and Profile-turning



规格型号 Designation	D	D1 min	F	L	α°	Kg	适配刀片 Insert	在库 Stock
VH80 DDUNL-15T	80	100	57	46	3°	0.5	DN.. 1506..	○
VH80 DDUNR-15T	80	100	57	46	3°	0.5	DN.. 1506..	○

- 刀片请根据不同材料单独订购, 请参照: F108 页。
- 订货示例: 1 件 VH80 DDUNL-15T。
- The insert should be ordered separately, please see page F108.
- Ordering sample: 1 PC VH80 DDUNL-15T.

备件

Spare Parts



规格型号 Designation	压板 Clamping pad	压板弹簧 Spring for clamping pad	压板螺钉 Screw for clamping pad	刀垫 Shim	压板扳手 Allen key for clamping pad	刀垫锁紧螺钉 Clamping screw for shim	刀垫锁紧扳手 Allen key for shim
VH80 ..-15T	PB10 DCN12	YH 8x0.6x13	SR59 M5x20	ST01 DN15x4.76	KEY01 M3	SR20 M4x11.5	KEY02 T15

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

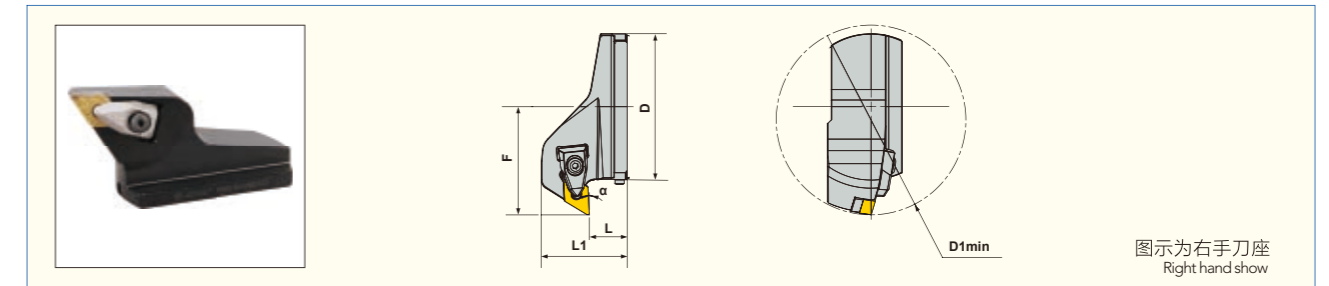
DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀刀头

Cartridge for Damping Turning Tool Holder

负型 93° 反镗及仿形车

Negative Type 93° Back Boring and Profile-turning



规格型号 Designation	D	D1 min	F	L	L1	α°	Kg	适配刀片 Insert	在库 Stock
VH80 DDZNR-15T	80	100	57	20	45	3°	0.55	DN.. 1506..	○
VH80 DDZNL-15T	80	100	57	20	45	3°	0.55	DN.. 1506..	○

- 刀片请根据不同材料单独订购, 请参照: F108 页。
- 订货示例: 1 件 VH80 DDZNR-15T。
- The insert should be ordered separately, please see page F108.
- Ordering sample: 1 PC VH80 DDZNR-15T.

备件

Spare Parts



规格型号 Designation	压板 Clamping pad	压板弹簧 Spring for clamping pad	压板螺钉 Screw for clamping pad	刀垫 Shim	压板扳手 Allen key for clamping pad	刀垫锁紧螺钉 Clamping screw for shim	刀垫锁紧扳手 Allen key for shim
VH80 ..-15T	PB10 DCN12	YH 8x0.6x13	SR59 M5x20	ST01 DN15x4.76	KEY01 M3	SR20 M4x11.5	KEY02 T15

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

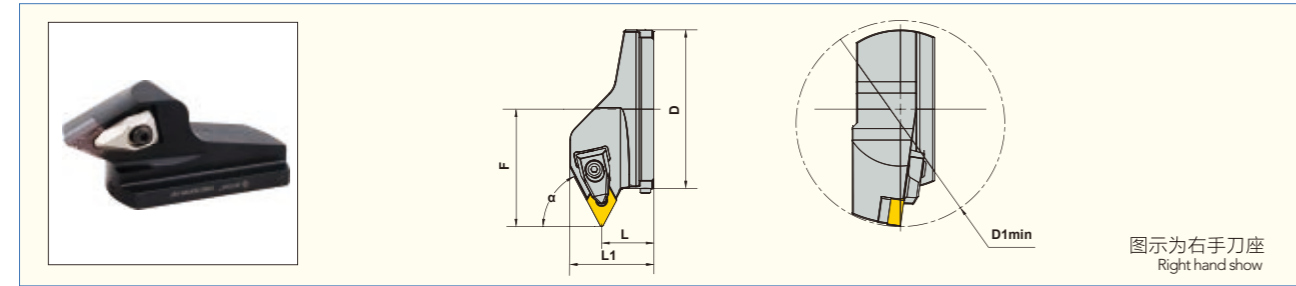
DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀刀头

Cartridge for Damping Turning Tool Holder

负型 62.5° 仿形车

Negative Type 62.5° Boring and Profile-turning



规格型号 Designation	D	D1 min	F	L	L1	α°	Kg	适配刀片 Insert	在庫 Stock
VH80 DDPNR-15T	80	100	57	25	40.3	62.5°	0.49	DN.. 1506..	○
VH80 DDPNL-15T	80	100	57	25	40.3	62.5°	0.49	DN.. 1506..	○

- 刀片请根据不同材料单独订购, 请参照: F108 页。
- 订货示例: 1 件 VH80 DDPNR-15T。
- The insert should be ordered separately, please see page F108.
- Ordering sample: 1 PC VH80 DDPNR-15T.

备件

Spare Parts



规格型号 Designation	压板 Clamping pad	压板弹簧 Spring for clamping pad	压板螺钉 Screw for clamping pad	刀垫 Shim	压板扳手 Allen key for clamping pad	刀垫锁紧螺钉 Clamping screw for shim	刀垫锁紧扳手 Allen key for shim
VH80 ...-15T	PB10 DCN12	YH 8x0.6x13	SR59 M5x20	ST01 DN15x4.76	KEY01 M3	SR20 M4x11.5	KEY02 T15

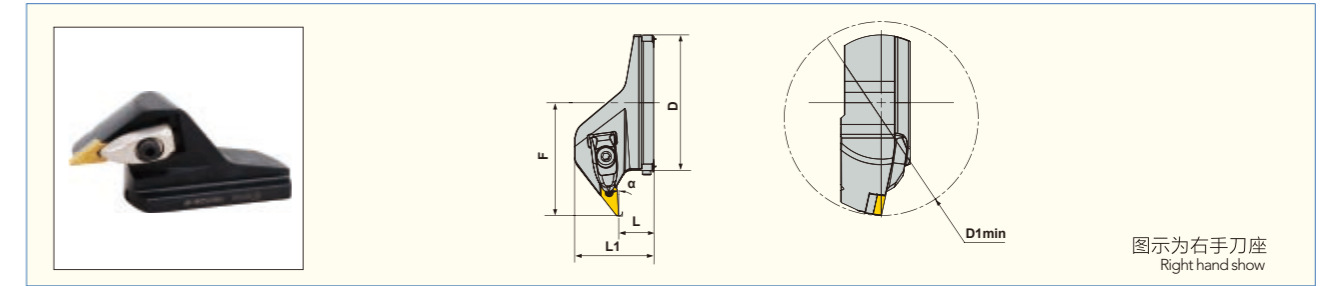
DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀刀头

Cartridge for Damping Turning Tool Holder

负型 93° 反镗及仿形车

Negative Type 93° Boring and Profile-turning



规格型号 Designation	D	D1 min	F	L	L1	α°	Kg	适配刀片 Insert	在庫 Stock
VH80 DVZNR-16T	80	110	64	20	45	3°	0.49	VN.. 1604..	○
VH80 DVZNL-16T	80	110	64	20	45	3°	0.49	VN.. 1604..	○

- 刀片请根据不同材料单独订购, 请参照: F114 页。
- 订货示例: 1 件 VH80 DVZNR-16T。
- The insert should be ordered separately, please see page F114.
- Ordering sample: 1 PC VH80 DVZNR-16T.

备件

Spare Parts



规格型号 Designation	压板 Clamping pad	压板弹簧 Spring for clamping pad	压板螺钉 Screw for c lamping pad	刀垫 Shim	压板扳手 Allen key for clamping pad	刀垫锁紧螺钉 Clamping screw for shim	刀垫锁紧扳手 Allen key for shim
VH80 ...-16T	PB10 DVN16	YH 9x0.8x14	SR59 M6x26.5	ST01 VN16x3.2	KEY01 M4	SR20 M3.5x8.5	KEY02 T10

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

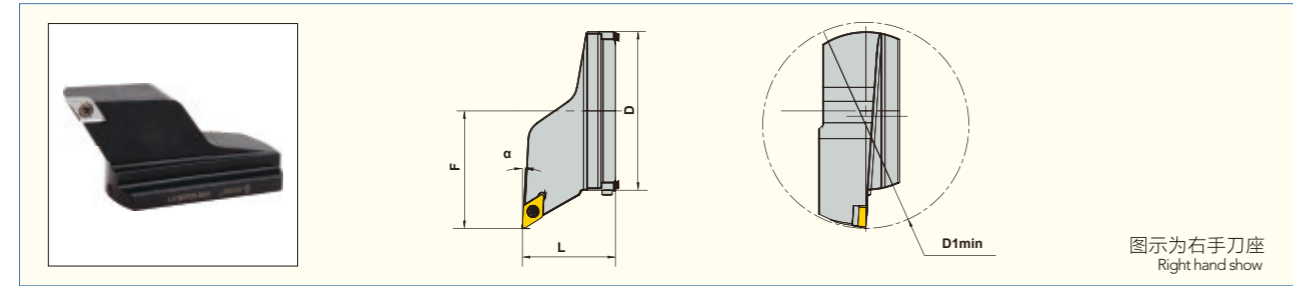
DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀刀头

Cartridge for Damping Turning Tool Holder

正型 93° 正镗及仿形车

Positive Type 93° Boring and Profile-turning



规格型号 Designation	D	D1 min	F	L	α°	Kg	适配刀片 Insert	在庫 Stock
VH80 SDUCR-11T	80	100	57	45	3°	0.5	DC.. 11T3..	●
VH80 SDUCL-11T	80	100	57	45	3°	0.5	DC.. 11T3..	●

- 刀片请根据不同材料单独订购，请参考：F107页。
- 订货示例：1件 VH80 SDUCR-11T。
- The insert should be ordered separately, please see page F107.
- Ordering sample: 1 PC VH80 SDUCR-11T.

备件

Spare Parts

规格型号 Designation	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping	刀垫 Shim	刀垫螺套 Sleeve for shim	刀垫扳手 Allen key for shim
VH80 ...-11T	SR21 M4x11	KEY02 T15	ST01 DC11x2.82	SRT M6-M4x6.9	KEY01 M4

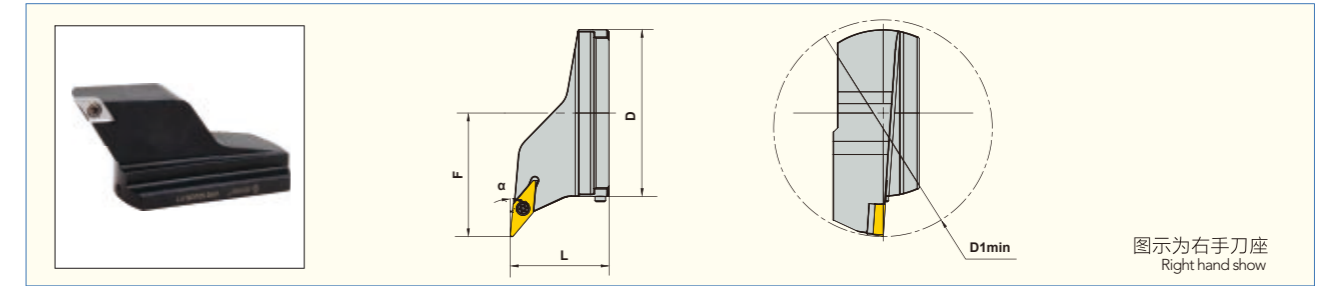
DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀刀头

Cartridge for Damping Turning Tool Holder

正型 95° 正镗及仿形车

Positive Type 95° Boring and Profile-turning



规格型号 Designation	D	D1 min	F	L	α°	Kg	适配刀片 Insert	在庫 Stock
VH80 SVLCR-16T	80	100	57	45	5°	0.44	VC.. 1604..	●
VH80 SVLCL-16T	80	100	57	45	5°	0.44	VC.. 1604..	●

- 刀片请根据不同材料单独订购，请参考：F113页。
- 订货示例：1件 VH80 SVLCR-16T。
- The insert should be ordered separately, please see page F113.
- Ordering sample: 1 PC VH80 SVLCR-16T.

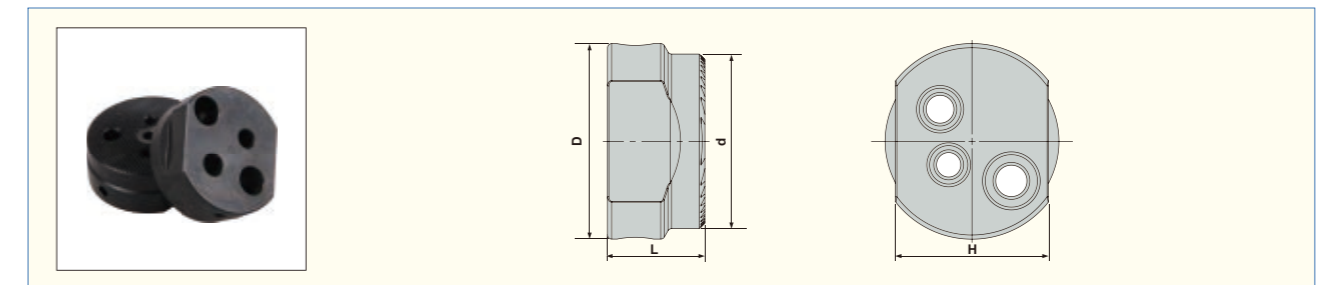
备件

Spare Parts

规格型号 Designation	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping	刀垫 Shim	刀垫螺套 Sleeve for shim	刀垫扳手 Allen key for shim
VH80 ...-16T	SR21 M4x11	KEY02 T15	ST01 VC16x2.82	SRT M6-M4x6.9	KEY01 M4

中心校准块

Centre Calibration Block



规格型号 Designation	D	d	H	L	适用刀杆 Boring bar	Kg	在庫 Stock
VTXZ 16-25	28	25	22	14	VT16/VT20/VT25	0.05	●
VTXZ 32-60	62	60	52	25	VT32/VT40/VT50/VT60	0.45	●

- 订货示例：1件 VTXZ 16-25
- Ordering sample: 1 PC VTXZ 16-25

● 标准库存
Item in stock

○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀使用说明

User Guide for Damping Turning Tool

减振刀具安装及调整

Assembly and Adjusting

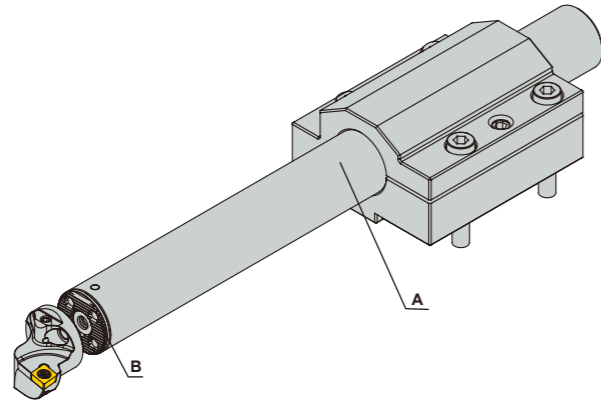
1. 准备

安装配合部位必须擦拭干净，如：减振刀杆及刀头 V 型定位槽、减振刀杆柄部外圆及安装座内孔，见下图 A、B 两处示意位置。

Assembly and Adjusting

Preparation

Wipe clean the positions which need to be assembled, like V geometric slot on the cartridge and shank, the end of the shank which will be connected with adaptor, and internal hole on the clamping holder. See A and B position on the following visual.

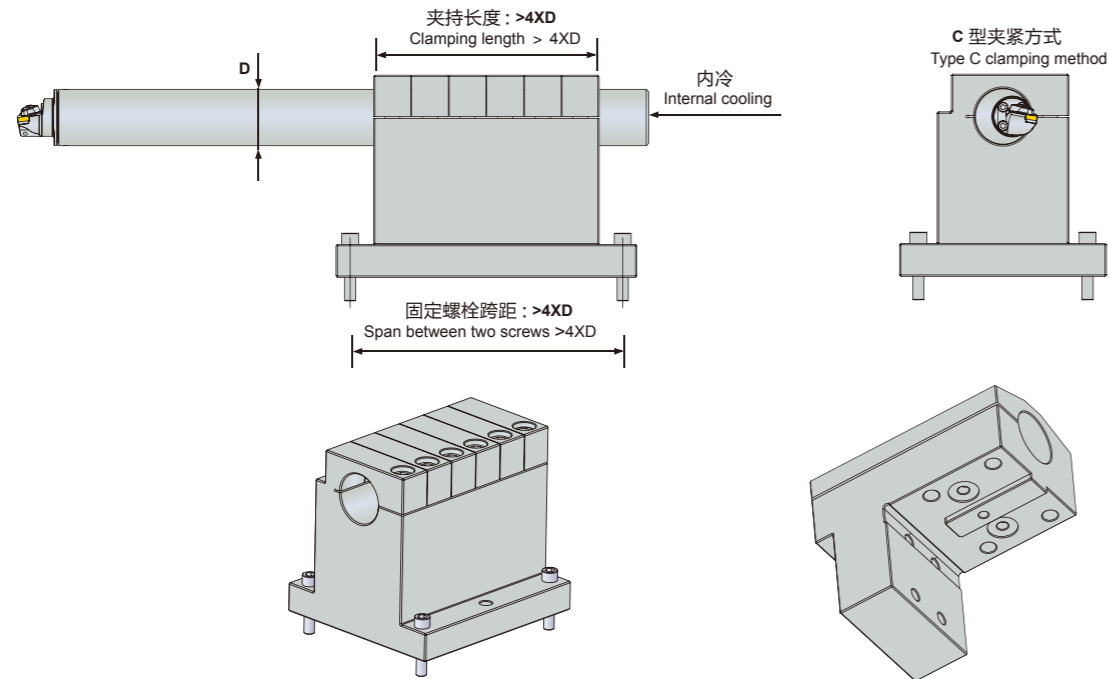


2. 刀杆的安装

安装夹持长度不少于刀杆径的 4 倍，使用开口夹套等抱紧装夹方式，禁止使用螺钉直压等锁紧方式，长时间使用必须使用内冷却，如下图所示。

Assembly for the Shank

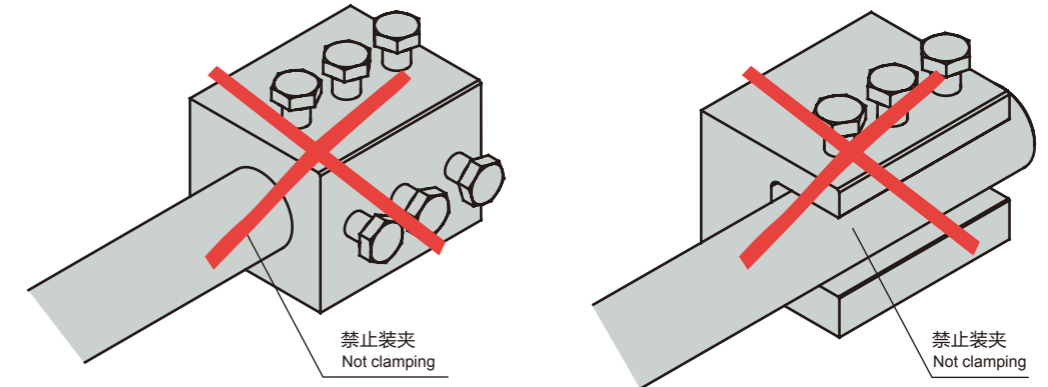
The clamping length should not be less than 4 L/D ratio. Suggest using the clamping cover with opening method and other holding clamping methods. Do not use screw clamping method. Use inner cooling please when working a long time.



DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀使用说明

User Guide for Damping Turning Tool

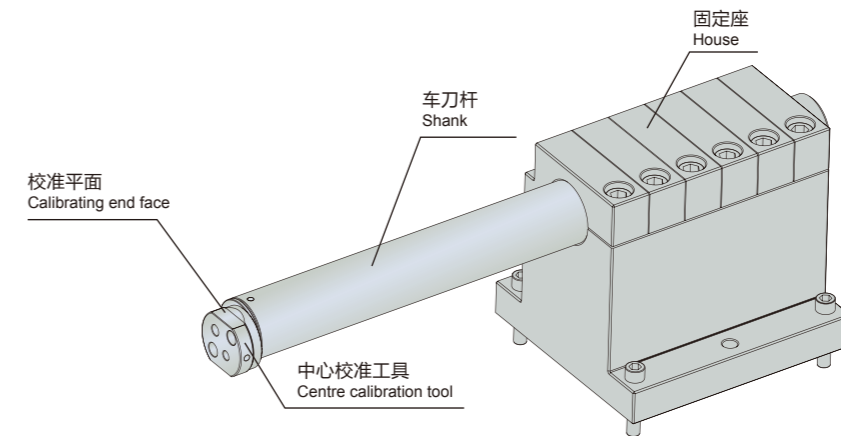


3. 中心高调整

首次安装刀杆需要使用专用中心高校准工具，安装于车刀杆齿形槽接口处，锁紧，沿机床 X 轴方向校准基准平面 0.01 以内，锁紧刀杆后拆掉校准工具。

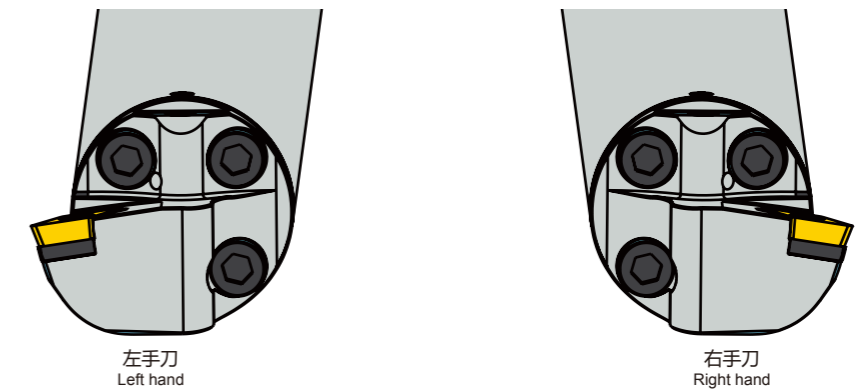
Adjust the Height of Centre

Exclusive calibration tool for the height of centre should be used when assembling the shank at the first time. Assemble the shank into the V geometric slot firstly, then calibrate it within 0.01 tolerance on the X-axis direction.



4. 安装正确的车刀头

Assemble the right cartridge, see below figure



DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀使用说明

User Guide for Damping Turning Tool

减振刀杆的长度调整

1. 推荐最小夹持长度 4xD
2. 镗杆可改制，切断后的长度如下表

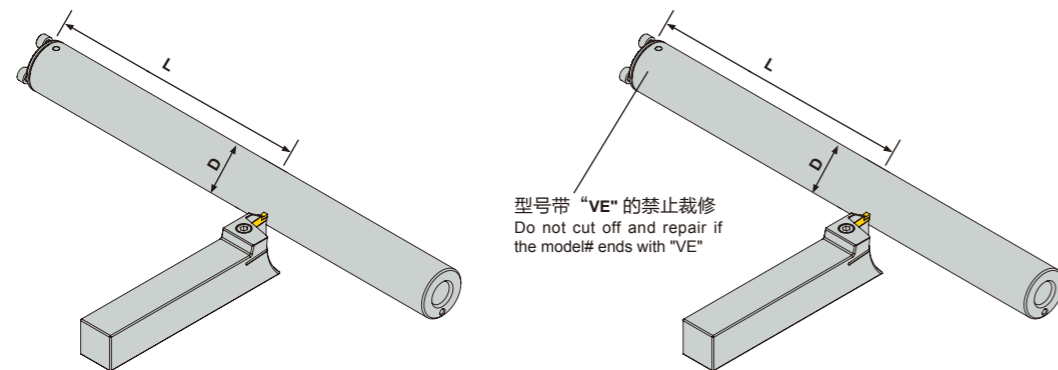
Adjusting the Length of the Shank

1. Suggested min. clamping length is 4xD
2. The boring bar can be cut off, the final length please see below figure: clamping holder. See A and B position on the following visual.

产品类别 Type		切断后的最小长度 (L) Min. length after cutting off	
D(mm)	4-7xD(mm)	7-10xD(mm)	
16	100	-	
20	125	-	
25	155	255	
32	190	320	
40	240	410	
50	305	520	
60	380	630	

3. 后缀为 VE 系列的车刀杆禁止切断调整长度，如：VT16 C16X204VE，如下图所示：

3. Please do not cut off the adjusting length if the shank designation ends in VE. Example: VT16 C16x204VE, see below figure:



DAMPING TURNING TOOL 阻尼减振车刀

阻尼减振车刀使用说明

User Guide for Damping Turning Tool

减振车刀使用环境要求

Environment for Damping Turning Tool

刀杆型号 Designation	悬伸长度 / 直径 Overhang length/ Diameter	内冷压力 MAX (Bar) MAX: Internal cooling pressure	使用温度 MAX(°C) Operating temperature
VT16 C16x156V	7	30	100
VT16 C16x204VE	10	30	100
VT20 C20x200V	7	30	100
VT20 C20x260VE	10	30	100
VT25 C25x255V	7	40	100
VT25 C25x330V	10	40	100
VT32 C32x320V	7	50	100
VT32 C32x416V	10	50	100
VT40 C40x408V	7	70	100
VT40 C40x528V	10	70	100
VT50 C50x518V	7	70	100
VT50 C50x668V	10	70	100
VT60 C60x628V	7	70	100
VT60 C60x808V	10	70	100
VH80 C80x880V	7	70	100
VH80 C80x1200V	10	70	100

DAMPING BORING TOOL

阻尼减振镗刀



B

阻尼减振刀具 DAMPING TOOLS

阻尼减振镗刀 Damping Boring Tool

VBR 系列阻尼减振粗镗刀	B31
VBR Damping Rough Boring Tool	
VBF 系列阻尼减振微调精镗刀	B34
VBF Damping Mini Precision Boring Tool	
VBF 系列阻尼减振微调精镗刀 (反精镗加工示意)	B37
VBF Damping Precision Back Boring Tool	
VLR 桥式阻尼减振粗镗刀	B38
VLR Damping Rough Boring Tool With Bridge	
VLF 桥式阻尼减振微调精镗刀	B39
VLF Damping Precision Boring Tool With Bridge	
VNL 桥式阻尼减振镗刀接杆	B40
VNL Damping Adaptor For Boring Tool With Bridge	

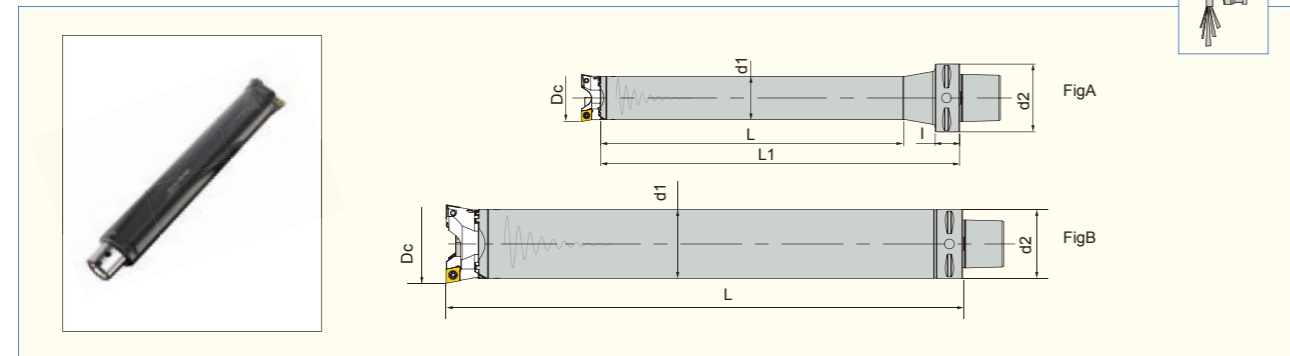
DAMPING BORING TOOL 阻尼减振镗刀

VBR 系列阻尼减振粗镗刀

VBR Damping Rough Boring Tool

双刃可调，镗孔加工范围 $\Phi 21-\Phi 153$ ，PSC 短锥模块化接口，矩形槽刀座接口，内置减振机构，可有效抑制深孔加工时所产生的振动。

Two teeth rough boring tool, diameter range is $\Phi 21-\Phi 153$. Hollow short taper modular type PSC connection, with rectangular guide slot cartridge. It can effectively control the vibration when for the deep hole working due to the damping mechanism.



规格型号 Designation	Dc	d1	d2	L	L1	I	Fig	Kg	适配刀座 Cartridge	在庫 Stock
VBR D40.C6.282	41-55	40	63	282	333	22.5	A	4.3	C90A D041-055.CC09	●
	53-67	40	63	282	333	22.5	A	4.3	C90A D40.5367.CC09	●
VBR D50.C6.357	55-70	50	63	357	432	22.5	A	7	C90A D055-070.CC09	●
	68-83	50	63	357	432	22.5	A	7	C90A D50.6883.CC09	●
VBR D63.C6.445	70-90	63	63	445	/	/	B	11	C90A D070-090.CC12	●
	88-108	63	63	445	/	/	B	11	C90A D63.88108.CC12	●

- 适配刀座需单独订购，请参照：A6-A8 页。
- 适配刀柄需单独订购。
- 刀具有内冷出水孔。
- 若出现减振能力下降时，建议维修保养。
- 订货示例：1 件 VBR D40.C6.282。
- The cartridge should be ordered separately, please see page A6-A8.
- The adaptor should be ordered separately.
- With coolant hole.
- Suggest doing the maintenance when damping capacity is weaker than before.
- Ordering sample: 1 PC VBR D40.C6.282.

备件

Spare Parts



Dc	刀座锁紧螺钉 Clamping screw for cartridge	碟形垫片 Disk spring	调整扳手 Allen key for adjusting screw
41-67mm	SR55 M6x20	GK20 D6	KEY01 M5
55-83mm	SR55 M6x20	GK20 D6	KEY01 M5
70-108mm	SR55 M8x25	GK20 D8	KEY01 M6

● 标准库存
Item in stock

● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

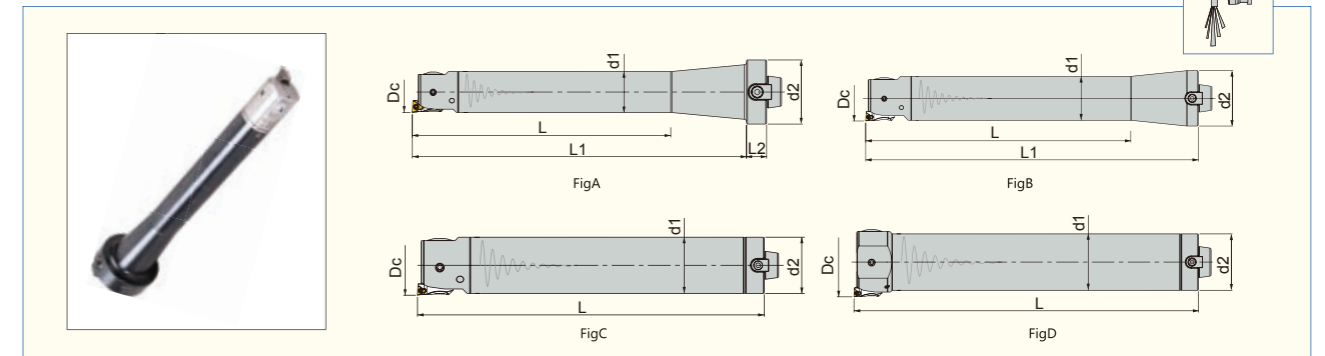
DAMPING BORING TOOL 阻尼减振镗刀

VBF 系列阻尼减振微调精镗刀

VBF Damping Mini Precision Boring Tool

单刃可微调，微调精度每格直径 0.01mm，加工范围 $\Phi 21-\Phi 212$ ，短锥模块式 E 接口，适配直压式精镗刀头，内置减振机构，可有效抑制深孔加工时所产生的振动。

It can be micro-adjusted with single tooth. 1 DIV=0.01mm in diameter. The diameter range is $\Phi 21-\Phi 212$. Hollow short taper modular type E connection. It can effectively control the vibration when for the deep hole working due to the damping mechanism.



规格型号 Designation	Dc	d1	d2	L	L1	L2	Fig	Kg	适配刀座 Cartridge	在庫 Stock
VBF D20.E50.130	21-26	20	50	130	170	16	A	1.0	FRB 10A...	●
	25-31	20	50	130	170	16	A	1.0	FRB 10B...	●
VBF D25.E50.155	30-36	20	50	130	170	16	A	1.0	FRB 10C...	●
	26-34	25	50	155	205	16	A	1.2	FRB 12A...	●
VBF D32.E50.200	33-41	25	50	155	205	16	A	1.2	FRB 12B...	●
	40-48	25	50	155	205	16	A	1.2	FRB 12C...	●
VBF D40.E50.245	33-43	32	50	200	262	16	A	2.2	FRB 16A...	●
	42-52	32	50	200	262	16	A	2.2	FRB 16B...	●
VBF D50.E63.305	42-54	40	50	245	325	-	B	3.8	FRB 20A...	●
	53-65	40	50	245	325	-	B	3.8	FRB 20B...	●
VBF D63.E63.385	64-76	40	50	245	325	-	B	3.8	FRB 20C...	●
	53-69	50	63	305	380	-	B	6.0	FRB 25A...	●
VBF D80.E80.485	68-84	50	63	305	380	-	B	6.0	FRB 25 B...	●
	83-99	50	63	305	380	-	B	6.0	FRB 25C...	●
VBF D100.E80.485	68-100	63	63	385	-	-	C	8.9	FRB 30A...	●
	98-130	63	63	385	-	-	C	8.9	FRB 30B...	●
VBF D126.E80.485	128-160	63	63	385	-	-	C	8.9	FRB 30C...	●
	88-120	80	80	485	-	-	C	18.1	FRB 30A...	●
VBF D152.E80.485	118-150	80	80	485	-	-	C	18.1	FRB 30B...	●
	148-180	80	80	485	-	-	C	18.1	FRB 30C...	●
VBF D178.E80.485	100-152	80	80	485	-	-	D	18.4	FRB 30A...	●
	130-182	80	80	485	-	-	D	18.4	FRB 30B...	●
VBF D212.E80.485	160-212	80	80	485	-	-	D	18.4	FRB 30C...	●

- 当 $d1 \leq 50$ 时，刀杆镗孔深度是镗孔直径的六倍，当 $d1 \geq 63$ 时，刀杆镗孔深度是镗杆直径的六倍。
- 精镗刀头需单独订购，请参照：A13-A14 页。
- 适配刀柄需单独订购，请参照：A41-A42 页。
- 刀具有内冷出水孔。
- 若出现减振能力下降时，建议维修保养。
- 订货示例：1 件 VBF D20.E50.130。
- Hole depth is 6D(hole diameter) when $d1 \leq 50$, and hole depth is 6D(tool body diameter) when $d1 \geq 63$.
- The cartridge should be ordered separately, please see page A13-A14.
- The adaptor should be ordered separately, please see page A41-A42.
- With coolant hole.
- Suggest doing the maintenance when damping capacity is weaker than before.
- Ordering sample: 1 PC VBF D20.E50.130

备件

Spare Parts



规格型号 Designation	LOCK 螺钉 Lock screw	平键 Flat key	平键锁紧螺钉 Clamping screw for flat key	刀头锁紧螺钉 Clamp screw for cartridge	刀头锁紧扳手 Allen key for cartridge clamping screw	调整扳手 Allen key for adjusting screw
VBF D20.E50.130	SR54-2 M4x4	PL04 12x9	SR55 M5x12	SR20 M4x6-X	KEY02 T15	KEY01 M2
VBF D25.E50.155	SR54-2 M4x6	PL04 12x9	SR55 M5x12	SR20 M4x8-X	KEY02 T15	KEY01 M2
VBF D32.E50.200	SR54-2 M5x8	PL04 12x9	SR55 M5x12	SR56 M5x10	KEY01 M3	KEY01 M2.5
VBF D40.E50.245	SR54 M6x10	PL04 12x9	SR55 M5x12	SR56 M5x12	KEY01 M3	KEY01 M3
VBF D50.E63.305	SR54 M6x12	PL04 14x12	SR55 M5x16	SR56 M6x16	KEY01 M4	KEY01 M3
VBF D63.E63.385	SR54 M10x16	PL04 14x12	SR55 M5x16	SR56 M8x20	KEY01 M5	KEY01 M5
VBF D80.E80.485	SR54 M10x20	PL04 16x14	SR55 M6x16	SR56 M8x25	KEY01 M5	KEY01 M5
VBF D100.E80.485	SR54 M10x20	PL04 16x14	SR55 M6x16	SR56 M8x25	KEY01 M5	KEY01 M5

● 标准库存
Item in stock

● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

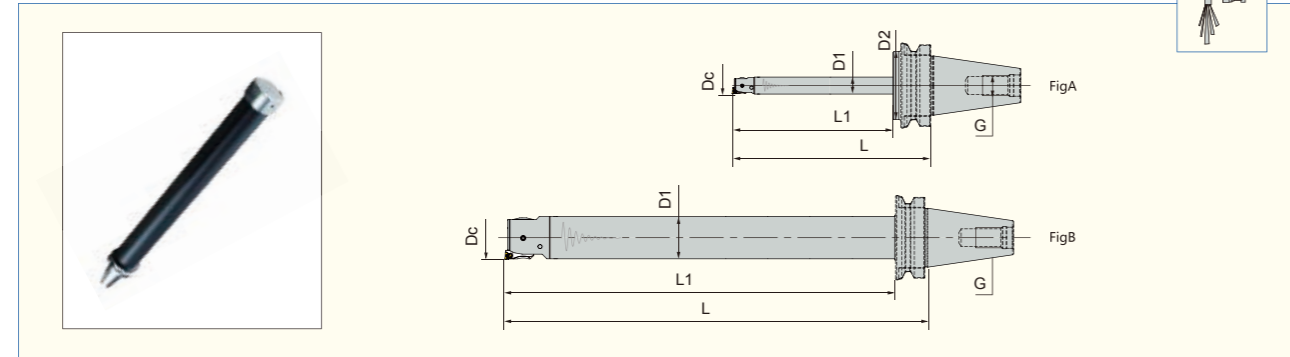
DAMPING BORING TOOL 阻尼减振镗刀

VBF 系列阻尼减振精镗刀 (整体式 10D)

VBF Damping Rough Boring Tool (Integral 10XD)

单刃可微调, 微调精度每格直径 0.01mm, 加工范围 $\Phi 21-\Phi 212$, 整体式阻尼减振镗刀, 刚性足, 适配直压式精镗刀头, 内置减振机构, 可有效抑制深孔加工时所产生的振动。

It can be micro-adjusted with single tooth. 1 DIV=0.01mm in diameter. The diameter range is $\Phi 21-\Phi 212$. Integral damping boring tool with high rigidity and mini boring cartridge. It can effectively control the vibration when for the deep hole working due to the damping mechanism.



规格型号 Designation	Dc	D1	D2	L	L1	Fig	G	Kg	精镗刀头 Cartridge	在库 Stock
FBT50 VBF D20.247.VE	21-26	20	80	247	200	A	24	4.3	FRB 10A...	●
	25-31	20	80	247	200	A	24	4.3	FRB 10B...	●
	30-36	20	80	247	200	A	24	4.3	FRB 10C...	●
FBT50 VBF D25.288.VE	26-34	25	/	288	250	B	24	4.9	FRB 12A...	●
	33-41	25	/	288	250	B	24	4.9	FRB 12B...	●
	40-48	25	/	288	250	B	24	4.9	FRB 12C...	●
FBT50 VBF D32.358.VE	33-43	32	/	358	320	B	24	6.2	FRB 16A...	●
	42-52	32	/	358	320	B	24	6.2	FRB 16B...	●
	51-61	32	/	358	320	B	24	6.2	FRB 16C...	●
FBT50 VBF D40.438.VE	42-54	40	/	438	400	B	24	8.7	FRB 20A...	●
	53-65	40	/	438	400	B	24	8.7	FRB 20B...	●
	64-76	40	/	438	400	B	24	8.7	FRB 20C...	●
FBT50 VBF D50.538.VE	53-69	50	/	538	500	B	24	12.5	FRB 25A...	●
	68-84	50	/	538	500	B	24	12.5	FRB 25B...	●
	83-99	50	/	538	500	B	24	12.5	FRB 25C...	●
FBT50 VBF D63.668.VE	68-100	63	/	668	630	B	24	23	FRB 30A...	●
	98-130	63	/	668	630	B	24	23	FRB 30B...	●
	128-160	63	/	668	630	B	24	23	FRB 30C...	●
FBT50 VBF D80.838.VE	88-120	80	/	838	800	B	24	41	FRB 30A...	●
	118-150	80	/	838	800	B	24	41	FRB 30B...	●
	148-180	80	/	838	800	B	24	41	FRB 30C...	●
FBT50 VBF D100.838.VE	100-152	80	/	838	800	B	24	41.2	FRB 30A...	●
	130-182	80	/	838	800	B	24	41.2	FRB 30B...	●
	160-212	80	/	838	800	B	24	41.2	FRB 30C...	●

- 刀杆镗孔深度是镗杆直径的 10 倍。
- 精镗刀头需单独订购, 请参照: A13-A14 页。
- 刀具有内冷却水孔。
- 若出现减振能力下降时, 建议维修保养。
- 订货示例: 1 件 FBT50 VBF D20.247.VE。

- Hole depth is 10 shank diameter.
- The cartridge should be ordered separately, please see page A13-A14.
- With coolant hole.
- Suggest doing the maintenance when damping capacity is weaker than before.
- Ordering sample: 1 PC FBT50 VBF D20.247.VE.

备件

Spare Parts



规格型号 Designation	LOCK 螺钉 Lock screw	刀头锁紧扳手 Allen key for cartridge clamping screw	刀头锁紧螺钉 Clamp screw for cartridge	调整扳手 Allen key for adjusting screw
FBT50 VBF D20.247.VE	SR54-2 M4x4	KEY02 T15	SR20 M4x6-X	KEY01 M2
FBT50 VBF D25.288.VE	SR54-2 M4x6	KEY02 T15	SR20 M4x8-X	KEY01 M2
FBT50 VBF D32.358.VE	SR54-2 M5x8	KEY01 M3	SR56 M5x10	KEY01 M2.5
FBT50 VBF D40.438.VE	SR54 M6x10	KEY01 M3	SR56 M5x12	KEY01 M3
FBT50 VBF D50.538.VE	SR54 M6x12	KEY01 M4	SR56 M6x16	KEY01 M3
FBT50 VBF D63.668.VE	SR54 M10x16	KEY01 M5	SR56 M8x20	KEY01 M5
FBT50 VBF D80.838.VE	SR54 M10x20	KEY01 M5	SR56 M8x25	KEY01 M5
FBT50 VBF D100.838.VE	SR54 M10x20	KEY01 M5	SR56 M8x25	KEY01 M5

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

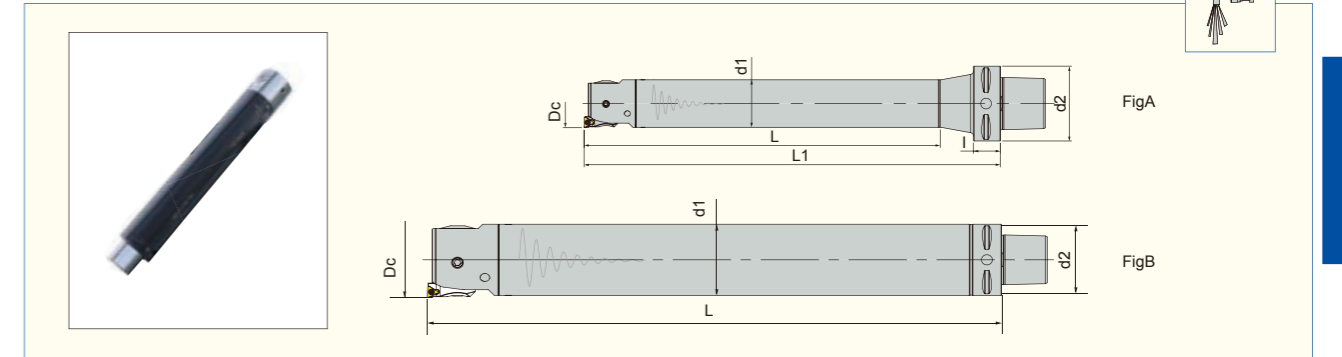
DAMPING BORING TOOL 阻尼减振镗刀

VBF 系列阻尼减振精镗刀

VBF Damping Rough Boring Tool (PSC)

单刃可微调, 微调精度每格直径 0.01mm, 加工范围 $\Phi 42-\Phi 106$, PSC 短锥模块化接口, 刚性足, 适配直压式精镗刀头, 内置减振机构, 可有效抑制深孔加工时所产生的振动。

It can be micro-adjusted with single tooth. 1 DIV=0.01mm in diameter. The diameter range is $\Phi 42-\Phi 106$. Hollow short taper modular type PSC connection. It can effectively control the vibration when for the deep hole working due to the damping mechanism.



规格型号 Designation	Dc	d1	d2	L	L1	l	Fig	Kg	精镗刀头 Cartridge	在库 Stock
VBF D40.C6.300	42-54	40	63	300	350	22.5	A	4.3	FRB 20A...	●
	53-65	40	63	300	350	22.5	A	4.3	FRB 20B...	●
	64-76	40	63	300	350	22.5	A	4.3	FRB 20C...	●
VBF D50.C6.375	53-69	50	63	375	450	22.5	A	7.1	FRB 25A...	●
	68-84	50	63	375	450	22.5	A	7.1	FRB 25B...	●
	83-99	50	63	375	450	22.5	A	7.1	FRB 25C...	●
VBF D63.C6.475	68-100	63	63	475	/	/	B	11.2	FRB 30A...	●
	98-130	63	63	475	/	/	B	11.2	FRB 30B...	●
	128-160	63	63	475	/	/	B	11.2	FRB 30C...	●

- 精镗刀头需单独订购, 请参照: A13-A14 页。
- 刀具有内冷却水孔。
- 若出现减振能力下降时, 建议维修保养。
- 订货示例: 1 件 VBF D40.C6.300。
- The cartridge should be ordered separately, please see page A13-A14.
- With coolant hole.
- Suggest doing the maintenance when damping capacity is weaker than before.
- Ordering sample: 1 PC VBF D40.C6.300

备件

Spare Parts



规格型号 Designation	LOCK 螺钉 Lock screw	刀头锁紧扳手 Allen key for cartridge clamping screw	刀头锁紧螺钉 Clamp screw for cartridge	调整扳手 Allen key for adjusting screw
VBF D40.C6.300	SR54 M6x10	KEY01 M3	SR56 M5x12	KEY01 M3
VBF D50.C6.375	SR54 M6x12	KEY01 M4	SR56 M6x16	KEY01 M3
VBF D63.C6.475	SR54 M10x16	KEY01 M5	SR56 M8x20	KEY01 M5

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

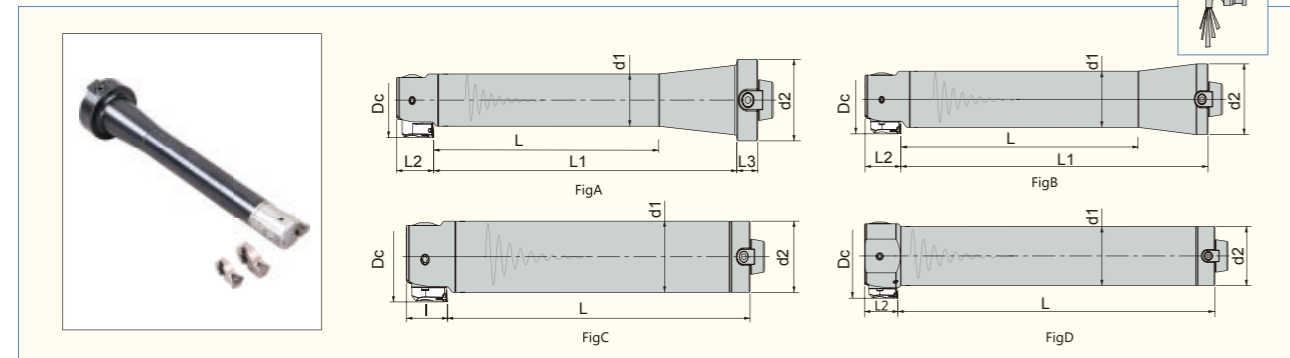
DAMPING BORING TOOL 阻尼减振镗刀

VBF 系列阻尼减振微调精镗刀 (反精镗加工示意)

VBF Damping Precision Back Boring Tool

直压式精镗刀头反装, 即可轻松实现反镗精加工, 加工范围 $\Phi 30-\Phi 212$ 。精度与正镗一致。但加工时刀具必须逆时针旋转, 且过孔直径 D 满足 " $D \geq (Dc+D1)/2+1$ " 要求。内置减振机构, 可有效抑制深孔加工时所产生的振动。

Please assemble the cartridge as its reverse direction. Which is for back boring. And the back boring range is $\Phi 30-\Phi 212$ and also with the same precision as the ordinary boring tool. But the tool should be rotated by the reserve direction when machining and the hole diameter D should meet the requirement of " $D \geq (Dc+D1)/2+1$ ". It can effectively control the vibration when for the deep hole working due to the damping mechanism.



规格型号 Designation	Dc	d1	d2	L	L1	L2	L3	Fig	Kg	精镗刀头 Cartridge	在庫 Stock
VBF D20.E50.130	30-36	20	50	107	147	21	16	A	1.0	FRB 10C...	●
VBF D25.E50.155	36-41	25	50	125	175	25	16	A	1.2	FRB 12C...	●
VBF D32.E50.200	47-52	32	50	165	230	29	16	A	2.2	FRB 16B...	●
VBF D40.E50.245	51-61	32	50	165	230	29	16	A	2.2	FRB 16C...	●
VBF D50.E63.305	55-65	40	50	205	285	34	-	B	3.8	FRB 20B...	●
VBF D63.E63.385	62-69	50	63	260	335	40	-	B	6.0	FRB 25A...	●
	68-84	50	63	260	335	40	-	B	6.0	FRB 25B...	●
VBF D80.E80.485	83-99	50	63	260	335	40	-	B	6.0	FRB 25C...	●
	80-100	63	63	335	-	46	-	C	8.9	FRB 30A...	●
VBF D100.E80.485	98-130	63	63	335	-	46	-	C	8.9	FRB 30B...	●
	128-160	63	63	335	-	46	-	C	8.9	FRB 30C...	●
VBF D120.E80.485	100-120	80	80	435	-	46	-	C	18.1	FRB 30A...	●
	118-150	80	80	435	-	46	-	C	18.1	FRB 30B...	●
VBF D148-250	148-180	80	80	435	-	46	-	C	18.1	FRB 30C...	●
	112-152	80	80	435	-	46	-	D	18.4	FRB 30A...	●
VBF D248-300	130-182	80	80	435	-	46	-	D	18.4	FRB 30B...	●
	160-212	80	80	435	-	46	-	D	18.4	FRB 30C...	●

- 精镗刀头需单独订购, 请参照: A13-A14 页。
- 适配刀柄需单独订购, 请参照: A41-A42 页。
- 刀具有内冷出水孔。
- 若出现减振能力下降时, 建议维修保养。
- 订货示例: 1 件 VBF D20.E50.130。
- The cartridge should be ordered separately, please see page A13-A14.
- The adaptor should be ordered separately, please see page A41-A42.
- With coolant hole.
- Suggest doing the maintenance when damping capacity is weaker than before.
- Ordering sample: 1 PC VBF D20.E50.130

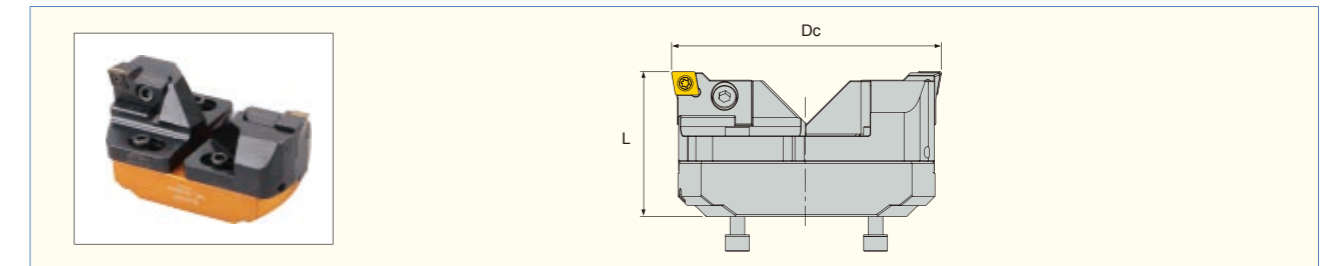
DAMPING BORING TOOL 阻尼减振镗刀

VLR 桥式阻尼减振粗镗刀

VLR Damping Rough Boring Tool with Bridge

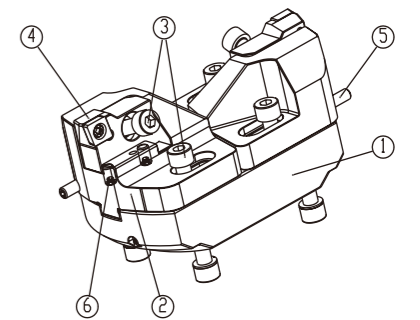
适用于大孔加工的双刃桥式粗镗刀, 加工范围 $\Phi 148-\Phi 300$ 。

It is suitable for rough machining for large diameter hole, and the diameter range is $\Phi 148-\Phi 300$.



规格型号 Designation	Dc	L	手柄接口 Connection	Kg	适配刀座 Cartridge	在庫 Stock
VLR D148-200	148-200	79	VNL32	2.99	V90A D148..	●
VLR D198-250	198-250	79	VNL32	3.25	V90A D148..	●
VLR D248-300	248-300	79	VNL32	3.51	V90A D148..	●

- 适配刀座需单独订购。
- 适配接杆需单独订购, 请参照: B32 页。
- 刀具有内冷出水孔。
- 订货示例: 1 件 VLR D148-200。
- The cartridge should be ordered separately.
- Extension should be ordered separately, please see page B32.
- With coolant hole.
- Ordering sample: 1 PC VLR 0148-200



备件

Spare Parts

Dc	①刀桥 Bridge	②滑块 Cartridge holder	③滑块锁紧螺钉 Clamping screw for cartridge holder	④刀座 Cartridge	⑤滑块调整螺钉 Adjusting screw for cartridge holder
148-200	VNL 148-200.AL	VLR 148 2 件	SR55 M8x25 6 件	V90A D148.CC12 2 件	SR50 M6x20 2 件
198-250	VNL 198-250.AL	VLR 148 2 件	SR55 M8x25 6 件	V90A D148.CC12 2 件	SR50 M6x20 2 件
248-300	VNL 248-300.AL	VLR 148 2 件	SR55 M8x25 6 件	V90A D148.CC12 2 件	SR50 M6x20 2 件

Dc	⑥刀座调整螺钉 Adjusting screw	滑块锁紧扳手 Allen key for cartridge	刀座调整扳手 Adjustable key for cartridge
148-200	SR50 M6x10 4 件	KEY01 M6	KEY01 M2
198-250	SR50 M6x10 4 件	KEY01 M6	KEY01 M3
248-300	SR50 M6x10 4 件	KEY01 M6	KEY01 M3

● 标准库存
Item in stock

○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

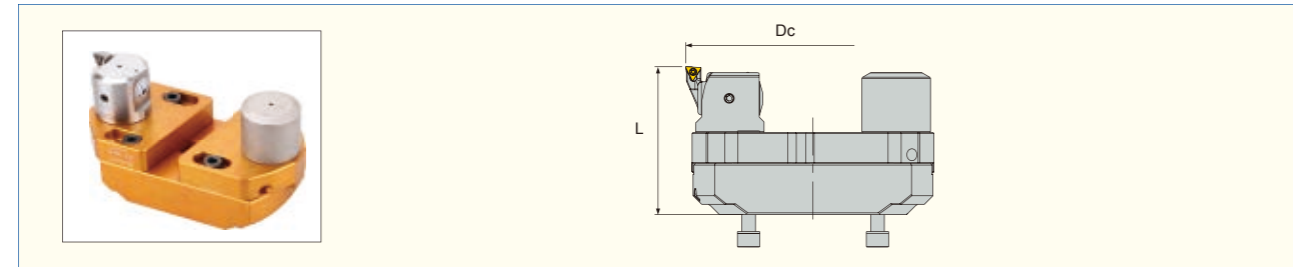
DAMPING BORING TOOL 阻尼减振镗刀

VLF 桥式阻尼减振微调精镗刀

VLF Damping Precision Boring Tool with Bridge

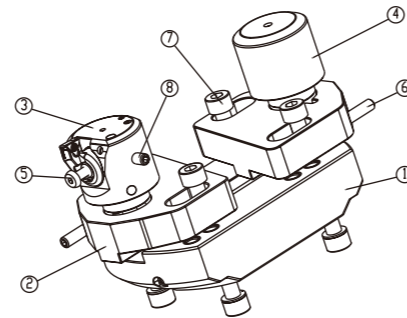
适用于大孔加工的单刃桥式微调精镗刀，调整精度高，每格直径 0.01mm，加工范围 $\Phi 148-\Phi 312$ 。

It is suitable for the finish machining for large diameter hole, with high accuracy 0.01mm/dial. Diameter range is $\Phi 148-\Phi 312$.



规格型号 Designation	Dc	L	手柄接口 Connection	Kg	适配刀座 Cartridge	在库 Stock
VLF D148-212AL	148-212	86.5	VNL32	2.02	FRB 20B..	●
VLF D198-262AL	198-262	86.5	VNL32	2.28	FRB 20B..	●
VLF D248-312AL	248-312	86.5	VNL32	2.54	FRB 20B..	●

- 适配刀座需单独订购，请参照：☞ A13-A14 页。
- 适配接杆需单独订购，请参照：☞ A32 页。
- 刀具有内冷出水孔。
- 订货示例：1 件 VLF D148-212。
- The cartridge should be ordered separately, please see page A13-A14.
- Extension should be ordered separately, please see page A32.
- With coolant hole.
- Ordering sample: 1 PC VLF D148-212AL.



备件

Spare Parts

Dc	①刀桥 Bridge	②滑块 Cartridge holder	③精镗模块 Precision boring head	④配重模块 Balance block	⑤刀头锁紧螺钉 Clamping screw for cartridge
148-212	VNL 148-200.AL	VLF148.AL 2 件	VLF D40.CD25.35 1 件	VHB 40 1 件	SR56 M5x12 1 件
198-262	VNL 198-250.AL	VLF148.AL 2 件	VLF D40.CD25.35 1 件	VHB 40 1 件	SR56 M5x12 1 件
248-312	VNL 248-300.AL	VLF148.AL 2 件	VLF D40.CD25.35 1 件	VHB 40 1 件	SR56 M5x12 1 件

Dc	⑥滑块调整螺钉 Adjusting screw for cartridge holder	⑦滑块锁紧螺钉 Clamping screw for cartridge holder	⑧ LOCK 螺钉 LOCK screw
148-212	SR50 M6x20 2 件	SR55 M8x25 4 件	SR54 M6x10 1 件
198-262	SR50 M6x20 2 件	SR55 M8x25 4 件	SR54 M6x10 1 件
248-312	SR50 M6x20 2 件	SR55 M8x25 4 件	SR54 M6x10 1 件

备件 Spare parts	螺钉扳手 Allen key
SR56 M5x12	KEY01 M3
SR54 M6x10	KEY01 M3
SR50 M6x20	KEY01 M3
SR55 M8x25	KEY01 M6

● 标准库存
Item in stock

○ 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

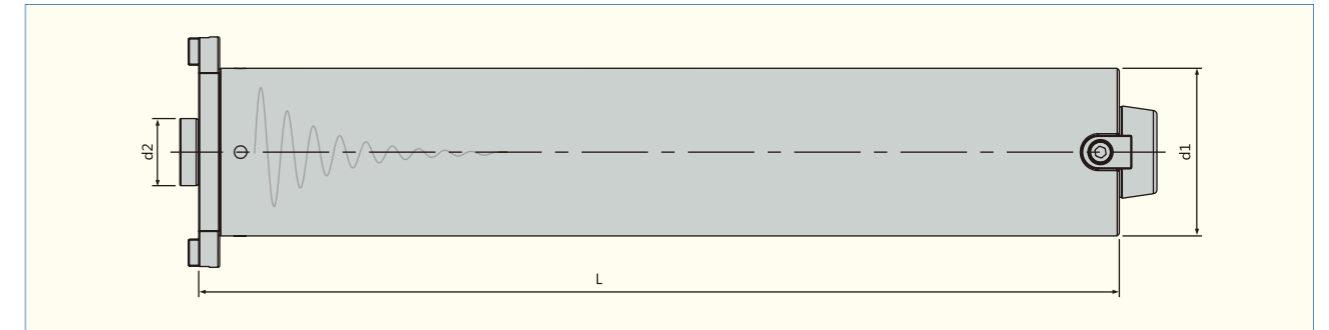
DAMPING BORING TOOL 阻尼减振镗刀

VNL 桥式阻尼减振镗刀接杆

Extension for VNL Damping Boring Tool with Bridge

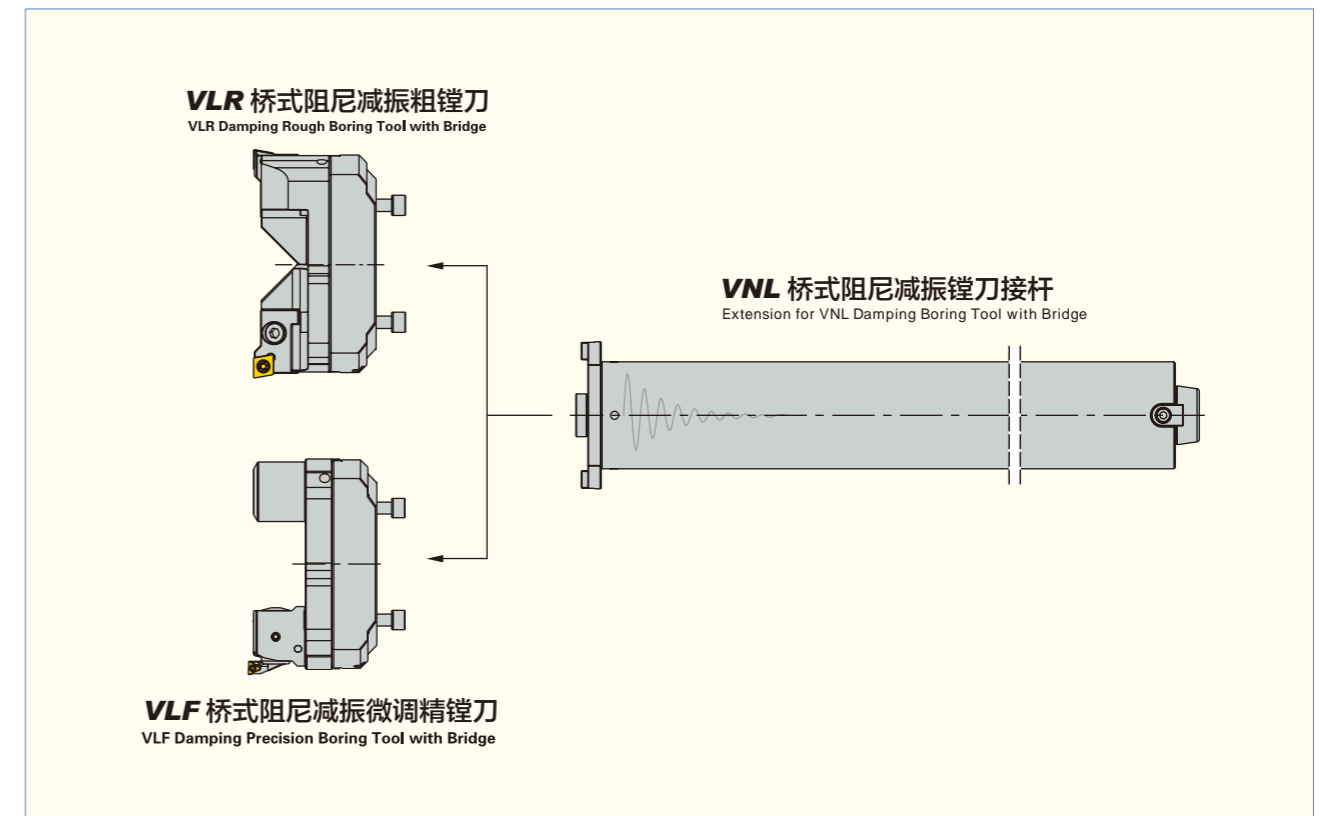
桥式减振镗刀专用接杆，内置减振机构，可有效抑制深孔加工时所产生的振动。

It can effectively control the vibration when for the deep hole working due to the damping mechanism.



规格型号 Designation	d1	d2	L	Kg	平键 Flat key	在库 Stock
VNL32 D80.E80.440	80	32	440	16.05	PL04 12x10	●

- 刀杆有内冷出水孔。
- 适配刀座需单独订购，请参照：☞ A41-A42 页。
- 订货示例：1 件 VNL32 D80.E80.440。
- With coolant hole.
- The adaptor should be ordered separately, please see page A41-A42.
- Ordering sample: 1 PC VNL32 D80.E80.440.



● 标准库存
Item in stock

○ 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

DAMPING FACE MILLING CUTTER ADAPTOR

阻尼减振铣刀柄



B

阻尼减振刀具 DAMPING TOOLS

阻尼减振铣刀柄 Damping Face Milling Cutter Adaptor

阻尼减振铣刀柄 B43
Damping Face Milling Cutter Adaptor

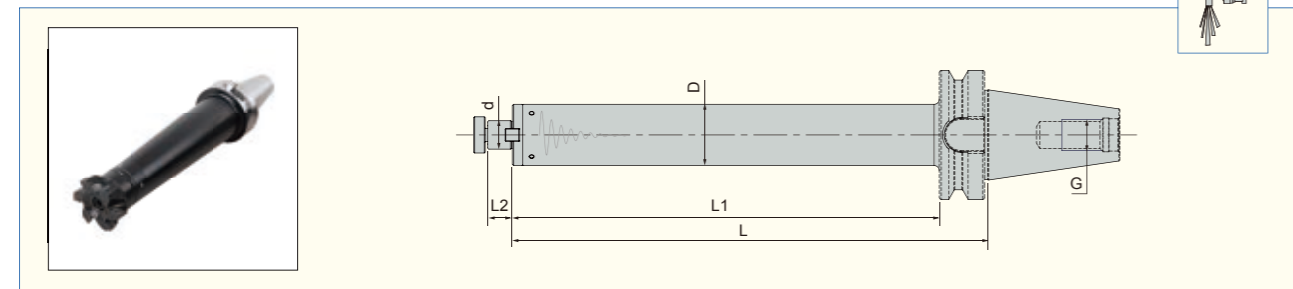
非标阻尼减振刀具 Special Damping Tools

非标阻尼减振刀具 B47
Special Damping Tools

DAMPING FACE MILLING CUTTER ADAPTOR 阻尼减振铣刀柄

阻尼减振铣刀杆

Damping Face Milling Cutter Adaptor



规格型号 Designation	L	D	d	L1	L2	G	Bar	Kg	适配刀盘 Insert	在庫 Stock
FBT50 SEM22XD48X370.V	371	47.5	22	333	19	24	70	9.04	50	●
FBT50 SEM22XD60X460.V	460	60	22	422	19	24	70	14.46	63	●
FBT50 SEM27XD76X570.V	572	76	27	534	21	24	70	21.2	80	●

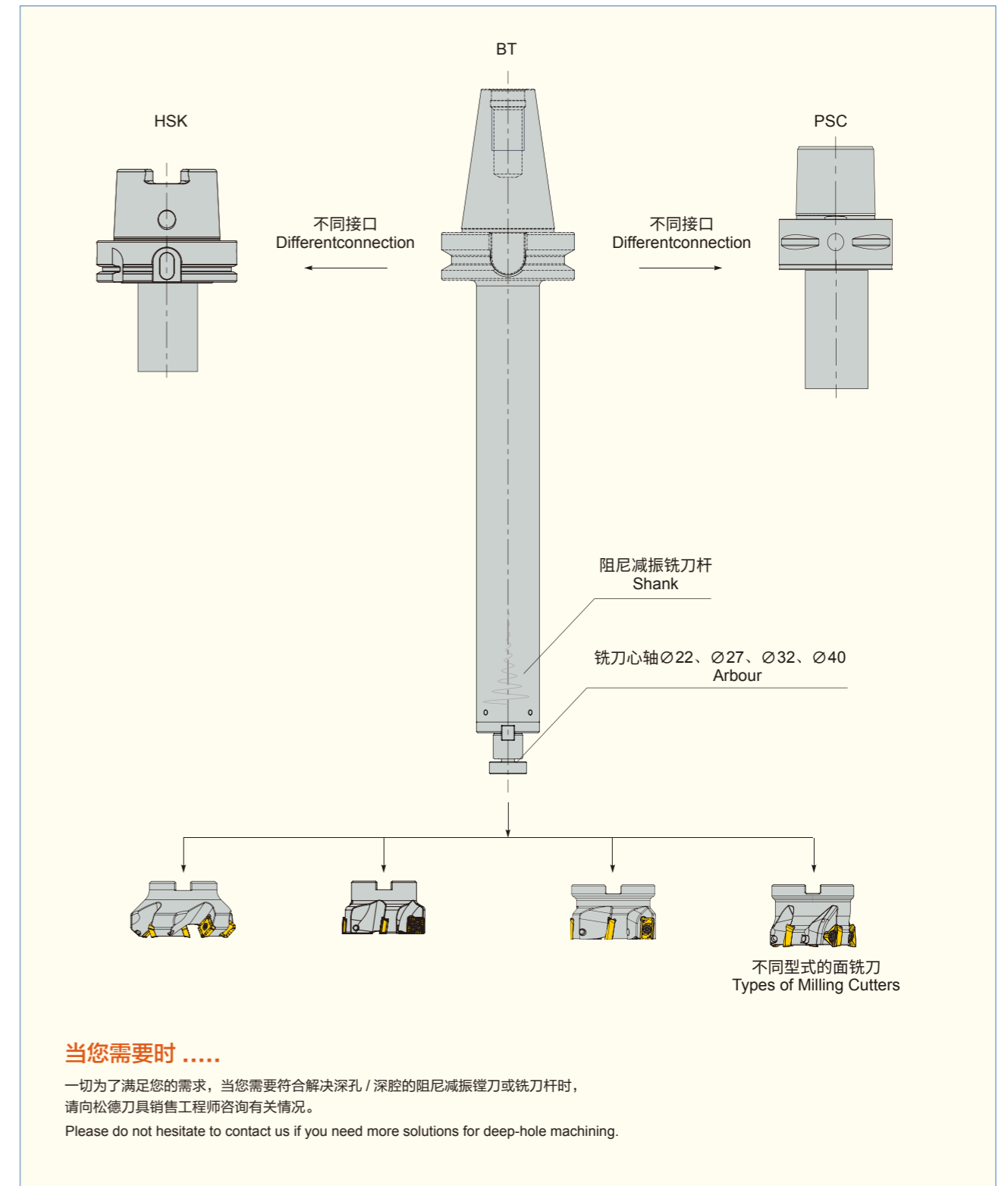
- 适配铣刀盘需单独订购，请参照：C6-C18 页。
- 刀具有内冷出水孔。
- 若出现减振能力下降时，建议维修保养。
- 订货示例：1 件 FBT50 SEM22XD48X370.V。
- The adaptor should be ordered separately, please see page C6-C18.
- With coolant hole.
- Suggest doing the maintenance when damping capacity is weaker than before.
- Ordering sample: 1 PC FBT50 SEM22XD48X370.V.



DAMPING FACE MILLING CUTTER ADAPTOR 阻尼减振铣刀柄

阻尼减振铣刀杆

Cartridge for Damping Turning Tool Holder



当您需要时

一切为了满足您的需求，当您需要符合解决深孔 / 深腔的阻尼减振镗刀或铣刀杆时，
请向松德刀具销售工程师咨询有关情况。

Please do not hesitate to contact us if you need more solutions for deep-hole machining.

DAMPING FACE MILLING CUTTER ADAPTOR 阻尼减振铣刀柄

阻尼减振铣刀柄

Damping Face Milling Cutter Adaptor

主要考虑因素

使用旋转刀具加工不同于车削，在车削时，镗杆夹持在刚性的刀座上，但是车铣加工中减振杆工作的原理在很大程度上相通的

- 刚性夹紧
- 尽可能短的刀具长度
- 尽可能大的总成直径
- 铣刀体的重量尽量轻，使抵抗切削力的阻尼系统充分工作

Major Consideration

Rotating tools are different from the turning tools, and the rigidity cartridge when turning machining clamps the boring bar. But the anti-vibration principle is almost same when turning and milling machining. Please see below points:

- Rigid clamping
- The shortest effective length
- The largest total diameter
- Lighter weight to be sure damping system works smoothly

降低振动

工件安装和机床稳定性是将振动减至最低需要仔细考虑的两项重要因素。

工件

- 以最佳的方式固定工件，让工装来承受加工过程中产生的切削力。
- 通过铣削刀具设计和主偏角选择能够使得切削力主要作用在工件夹持最稳定的方向上。
- 优化加工策略和方向，以尽可能实现最稳定的切削工况。

机床

- 机床状况会对切削振动产生巨大的影响。主轴轴承或进给装置的过度磨损会导致不良的加工特性。

Lower Down the Vibration

The mounted work piece and stability of machine tool are the main important facts that can lower down much vibration.

Work piece

Mount the work piece in the best way, then it will take some cutting force when machining.

- It will make sure that the cutting force will work for the most stable direction by two ways which are milling cutter design and selection of approach angle.
- To optimize the processing strategy and direction, then to meet the most stable cutting condition.

Machine Tools

- The condition of machine tool will affect the vibration situation greatly. The excessive wear of spindle bearing and work feeder can result in the poor processing characters.



DAMPING FACE MILLING CUTTER ADAPTOR 阻尼减振铣刀柄

阻尼减振铣刀柄

Damping Face Milling Cutter Adaptor

影响振动的因素

有 4 种基本因素会对振动产生主要影响：

- 刀具的主偏角会影响切削力作用的方向
- 与径向切深有关的刀具直径
- 刀片槽形
- 刀具齿距

主偏角

主偏角决定了切削力的方向，因此非常重要。主偏角 (α) 越大，径向切削力就越大。根据工艺和应用场合选择合适刀具。

当径向切削力增加时，可以看出减振刀具与非减振刀具之间在功能方面的差异。

在主偏角较小且悬伸较短的情况下，可在出现振动之前调整刀具的切深甚至可以达到刀片所允许的最大切深

The Influence Facts of Vibration

There are 4 facts will affect the vibration condition mainly, please see below:

- The approach angle will affect the working direction of the cutting force
- Tool diameter which is relative to the radial cutting depth
- Insert groove
- Pitch

Approach Angle

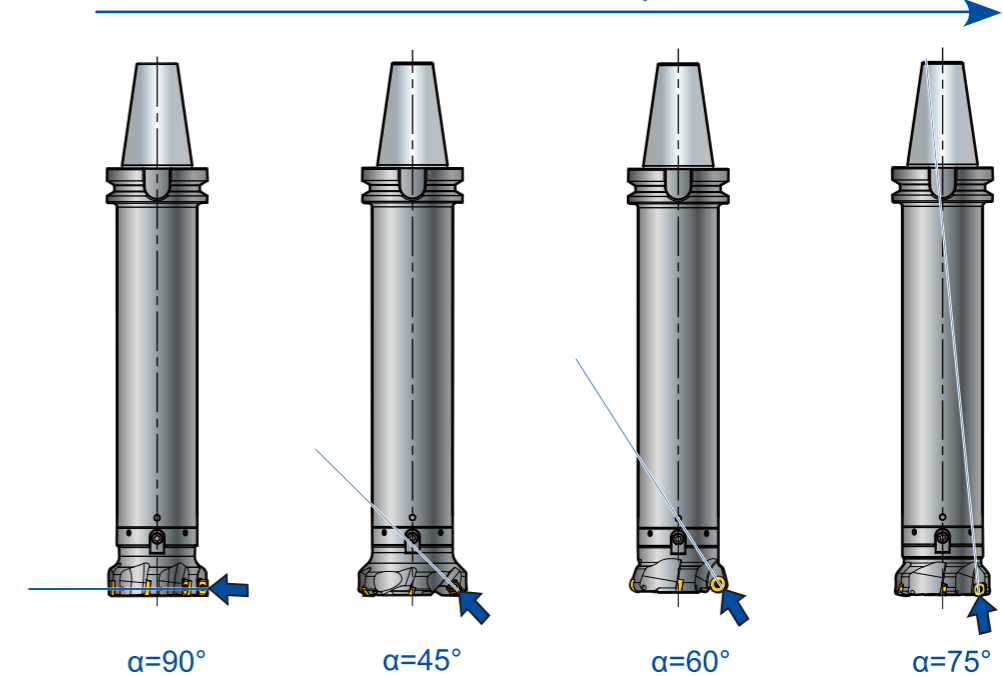
The approach angle decides the direction of cutting force, so it is very important. The approach angle (α) is larger and the radial cutting force is larger. Select the tools according to the technology and working condition.

It will see the differences between damping tools and common tools clearly when the axial cutting force increases.

Under the condition of smaller approach angle and also shorter overhang, we can adjust the cutting depth which will probably meet the deepest depth precedes the vibration situation.

提高刀具稳定性

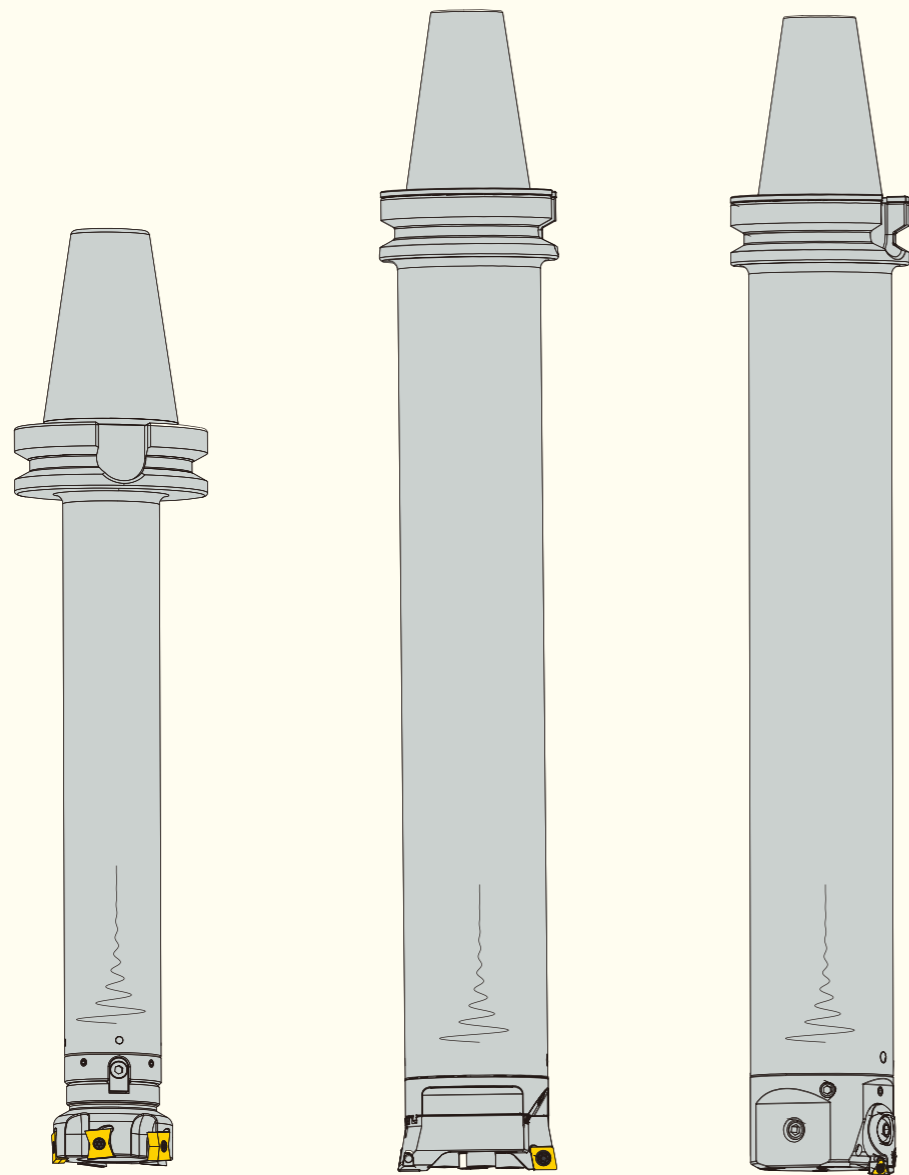
Enhance Tool Stability



SPECIAL DAMPING TOOLS 非标阻尼减振刀具

非标阻尼减振刀具

Special Damping Tools



当您需要时

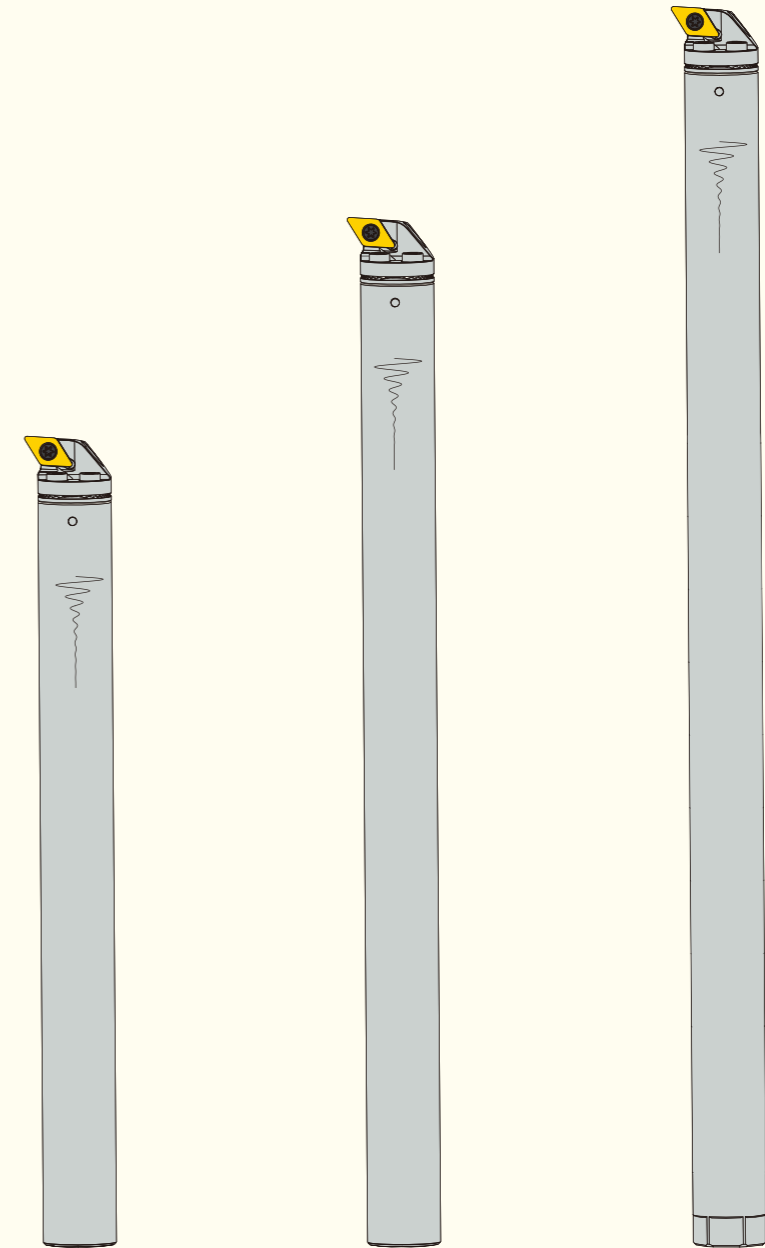
一切为了满足您的需求，当您需要符合解决深孔 / 深腔的阻尼减振镗刀或铣刀杆时，
请向松德刀具销售工程师咨询有关情况。

Please do not hesitate to contact us if you need more solutions for deep-hole machining.

SPECIAL DAMPING TOOLS 非标阻尼减振刀具

非标阻尼减振刀具

Special Damping Tools



当您需要时

一切为了满足您的需求，当您需要符合解决深孔 / 深腔的阻尼减振车刀杆时，
请向松德刀具销售工程师咨询有关情况。

Please do not hesitate to contact us if you need more solutions for deep-hole machining.

INDEXABLE INSERT SHOULDER MILLING CUTTER

可转位铣刀



C

铣削刀具 MILLING CUTTERS

可转位立铣刀 Indexable Insert Shoulder Milling Cutter

MF90AP..1135.....	C3
MF90AP..1604.....	C4
ME90TP..1003.....	C5
ME90WN..0403.....	C6

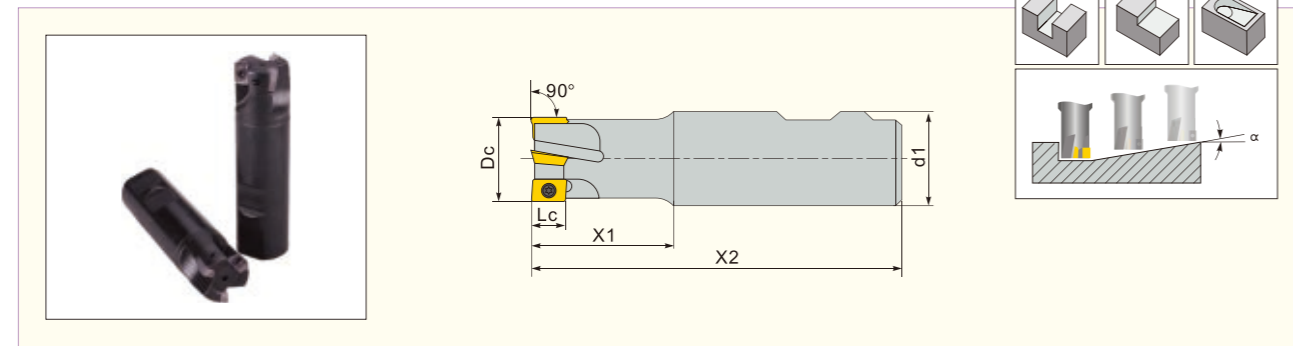
可转位面铣刀 Indexable Insert Face Milling Cutter

MF90TD..1505.....	C7
MF90AN..1706.....	C8
MF90AP..1135.....	C9
MF90AP..1604.....	C10
MF90SP..1004.....	C11
MF90LN..1106.....	C12
MF90LN..1506.....	C13
MF90SD..1205.....	C14
MF90WN..0807.....	C15
MF89SN..1305.....	C16
MF45SN..1306.....	C17
MF45SN..1606.....	C18
MF45ON..0506.....	C19
MF45SE..12T3.....	C20
MF45SET..12T3.....	C21
MF45HN..0906.....	C22
FFSD.. 快进给铣刀盘	C23
Fast Feed Milling Cutter	
MFR/L 115 可调式精铣刀	C24
Adjustable Finish Milling Cutter	
MM90SD..1204.. 阻尼减振玉米铣刀	C25
Dampening Helical Milling Cutter	

INDEXABLE INSERT SHOULDER MILLING CUTTER 可转位立铣刀

ME90AP..1135..

Kr=90°



规格型号 Designation	Dc	d1	X1	X2	Lc	齿数 z	α°	Kg	刀片型号 Insert	在庫 Stock
ME90AP D016.C16.Z02.11.90	16	C16	26	90	9.52	2	15	0.13	AP..1135..	●
ME90AP D016.W16.Z02.11.85	16	W16	26	85	9.52	2	15	0.13	AP..1135..	●
ME90AP D020.C20.Z02.11.110	20	C20	30	110	9.52	2	7.5	0.25	AP..1135..	●
ME90AP D020.W20.Z02.11.90	20	W20	30	90	9.52	2	7.5	0.22	AP..1135..	●
ME90AP D025.C25.Z03.11.120	25	C25	35	120	9.52	3	11.5	0.46	AP..1135..	●
ME90AP D025.W25.Z03.11.95	25	W25	35	95	9.52	3	11.5	0.4	AP..1135..	●
ME90AP D032.C32.Z04.11.130	32	C32	40	130	9.52	4	10	0.75	AP..1135..	●
ME90AP D032.W32.Z04.11.110	32	W32	40	110	9.52	4	10	0.62	AP..1135..	●
ME90AP D040.C40.Z04.11.150	40	C40	45	150	9.52	4	10	0.86	AP..1135..	●
ME90AP D040.W40.Z04.11.130	40	W40	45	130	9.52	4	10	0.75	AP..1135..	●

- 刀片请根据不同材料单独订购。
- 加工不同的切削参数，请参照：C41 页。
- 订货示例：1 件 ME90AP D016.C16.Z02.11.90
- Inserts should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC ME90AP D016.C16.Z02.11.90

备件

Spare Parts



刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
AP..1135..	SR20 M2.5x6	KEY02 T8

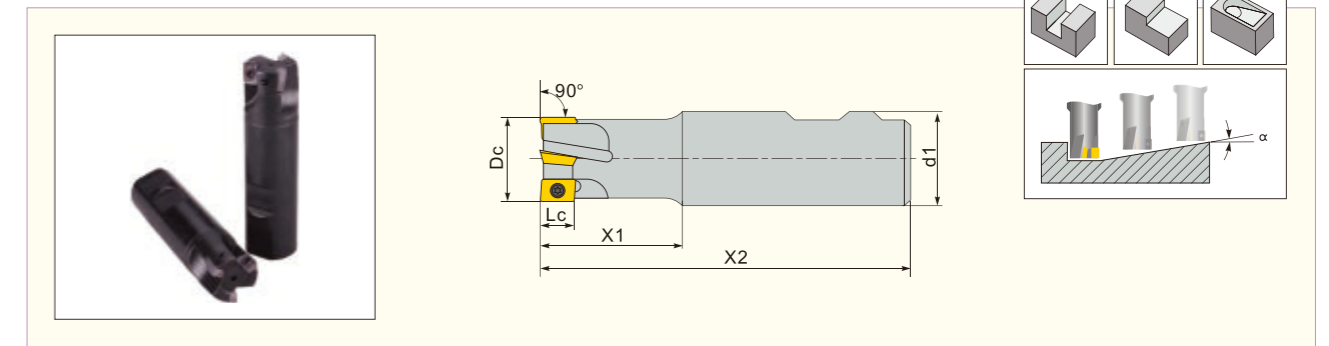
图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter		
		r	F	I		P	M	K	N	S	H	ap(mm)	fz(mm/z)
	APMT 113508TR-M8P 2235	0.8	1.2	11.1	中型 Medium duty	●	●	●				2.0-8.0	0.08-0.15
	APMT 113504TR-M9N 2020	0.4	1.2	11.3	中型 Medium duty				●			2.0-8.0	0.10-0.30

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT SHOULDER MILLING CUTTER 可转位立铣刀

ME90AP..1604..

Kr=90°



规格型号 Designation	Dc	d1	X1	X2	Lc	齿数 z	α°	Kg	刀片型号 Insert	在庫 Stock
ME90AP D025.C25.Z02.16.120	25	C25	26	120	10.2	2	11.5	0.46	AP..1604..	●
ME90AP D025.W25.Z02.16.95	25	W25	26	95	10.2	2	11.5	0.4	AP..1604..	●
ME90AP D032.C32.Z03.16.130	32	C32	30	130	10.2	3	10	0.42	AP..1604..	●
ME90AP D032.W32.Z03.16.110	32	W32	30	110	10.2	3	10	0.62	AP..1604..	●
ME90AP D040.C40.Z03.16.150	40	C40	45	150	10.2	3	10	0.86	AP..1604..	●
ME90AP D040.W40.Z03.16.130	40	W40	45	130	10.2	3	10	0.75	AP..1604..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 ME90AP D025.C25.Z02.16.120
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC ME90AP D025.C25.Z02.16.120

备件

Spare Parts



刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
AP..1604..	SR20 M4x9.5	KEY02 T15

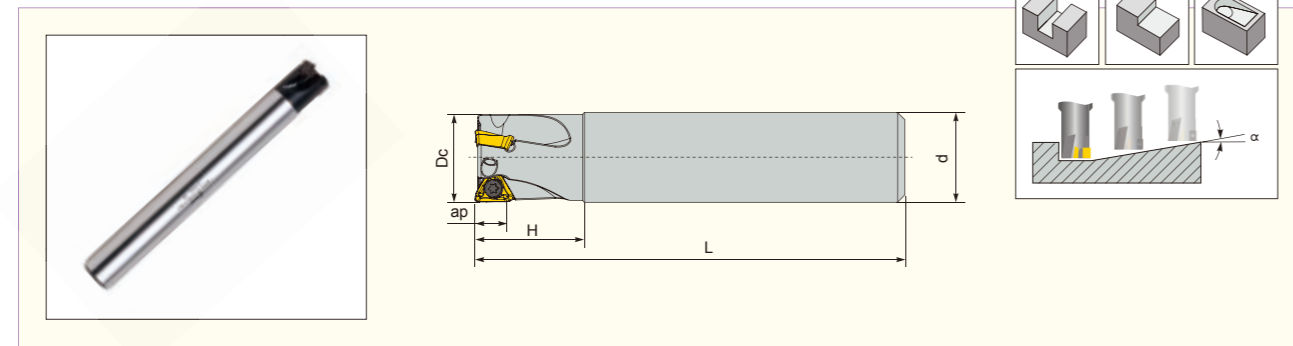
图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter		
		r	F	I		P	M	K	N	S	H	ap(mm)	fz(mm/z)
	APKT 1604TR-R4P 2235	0.8	1.8	17.3	重型 Heavy duty	●	●	●				6.0-14.0	0.10-0.20
	APKT 1604PDER-R5N 2020	0.8	1.7	17.92	中型 Medium duty				●			6.0-14.0	0.15-0.25

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

ME90TP..1003..

Kr=90°



规格型号 Designation	Dc	ap	Z	L	H	d	α	Kg	刀片型号 Insert	在庫 Stock
ME90TP D25.C25.Z03.10.120.C	25	8	3	120	25	25	2.9	0.382	TP..1003..	●
ME90TP D25.C25.Z03.10.200.C	25	8	3	200	40	25	2.9	0.653	TP..1003..	●
ME90TP D32.C32.Z04.10.130.C	32	8	4	130	30	32	2.1	0.703	TP..1003..	●
ME90TP D32.C32.Z04.10.200.C	32	8	4	200	40	32	2.1	1.1	TP..1003..	●

- 刀片请根据不同材料单独订购。
- 加工不同的切削参数，请参照：C41 页。
- 订货示例：1 件 ME90TP D25.C25.Z03.10.120.C。
- Inserts should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC ME90TP D25.C25.Z03.10.120.C.

备件

Spare Parts



刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
TP..1003..	SR20 M3.5x6.5	KEY02 T10

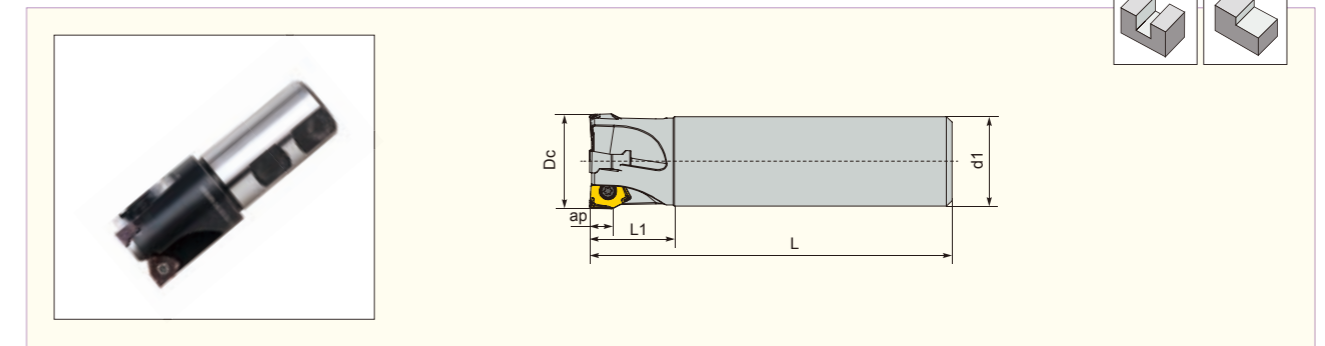
图例 Diagram	刀片型号 Insert	尺寸 Size					适配加工材质 Material					切削参数推荐 Cutting parameter		
		l	di	S	r	F	P	M	K	N	S	H	ap(mm)	fz(mm/z)
	TPKT 1003PDR-R3P 2130	10.9	7.5	3.85	0.8	0.7	●	●					1.2-8.00	0.08-0.15
	TPKT 1003PDR-R3K 2130	10.9	7.5	3.85	0.8	0.7			●				1.2-8.00	0.08-0.15

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

ME90WN..0403..

Kr=90°



规格型号 Designation	Dc	ap	d1	L	L1	Z	内冷	刀片型号 Insert	在庫 Stock
ME90WN D020.C20.Z03.04.150	20	4	20	150	30	3	Y	WN..0403..	●
ME90WN D025.C25.Z04.04.170	25	4	25	170	30	4	Y	WN..0403..	●
ME90WN D032.C32.Z05.04.195	32	4	32	195	30	5	Y	WN..0403..	●
ME90WN D035.C32.Z05.04.195	35	4	32	195	30	5	Y	WN..0403..	●
ME90WN D040.C32.Z06.04.195	40	4	32	195	30	6	Y	WN..0403..	●
ME90WN D040.C32.Z03.08.160	40	7.5	32	160	60	3	N	WN..0807..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C31 页。
- 订货示例：1 件 ME90WN D020.C20.Z03.04.150。
- Insert should be ordered separately.
- Recommended cutting data please see page C31.
- Ordering sample: 1 PC ME90WN D020.C20.Z03.04.150.

备件

Spare Parts



刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
WN..0403..	SR20 M2.5x6.5	KEY02 T07
WN..0807..	SR20 M4x11.5	KEY02 T07

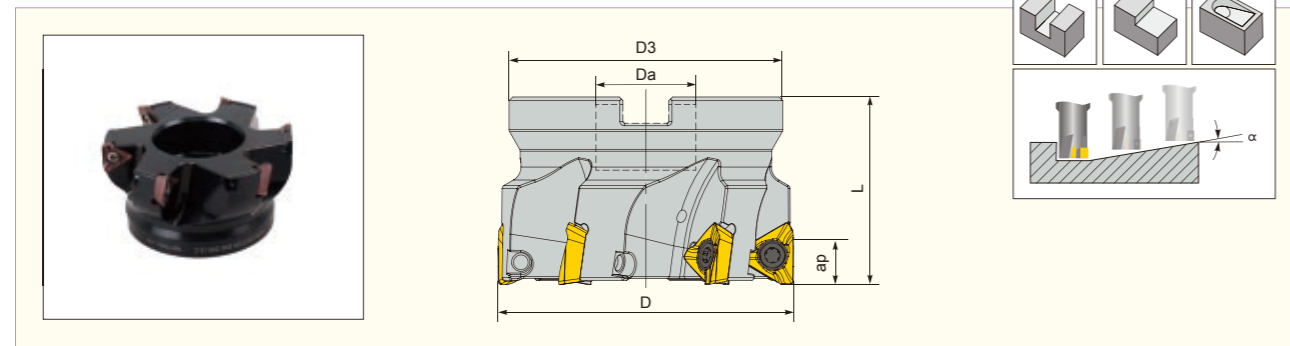
图例 Diagram	刀片型号 Insert	尺寸 Size				适配加工材质 Material					切削参数推荐 Cutting parameter			
		D	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	fz(mm/z)
	WNEX 040304-M5G 2230	6.7	3.25	3.3	0.4	●	●	●	●			120-200	4	0.1-0.2
	WNEX 040308-M5G 2230	6.7	3.25	3.3	0.8	●	●	●	●			120-200	4	0.1-0.2
	WNEX 040308-M5G 2240	6.7	3.25	3.3	0.8	●	●	●	●			120-200	4	0.1-0.2
	WNEX 080708-M5G 2230	12.48	4.6	6.45	0.8	●	●					120-200	7.5	0.1-0.2
	WNEX 080708-M5K 2225	12.48	4.6	6.45	0.8			●				120-200	7.5	0.1-0.2
	WNEX 080708-M7K 2115	12.48	4.6	6.45	0.8			●				120-200	7.5	0.1-0.2
	WNEX 080708-M5G 2240	12.48	4.6	6.45	0.8	●	●	●				120-200	7.5	0.1-0.2

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
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Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF90TD..1505..

Kr=90°



规格型号 Designation	D	ap	Z	L	D3	Da	Rd°	内冷 Coolant	Kg	刀片型号 Insert	在庫 Stock
MF90TD D050.B22.Z04.15.C	50	13	4	40	46	22	1.6	Y	0.278	TD..1505..	●
MF90TD D063.B22.Z05.15.C	63	13	5	50	59	22	1.2	Y	0.523	TD..1505..	●
MF90TD D080.B27.Z06.15.C	80	13	6	50	74	27	0.9	Y	1.17	TD..1505..	●
MF90TD D100.B32.Z06.15.C	100	13	6	50	80	32	0.7	Y	1.45	TD..1505..	●
MF90TD D125.B40.Z07.15.C	125	13	7	63	82	40	0.5	Y	2.294	TD..1505..	●
MF90TD D160.B40.Z10.15	160	13	10	63	105	40	0.3	N	3.996	TD..1505..	●
MF90TD D200.B60.Z11.15	200	13	11	63	135	60	0.2	N	5.219	TD..1505..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MF90TD D050.B22.Z04.15.C。
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF90TD D050.B22.Z04.15.C.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
TD..1505..	SR21 M5x12	KEY02 T15

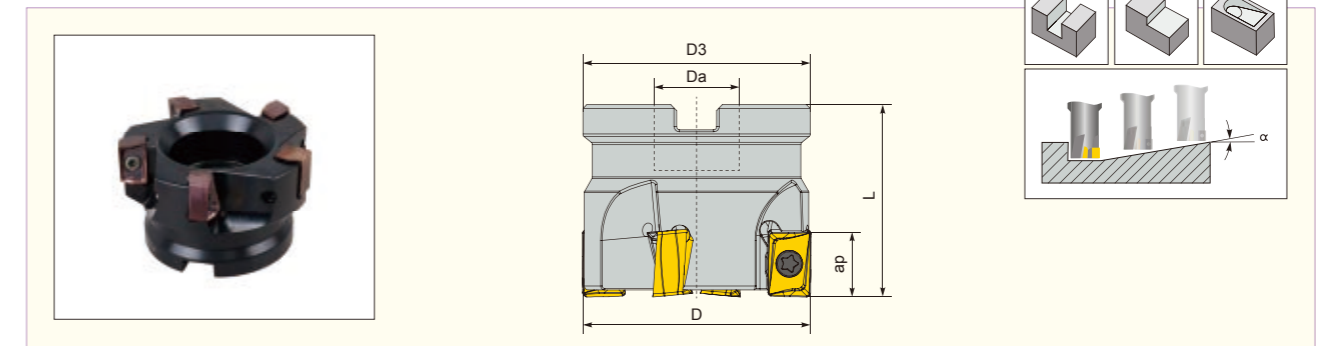
图例 Diagram	刀片型号 Insert	尺寸 Size					适配加工材质 Material					切削参数推荐 Cutting parameter		
		l	di	S	r	F	P	M	K	N	S	H	ap(mm)	fz(mm/z)
	TDKT 1505PDR-R3P 2130	16.7	11.4	5.85	0.8	1.4	●	●					1.5-13.00	0.08-0.15
	TDKT 1505PDR-R3K 2130	16.7	11.4	5.85	0.8	1.4			●				1.5-13.00	0.08-0.15

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF90AN..1706..

Kr=90°



规格型号 Designation	D	ap	Z	L	D3	Da	Rd°	内冷 Coolant	Kg	刀片型号 Insert	在庫 Stock
MF90AN D050.B22.Z04.17.C	50	16.3	4	40	48	22	3.8	Y	0.304	AN..1706..	●
MF90AN D063.B27.Z04.17.C	63	16.3	4	50	59.2	27	2	Y	0.669	AN..1706..	●
MF90AN D080.B27.Z05.17.C	80	16.3	5	50	63	27	1.5	Y	0.8	AN..1706..	●
MF90AN D100.B32.Z08.17.C	100	16.3	8	50	80	32	1	Y	1.474	AN..1706..	●
MF90AN D125.B40.Z07.17.C	125	16.3	7	63	82	40	0	Y	2.41	AN..1706..	●
MF90AN D160.B40.Z08.17	160	16.3	8	63	105	40	0	N	4.1	AN..1706..	●
MF90AN D200.B60.Z10.17	200	16.3	10	63	135	60	0	N	5.988	AN..1706..	●
MF90AN D250.B60.Z12.17	250	16.3	12	63	144	60	0	N	9.338	AN..1706..	●

- 刀片请根据不同材料单独订购。
- 加工不同的切削参数，请参照：C41 页。
- 订货示例：1 件 MF90AN D050.B22.Z04.17.C。
- Inserts should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF90AN D050.B22.Z04.17.C.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
AN..1706..	SR20 M5x14	KEY02 T20

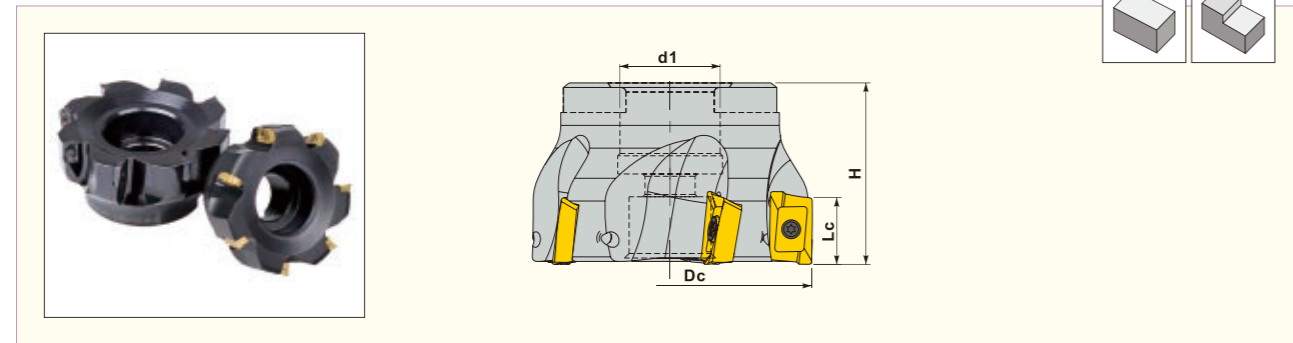
图例 Diagram	刀片型号 Insert	尺寸 Size					适配加工材质 Material					切削参数推荐 Cutting parameter		
		l	W	S	r	F	P	M	K	N	S	H	ap(mm)	fz(mm/z)
	ANKX 170608PNTR-R3P 2130	16.7	11.2	10.4	0.8	4.7	●	●					5.00-15.00	0.15-0.3
	ANKX 170608PNTR-R3K 2130	16.7	11.2	10.4	0.8	4.7			●				5.00-15.00	0.15-0.3

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF90AP..1135..

Kr=90°



规格型号 Designation	Dc	d1	H	Lc	刀片数 z	α°	Kg	刀片型号 Insert	在庫 Stock
MF90AP D040.B16.Z04.11	40	16	40	11	4	1.85	0.25	AP..1135..	●
MF90AP D050.B22.Z05.11	50	22	40	11	5	1.4	0.35	AP..1135..	●
MF90AP D063.B22.Z06.11	63	22	40	11	6	1	0.53	AP..1135..	●
MF90AP D080.B27.Z08.11	80	27	50	11	8	0.9	0.87	AP..1135..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 ME90AP D040.B16.Z03.16。
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF90AP D040.B16.Z03.16.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
AP..1135..	SR20 M2.5x6	KEY02 T8

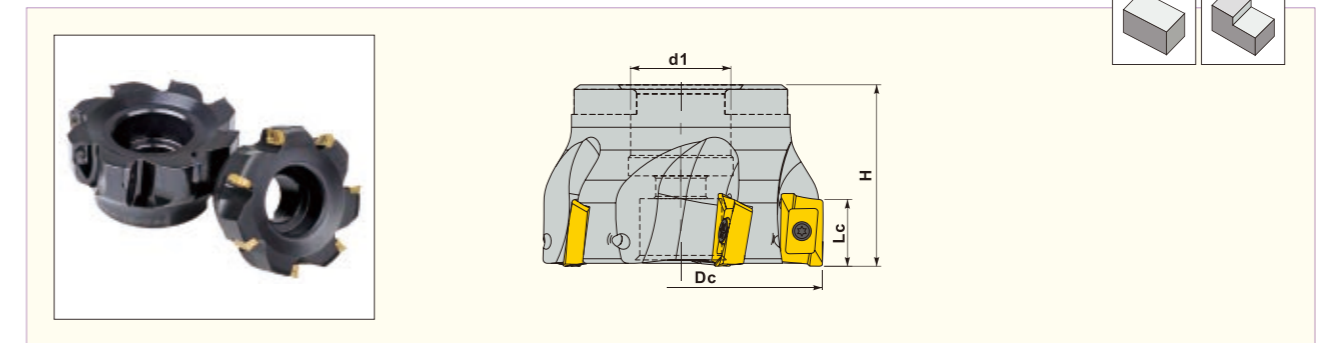
图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter	
		r	F	l		P	M	K	N	S	H	ap(mm)
	APMT 113508TR-M8P 2235	0.8	1.2	11.1	中型 Medium duty	●	●	●			2.0-8.0	0.08-0.15
	APMT 113504TR-M9N 2020	0.4	1.2	11.3	中型 Medium duty				●		2.0-8.0	0.10-0.30

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF90AP..1604..

Kr=90°



规格型号 Designation	Dc	d1	H	Lc	刀片数 z	α°	Kg	刀片型号 Insert	在庫 Stock
MF90AP D040.B16.Z03.16	40	16	40	16	3	4	0.2	AP..1604..	●
MF90AP D050.B22.Z04.16	50	22	40	16	4	2.6	0.33	AP..1604..	●
MF90AP D063.B22.Z05.16	63	22	40	16	5	2	0.44	AP..1604..	●
MF90AP D080.B27.Z06.16	80	27	50	16	6	0.8	0.94	AP..1604..	●
MF90AP D100.B32.Z07.16	100	32	50	16	7	0.7	1.48	AP..1604..	●
MF90AP D125.B40.Z08.16	125	40	63	16	8	0.5	2.92	AP..1604..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 ME90AP D040.B16.Z03.16。
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF90AP D040.B16.Z03.16.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
AP..1604..	SR20 M4x11.5	KEY02 T15

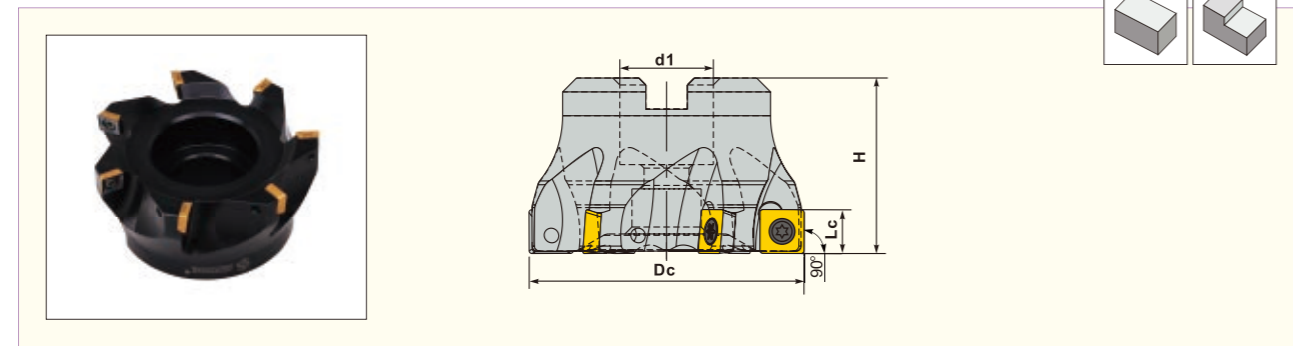
图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter	
		r	F	l		P	M	K	N	S	H	ap(mm)
	APKT 1604TR-R4P 2135	0.8	1.8	17.3	重型 Heavy duty	●	●	●			6.0-14.0	0.10-0.20
	APKT 1604PDER-R5N 2020	0.8	1.7	17.92	中型 Medium duty				●		6.0-14.0	0.15-0.25

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT SHOULDER MILLING CUTTER 可转位立铣刀

MF90SP..1004..

Kr=90°



规格型号 Designation	Dc	d1	H	Lc	刀片数 z	α°	Kg	刀片型号 Insert	在庫 Stock
MF90SP D040.B16.Z03.10	40	16	40	9.6	3	-	0.19	SP..1004..	●
MF90SP D050.B22.Z04.10	50	22	40	9.6	4	2	0.33	SP..1004..	●
MF90SP D063.B22.Z05.10	63	22	40	9.6	5	0.8	0.45	SP..1004..	●
MF90SP D080.B27.Z05.10	80	27	50	9.6	5	1.25	0.88	SP..1004..	●
MF90SP D100.B32.Z07.10	100	32	50	9.6	7	0.75	1.40	SP..1004..	●
MF90SP D125.B40.Z09.10	125	40	63	9.6	9	0.75	2.58	SP..1004..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MF90SP D040.B16.Z03.10。
- Insert should be ordered separately
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF90SP D040.B16.Z03.10.

备件

Spare Parts



刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
SP..1004..	SR21 M4x9.5	KEY02 T15

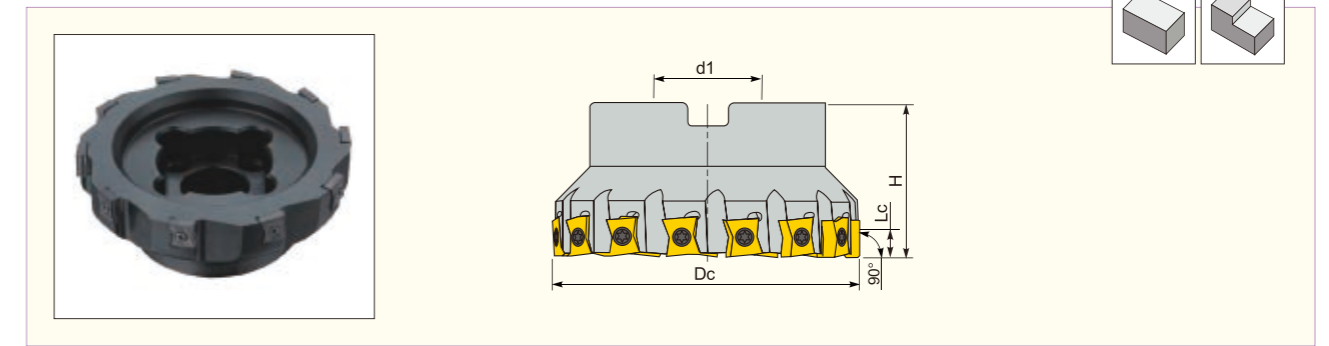
图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter		
		r	F	I		P	M	K	N	S	H	ap(mm)	fz(mm/z)
	SPMT 100408-M8P 2235	10.2	4.23	0.7	中型 Medium duty	●	●					4.0-8.0	0.08-0.15
	SPMT 100408-M8K 2215	10.2	4.23	0.7	中型 Medium duty		●					4.0-8.0	0.08-0.15

- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT SHOULDER MILLING CUTTER 可转位立铣刀

MF90LN..1106..

Kr=90°



规格型号 Designation	Dc	d1	H	Lc	刀片数 z	Kg	刀片型号 Insert	在庫 Stock
MF90LN D040.B16.Z04.11.R/L	40	16	40	5	4	0.22	LN..1106..	●
MF90LN D050.B22.Z05.11.R/L	50	22	40	5	5	0.32	LN..1106..	●
MF90LN D063.B22.Z06.11.R/L	63	22	40	5	6	0.47	LN..1106..	●
MF90LN D080.B27.Z11.11.R/L	80	27	50	5	11	1.02	LN..1106..	○
MF90LN D100.B32.Z09.11.R/L	100	32	50	5	9	1.38	LN..1106..	●
MF90LN D125.B40.Z10.11.R/L	125	40	63	5	10	2.71	LN..1106..	●
MF90LN D160.B40.Z12.11.R/L	160	40	63	5	12	4.66	LN..1106..	●
MF90LN D200.B60.Z16.11.R/L	200	60	63	5	16	5.84	LN..1106..	○

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MF90LN D040.B16.Z04.11.R.
- Insert should be ordered separately
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF90LN D040.B16.Z04.11.R.

备件

Spare Parts



刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
LN..1106..	SR20 M3.5x11.5	KEY02 T10

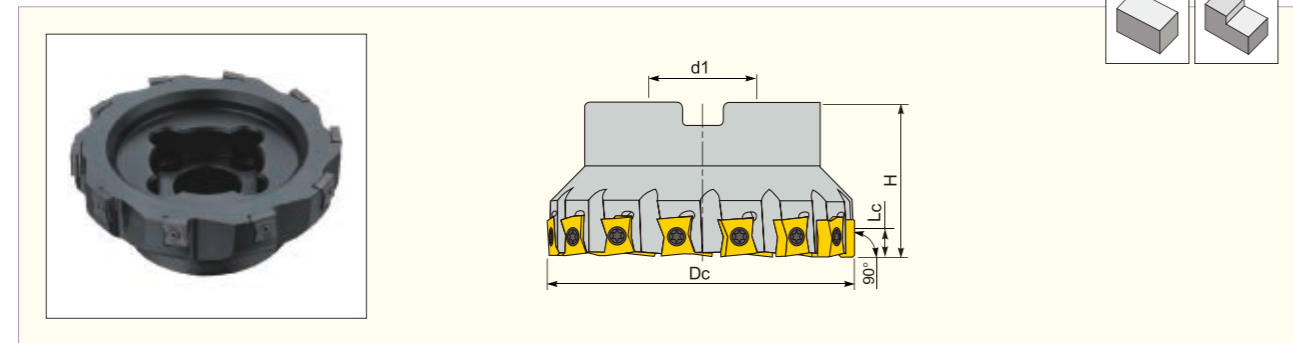
图例 Diagram	刀片型号 Insert	尺寸 Size				加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter	
		W	I	S	r		P	M	K	N	S	H	ap(mm)
	LNMX 1106T-R4P 2230	6	11.16	11	0.8	重型 Heavy duty	●	●				1.5-5.0	0.17-0.25
	LNMX 1106T-R4K 2215	6	11.16	11	0.8	中型 Medium duty		●				1.5-5.0	0.15-0.20
	LNAR 1106F-M8N 2020	6	11.16	11	0.8	轻型 Light duty			●			1.5-5.0	0.15-0.20
	LNMT 110608-M5G 2230	6	11	11	0.8	中型 Medium duty	●	●				1.5-5.0	0.10-0.25
	LNMT 110608-M5K 2115	6	11	11	0.8	中型 Medium duty		●				1.5-5.0	0.12-0.30

- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF90LN..1506..

Kr=90°



规格型号 Designation	Dc	d1	H	Lc	刀片数 z	Kg	刀片型号 Insert	在库 Stock
MF90LN D050.B22.Z05.15.R/L	50	22	40	7	5	0.4	LN..1506..	●
MF90LN D063.B22.Z05.15.R/L	63	22	40	7	5	0.5	LN..1506..	●
MF90LN D063.B22.Z08.15.R/L	63	22	40	7	8	0.5	LN..1506..	○
MF90LN D080.B27.Z07.15.R/L	80	27	40	7	7	0.85	LN..1506..	●
MF90LN D080.B27.Z10.15.R/L	80	27	50	7	10	0.85	LN..1506..	○
MF90LN D100.B32.Z08.15.R/L	100	32	50	7	8	1.8	LN..1506..	●
MF90LN D125.B40.Z09.15.R/L	125	40	63	7	9	3.0	LN..1506..	●
MF90LN D160.B40.Z10.15.R/L	160	40	63	7	10	6.0	LN..1506..	●
MF90LN D200.B60.Z12.15.R/L	200	60	63	7	12	8.2	LN..1506..	●
MF90LN D250.B60.Z15.15.R/L	250	60	63	7	15	12.2	LN..1506..	●
MF90LN D315.B60.Z20.15.R/L	315	60	80	7	20	28.3	LN..1506..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MF90LN D050.B22.Z04.15.R.
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF90LN D050.B22.Z04.15.R.

备件

Spare Parts



刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for claming screw
LN..1506..	SR20 M4x11.5	KEY02 T15

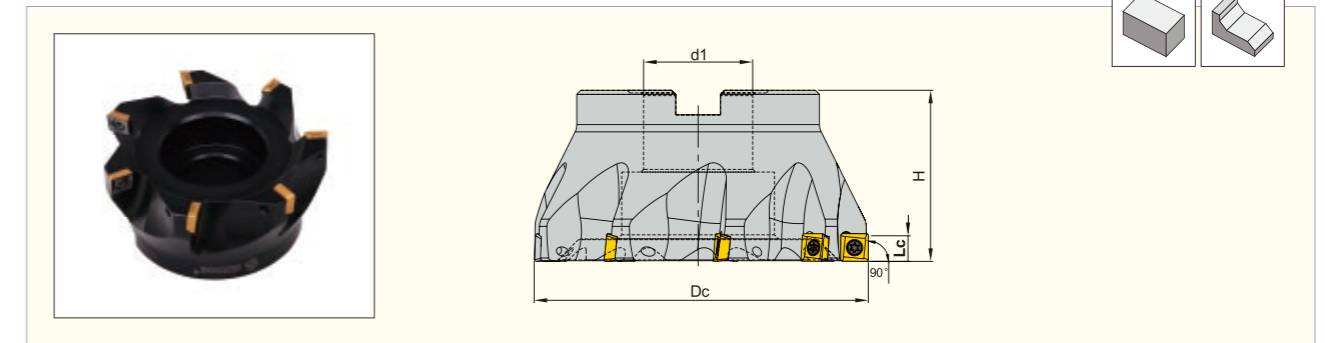
图例 Diagram	刀片型号 Insert	尺寸 Size				加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter		
		W	I	S	r		P	M	K	N	S	H	ap(mm)	fz(mm/z)
	LNKX 1506T-M8K 2215	6	15	13.9	0.8	中型 Medium duty	●						2.0-7.0	0.20-0.30
	LNKX 1506T-R4P 2235	6	15	13.9	0.8	重型 Heavy duty	●	●					2.0-7.0	0.30-0.40
	LNAR 1506F-M8N 2020	6	15	13.9	0.8	轻型 Light duty			●				2.0-7.0	0.10-0.15
	LNMT 150608-M7G 2230	6	15	13.9	0.8	重型 Heavy duty	●	●					1.5-5.0	0.10-0.25
	LNMT 150608-M7K 2115	6	15	13.9	0.8	重型 Heavy duty	●						1.5-5.0	0.12-0.30
	LNMT 150608-F3M 2140	6	15	13.9	0.8	中型 Medium duty	●						1.5-5.0	0.10-0.25

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF90SD..1205..

Kr=90°



规格型号 Designation	Dc	d1	H	Lc	刀片数 z	Kg	刀片型号 Insert	在库 Stock
MF90SD D050.B22.Z04.12	50	22	40	11.8	4	0.26	SD..1205..	●
MF90SD D063.B22.Z05.12	63	22	40	11.8	5	0.42	SD..1205..	●
MF90SD D080.B27.Z06.12	80	27	50	11.8	6	0.86	SD..1205..	●
MF90SD D100.B32.Z07.12	100	32	50	11.8	7	1.42	SD..1205..	●
MF90SD D125.B40.Z08.12	125	40	63	11.8	8	2.65	SD..1205..	●
MF90SD D160.B40.Z09.12	160	40	63	11.8	9	3.77	SD..1205..	●
MF90SD D200.B60.Z13.12	200	60	63	11.8	13	6.70	SD..1205..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MF90SD D050.B22.Z05.12.
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF90SD D050.822205.12.

备件

Spare Parts



刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for claming screw
SD..1205..	SR20 M4x11.5	KEY02 T15

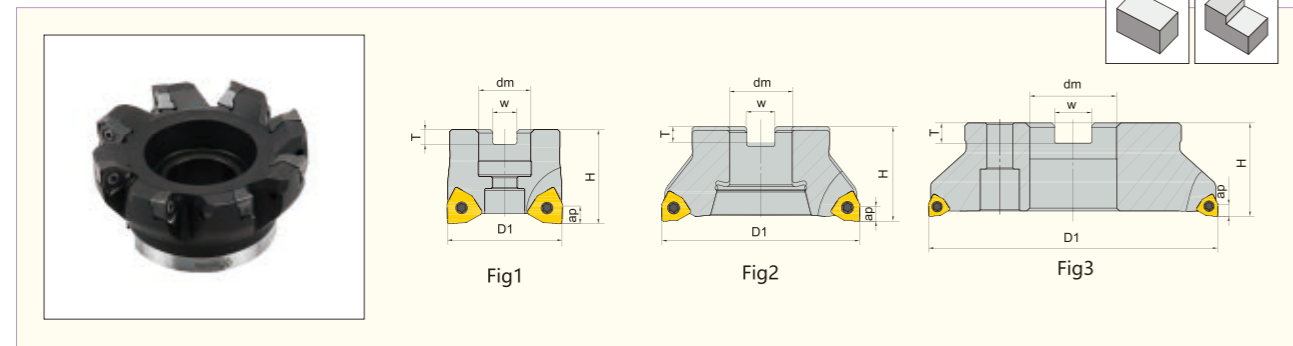
图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter		
		I	S	r		P	M	K	N	S	H	ap(mm)	fz(mm/z)
	SDMX 1205-M8P 2230	12.7	5.1	0.8	中型 Medium duty	●	●					4.0-10.0	0.07-0.12
	SDMX 1205-M8K 2215	12.7	5.1	0.8	中型 Medium duty	●						4.0-10.0	0.07-0.12

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF90WN..0807..

Kr=90°



规格型号 Designation	D1	齿数 z	dm	H	W	T	ap	内冷 Coolant	图示 z	刀片型号 Insert	在庫 Stock
MF90WN D050.B22.Z05.08	50	5	22	40	10.4	6.3	7.5	N	Fig1	WN..0807..	●
MF90WN D063.B22.Z06.08	63	6	22	40	10.4	6.3	7.5	N	Fig1	WN..0807..	●
MF90WN D080.B27.Z07.08	80	7	27	50	12.4	7	7.5	N	Fig1	WN..0807..	●
MF90WN D100.B32.Z08.08	100	8	32	50	14.4	8	7.5	N	Fig2	WN..0807..	●
MF90WN D125.B40.Z11.08	125	11	40	63	16.4	9	7.5	N	Fig2	WN..0807..	●
MF90WN D160.B40.Z12.08	160	12	40	63	16.4	9	7.5	N	Fig3	WN..0807..	●
MF90WN D200.B60.Z16.08	200	16	60	63	25.7	14	7.5	N	Fig3	WN..0807..	●

- 刀片请根据不同材料单独订购。
- 加工不同的切削参数，请参照：C41 页。
- 订货示例：1 件 MF90WN D050.B22.Z05.08。
- Inserts should be ordered separately .
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF90WN D050.B22.Z05.08.

备件

Spare Parts

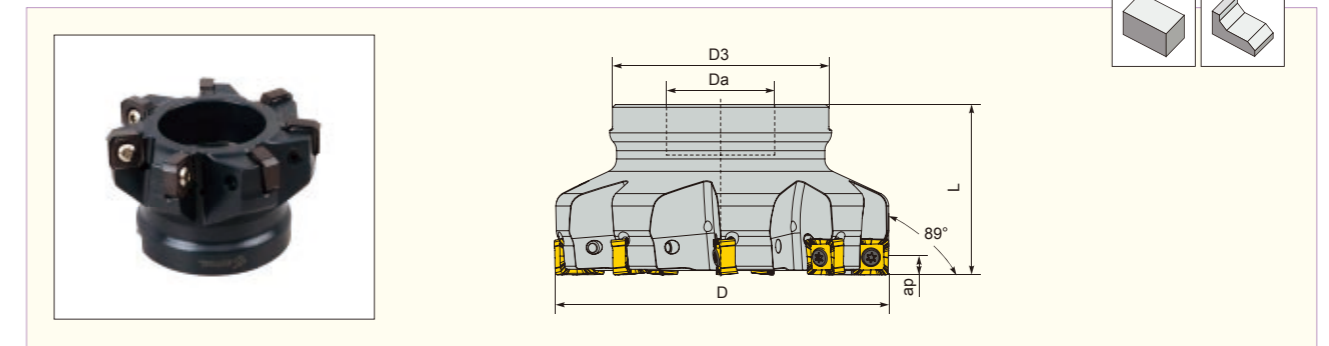
刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
WN..0807..	SR20 M4x11.5	KEY02 T15

图例 Diagram	刀片型号 Insert	尺寸 Size				适配加工材质 Material					切削参数推荐 Cutting parameter			
		D	d1	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	fz(mm/rev)
	WNEX 080708-M5G 2230	12.48	4.6	6.45	0.8	●	●					120-200	7.5	0.1-0.2
	WNEX 080708-M5K 2225	12.48	4.6	6.45	0.8			●				120-200	7.5	0.1-0.2
	WNEX 080708-M7K 2115	12.48	4.6	6.45	0.8			●				120-200	7.5	0.1-0.2
	WNEX 080708-M5G 2240	12.48	4.6	6.45	0.8	●	●			●		120-200	7.5	0.1-0.2

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF89SN..1305..

Kr=89°



规格型号 Designation	D	ap	齿数 z	L	D3	Da	内冷 Coolant	Kg	刀片型号 Insert	在庫 Stock
MF89SN D040 B16.Z04.13.C	40	10	4	40	40	16	Y	0.184	S890 SN..1305..	●
MF89SN D050 B22.Z04.13.C	50	10	4	40	48	22	Y	0.281	S890 SN..1305..	●
MF89SN D063 B22.Z05.13.C	63	10	5	40	48	22	Y	0.385	S890 SN..1305..	●
MF89SN D080 B27.Z07.13.C	80	10	7	50	60	27	Y	0.74	S890 SN..1305..	●
MF89SN D100 B32.Z08.13.C	100	10	8	50	70	32	Y	1.267	S890 SN..1305..	●
MF89SN D125 B40.Z09.13.C	125	10	9	63	82	40	Y	2.303	S890 SN..1305..	●
MF89SN D160 B40.Z10.13	160	10	10	63	106	40	N	4.282	S890 SN..1305..	●

- 刀片请根据不同材料单独订购。
- 加工不同的切削参数，请参照：C41 页。
- 订货示例：1 件 MF89SN D040 B16.Z04.13.C。
- Inserts should be ordered separately .
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF89SN D040 B16.Z04.13.C.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
S890 SN..1305..	SR26 M4x12.5	KEY02 T15

图例 Diagram	刀片型号 Insert	尺寸 Size					适配加工材质 Material					切削参数推荐 Cutting parameter		
		di	S	ap	F	r	P	M	K	N	S	H	ap(mm)	fz(mm/z)
	S890 SNMU 1305PNR-R3P 2130	13	5.6	9	1.8	0.8	●	●					5.00-15.00	0.15-0.3
	S890 SNMU 1305PNR-R3K 2130	13	5.6	9	1.8	0.8			●				5.00-15.00	0.15-0.3

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

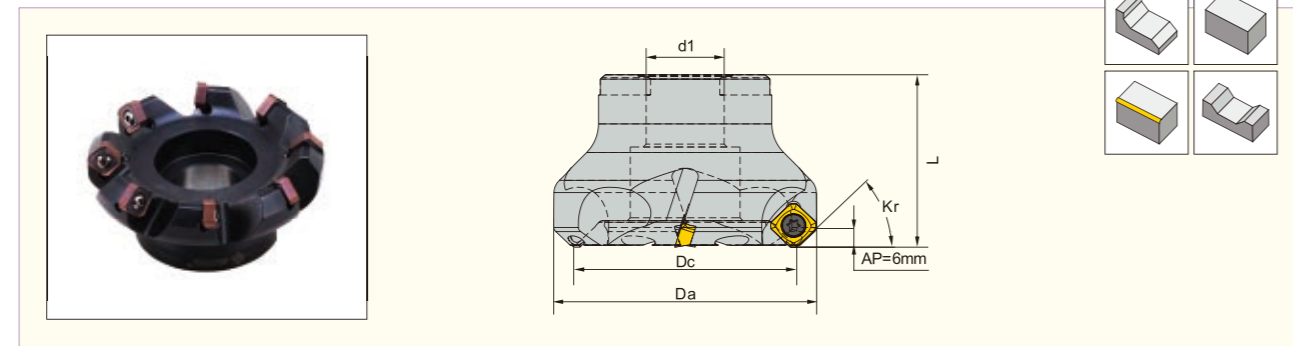
● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF45SN..1306..

Kr=89°



规格型号 Designation	Dc	Da	d1	L	刀片数 z	Kr	Kg	刀片型号 Insert	在庫 Stock
MF45SN D040.B22.Z04.13	40	50.4	22	41.2	4	45°	0.3	SN..1306..	●
MF45SN D050.B22.Z04.13	50	60.4	22	41.2	4	45°	0.4	SN..1306..	●
MF45SN D063.B22.Z06.13	63	73.4	22	41.2	6	45°	0.5	SN..1306..	●
MF45SN D080.B27.Z07.13	80	90.4	27	51.2	7	45°	1	SN..1306..	●
MF45SN D100.B32.Z08.13	100	110.4	32	51.2	8	45°	1.4	SN..1306..	●
MF45SN D125.B40.Z10.13	125	135.6	40	64.2	10	45°	2.7	SN..1306..	●
MF45SN D160.B40.Z12.13	160	170.4	40	63.0	12	45°	3.33	SN..1306..	●
MF45SN D200.B60.Z14.13	200	210.4	60	63.0	14	45°	5.78	SN..1306..	●
MF45SN D250.B60.Z16.13	250	260.4	60	63.0	16	45°	8.08	SN..1306..	●

- 刀片请根据不同材料单独订购。
- 加工不同的切削参数，请参照：C41 页。
- 订货示例：1 件 MF45SN D040.B22.Z04.13。
- Inserts should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF45SN D040.B22.Z04.13.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
SN..1306..	SR26 M4x12.5	KEY02 T15

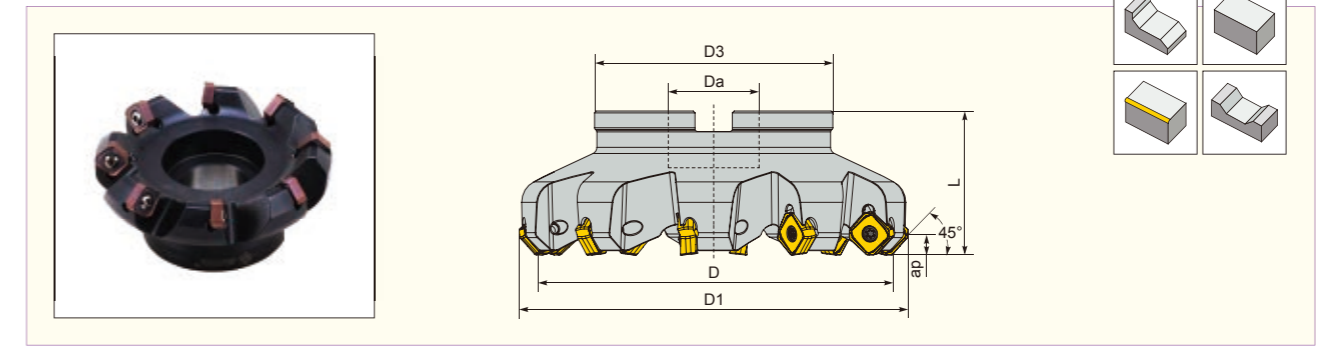
图例 Diagram	刀片型号 Insert	尺寸 Size					加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter		
		d	ap	s	F	r		P	M	K	N	S	H	ap(mm)	fz(mm/z)
	SNMU 1306T-R4P 2235	13	6	6.2	3	0.5	重型 Heavy duty	●	●					2.0-6.0	0.20-0.40
	SNMU 1306F-R4K 2215	13	6	6.2	3	0.5	重型 Heavy duty	●						2.0-6.0	0.15-0.40

- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF45SN..1606..

Kr=45°



规格型号 Designation	D	D1	Z	ap	L	D3	Da	内冷 Coolant	Kg	刀片型号 Insert	在庫 Stock
MF45SN D063.B22.Z05.16.C	63	77.8	5	7.15	45	60	22	Y	0.727	SN..1606..	●
MF45SN D080.B27.Z09.16.C	80	93.1	9	7.15	50	63	27	Y	1.011	SN..1606..	●
MF45SN D100.B32.Z07.16.C	100	114.6	7	7.15	50	80	32	Y	1.626	SN..1606..	●
MF45SN D125.B40.Z08.16.C	125	139.8	8	7.15	63	82	40	Y	2.686	SN..1606..	●
MF45SN D160.B40.Z10.16	160	174.8	10	7.15	63	105	40	N	4.16	SN..1606..	●
MF45SN D200.B60.Z12.16	200	214.8	12	7.15	63	135	60	N	5.847	SN..1606..	●
MF45SN D250.B60.Z15.16	250	264.8	15	7.15	63	144	60	N	8.581	SN..1606..	●

- 刀片请根据不同材料单独订购。
- 加工不同的切削参数，请参照：C41 页。
- 订货示例：1 件 MF45SN D063.B22.Z05.16.C。
- Inserts should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF45SN D063.B22.Z05.16.C.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
SN..1606..	SR20 M5x14	KEY02 T20

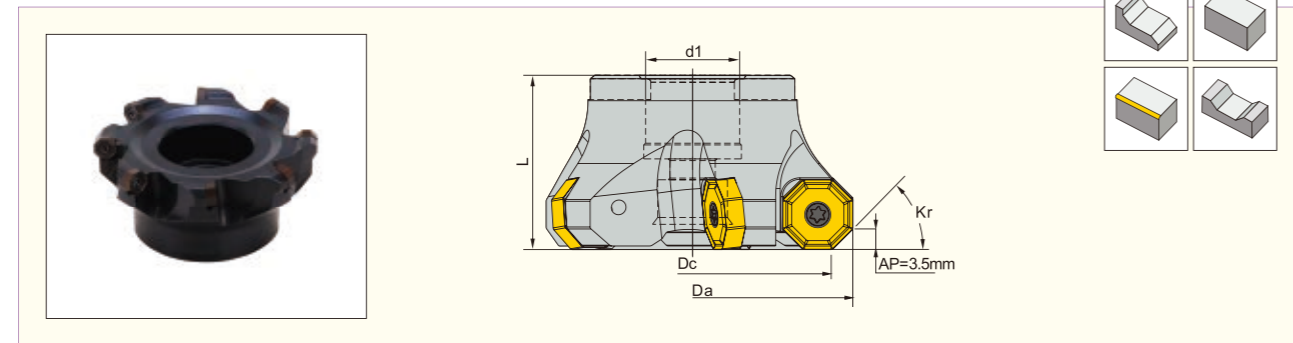
图例 Diagram	刀片型号 Insert	尺寸 Size					适配加工材质 Material					切削参数推荐 Cutting parameter		
		di	S	F	r	ap	P	M	K	N	S	H	ap(mm)	fz(mm/z)
	SNGU 1606ADTR-R3P 2130	16.2	7.63	2.84	0.8	7.15	●	●					3.00-7.00	0.3-0.5
	SNGU 1606ADTR-R3K 2130	16.2	7.63	2.84	0.8	7.15	●						3.00-7.00	0.3-0.5

- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF45ON..0506..

Kr=45°



规格型号 Designation	Dc	Da	d1	L	刀片数 z	Kr	Kg	刀片型号 Insert	在庫 Stock
MF45ON D040.B22.Z04.05	40	50.4	22	40	4	44°	0.32	ON..0506..	●
MF45ON D050.B22.Z05.05	50	60.4	22	40	5	44°	0.41	ON..0506..	●
MF45ON D063.B22.Z05.05	63	73.4	22	40	5	44°	0.45	ON..0506..	●
MF45ON D080.B27.Z06.05	80	90.4	27	50	6	44°	0.89	ON..0506..	●
MF45ON D100.B32.Z07.05	100	110.4	32	50	7	44°	1.45	ON..0506..	●
MF45ON D125.B40.Z08.05	125	135.6	40	63	8	44°	2.54	ON..0506..	●
MF45ON D160.B40.Z12.05	160	170.4	40	63	12	44°	3.33	ON..0506..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MF45ON D040.B22.Z04.05。
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF45ON D040.B22.Z04.05.

备件

Spare Parts



刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
ON..0506..	SR20 M5x11	KEY02 T20

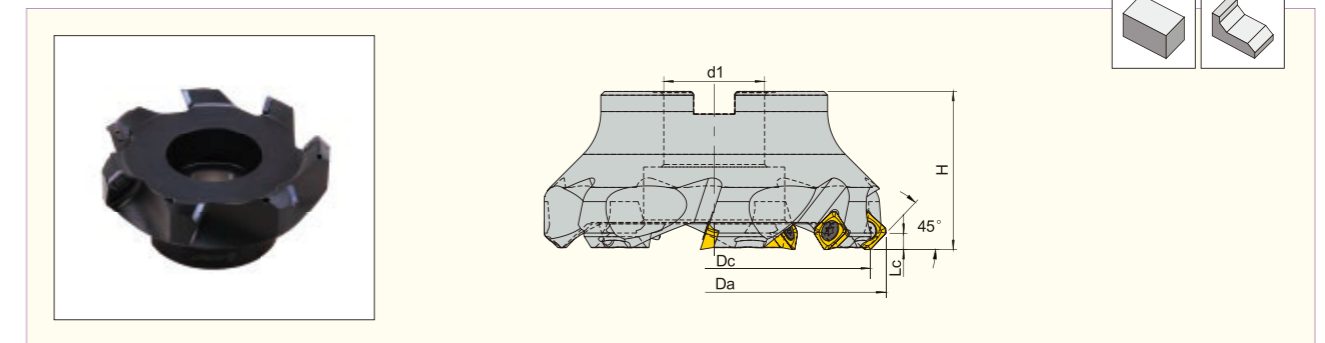
图例 Diagram	刀片型号 Insert	尺寸 Size					加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter		
		d	ap	s	F	r		P	M	K	N	S	H	ap(mm)	fz(mm/z)
	ONEG 050605T-R4P 2235	13	3.5	5.5	5	0.5	重型 Heavy duty	●	●					1.5-3.0	0.3-0.4
	ONEG 050605T-R4K 2215	13	3.5	5.5	5	0.5	重型 Heavy duty	●						1.5-3.0	0.3-0.4

- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF45SE..12T3..

Kr=45°



规格型号 Designation	Dc	Da	d1	H	Lc	刀片数 z	Kg	刀片型号 Insert	在庫 Stock
MF45SE D050.B22.Z04.12	50	63	22	40	6.5	4	0.40	SE..12T3..	●
MF45SE D063.B22.Z05.12	63	75.9	22	40	6.5	5	0.54	SE..12T3..	●
MF45SE D080.B27.Z06.12	80	93.2	27	50	6.5	6	1.08	SE..12T3..	●
MF45SE D100.B32.Z06.12	100	113.2	32	50	6.5	6	1.54	SE..12T3..	●
MF45SE D125.B40.Z07.12	125	138	40	63	6.5	7	2.67	SE..12T3..	●
MF45SE D160.B40.Z07.12	160	173	40	63	6.5	7	4.10	SE..12T3..	●
MF45SE D200.B60.Z10.12	200	212.9	60	63	6.5	10	7.70	SE..12T3..	●
MF45SE D250.B60.Z13.12	250	262.9	60	63	6.5	13	10.50	SE..12T3..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MF45SE D050.B22.Z04.12。
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF45SE D050.B22.Z04.12.

备件

Spare Parts



刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
SE..12T3..	SR20 M3.5x11	KEY02 T15

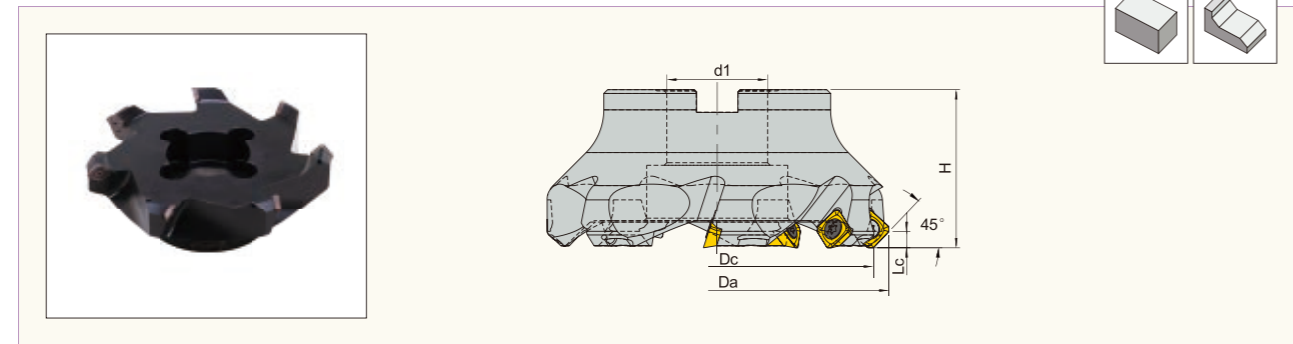
图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter		
		F	S	d		P	M	K	N	S	H	ap(mm)	fz(mm/z)
	SEHT 12T3-M9N 2025	2.2	4.76	12.7	中型 Medium duty	●						2.0-6.0	0.15-0.30
	SEMT 12T3-M8P 2230	2.2	3.81	12.7	中型 Medium duty	●	●					2.0-6.0	0.12-0.20
	SEMT 12T3-M8K 2215	2.2	3.81	12.7	中型 Medium duty	●						2.0-6.0	0.12-0.20

- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF45SET..12T3..

Kr=45°



规格型号 Designation	Dc	Da	d1	H	Lc	刀片数 z	Kg	刀片型号 Insert	在库 Stock
MF45SET D050.B22.Z04.12	50	63	22	40	6.5	4	0.4	SE..12T3..	●
MF45SET D063.B22.Z05.12	63	75.9	22	40	6.5	5	0.54	SE..12T3..	●
MF45SET D080.B27.Z06.12	80	93.2	27	50	6.5	6	1.08	SE..12T3..	●
MF45SET D100.B32.Z06.12	100	113.2	32	50	6.5	6	1.54	SE..12T3..	●
MF45SET D125.B40.Z07.12	125	138	40	63	6.5	7	2.67	SE..12T3..	●
MF45SET D160.B40.Z07.12	160	173	40	63	6.5	7	4.1	SE..12T3..	●
MF45SET D200.B60.Z10.12	200	212.9	60	63	6.5	10	7.7	SE..12T3..	●
MF45SET D250.B60.Z13.12	250	262.9	60	63	6.5	13	10.5	SE..12T3..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MF45SE D050.B22.Z04.12。
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF45SE D050.B22.Z04.12.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw	刀垫 Shim	刀垫螺钉 Screw for shim	刀垫锁紧扳手 Allen key for shim screw
SE..12T3..	SR20 M3.5x11	KEY02 T15	ST02 S12x0.8	SR28 M5x11	KEY01 M3.5

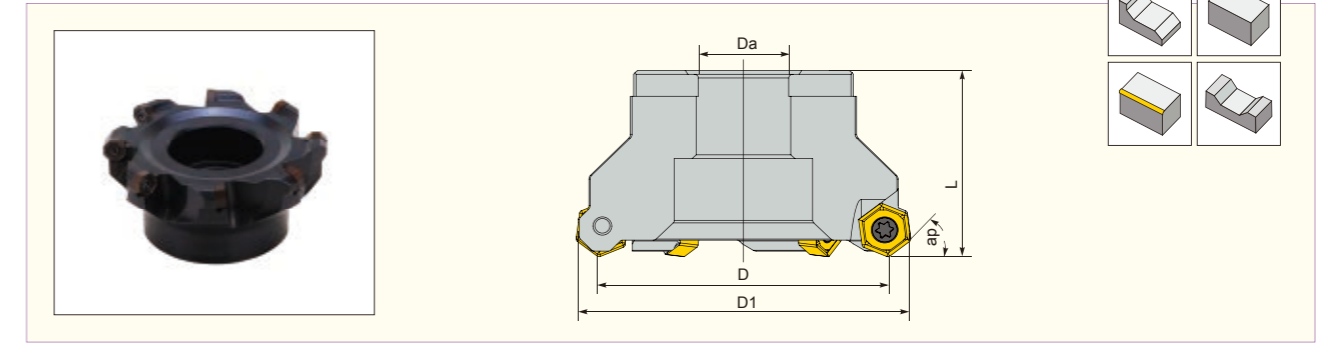
图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter		
		F	S	d		P	M	K	N	S	H	ap(mm)	fz(mm/z)
	SEHT 12T3-M9N 2025	2.2	4.76	12.7	中型 Medium duty	●						2.0-6.0	0.15-0.30
	SEMT 12T3-M8P 2230	2.2	3.81	12.7	中型 Medium duty	●	●					2.0-6.0	0.12-0.20
	SEMT 12T3-M8K 2215	2.2	3.81	12.7	中型 Medium duty	●						2.0-6.0	0.12-0.20

- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF45HN..0906..

Kr=45°



规格型号 Designation	D	ap	齿数 z	L	Da	刀片型号 Insert	在库 Stock
MF45HN D063 B22.Z06.09	63	5	6	50	22	HN..0906..	●
MF45HN D080 B22.Z06.09	80	5	6	50	22	HN..0906..	●
MF45HN D100 B32.Z08.09	100	5	8	63	32	HN..0906..	●
MF45HN D125 B40.Z10.09	125	5	10	63	40	HN..0906..	●
MF45HN D160 B40.Z12.09	160	5	12	63	40	HN..0906..	●
MF45HN D200 B60.Z12.09	200	5	12	63	60	HN..0906..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MF45HN D063 B22.Z06.09。
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF45HN D063 B22.Z06.09.

备件

Spare Parts

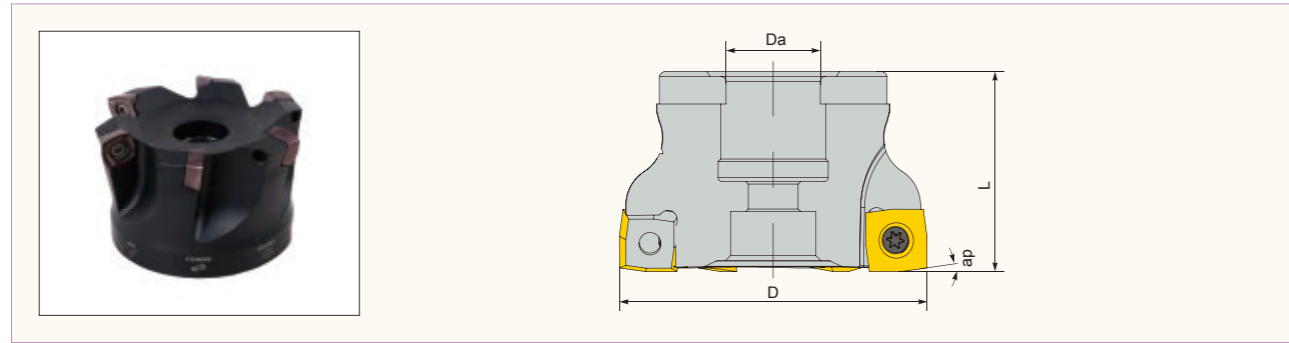
刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
HN..0906..	SR26 M4x10	KEY02 T15

图例 Diagram	刀片型号 Insert	尺寸 Size			适配加工材质 Material					切削参数推荐 Cutting parameter			
		d	S	d1	P	M	K	N	S	H	ap(mm)	fz(mm/z)	
	HNGX 0906ANEN-M7M 2110	16.5	6.35	4.9	●	●	●					0.50-5.00	0.05-0.20

- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

FFSD.. 快进给铣刀盘 Fast Feed Milling Cutter



规格型号 Designation	D	ap	齿数 z	L	Da	刀片型号 Insert	在库 Stock
FFSD D050 B22.Z04.12	50	2	4	40	22	SDMT 120512	●
FFSD D063 B22.Z05.12	63	2	5	50	22	SDMT 120512	●
FFSD D080 B27.Z06.12	80	2	6	50	27	SDMT 120512	●
FFSD D100 B32.Z07.12	100	2	7	50	32	SDMT 120512	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MFFSD D050 B22.Z04.12。
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC FFSD D050 B22.Z04.12.

备件

Spare Parts

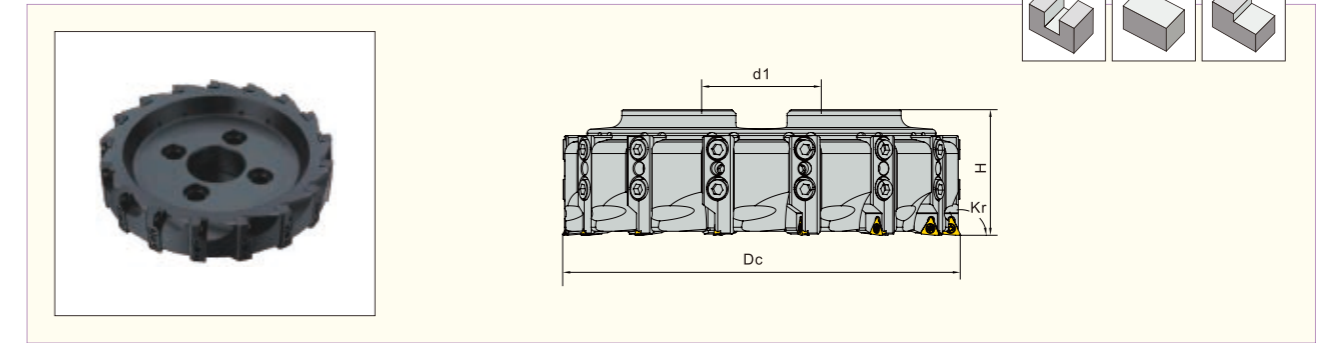
刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
SDMT 120512	SR26 M4x11	KEY02 T15
SDMT 120512	SR26 M4x11	KEY02 T15
SDMT 120512	SR26 M4x11	KEY02 T15
SDMT 120512	SR26 M4x11	KEY02 T15

图例 Diagram	刀片型号 Insert	尺寸 Size			适配加工材质 Material					切削参数推荐 Cutting parameter		
		d	S	R	P	M	K	N	S	H	ap(mm)	fz(mm/z)
	SDMT 120512-M5G 2230	12.7	5.56	1.2	●	●	●				0.50-2.00	0.50-1.50
	SDMT 120512-M5G 2240	12.7	5.56	1.2	●						0.50-2.00	0.50-1.50

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MFRIL115 可调式精铣刀 Adjustable Finish Milling Cutter

Kr=115°



规格型号 Designation	Dc	d1	H	Z	Kr	Kg	刀片型号 Insert	在库 Stock
MFR/L115 D080.B27.Z06.13	80	27	63	6	115°	1.5	TXMW 1303..	●
MFR/L115 D100.B32.Z08.13	100	32	63	8	115°	2.1	TXMW 1303..	●
MFR/L115 D125.B40.Z10.13	125	40	63	10	115°	3.5	TXMW 1303..	●
MFR/L115 D160.B40.Z12.13	160	40	63	12	115°	5.3	TXMW 1303..	●
MFR/L115 D200.B60.Z14.13	200	60	63	14	115°	8.1	TXMW 1303..	●
MFR/L115 D250.B60.Z17.13	250	60	63	17	115°	12.2	TXMW 1303..	●
MFR/L115 D315.B60.Z20.13	315	60	63	20	115°	20.5	TXMW 1303..	●
MFR/L115 D400.B60.Z24.13	400	60	63	24	115°	31.5	TXMW 1303..	●

- 适配刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 刀具切深不能大于刀片圆角。
- 订货示例：1 件 MFR 115 D080.B27.Z06.13。
- Insert with different materials should be ordered separately.
- Recommended cutting data please see page C41.
- The cutting depth should not be larger than the round of insert.
- Ordering sample: 1 PC MFR 115 D080.B27.Z06.13.

备件

Spare Parts

规格型号 Designation	刀座 Cartridge	刀片锁紧螺钉 Clamping screw for insert	偏心销 Adjusting blot/ eccentric pin	刀片锁紧螺钉 Clamping screw for cartridge	刀片锁紧扳手 Allen key for clamping screw	调整扳手 Adjusting wrench	刀座调整扳手 Adjusting wrench for cartridge
MFR/L115..	MR/L115	SR20 M2.5x6	FT70 D8x12.5	SR55 M6x20	KEY02 T8	KEY01 M4	KEY01 M5

图例 Diagram	刀片型号 Insert	尺寸 Size				适配加工材质 Material					切削参数推荐 Cutting parameter				
		l	r	a°	S	d	d1	P	M	K	N	S	H	ap(mm)	fz(mm/z)
	TXMW 130304-M6K 2215	11	0.4	11	3.18	6.35	3.4	●						1.0-3.00	0.1-0.2

● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

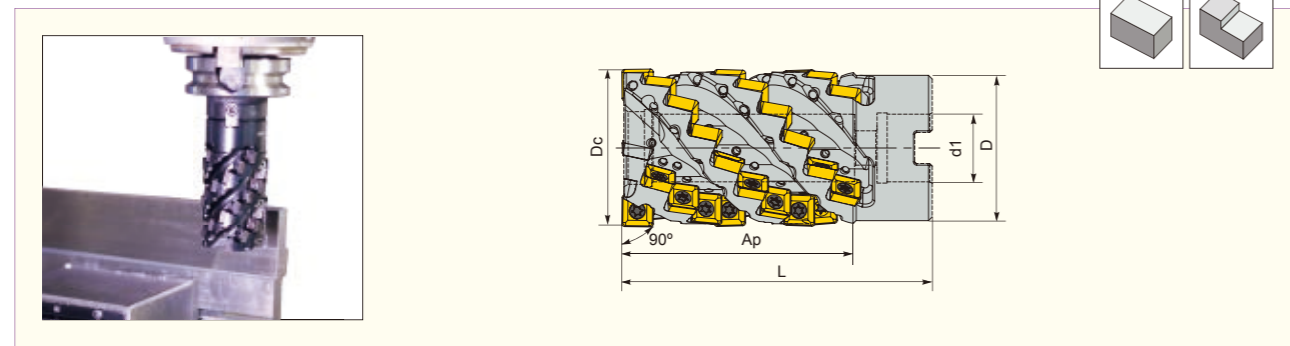
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Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MM90SD..1204 阻尼减振玉米铣刀

Dampening Helical Milling Cutter



规格型号 Designation	Dc	Ap	Zeff	Z	L	D	d1	刀片型号 Insert	在库 Stock
MM90SD D063.B27.Z24-04.12	63	57	4	24	85	58	27	SD..1204..	●
MM90SD D063.B27.Z40-04.12	63	94	4	40	124	58	27	SD..1204..	●
MM90SD D080.B32.Z35-05.12	80	65	5	35	95	74	32	SD..1204..	●
MM90SD D080.B32.Z60-05.12	80	110	5	60	143	74	32	SD..1204..	●
MM90SD D100.B40.Z48-06.12	100	76	6	48	106	94	40	SD..1204..	●
MM90SD D100.B40.Z84-06.12	100	133	6	84	165	94	40	SD..1204..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MM90SD D063.B27.Z24-04.12。
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MM90SD D063.B27.Z24-04.12.

备件

Spare Parts

规格型号 Designation	刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw	分体扳手头 Wrench head	冷却塞 Cooling plug
MM90SD D063.B27.Z24-04.12	SD..1204..	SR21 M4x11.7	KEY30 S4-T	BLD T20/S4-L	SR M30.L53-X
MM90SD D063.B27.Z40-04.12	SD..1204..	SR21 M4x11.7	KEY30 S4-T	BLD T20/S4-L	SR M30.L90-X
MM90SD D080.B32.Z35-05.12	SD..1204..	SR21 M4x11.7	KEY30 S4-T	BLD T20/S4-L	SR M42.L57-X
MM90SD D080.B32.Z60-05.12	SD..1204..	SR21 M4x11.7	KEY30 S4-T	BLD T20/S4-L	SR M42.L105-X
MM90SD D100.B40.Z48-06.12	SD..1204..	SR21 M4x11.7	KEY30 S4-T	BLD T20/S4-L	SR M52.L66-X
MM90SD D100.B40.Z84-06.12	SD..1204..	SR21 M4x11.7	KEY30 S4-T	BLD T20/S4-L	SR M52.L125-X

图例 Diagram	刀片型号 Insert	尺寸 Size				适配加工材质 Material					切削参数推荐 Cutting parameter			
		l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	fz(mm/z)
	SDGT 120412-R3S 4305	12.7	12.7	4.75	1.2	●	●	●	●	●	●	50-200	1-11.5	0.08-0.3
	SDGT 120412-R3P 1220	12.7	12.7	4.75	1.2	●	●	●	●	●	●	100-300	1-11.5	0.08-0.3

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MM90SD..1204 阻尼减振玉米铣刀

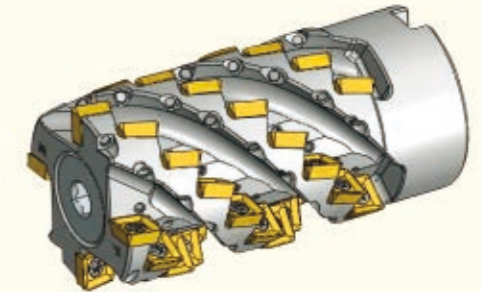
Dampening Helical Milling Cutter

MM90SD 系列玉米铣刀安装说明

Assembly Instructions for Helical Milling Cutter

请按照以下说明安装及分解刀具，将其连结至刀柄上，然后重新组装冷却塞。

Please follow the below instructions for assembling and disassembling the helical milling cutter. Then connect the tool to with the arbor and mount the cooling plug once again.

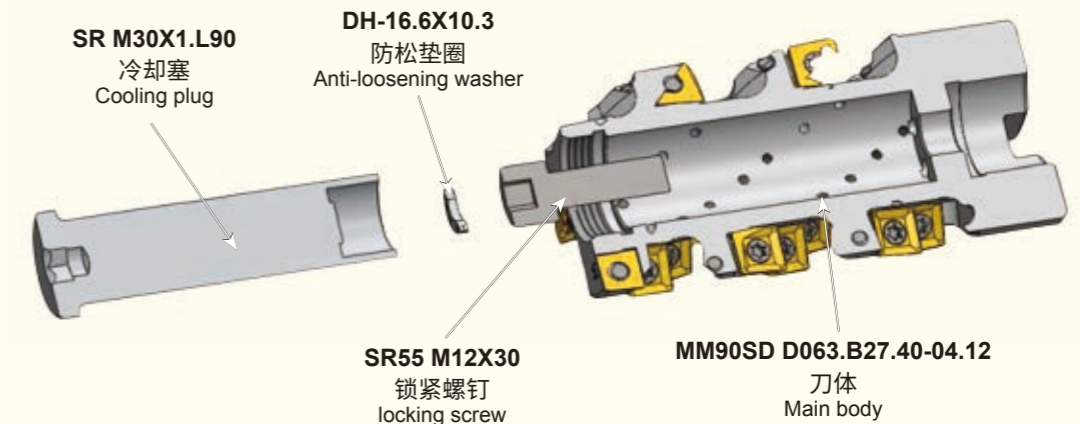


MM90SD D063.B27.Z40-04.12 装配举例:

- 在重新安装冷却塞时，应确保防松垫圈位于冷却塞下方的正确位置。可以使用少量油脂从而确保防松垫圈的定位；
- 如果实际加工轴向切深小于于刀具的最大切深值，可使用单独供应的 SR50 M3 螺钉阻塞冷却孔，以确保刀具实际加工切深获得更多冷却；
- 重新安装冷却塞及锁紧螺钉需按照下表中设定的扭矩拧紧。

Example of assembly:

- Please be sure the lock washer is at the right position which is under the cooling plug when you mount the cooling plug once again. If everything is correct, there will be little oil release for fixing the lock washer.
- Please order the screw SR50 M3 separately for plugging up the cooling hole if the axial cutting depth is smaller than the max cutting depth. In that case the tool can be cooled best when machining.
- Please follow the recommended torque in below table for locking the screw when you mount the cooling plug once again.



规格型号 Designation	锁紧螺钉 Locking screw	安装螺钉的扭矩值 Nm Torque of mounting screw Nm		冷却塞 Cooling plug	安装冷却塞的扭矩值 Nm Torque of mounting lock washer Nm
		正常条件 Common condition	恶劣条件 ough condition		
MM90SD D063.B27.Z24-04.12	SR55 M12x30	80	100	SR M30.L53-X	34
MM90SD D063.B27.Z40-04.12	SR55 M12x30	80	100	SR M30.L90-X	34
MM90SD D080.B32.Z35-05.12	SR55 M16x40	110	150	SR M42.L57-X	61
MM90SD D080.B32.Z60-05.12	SR55 M16x40	110	150	SR M42.L105-X	61
MM90SD D100.B32.Z48-06.12	SR55 M20x50	120	180	SR M52.L66-X	61
MM90SD D100.B32.Z84-06.12	SR55 M20x50	120	180	SR M52.L125-X	61

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

SIDE AND FACE
MILLING CUTTER

三面刃铣刀

C
铣削刀具
MILLING CUTTERS三面刃铣刀
Side and Face Milling Cutter

可调式三面刃铣刀	C29
Adjustable Side and Face Milling Cutter	
LN11 三面刃铣刀	C30
LN11 Side And Face Milling Cutter	
LN15 三面刃铣刀	C32
LN15 Side And Face Milling Cutter	

可转位倒角刀
Indexable Insert Chamfer Cutter

长刃倒角刀	C34
Chamfering Cutter With Long Cutting Edge	
杆式倒角刀	C35
Chamfer Cutter With Cylindrical Shank	
盘式倒角刀	C36
Face Chamfering Cutter	

可调式端面槽铣刀
API Ring Grooving Cutter

可调式端面槽铣刀	C37
API Ring Grooving Cutter	
可调式端面槽铣刀刀座	C38
The Cartridges For Adjustable API Ring Groover	
简易可调式槽铣刀刀座	C39
Simple Adjustable Cartridge	
可调式端面槽铣刀使用说明	C40
The Instrution Manual For API Ring Groover	

技术资料
Technical Information

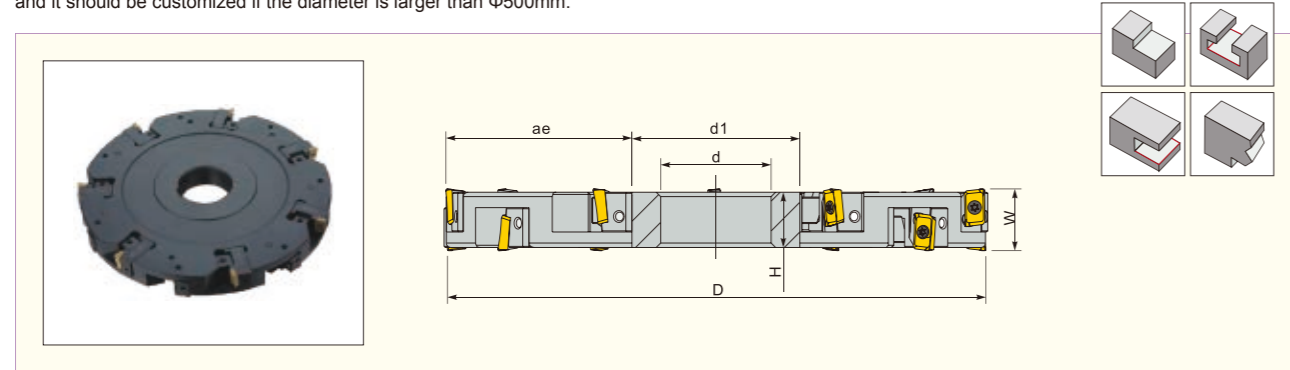
技术资料	C41
Technical Information	

SIDE AND FACE MILLING CUTTER 三面刃铣刀

可调式三面刃铣刀

Adjustable Side and Face Milling Cutter

配置端面和径向可调的刀座，可更换不同刀片的刀座，调整更换方便；可正反铣面和铣槽；标准产品刀具直径 $\Phi 200-\Phi 500$ ，直径 $\Phi 500$ 以上非标定制。
It is with cartridge with different inserts; it can mill the surface and groove; the diameter of standard milling cutter $\Phi 200-\Phi 500$ mm, and it should be customized if the diameter is larger than $\Phi 500$ mm.



规格型号 Designation	D	W	ae	d	d1	H	Z	Kg	适配刀座 Cartridge	在庫 Stock
MSSB D200.B40.W28.Z12.15	200	28	60	40	80	25	2x6	4.8		●
MSSB D250.B50.W28.Z14.15	250	28	75	50	100	25	2x7	7.8	MSR 905	●
MSSB D315.B50.W30.Z16.15	315	30	107	50	100	27	2x8	11.4	MSL 905	●
MSSB D400.B50.W30.Z20.15	400	30	150	50	100	27	2x10	19.3		●
MSSB D500.B50.W30.Z24.15	500	30	200	50	100	27	2x12	29.2		●
MSSB D200.B40.W28.Z12.16	200	28	60	40	80	25	2x6	4.8		●
MSSB D250.B50.W28.Z14.16	250	28	75	50	100	25	2x7	7.8	MSR 902	●
MSSB D315.B50.W30.Z16.16	315	30	107	50	100	27	2x8	11.4	MSL 902	●
MSSB D400.B50.W30.Z20.16	400	30	150	50	100	27	2x10	19.3		●
MSSB D500.B50.W30.Z24.16	500	30	200	50	100	27	2x12	29.2		●

- 请尽量使用冷却液。
- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C31 页。
- 铣槽时请根据具体情况选择较小的切削参数。
- 订货示例：1 件 MSSB D200.B40.W28.Z12.15。
- Please use the coolant oil as far as possible.
- Insert with different materials should be ordered separately.
- Recommended cutting data please see page C31 页。
- Please choose the smaller cutting parameter when machining groove.
- Ordering sample: 1 PC MSSB D200.B40.W28.Z12.15.

备件 Spare parts	刀座型号 Designation	刀片型号 Insert	刀片螺钉 Clamping screw for insert	刀锁紧扳手 Allen key for clamping screw
刀座 Cartridge	MSR/L 902	AP..1604..	SR20 M4x11.5	KEY02 T15
刀座 Cartridge	MSR/L 905	AD..1505..	SR20 M4x11.5	KEY02 T15
锁紧楔块 Lock wedge	XKM6-01	-	-	-
锁紧螺栓 Lock bolt	SR58 M6x21	-	-	KEY01 M3

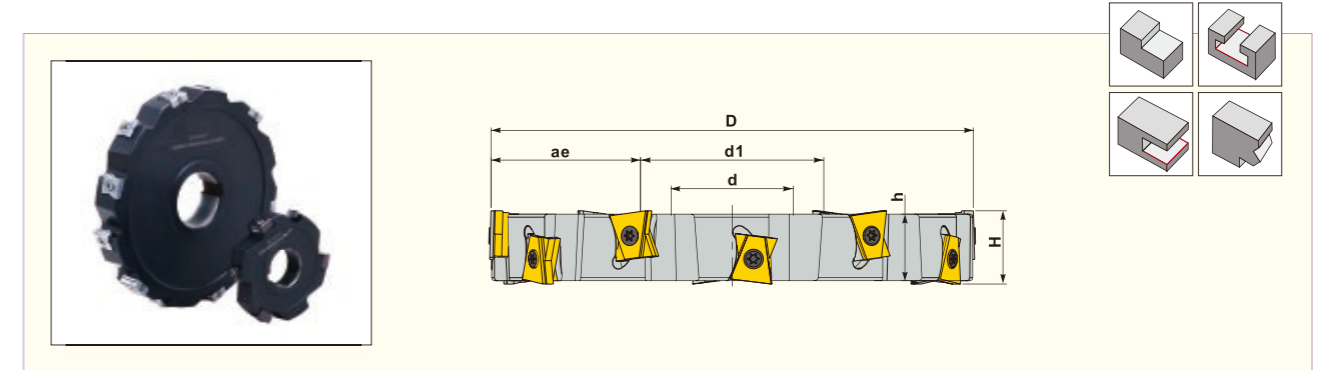
图例 Diagram	刀片型号 Insert	尺寸 Size				加工类型 Machine type	适配加工材质 Material				切削参数推荐 Cutting parameter		
		r	F	I			P	M	K	N	S	H	ap(mm)
	APKT 1604TR-R4P 2235	0.8	1.8	17.3		重型 Heavy duty	●	●				6.00-14	0.1-0.2
	APKT 1604TL-M8P 2125 ⁽¹⁾	0.8	1.7	17.7		中型 Medium duty	●	●	●			6.00-14	0.08-0.15
	APKT 1604TR-M8K 2215	0.8	1.7	17.92		中型 Medium duty	●					6.00-14	0.08-0.15
	HM90 ADKT 1505TR-M8K 2215	0.8	2.16	16.18		中型 Medium duty		●				5.0-12.0	0.08-0.15
	HM90 ADKT 1505TR-M8P 2235	0.8	2.16	16.18		中型 Medium duty	●	●				5.0-12.0	0.08-0.15
	ADKT 1505TL-M8P 2125 ⁽¹⁾	0.8	1.6	15.7		中型 Medium duty	●	●	●			5.0-12.0	0.07-0.15

- (1) 左手刀片
- Insert for left hand use the coolant oil as far as possible.

SIDE AND FACE MILLING CUTTER 三面刃铣刀

LN11 三面刃铣刀

LN11 Side and Face Milling Cutter



规格型号 Designation	D	H	ae	d	d1	h	Z	Kg	刀片型号 Insert	在庫 Stock
MSSB D080.B27.H18.Z06.LN11	80	18	20	27	40	16	2x3	0.75	LN..1106..	●
MSSB D100.B27.H18.Z08.LN11	100	18	30	27	40	16	2x4	1.13	LN..1106..	●
MSSB D125.B32.H18.Z10.LN11	125	18	39	32	46	16	2x5	1.67	LN..1106..	●
MSSB D160.B40.H18.Z12.LN11	160	18	50	40	60	16	2x6	2.82	LN..1106..	●
MSSB D200.B50.H18.Z14.LN11	200	18	55	50	90	16	2x7	4.50	LN..1106..	●

- 适配刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C31 页。
- 订货示例：1 件 MSSB D080.B27.H18.Z06.LN11。
- Insert with different materials should be ordered separately.
- Recommended cutting data please see page C31.
- Ordering sample: 1 PC MSSB D080.B27.H18.Z06.LN11.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping screw
LN..1106..	SR20 M3.5x11.5	KEY02 T10

图例 Diagram	刀片型号 Insert	尺寸 Size				加工类型 Machine type	适配加工材质 Material				切削参数推荐 Cutting parameter		
		W	I	S	r		P	M	K	N	S	H	ap(mm)
	LNKX 1106T-R4P 2230	6	11.16	11	0.8	重型 Heavy duty	●	●				1.5-5.0	0.17-0.25
	LNKX 1106T-R4K 2215	6	11.16	11	0.8	中型 Medium duty		●				1.5-5.0	0.15-0.20
	LNAR 1106F-M8N 2020	6	11.16	11	0.8	轻型 Light duty			●			1.5-5.0	0.15-0.20
	LNHT 1106TR-M8K 2215 ⁽²⁾	5.97	11.16	11	0.8	中型 Medium duty		●				2-10 ⁽¹⁾	0.15-0.25
	LNHT 1106TR-M8P 2235 ⁽²⁾	5.97	11.16	11	0.8	中型 Medium duty	●	●				2-10 ⁽¹⁾	0.15-0.25
	LNHT 1106T-M8K 2215 ⁽³⁾	5.97	11.16	11	0.8	中型 Medium duty		●				2-10 ⁽¹⁾	0.15-0.25
	LNHT 1106T-M8P 2235 ⁽³⁾	5.97	11.16	11	0.8	中型 Medium duty	●	●				2-10 ⁽¹⁾	0.15-0.25

- (1) 加工钢材时，最大切深 8mm，加工铸铁时，最大切深 10mm。
- (2) 刀片有 4 个右手切削刃。
- (3) 刀片有两个右手切削刃，两个左手切削刃。
- (1) Maximum cutting depth is 8mm for steel and 10mm for cast iron.
- (2) There are 4 right hand cutting edges.
- (3) There are 2 right hand cutting edges and 2 left hand cutting edges.

● 标准库存
Item in stock

● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Item on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

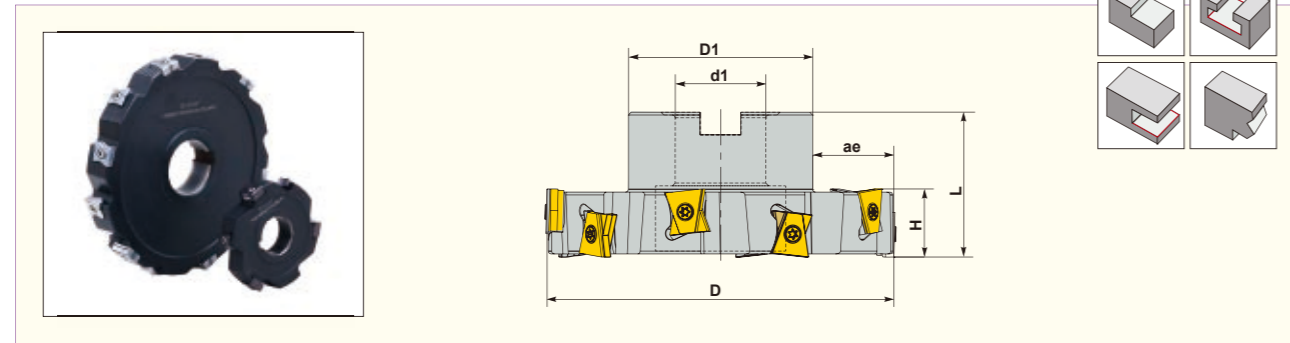
● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

SIDE AND FACE MILLING CUTTER 三面刃铣刀

LN11 三面刃铣刀

LN11 Side and Face Milling Cutter



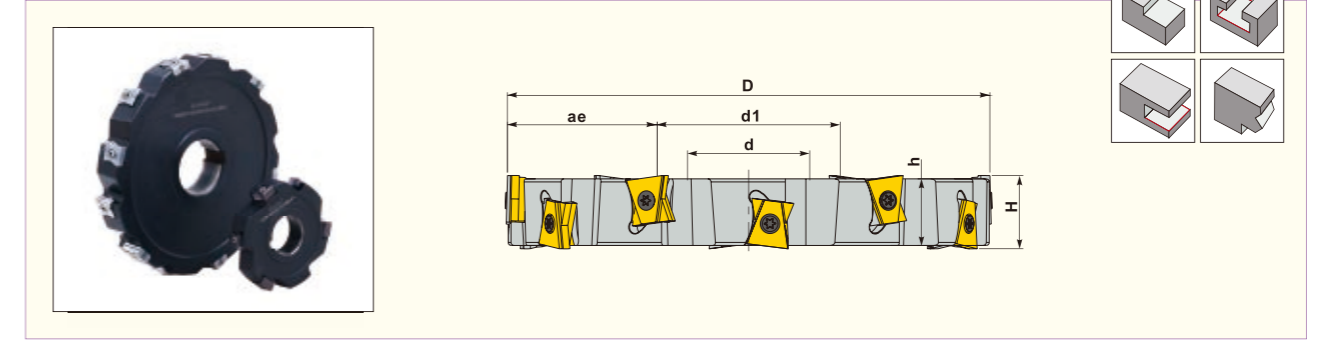
规格型号 Designation	D	D1	d1	H	L	ae	Z	Kg	刀片型号 Insert	在库 Stock
MSSB D080.SEM22.H18.Z06.LN11	80	48	22	18	50	16	2x3	0.89	LN..1106..	●
MSSB D100.SEM22.H18.Z08.LN11	100	48	22	18	50	26	2x4	1.88	LN..1106..	●
MSSB D125.SEM27.H18.Z10.LN11	125	60	27	18	63	32	2x5	2.22	LN..1106..	●
MSSB D160.SEM32.H18.Z12.LN11	160	78	32	18	63	41	2x6	3.82	LN..1106..	●
MSSB D200.SEM40.H18.Z14.LN11	200	89	40	18	63	55	2x7	5.83	LN..1106..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C31 页。
- 订货示例：1 件 MSSB D080.SEM22.H24.Z06.LN11。
- Insert should be ordered separately.
- Recommended cutting data please see page C31.
- Ordering sample: 1 PC MSSB D080.SEM22.H24.Z06.LN11.

SIDE AND FACE MILLING CUTTER 三面刃铣刀

LN15 三面刃铣刀

LN15 Side and Face Milling Cutter



规格型号 Designation	D	H	ae	d	d1	h	Z	Kg	刀片型号 Insert	在库 Stock
MSSB D080.B27.H24.Z06.LN15	80	24	20	27	40	21.8	2x3	0.64	LN..1506..	●
MSSB D100.B27.H24.Z08.LN15	100	24	30	27	40	21.8	2x4	1.03	LN..1506..	●
MSSB D125.B32.H24.Z10.LN15	125	24	39	32	46	21.8	2x5	1.57	LN..1506..	●
MSSB D160.B40.H24.Z12.LN15	160	24	50	40	60	21.8	2x6	2.72	LN..1506..	●
MSSB D200.B50.H24.Z14.LN15	200	24	55	50	90	21.8	2x7	4.32	LN..1506..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C31 页。
- 订货示例：1 件 MSSB D080.B27.H24.Z06.LN15。
- Insert with different materials should be ordered separately.
- Recommended cutting data please see page C31.
- Ordering sample: 1 PC MSSB D080.B27.H24.Z06.LN15.

备件

Spare Parts



刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping screw
LN..1106..	SR20 M3.5x11.5	KEY02 T10

备件

Spare Parts



刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping screw
LN..1506..	SR20 M4x11.5	KEY02 T15

图例 Diagram	刀片型号 Insert	尺寸 Size				加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter		
		W	I	S	r		P	M	K	N	S	H	ap(mm)	fz(mm/z)
	LNKX 1106T-R4P 2230	6	11.16	11	0.8	重型 Heavy duty	●	●					1.5-5.0	0.17-0.25
	LNKX 1106T-R4K 2215	6	11.16	11	0.8	中型 Medium duty			●				1.5-5.0	0.15-0.20
	LNAR 1106F-M8N 2020	6	11.16	11	0.8	轻型 Light duty				●			1.5-5.0	0.15-0.20
	LNHT 1106TR-M8K 2215 ⁽²⁾	5.97	11.16	11	0.8	中型 Medium duty			●				2-10 ⁽¹⁾	0.15-0.25
	LNHT 1106TR-M8P 2235 ⁽²⁾	5.97	11.16	11	0.8	中型 Medium duty	●	●					2-10 ⁽¹⁾	0.15-0.25
	LNHT 1106T-M8K 2215 ⁽³⁾	5.97	11.16	11	0.8	中型 Medium duty			●				2-10 ⁽¹⁾	0.15-0.25
	LNHT 1106T-M8P 2235 ⁽³⁾	5.97	11.16	11	0.8	中型 Medium duty	●	●					2-10 ⁽¹⁾	0.15-0.25

- (1) 加工钢材时，最大切深 8mm，加工铸铁时，最大切深 10mm
- (2) 刀片有 4 个右手切削刃
- (3) 刀片有两个右手切削刃，两个左手切削刃

- (1) Maximum cutting depth is 8mm for steel and 10mm for cast iron.
- (2) There are 4 right hand cutting edges.
- (3) There are 2 right hand cutting edges and 2 left hand cutting edges.

图例 Diagram	刀片型号 Insert	尺寸 Size				加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter		
		W	I	S	r		P	M	K	N	S	H	ap(mm)	fz(mm/z)
	LNKX 1506T-M8K 2215	6	15	13.9	0.8	中型 Medium duty			●				2.0-7.0	0.20-0.30
	LNKX 1506T-R4P 2235	6	15	13.9	0.8	重型 Heavy duty	●	●					2.0-7.0	0.30-0.40
	LNAR 1506F-M8N 2020	6	15	13.9	0.8	轻型 Light duty				●			2.0-7.0	0.10-0.15
	LNMT 1506TR-M8K 2215 ⁽²⁾	6	15	13.9	0.8	中型 Medium duty			●				3-12 ⁽¹⁾	0.15-0.25
	LNMT 1506TR-M8P 2235 ⁽²⁾	6	15	13.9	0.8	中型 Medium duty	●	●					3-12 ⁽¹⁾	0.15-0.25
	LNMT 1506T-M8K 2215 ⁽³⁾	6	15	13.9	0.8	中型 Medium duty			●				3-12 ⁽¹⁾	0.15-0.25

- (1) 加工钢材时，最大切深 8mm，加工铸铁时，最大切深 10mm
- (2) 刀片有 4 个右手切削刃
- (3) 刀片有两个右手切削刃，两个左手切削刃

- (1) Maximum cutting depth is 8mm for steel and 10mm for cast iron.
- (2) There are 4 right hand cutting edges.
- (3) There are 2 right hand cutting edges and 2 left hand cutting edges.

● 标准库存
Item in stock

● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Item on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

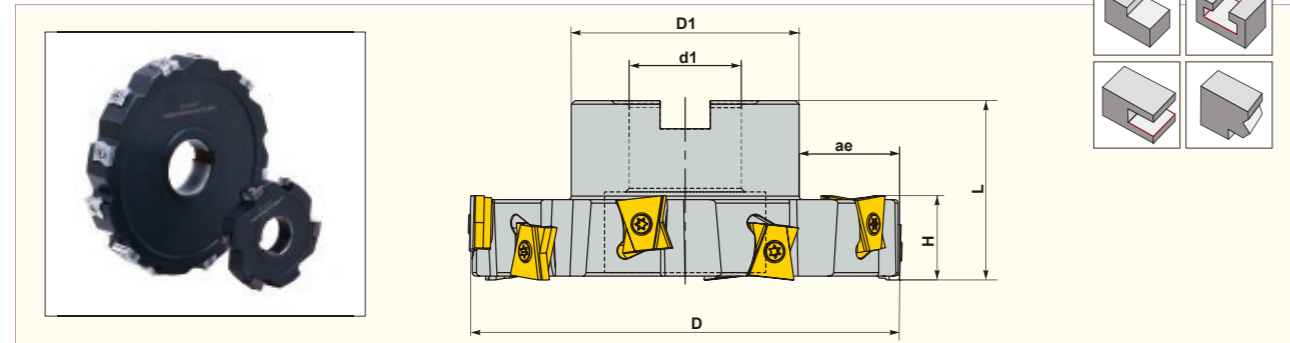
● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

SIDE AND FACE MILLING CUTTER 三面刃铣刀

LN15 三面刃铣刀

LN15 Side and Face Milling Cutter



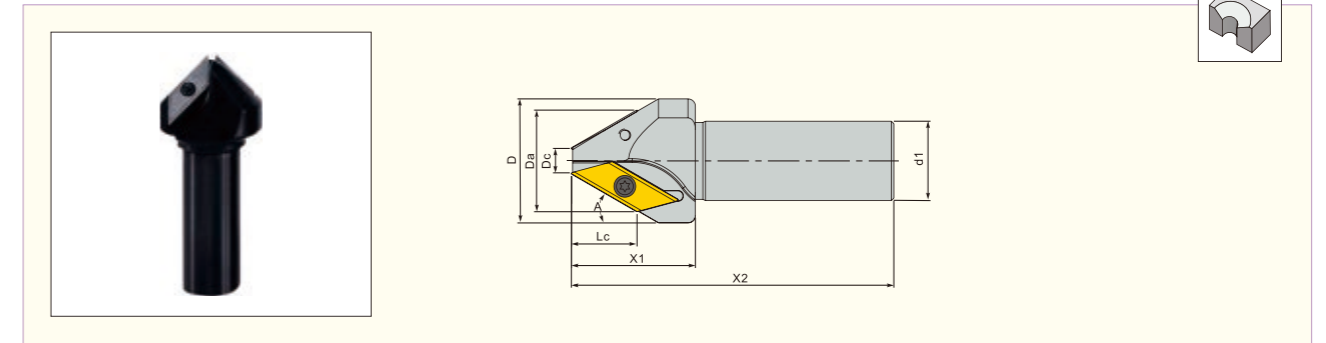
规格型号 Designation	D	D1	d1	H	L	ae	Z	Kg	刀片型号 Insert	在库 Stock
MSSB D080.SEM22.H24.Z06.LN15	80	48	22	24	50	16	2x3	0.79	LN..1506..	●
MSSB D100.SEM22.H24.Z08.LN15	100	48	22	24	50	26	2x4	1.78	LN..1506..	●
MSSB D125.SEM27.H24.Z10.LN15	125	60	27	24	63	32	2x5	2.12	LN..1506..	●
MSSB D160.SEM32.H24.Z12.LN15	160	78	32	24	63	41	2x6	3.72	LN..1506..	●
MSSB D200.SEM40.H24.Z14.LN15	200	89	40	24	63	55	2x7	5.65	LN..1506..	●

- 刀片请根据不同材料单独订购。
- 订货示例：1 件 MSSB D080.SEM22.H24.Z06.LN15。
- Insert should be ordered separately.
- Ordering sample: 1 PC MSSB D080.SEM22.H24.Z06.LN15.

CHAMFERING MILLING CUTTER 可转位倒角刀

长刃倒角刀

Chamfering Cutter with Long Cutting Edge



规格型号 Designation	A	Da	Dc	D	d1	X1	X2	Lc	刀片数 Z	Kg	刀片型号 Insert	在库 Stock
ME30XE D034.W32.Z01.31.130	30°	34	5	40	32	50	130	25.5	1	0.68	XCET 2204..	●
ME45XE D046.W32.Z02.31.130	45°	46	5	56	32	50	130	20.5	2	0.72	XCET 2204..	●
ME60XE D055.W32.Z02.31.130	60°	55	5	72	32	50	130	14.5	2	0.75	XCET 2204..	●

- 刀片请根据不同材料单独订购。
- 订货示例：1 件 ME30XE D034.W32.Z01.31.130。
- Insert should be ordered separately.
- Ordering sample: 1 PC ME30XE D034.W32.Z01.31.130.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping screw
LN..1506..	SR20 M4x11.5	KEY02 T15

图例 Diagram	刀片型号 Insert	尺寸 Size				加工类型 Machine type	适配加工材质 Material		切削参数推荐 Cutting parameter		
		W	l	S	r		P	M	K	N	S
	LNKX 1506T-M8K 2215	6	15	13.9	0.8	中型 Medium duty	●		2.0-7.0	0.2-0.3	
	LNKX 1506T-R4P 2235	6	15	13.9	0.8	重型 Heavy duty	●	●	2.0-7.0	0.3-0.4	
	LNAR 1506F-M8N 2020	6	15	13.9	0.8	轻型 Light duty	●		2.0-7.0	0.1-0.15	

图例 Diagram	刀片型号 Insert	尺寸 Size				加工类型 Machine type	适配加工材质 Material		切削参数推荐 Cutting parameter		
		W	l	S	r		P	M	K	N	S
	LNMT 1506TR-M8K 2215 ⁽²⁾	6	15	13.9	0.8	中型 Medium duty	●		3-12 ⁽¹⁾	0.15-0.25	
	LNMT 1506TR-M8P 2235 ⁽²⁾	6	15	13.9	0.8	中型 Medium duty	●	●	3-12 ⁽¹⁾	0.15-0.25	
	LNMT 1506T-M8K 2215 ⁽³⁾	6	15	13.9	0.8	中型 Medium duty	●		3-12 ⁽¹⁾	0.15-0.25	

- (1) 加工钢材时，最大切深 8mm，加工铸铁时，最大切深 10mm
- (2) 刀片有 4 个右手切削刃
- (3) 刀片有两个右手切削刃，两个左手切削刃
- (1) Maximum cutting depth is 8mm for steel and 10mm for cast iron.
- (2) There are 4 right hand cutting edges.
- (3) There are 2 right hand cutting edges and 2 left hand cutting edges.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping screw
XCET 2204..	SR21 M5x12.8	KEY02 T20

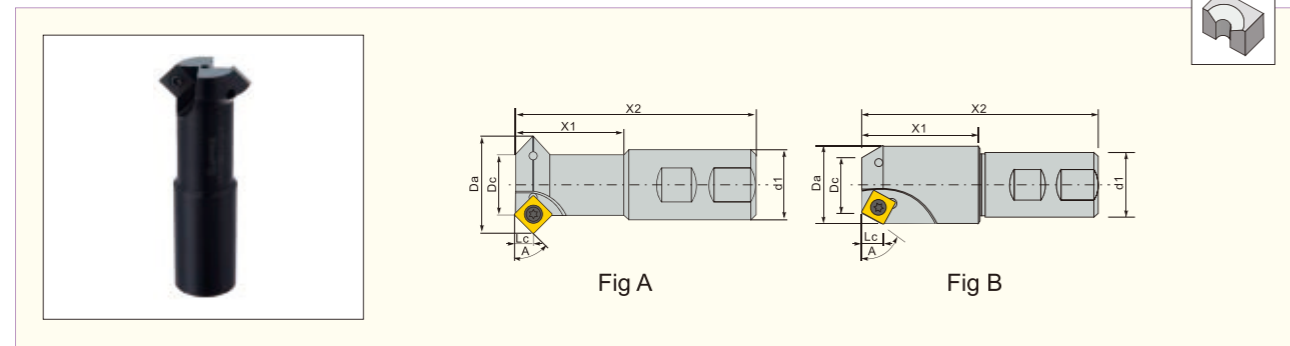
图例 Diagram	刀片型号 Insert	尺寸 Size				加工类型 Machine type	适配加工材质 Material		切削参数推荐 Cutting parameter						
		l	s	r	P		M	K	N	S	H	ap(mm)	fz(mm/z)		
	XCET 220404T-M8G 2230	22	4.5	0.4		中型 Medium duty	●	●	●	●	●	●	●	2.00-20.0	0.12-0.15

- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

CHAMFERING MILLING CUTTER 可转位倒角刀

杆式倒角刀

Chamfer Cutter with Cylindrical Shank



规格型号 Designation	A	Dc	Da	d1	X1	X2	Lc	刀片数 Z	Fig	Kg	刀片型号 Insert	在库 Stock
ME30SC D012.W16.Z01.12.100	30°	12	32	16	50	98	7	1	B	0.17	SC..1204..	●
ME30SC D028.W32.Z02.12.120	30°	28	48	32	60	120	7	2	B	0.70	SC..1204..	●
ME45SD D006.W16.Z01.09.90	45°	6	16	16	40	90	6	1	B	0.12	SD..0903..	●
ME45SD D012.W16.Z01.09.100	45°	12	23	16	52	100	6	1	A	0.12	SD..0903..	●
ME45SD D020.W20.Z02.09.100	45°	20	31	20	50	100	6	2	A	0.23	SD..0903..	●
ME45SC D028.W32.Z02.12.120	45°	28	44	32	60	120	7	2	A	0.64	SC..1204..	●
ME60SC D012.W16.Z01.12.100	60°	11	22	16	52	100	9	1	B	0.18	SC..1204..	●
ME60SC D020.W20.Z01.12.100	60°	20	31	20	50	100	9	1	B	0.32	SC..1204..	●
ME60SC D028.W32.Z02.12.120	60°	28	39	32	60	120	9	2	B	0.77	SC..1204..	●

- 刀片请根据不同材料单独订购。
- 订货示例：1 件 ME30SC D012.W16.Z01.12.100。
- Insert should be ordered separately.
- Ordering sample: 1 PC ME30SC D012.W16.Z01.12.100.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for claming screw
SC..1204..	SR21 M5x12.8	KEY02 T20
SD..0903..	SR20 M4x7.8	KEY02 T15

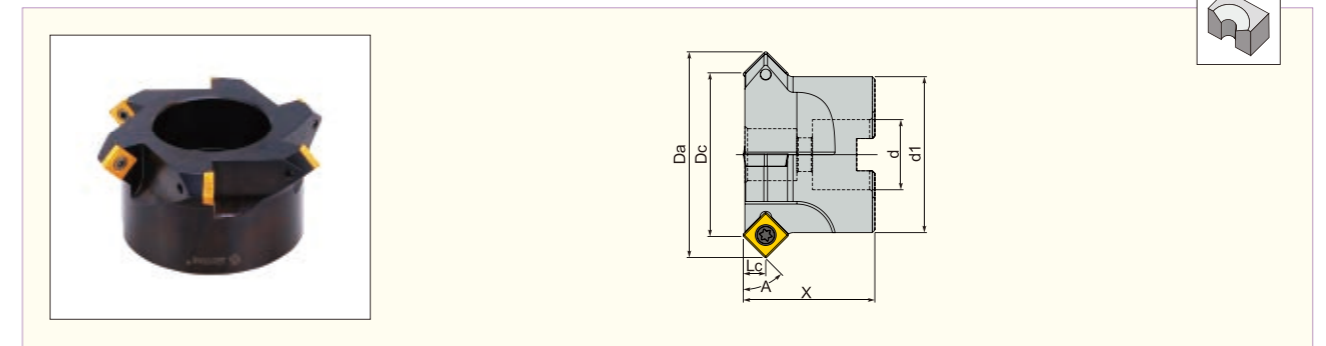
图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material	切削参数推荐 Cutting parameter		
		l	s	d			ap(mm)	fz(mm/z)	
	SDMT 0903T-M8N 2020	5.6	3.18	9.53	中型 Medium duty	●	5.0-12.0	0.08-0.15	
	SDMT 0903T-M8P 2125	5.6	3.18	9.53	中型 Medium duty	● ● ●	5.0-12.0	0.08-0.15	

图例 Diagram	刀片型号 Insert	尺寸 Size				适配加工材质 Material	切削参数推荐 Cutting parameter		
		l	r	s	d1		VC(m/min)	ap(mm)	f(mm/rev)
	SCMT 120408-M2P 1115	12.7	0.8	4.76	5.5	●	200-300	0.5-2.5	0.1-0.30
	SCMT 120408-M2M 2210	12.7	0.8	4.76	5.5	●	200-300	0.5-2.5	0.1-0.30
	SCMT 120408-M2K 1115	12.7	0.8	4.76	5.5	●	200-300	0.5-2.5	0.1-0.30
	SCGT 120408-F9N 2020	12.7	0.8	4.76	5.5	●	200-300	0.5-3.0	0.15-0.30

CHAMFERING MILLING CUTTER 可转位倒角刀

盘式倒角刀

Face Chamfering Cutter



规格型号 Designation	A	Dc	Da	d	d1	X	Lc	刀片数 Z	Kg	刀片型号 Insert	在库 Stock
MF45SC D040.B16.Z03.12.40	45°	40	56	16	38	40	7	3	0.26	SC..1204..	●
MF45SC D050.B22.Z04.12.40	45°	50	66	22	48	40	7	4	0.37	SC..1204..	●
MF45SC D063.B27.Z04.12.50	45°	63	79	27	60	50	7	4	0.75	SC..1204..	●
MF45SC D080.B32.Z05.12.50	45°	80	96	32	78	50	7	5	1.17	SC..1204..	●
MF45SC D100.B40.Z06.12.60	45°	100	116	40	89	60	7	6	1.93	SC..1204..	●

- 刀片请根据不同材料单独订购。
- 订货示例：1 件 MF45SC D040.B16.Z03.12.40。
- Insert should be ordered separately.
- Ordering sample: 1 PC MF45SC D040.B16.Z03.12.40.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for claming screw
SC..1204..	SR21 M5x12.8	KEY02 T20

图例 Diagram	刀片型号 Insert	尺寸 Size				适配加工材质 Material	切削参数推荐 Cutting parameter		
		l	r	s	d1		VC(m/min)	ap(mm)	f(mm/rev)
	SCMT 120408-M2P 1115	12.7	0.8	4.76	5.5	●	200-300	0.5-2.5	0.1-0.30
	SCMT 120408-M2M 2210	12.7	0.8	4.76	5.5	●	200-300	0.5-2.5	0.1-0.30
	SCMT 120408-M2K 1115	12.7	0.8	4.76	5.5	●	200-300	0.5-2.5	0.1-0.30
	SCGT 120408-F9N 2020	12.7	0.8	4.76	5.5	●	200-300	0.5-3.0	0.15-0.30

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

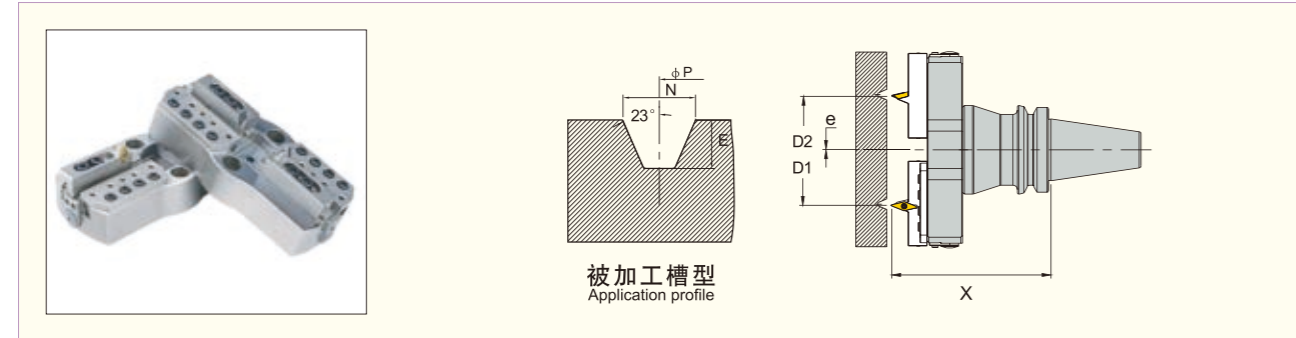
API RING GROOVING CUTTER 可调式端面槽铣刀

可调式端面槽铣刀

API Ring Grooving Cutter

松德可调式端面槽刀吸取国外端面槽刀优点, 并结合实际加工工艺需要, 设计的一款可内、外径进行粗调及精调合二为一的端面槽铣刀。操作简单, 实用性强, 两处微调机构, 微调精度每格直径 0.01mm, 使用范围广等特点, 需配内、外径刀座。

For API ring groove machining both rough and finish. Inside cartridge and outside cartridge can be adjusted separately with 0.01mm on diameter per scale, wide diameter range, high accuracy and easy operating.



规格型号 Designation	槽型 P 值范围 P value	X	E	适配内径刀座 ID cartridge	适配外径刀座 OD cartridge	Kg	在庫 Stock
BT40 MSD215x100	45-114	140	<18	L23N P43-112.H18.VC16	L23W P47-116.H18.VC16	8.21	●
BT40 MSD215x100	106-138	140	<18	L23N P104-136.H18.VC16	L23W P108-140.H18.VC16	8.21	●
BT40 MSD215x100	129-227	140	<18	L23N P127-225.H18.VC16	L23W P131-229.H18.VC16	8.21	●
BT50 MSD215x140	45-114	180	<18	L23N P43-112.H18.VC16	L23W P47-116.H18.VC16	12.61	●
BT50 MSD215x140	106-138	180	<18	L23N P104-136.H18.VC16	L23W P108-140.H18.VC16	12.61	●
BT50 MSD215x140	129-227	180	<18	L23N P127-225.H18.VC16	L23W P131-229.H18.VC16	12.61	●
DIN69871 50 MSD215x140	45-114	180	<18	L23N P43-112.H18.VC16	L23W P47-116.H18.VC16	12.31	●
DIN69871 50 MSD215x140	106-138	180	<18	L23N P104-136.H18.VC16	L23W P108-140.H18.VC16	12.31	●
DIN69871 50 MSD215x140	129-227	180	<18	L23N P127-225.H18.VC16	L23W P131-229.H18.VC16	12.31	●

- 适配刀座需单独订购, 请参照: C28 页。
- 如没有匹配的刀体, 需提供机床对应的刀柄大小非标定制刀体。
- 订货示例: 1 件 BT50 MSD215x140.
- The suitable cartridge should be ordered separately, please see page C28.
- If you want main body with other sizes, please advise the specification of machine tool so that we could manufacture the customer designed tools.
- Ordering sample: 1 PC BT50 MSD215x140.

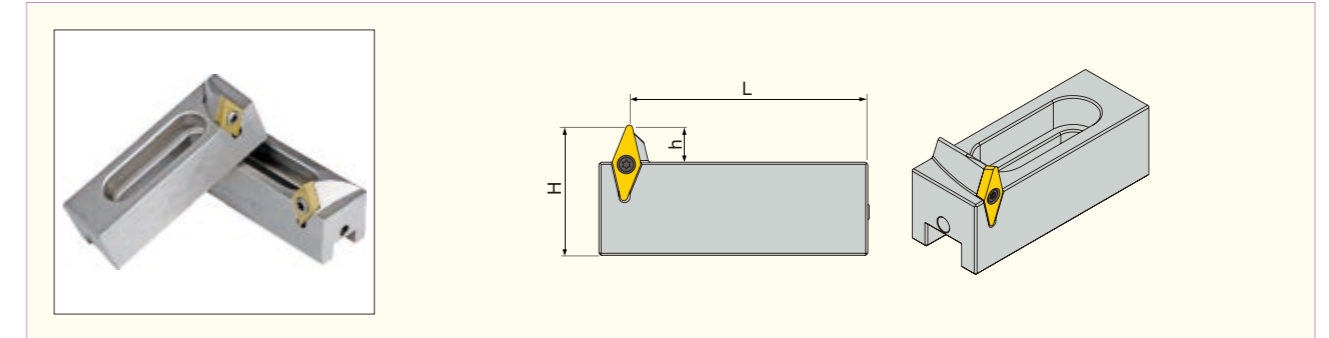
API RING GROOVING CUTTER 可调式端面槽铣刀

可调式端面槽铣刀刀座

The Cartridges for Adjustable API Ring Groover

适配可调式端面槽刀刀体任意规格, 安装方便, 调整自如、稳定, 内外径刀座一一对应。

It is suitable for any size of main body, and it can be assembled freely and stably. The ID and OD are one-to-one correspondence and with different inserts.



刀座型号 Designation	L	H	h	刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping screw	Kg	在庫 Stock
L23N P43-112.H18.VC16	65.5	40	18.5	VCMT 160408	SR21 M4x11	KEY02 T15	0.19	●
L23N P104-136.H18.VC16	48	40	18.5	VCMT 160408	SR21 M4x11	KEY02 T15	0.26	●
L23N P127-225.H18.VC16	62.5	40	18.5	VCMT 160408	SR21 M4x11	KEY02 T15	0.20	●
L23W P47-116.H18.VC16	63.5	40	18.5	VCMT 160408	SR21 M4x11	KEY02 T15	0.19	●
L23W P108-140.H18.VC16	46	40	18.5	VCMT 160408	SR21 M4x11	KEY02 T15	0.26	●
L23W P131-229.H18.VC16	64.5	40	18.5	VCMT 160408	SR21 M4x11	KEY02 T15	0.20	●

- 刀片请根据不同材料单独订购。
- 订货示例: 1 件 L23N P43-112.H18.VC16.
- Insert with different materials should be ordered separately.
- Ordering sample: 1 PC L23N P43-112.H18.VC16.

图例 Diagram	刀片型号 Insert	尺寸 Size				适配加工材质 Material						切削参数推荐 Cutting parameter		
		l	d	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
	VCMT 160408-M2P 2125	16.6	9.525	4.76	0.8	●						120-280	1.00-3.50	0.15-0.40
	VCMT 160408-M2M 1225	16.6	9.525	4.76	0.8		●					80-180	0.50-2.50	0.08-0.30
	VCMT 160408-M2K 1115	16.6	9.525	4.76	0.8			●				150-350	0.50-2.50	0.08-0.30

API RING GROOVING CUTTER 可调式端面槽铣刀

简易可调式槽铣刀刀座

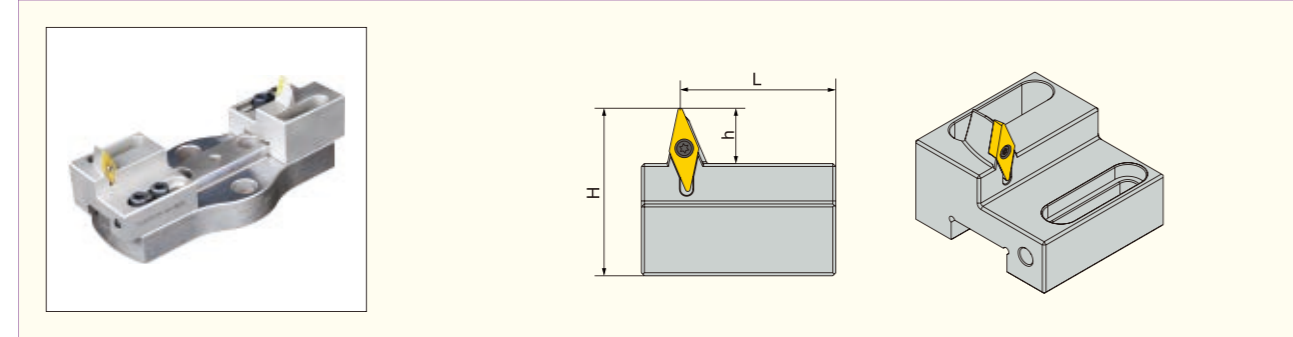
Simple Adjustable Cartridge

适配粗镗刀体及桥式刀体上，安装方便。

刀座可进行粗调整，操作简单，实用性强，内外径刀座一一对应

It is suitable for large diameter rough boring tool body, which is easy to be assembled.

It can be rough adjusted and easy to be operated. The 10 and 00 are one-to-one correspondence.



刀座型号 Designation	L	H	h	刀片型号 Insert	Kg	P 值范围 P value	适配刀体 Main body	在库 Stock
R23N P45-65.H18.VC16	46.5	40	18.5	VCMT 160408	0.17	45-60	BR D070-090.E63.75	☐
R23W P45-65.H18.VC16								
R23N P56-108.H18.VC16								
R23W P56-108.H18.VC16	28	56	18.5	VCMT 160408	0.69	60-108	SNL 150-210..	☐
R23N P104-156.H18.VC16								
R23W P104-156.H18.VC16	52	56	18.5	VCMT 160408	0.69	104-155	SNL 150-210..	☐
R23N P56-108.H18.VC16								
R23W P56-108.H18.VC16								
R23N P104-156.H18.VC16	28	56	18.5	VCMT 160408	0.69	155-175	SNL 210-290	☐
R23W P56-108.H18.VC16								
R23N P104-156.H18.VC16	52	56	18.5	VCMT 160408	0.69	175-220	SNL 210-290	☐
R23W P104-156.H18.VC16								

- 刀片请根据不同材料单独订购。
- 订货示例：1 件 R23N P45-65.H18.VC16。
- Insert should be ordered separately.
- Ordering sample: 1 PC R23N P45-65.H18.VC16.

备件

Spare Parts



刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping screw
VCMT 160408	SR21 M4x11	KEY02 T15

图例 Diagram	刀片型号 Insert	尺寸 Size				适配加工材质 Material					切削参数推荐 Cutting parameter			
		l	d	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
	VCMT 160408-M2P 2125	16.6	9.525	4.76	0.8	●						120-280	1.00-3.50	0.15-0.40
	VCMT 160408-M2M 1225	16.6	9.525	4.76	0.8	●						80-180	0.50-2.50	0.08-0.30
	VCMT 160408-M2K 1115	16.6	9.525	4.76	0.8	●						150-350	0.50-2.50	0.08-0.30

● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

API RING GROOVING CUTTER 可调式端面槽铣刀

可调端面槽铣刀使用说明

The Instruction Manual for API Ring Groover

微调端面槽刀组成部分

Components of the API Ring Groover

- 刀体包括刀柄、刀桥及两端微调机构
- 外径刀座
- 内径刀座

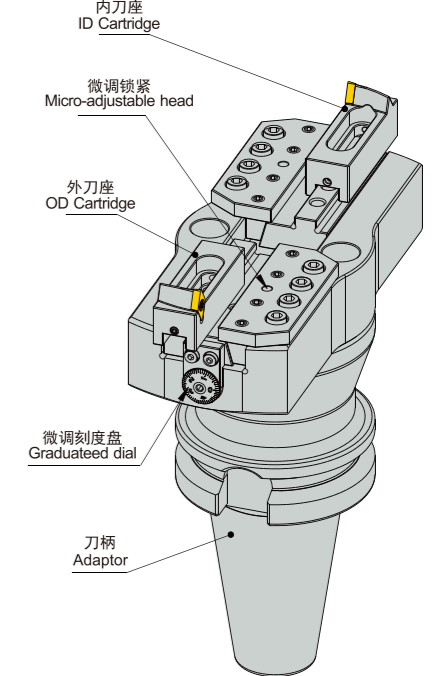
- The main body includes tool holder, connection, and the two micro-adjustable head
- OD cartridge
- ID cartridge correspondence.

特点:

- 适用于石油阀门类 API 标准的端面密封槽铣削加工;
- 解决了由传统工艺无法达到加工要求或不能加工密封槽等问题;
- 一把刀具配备不同的内外径刀座, 可覆盖 API 标准全系列槽的加工;
- 两端带有微调机构, 调整精度 0.01mm/格;
- 加工效率高, 加工稳定性好;

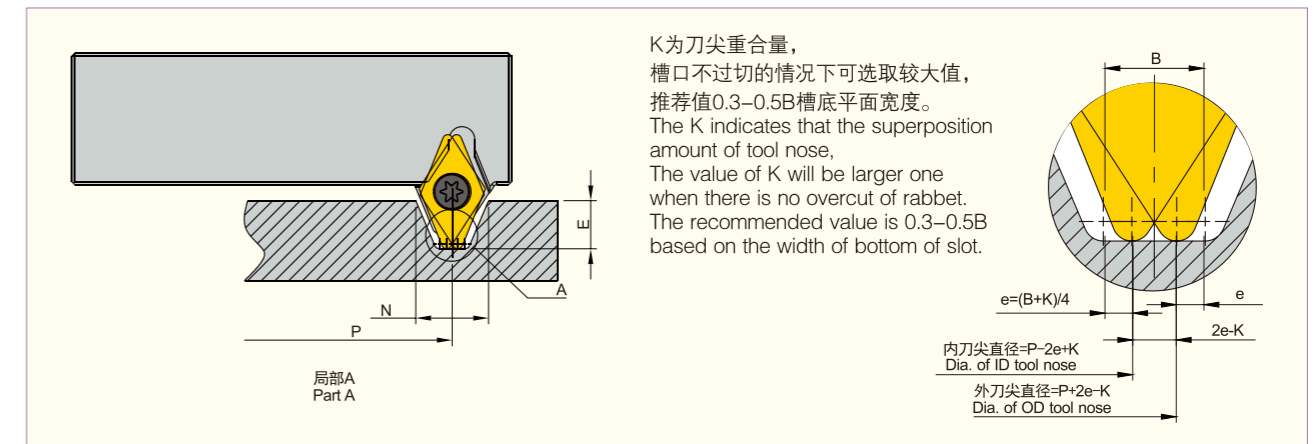
Features:

- It is suitable for machining the API ring groove.
- It can solve the polished problem of other brands API ring groover could not do.
- One tool body plus 3 sets ID & OD cartridges could machine all the grooves with API standard.
- It can be micro adjusted, and the dial each of which is 0.01 mm on diameter.
- Higher performance and higher stability.



刀具粗调整尺寸计算方法示意

The Diagram for Calculation Method of Rough Adjustable Dimension



加工方法

Processing Method

一般采用螺旋插补铣锥孔的方法, 最小插补半径按“e”编程, 半锥角按 23° 计算编程。

The general method is helix interpolation and milling for taper hole. The mini dia. of interpolation should be programmed as "e" and the half taper angle should be calculated as 23°

TECHNICAL INFORMATION 技术资料

铣削加工 Milling

规格型号 Designation	旧符号 Old symbol	新符号 New symbol	单位 Units
切削速度 Cutting speed	Vc	V	m/min
进给速度 Feed speed	Vf	F	mm/min
每齿进给量 Single edge feed	fz	f	mm/齿
进给量 Feeds	f	f	mm/rev
刃数 Tooth number	Z	Z	(枚)
轴方向切深 Axial cutting depth	ap	d	mm
半径方向切深 Radius cutting depth	ae	W	mm
大进给 Deep feed	Pf	Pf	mm
切削动力 Cutting power	Pc	PKw	KW
比较切削阻力 Comparative cutting resistance	Kc	Ks	MPa
切屑排出量 Chips	Q	Q	cm ³ /min
转速 Spindle speed	n	N	min ⁻¹

TECHNICAL INFORMATION 技术资料

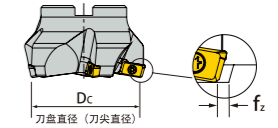
铣削加工 Milling

根据切削参数符号变更，依次有如下变更
Symbols of the cutting parameter were changed, see the following list

● 切削速度

$$Vc = \frac{\pi \times Dc \times n}{1,000}$$

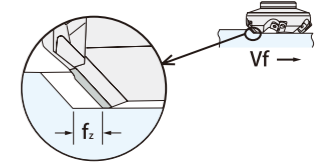
Vc : 切削速度 [m/min]
Dc : 刀盘直径 [mm]
n : 主轴转速 [min⁻¹]



● 工作台进给量与每齿进给量

$$fz = \frac{Vf}{Z \times n}$$

fz : 每齿进给量 (mm/齿)
Vf : 工作台进给速度 [mm/min]
Z : 刀盘刃数 [片]
n : 主轴转速 [min⁻¹]



● 所需动力

$$Pc = \frac{Ks \times Q}{6,120 \times \eta} = \frac{Ks \times ae \times Vf \times ap}{6,120,000 \times \eta}$$

$$= \frac{Ks \times ae \times fz \times Z \times n \times ap}{6,120,000 \times \eta}$$

$$P_{HP} = \frac{6,120}{4,500} \times Pc$$

Pc : 所需动力 [kW]
P_{HP} : 所需动力 (马力) [HP]
ae : 切削宽度 [mm]
Vf : 工作台进给速度 [mm/min]
fz : 每刀进给量 [mm/t]
Z : 刀盘刃数 [片]
n : 主轴转速 [min⁻¹]
ap : 切深 [mm]
Ks : 比切削阻力值 [kgf/mm²]
η : 机械效率 (0.7~0.8)
Q : 切屑排出量 [cm³/min=cc/min]

Ks的大概值	
软钢	190
中碳钢	210
高碳钢	240
低合金钢	190
高合金钢	245
铸铁	93
可锻铸铁	120
青铜 / 黄铜	70

● 切屑排出量

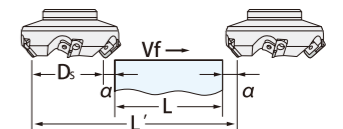
$$Q = \frac{ae \times Vf \times ap}{1,000} = \frac{ae \times fz \times Z \times n \times ap}{1,000}$$

Q : 切屑排出量 [cm³/min=cc/min]
ae : 切削宽度 [mm]
Vf : 工作台进给速度 [mm/min]
fz : 每刀进给量 [mm/t]
Z : 刀盘刃数 [片]
n : 主轴转速 [min⁻¹]
ap : 切深 [mm]

● 加工时间

$$T = \frac{60 \times L'}{Vf} = \frac{60 \times L'}{fz \times Z \times n}$$

T : 加工时间 [秒]
L' : 工作台的总进给长度 [mm]
(= L + Ds + 2α)
L : 被加工材料的长度 [mm]
Ds : 刀盘直径 [mm]
α : 多余距离 [mm]
Vf : 工作台进给速度 [mm/min]
fz : 每刀进给量 [mm/t]
Z : 刀盘刃数 [片]
n : 主轴转速 [min⁻¹]



MAS403 BT



D 刀柄系统 ADAPTORS

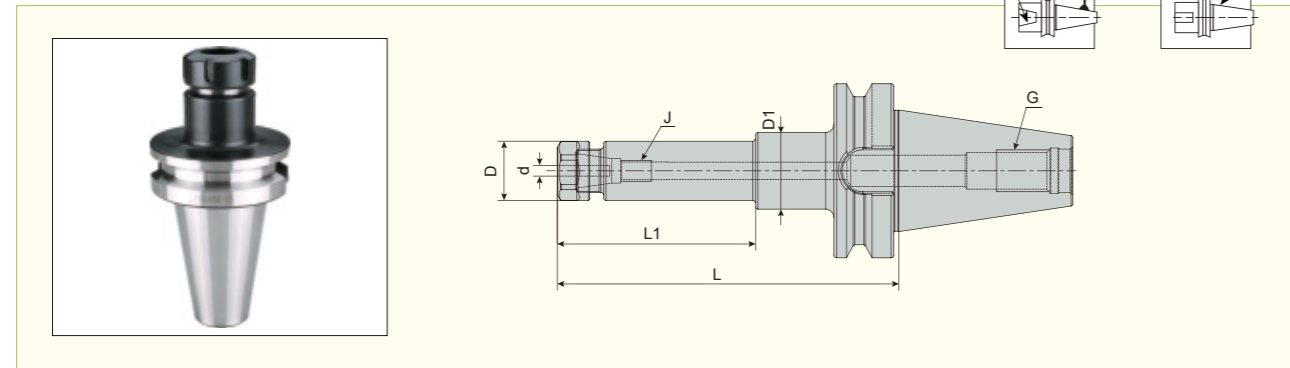
MAS403 BT

ER 筒夹刀柄	D3
ER Collet Chuck Adaptor	
高精度 ER 筒夹刀柄	D5
High Precision ER Collet Chuck Adaptor	
液压刀柄	D7
Hydraulic Chuck Adaptor	
强力铣夹头刀柄	D10
Power Chuck Adaptor	
侧固式刀柄 (DIN 1835-B)	D11
Weldon Adaptor	
2° 侧固式刀柄 (DIN 1835-E)	D12
2° Weldon Adaptor	
热缩刀柄	D13
Shrink Fit Adaptor	
攻丝刀柄	D15
Tapping Chuck Adaptor	
面铣刀刀柄	D16
Face Mill Adaptor	
侧铣刀刀柄	D17
Side Mill Adaptor	
带扁尾莫氏锥孔刀柄	D18
Morse Taper With Tang Adaptor	
无扁尾莫氏锥孔刀柄	D19
Morse Taper With Draw Thread Adaptor	
钻夹头刀柄	D20
Drill chuck adaptor	
可调刀柄	D20
Adjustable Adaptor	

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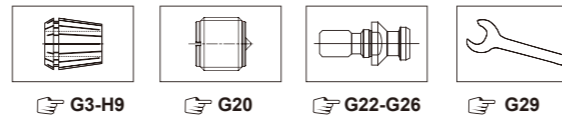
ER 筒夹刀柄

ER Collet Chuck Adaptor



规格型号 Designation	L	D	d	D1	L1	J	G	Kg	在库 Stock
BT30 ER16x70	70	28	0.5-10	-	-	M10	M12	0.55	●
BT30 ER16x100	100	28	0.5-10	-	-	M10	M12	0.71	●
BT30 ER20x70	70	34	1-13	-	-	M12	M12	0.63	●
BT30 ER20x100	100	34	1-13	-	-	M12	M12	0.83	●
BT30 ER25x60	60	42	1-16	-	-	M16	M12	0.64	●
BT30 ER25x100	100	42	1-16	-	-	M16	M12	1.06	●
BT30 ER32x60	60	50	2-20	-	-	M18x1.5	M12	0.70	●
BT30 ER32x100	100	50	2-20	-	-	M22x1.5	M12	1.05	●
BT40 ER16x70	70	28	0.5-10	-	-	M10	M16	1.12	●
BT40 ER16x100	100	28	0.5-10	-	-	M10	M16	1.27	●
BT40 ER16x150	150	28	0.5-10	40	85	M10	M16	1.64	●
BT40 ER16x200	200	28	0.5-10	40	110	M10	M16	1.98	●
BT40 ER20x70	70	34	1-13	-	-	M12	M16	1.17	●
BT40 ER20x100	100	34	1-13	-	-	M12	M16	1.35	●
BT40 ER20x120	120	34	1-13	-	-	M12	M16	1.47	●
BT40 ER20x150	150	34	1-13	-	-	M12	M16	1.66	●
BT40 ER25x60	60	42	1-16	-	-	M16	M16	1.17	●
BT40 ER25x100	100	42	1-16	-	-	M16	M16	1.56	●
BT40 ER25x150	150	42	1-16	-	-	M16	M16	1.96	●
BT40 ER32x60	60	50	2-20	-	-	M22x1.5	M16	1.20	●
BT40 ER32x100	100	50	2-20	-	-	M22x1.5	M16	1.75	●
BT40 ER32x120	120	50	2-20	-	-	M22x1.5	M16	2.04	●
BT40 ER32x150	150	50	2-20	-	-	M22x1.5	M16	2.48	●
BT40 ER32x200	200	50	2-20	57	113	M22x1.5	M16	3.45	●
BT40 ER40x80	80	63	3-26	-	-	M28x1.5	M16	1.60	●
BT40 ER40x100	100	63	3-26	-	-	M28x1.5	M16	1.88	●
BT40 ER40x150	150	63	3-26	-	-	M28x1.5	M16	3.20	●

- 刀柄若需数据芯片孔, 请在型号后加 ".X"
- 订货示例: 1 件 BT30 ER16x70
- If needing the hole for data chip, please add ".X" at the end of the designation
- Ordering sample: 1 PC BT30 ER16x70



备件

Spare Parts



规格型号 Designation	螺帽 ER NUT
ER16	NUT ER16
ER20	NUT ER20
ER25	NUT ER25
ER32	NUT ER32
ER40	NUT ER40

● 标准库存
Item in stock

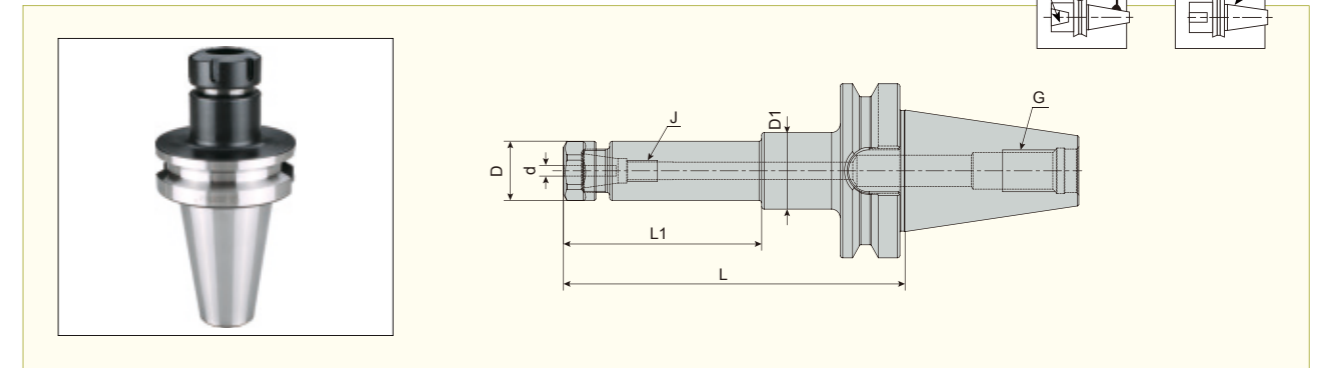
○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

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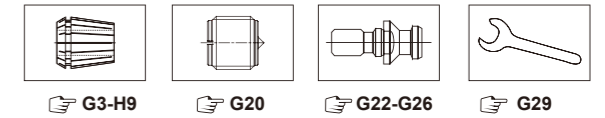
ER 筒夹刀柄

ER Collet Chuck Adaptor



规格型号 Designation	L	D	d	D1	L1	J	G	Kg	在库 Stock
BT50 ER16x100	100	28	0.5-10	-	-	M10	M24	3.82	●
BT50 ER16x125	125	28	0.5-10	-	-	M10	M24	4.07	●
BT50 ER16x150	150	28	0.5-10	-	-	M10	M24	4.08	●
BT50 ER16x200	200	28	0.5-10	40	85	M10	M24	4.57	●
BT50 ER20x100	100	34	1-13	-	-	M12	M24	3.83	●
BT50 ER20x125	125	34	1-13	-	-	M12	M24	3.99	●
BT50 ER20x150	150	34	1-13	-	-	M12	M24	4.15	●
BT50 ER20x200	200	34	1-13	50	85	M12	M24	4.69	●
BT50 ER25x100	100	42	1-16	-	-	M16	M24	4.07	●
BT50 ER25x150	150	42	1-16	-	-	M16	M24	4.56	●
BT50 ER25x200	200	42	1-16	55	87	M16	M24	5.63	●
BT50 ER32x100	100	50	2-20	-	-	M22x1.5	M24	4.20	●
BT50 ER32x125	125	50	2-20	-	-	M22x1.5	M24	4.60	●
BT50 ER32x150	150	50	2-20	-	-	M22x1.5	M24	4.87	●
BT50 ER32x200	200	50	2-20	63	88	M22x1.5	M24	6.20	●
BT50 ER40x100	100	63	3-26	-	-	M28x1.5	M24	4.48	●
BT50 ER40x150	150	63	3-26	-	-	M28x1.5	M24	5.57	●
BT50 ER40x200	200	63	3-26	-	-	M28x1.5	M24	6.67	●

- 刀柄若需数据芯片孔, 请在型号后加 ".X"
- 订货示例: 1 件 BT50 ER16x100
- If needing the hole for data chip, please add ".X" at the end of the designation
- Ordering sample: 1 PC BT50 ER16x100



备件

Spare Parts



规格型号 Designation	螺帽 ER NUT
ER16	NUT ER16
ER20	NUT ER20
ER25	NUT ER25
ER32	NUT ER32
ER40	NUT ER40

● 标准库存
Item in stock

○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

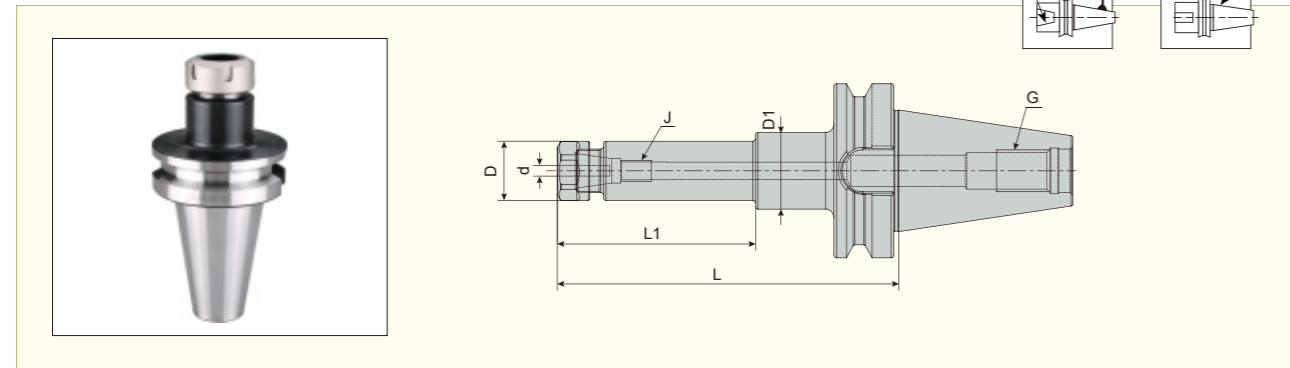
刀柄系统
ADAPTORS

刀柄系统
ADAPTORS

MAS403 BT

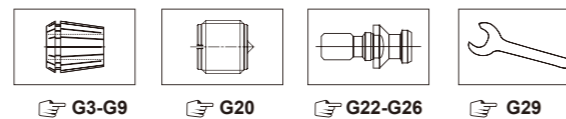
高精度 ER 筒夹刀柄

High Precision ER Collet Chuck Adaptor



规格型号 Designation	L	D	d	D1	L1	J	G	Kg	在库 Stock
BT30 ER16x70.TOP	70	28	0.5-10	-	-	M10	M12	0.55	●
BT30 ER16x100.TOP	100	28	0.5-10	-	-	M10	M12	0.71	●
BT30 ER20x70.TOP	70	34	1-13	-	-	M12	M12	0.63	●
BT30 ER20x100.TOP	100	34	1-13	-	-	M12	M12	0.83	●
BT30 ER25x60.TOP	60	42	1-16	-	-	M16	M12	0.64	●
BT30 ER25x100.TOP	100	42	1-16	-	-	M16	M12	1.06	●
BT30 ER32x60.TOP	60	50	2-20	-	-	M18x1.5	M12	0.70	●
BT30 ER32x100.TOP	100	50	2-20	-	-	M22x1.5	M12	1.05	●
BT40 ER16x70.TOP	70	28	0.5-10	-	-	M10	M16	1.12	●
BT40 ER16x100.TOP	100	28	0.5-10	-	-	M10	M16	1.27	●
BT40 ER16x150.TOP	150	28	0.5-10	40	85	M10	M16	1.64	●
BT40 ER16x200.TOP	200	28	0.5-10	40	110	M10	M16	1.98	●
BT40 ER20x70.TOP	70	34	1-13	-	-	M12	M16	1.17	●
BT40 ER20x100.TOP	100	34	1-13	-	-	M12	M16	1.35	●
BT40 ER20x120.TOP	120	34	1-13	-	-	M12	M16	1.47	●
BT40 ER20x150.TOP	150	34	1-13	-	-	M12	M16	1.66	●
BT40 ER25x60.TOP	60	42	1-16	-	-	M16	M16	1.17	●
BT40 ER25x100.TOP	100	42	1-16	-	-	M16	M16	1.56	●
BT40 ER25x150.TOP	150	42	1-16	-	-	M16	M16	1.96	●
BT40 ER32x60.TOP	60	50	2-20	-	-	M22x1.5	M16	1.20	●
BT40 ER32x100.TOP	100	50	2-20	-	-	M22x1.5	M16	1.75	●
BT40 ER32x120.TOP	120	50	2-20	-	-	M22x1.5	M16	2.04	●
BT40 ER32x150.TOP	150	50	2-20	-	-	M22x1.5	M16	2.48	●
BT40 ER32x200.TOP	200	50	2-20	57	113	M22x1.5	M16	3.45	●
BT40 ER40x80.TOP	80	63	3-26	-	-	M28x1.5	M16	1.60	●
BT40 ER40x100.TOP	100	63	3-26	-	-	M28x1.5	M16	1.88	●
BT40 ER40x150.TOP	150	63	3-26	-	-	M28x1.5	M16	3.20	●

- 刀柄若需数据芯片孔，请在型号后加“X”
- 订货示例：1 件 BT30 ER16x70.TOP
- If needing the hole for data chip, please add "X" at the end of the designation
- Ordering sample: 1 PC BT30 ER16x70.TOP



备件

Spare Parts



规格型号 Designation	螺帽 ER NUT
ER16.TOP	NUT ER16.TOP
ER20.TOP	NUT ER20.TOP
ER25.TOP	NUT ER25.TOP
ER32.TOP	NUT ER32.TOP
ER40.TOP	NUT ER40.TOP

● 标准库存
Item in stock

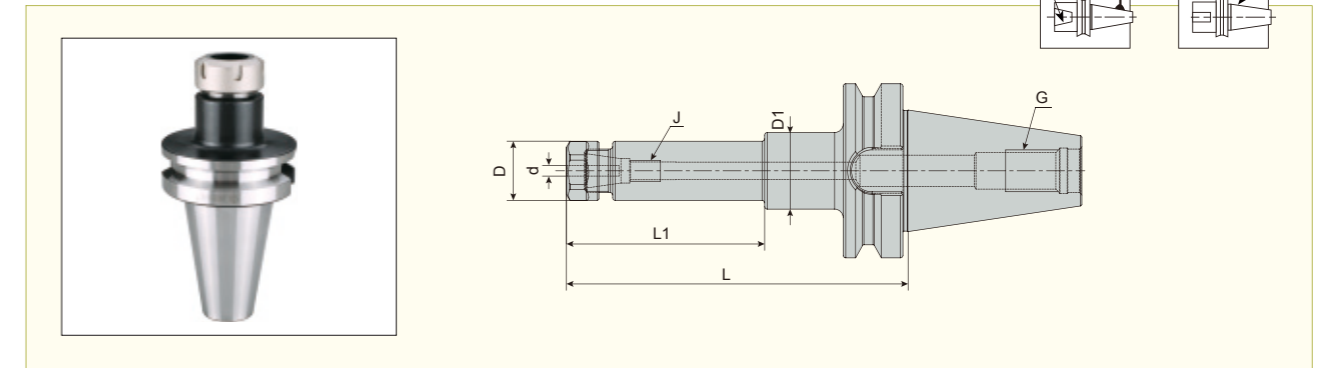
○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MAS403 BT

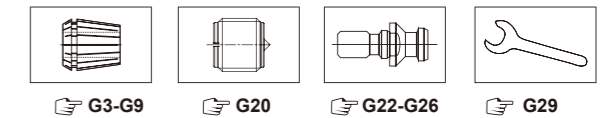
高精度 ER 筒夹刀柄

High Precision ER Collet Chuck Adaptor



规格型号 Designation	L	D	d	D1	L1	J	G	Kg	在库 Stock
BT50 ER16x100.TOP	100	28	0.5-10	-	-	M10	M24	3.82	●
BT50 ER16x125.TOP	125	28	0.5-10	-	-	M10	M24	4.07	●
BT50 ER16x150.TOP	150	28	0.5-10	-	-	M10	M24	4.08	●
BT50 ER16x200.TOP	200	28	0.5-10	40	85	M10	M24	4.57	●
BT50 ER20x100.TOP	100	34	1-13	-	-	M12	M24	3.83	●
BT50 ER20x125.TOP	125	34	1-13	-	-	M12	M24	3.99	●
BT50 ER20x150.TOP	150	34	1-13	-	-	M12	M24	4.15	●
BT50 ER20x200.TOP	200	34	1-13	50	85	M12	M24	4.69	●
BT50 ER25x100.TOP	100	42	1-16	-	-	M16	M24	4.07	●
BT50 ER25x150.TOP	150	42	1-16	-	-	M16	M24	4.56	●
BT50 ER25x200.TOP	200	42	1-16	55	87	M16	M24	5.63	●
BT50 ER32x100.TOP	100	50	2-20	-	-	M22x1.5	M24	4.20	●
BT50 ER32x125.TOP	125	50	2-20	-	-	M22x1.5	M24	4.60	●
BT50 ER32x150.TOP	150	50	2-20	-	-	M22x1.5	M24	4.87	●
BT50 ER32x200.TOP	200	50	2-20	63	88	M22x1.5	M24	6.20	●
BT50 ER40x100.TOP	100	63	3-26	-	-	M28x1.5	M24	4.48	●
BT50 ER40x150.TOP	150	63	3-26	-	-	M28x1.5	M24	5.57	●
BT50 ER40x200.TOP	200	63	3-26	-	-	M28x1.5	M24	6.67	●

- 刀柄若需数据芯片孔，请在型号后加“X”
- 订货示例：1 件 BT50 ER16x100.TOP
- If needing the hole for data chip, please add "X" at the end of the designation
- Ordering sample: 1 PC BT50 ER16x100.TOP



备件

Spare Parts



规格型号 Designation	螺帽 ER NUT
ER16.TOP	NUT ER16.TOP
ER20.TOP	NUT ER20.TOP
ER25.TOP	NUT ER25.TOP
ER32.TOP	NUT ER32.TOP
ER40.TOP	NUT ER40.TOP

● 标准库存
Item in stock

○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

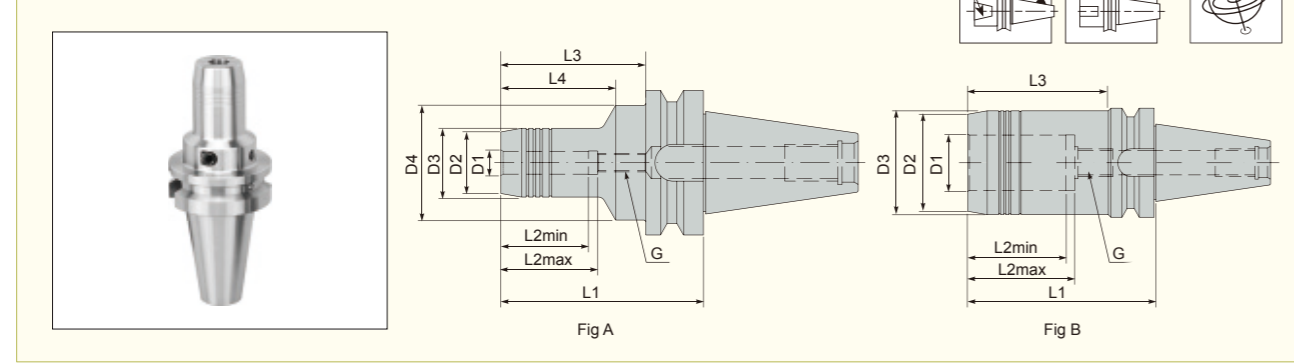
○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

刀柄系统
ADAPTORS

刀柄系统
ADAPTORS

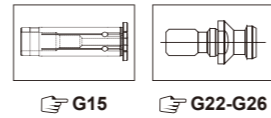
MAS403 BT

液压刀柄
Hydraulic Chuck Adaptor



规格型号 Designation	D1	D2	D3	D4	L1	L2max	L2min	L3	L4	G	Fig	在庫 Stock
BT30 HYDRO 6x60	6	23	26	45	60	37	27	38	33	M5	FigA	●
BT30 HYDRO 8x64	8	25	28	45	64	37	27	42	29	M6	FigA	●
BT30 HYDRO 10x64	10	27	30	45	64	42	32	42	37	M8x1.0	FigA	●
BT30 HYDRO 12x72	12	29	32	45	72	47	37	50	43	M10x1.0	FigA	●
BT30 HYDRO 14x70	14	30	34	45	70	47	37	48	33	M10x1.0	FigA	●
BT30 HYDRO 16x90	16	34	38	45	90	52	42	68	52	M12x1.0	FigA	●
BT30 HYDRO 18x90	18	36	40	42	90	52	42	68	52	M12x1.0	FigA	●
BT30 HYDRO 20x90	20	38	42	-	90	52	42	68	-	M12x1.0	FigB	●

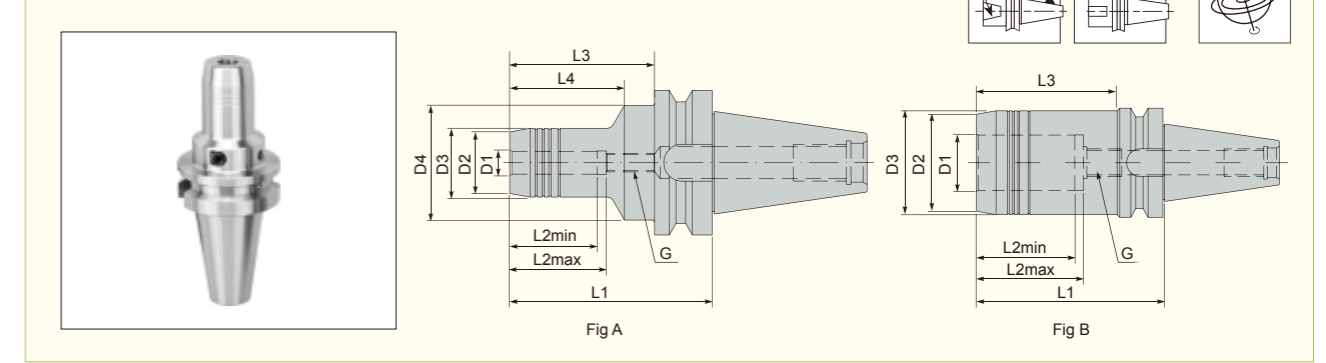
- 刀在 2.5 x D 处回转精度 < 0.003 mm
- 转速为 25,000 RPM 时动平衡等级达到 G2.5 或 Umax < 1g mm
- 用于自动换刀
- 使用减径套可夹持更多直径尺寸
- 订货示例: 1 件 BT40 HYDRO 32x110
- Run-out accuracy < 0.003 mm at 2.5 x D
- Balancing grade G2.5 at 25,000 RPM or Umax < 1g mm
- For automatic tool change
- Additional shank diameters can be clamped using intermediatesleeves
- Ordering sample: 1 PC BT40 HYDRO 32x110



☞ G15 ☞ G22-G26

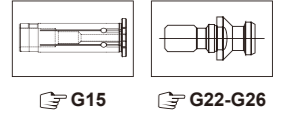
MAS403 BT

液压刀柄
Hydraulic Chuck Adaptor



规格型号 Designation	D1	D2	D3	D4	L1	L2max	L2min	L3	L4	G	Fig	在庫 Stock
BT40 HYDRO 6x90	6	23	26	50	90	37	27	63	43	M5	FigA	●
BT40 HYDRO 8x90	8	25	28	50	90	37	27	63	43.5	M6	FigA	●
BT40 HYDRO 10x90	10	27	30	50	90	42	32	63	44	M8x1.0	FigA	●
BT40 HYDRO 12x90	12	29	32	50	90	47	37	63	44.5	M10x1.0	FigA	●
BT40 HYDRO 14x90	14	30	34	50	90	47	37	63	47.5	M10x1.0	FigA	●
BT40 HYDRO 16x90	16	34	38	50	90	52	42	63	47.5	M12x1.0	FigA	●
BT40 HYDRO 18x90	18	36	40	50	90	52	42	63	47.5	M12x1.0	FigA	●
BT40 HYDRO 20x90	20	38	42	50	90	52	42	63	47.5	M12x1.0	FigA	●
BT40 HYDRO 25x90	25	46	50	-	90	58	48	55	-	M12x1.0	FigB	●
BT40 HYDRO 32x110	32	56	60	-	110	62	52	83	-	M16x1.0	FigB	●

- 刀在 2.5 x D 处回转精度 < 0.003 mm
- 转速为 25,000 RPM 时动平衡等级达到 G2.5 或 Umax < 1g mm
- 用于自动换刀
- 使用减径套可夹持更多直径尺寸
- 订货示例: 1 件 BT40 HYDRO 32x110
- Run-out accuracy < 0.003 mm at 2.5 x D
- Balancing grade G2.5 at 25,000 RPM or Umax < 1g mm
- For automatic tool change
- Additional shank diameters can be clamped using intermediatesleeves
- Ordering sample: 1 PC BT40 HYDRO 32x110



☞ G15 ☞ G22-G26

● 标准库存
Item in stock

○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

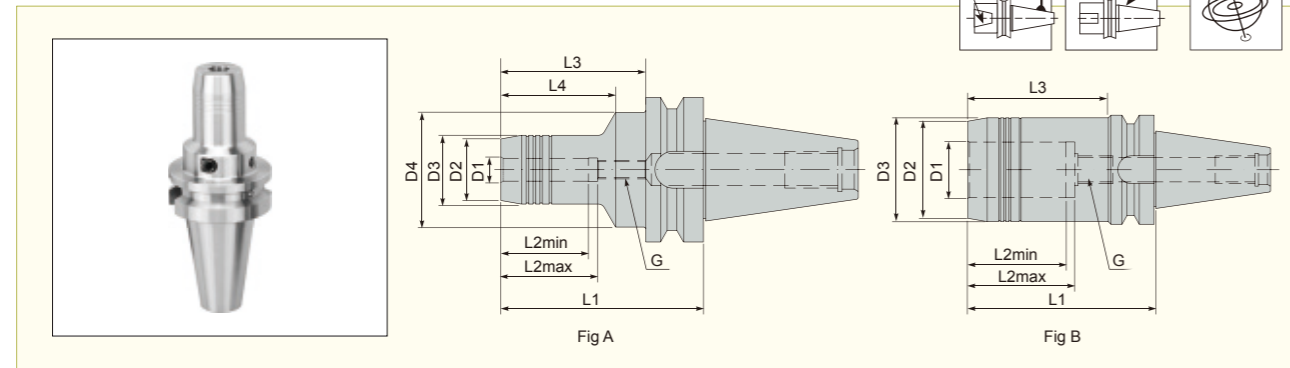
● 标准库存
Item in stock

○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

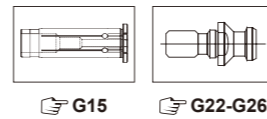
MAS403 BT

液压刀柄
Hydraulic Chuck Adaptor



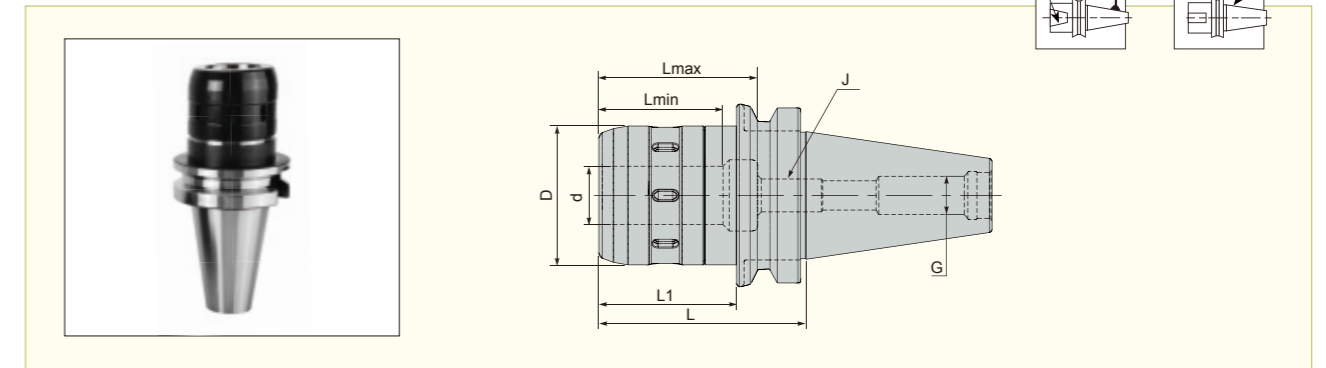
规格型号 Designation	D1	D2	D3	D4	L1	L2max	L2min	L3	L4	G	Fig	在庫 Stock
BT50 HYDRO 6x110	6	23	26	80	110	37	27	72	43	M5	FigA	●
BT50 HYDRO 8x110	8	25	28	80	110	37	27	72	43.5	M6	FigA	●
BT50 HYDRO 10x110	10	27	30	80	110	42	32	72	44	M8×1.0	FigA	●
BT50 HYDRO 12x110	12	29	32	80	110	47	37	72	42	M10×1.0	FigA	●
BT50 HYDRO 14x110	14	30	34	80	110	47	37	72	42	M10×1.0	FigA	●
BT50 HYDRO 16x110	16	34	38	80	110	52	42	72	45	M12×1.0	FigA	●
BT50 HYDRO 18x110	18	36	40	80	110	52	42	72	45	M12×1.0	FigA	●
BT50 HYDRO 20x110	20	28	42	80	110	52	42	72	47.5	M12×1.0	FigA	●
BT50 HYDRO 25x110	25	46	50	80	110	58	48	72	47.5	M12×1.0	FigA	●
BT50 HYDRO 32x110	32	56	60	80	110	64	54	72	47.5	M12×1.0	FigA	●

- 刀在 2.5 x D 处回转精度 < 0.003 mm
- 转速为 25,000 RPM 时动平衡等级达到 G2.5 或 Umax < 1g mm
- 用于自动换刀
- 使用减径套可夹持更多直径尺寸
- 订货示例: 1 件 BT40 HYDRO 32x110
- Run-out accuracy < 0.003 mm at 2.5 x D
- Balancing grade G2.5 at 25,000 RPM or Umax < 1g mm
- For automatic tool change
- Additional shank diameters can be clamped using intermediatesleeves
- Ordering sample: 1 PC BT40 HYDRO 32x110



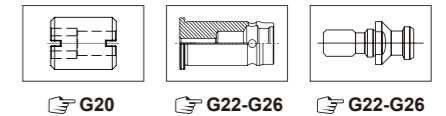
MAS403 BT

强力铣夹头刀柄
Power Chuck Adaptor



规格型号 Designation	D	d	L	L1	Lmin	Lmax	J	G	KG	在庫 Stock
BT40 DMG32X105	75	32	105	78	-	95	M16	M16	2.9	○
BT40 DMG32X110.C	76	32	110	83	68	87	M16	M16	2.95	○
BT50 DMG32X105	75	32	105	67	-	95	M24	M24	5.0	○
BT50 DMG32X110.C	76	32	113.5	75.5	68	87	M20x2	M24	5.33	○

- 刀柄若需数据芯片孔, 请在型号后加 ".X"
- 订货示例: 1 件 BT40 DMG32X105
- 强力直柄筒夹, 请参照: H17 页
- 选配轴向调节螺钉, 请参照: H23 页
- If needing the hole for data chip, please add ".X" at the end of the designation.
- Ordering sample: 1 PC BT40 DMG32X105.
- Power straight shank collet, please see page H17
- The optional axial adjusting screw, please see page H23



刀柄系统
ADAPTORS

刀柄系统
ADAPTORS

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

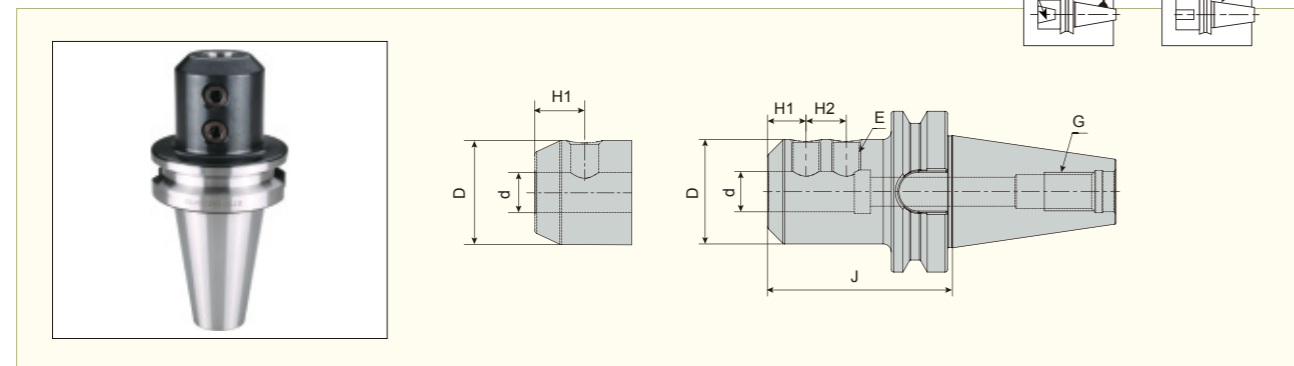
● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MAS403 BT

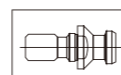
侧固式刀柄 (DIN 1835-B)

Weldon Adaptor



规格型号 Designation	d	D	L	H1	H2	E	G	Kg	在库 Stock
BT30 EM16x60	16	46	60	24	-	M14	M12	0.79	●
BT30 EM20x80	20	52	80	25	-	M16	M12	1.04	●
BT40 EM16x65	16	48	65	24	-	M14	M16	1.35	●
BT40 EM20x75	20	52	75	25	-	M16	M16	1.54	●
BT40 EM25x105	25	65	105	24	25	M18x2	M16	2.5	●
BT40 EM32x110	32	72	110	24	28	M20x2	M16	2.84	●
BT50 EM16x100	16	48	100	24	-	M14	M24	4.21	●
BT50 EM20x100	20	52	100	25	-	M16	M24	4.28	●
BT50 EM25x115	25	65	115	24	25	M18x2	M24	5.06	●
BT50 EM32x115	32	72	115	24	28	M20x2	M24	5.28	●
BT50 EM40x115	40	90	115	30	32	M20x2	M24	6.18	●
BT50 EM50x125	50	100	125	35	35	M24x2	M24	6.94	●

- 刀柄若需数据芯片孔, 请在型号后加 "X"
- 订货示例: 1 件 BT30 EM16x60
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: 1 PC BT30 EM16x60



G22-G26

备件

Spare Parts

规格型号 Designation	锁紧螺钉 Clamping screwscrew	锁紧扳手 (选配) Allen key for clamping screw
EM16	SR54 M14x16	KEY01 M6
EM20	SR54 M16x16	KEY01 M8
EM25	SR54 M18x20-X	KEY01 M8
EM32	SR54 M20x20-X	KEY01 M10
EM40	SR54 M20x25-X	KEY01 M10
EM50	SR54 M24x25-X	KEY01 M12

● 标准库存
Item in stock

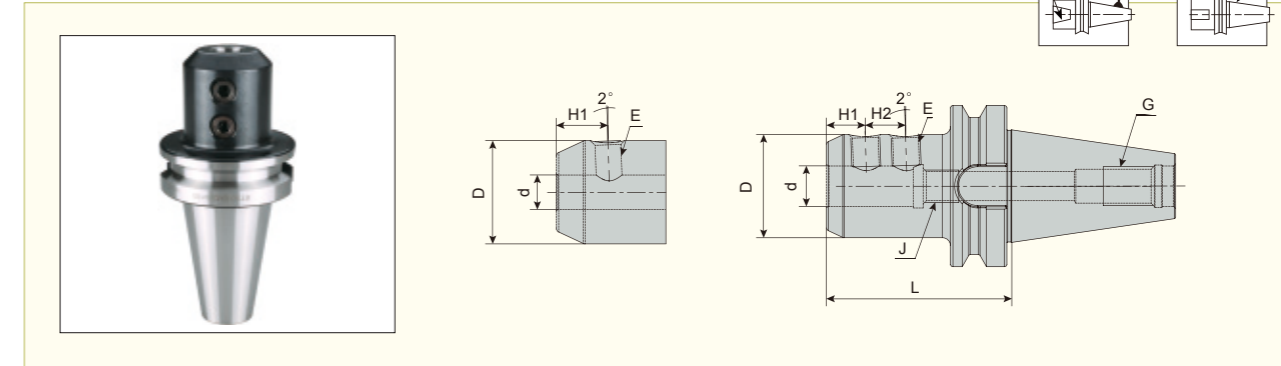
● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MAS403 BT

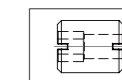
2° 侧固式刀柄 (DIN 1835-E)

2° Weldon Adaptor

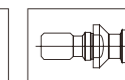


规格型号 Designation	d	D	L	H1	H2	E	J	G	Kg	在库 Stock
BT40 EM16x65E	16	48	65	24	-	M14	M12	M16	1.38	●
BT40 EM20x75E	20	52	75	25	-	M16	M16	M16	1.55	●
BT40 EM25x105E	25	65	105	24	22	M18x2	M20X2	M16	2.47	●
BT40 EM32x110E	32	72	110	24	24	M20x2	M20X2	M16	2.80	●
BT50 EM16x100E	16	48	100	24	-	M14	M12	M24	4.27	●
BT50 EM20x100E	20	52	100	25	-	M16	M16	M24	4.36	●
BT50 EM25x115E	25	65	115	24	22	M18x2	M20X2	M24	5.08	●
BT50 EM32x115E	32	72	115	24	24	M20x2	M20X2	M24	5.25	●
BT50 EM40x115E	40	90	115	30	30	M20x2	M20X2	M24	6.19	●
BT50 EM50x125E	50	98	125	35	33	M24x2	M20X2	M24	6.94	●

- 刀柄若需数据芯片孔, 请在型号后加 "X"
- 订货示例: 1 件 BT40 EM16x65E
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: 1 PC BT40 EM16x65E



G20



G22-G26

备件

Spare Parts

规格型号 Designation	锁紧螺钉 Clamping screwscrew	锁紧扳手 (选配) Allen key for clamping screw
EM16	SR54 M14x16	KEY01 M6
EM20	SR54 M16x16	KEY01 M8
EM25	SR54 M18x20-X	KEY01 M8
EM32	SR54 M20x20-X	KEY01 M10
EM40	SR54 M20x25-X	KEY01 M10
EM50	SR54 M24x25-X	KEY01 M12

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

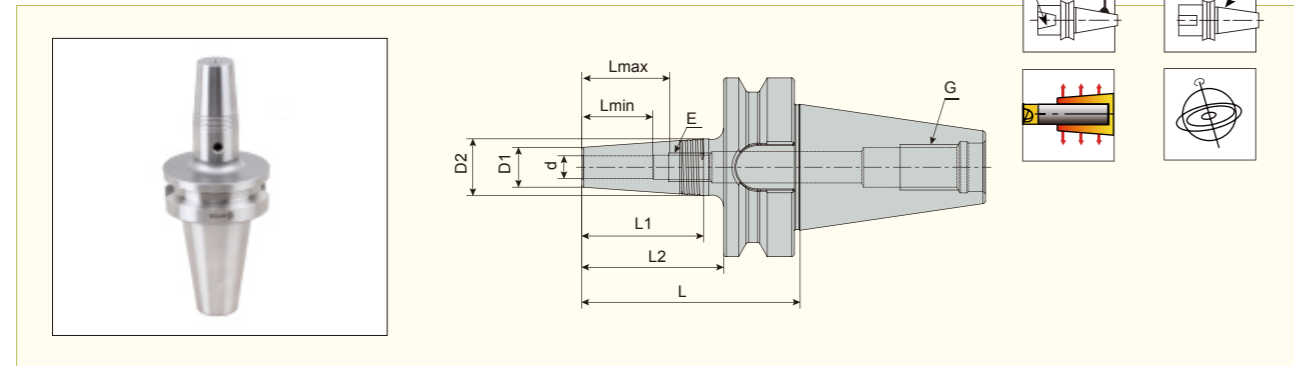
○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MAS403 BT

热缩刀柄

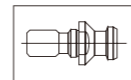
Shrink Fit Adaptor

BT MAS403 型热缩刀柄, 仅用于夹持整体硬质合金刀具。
It is only for clamping the solid carbide tools



规格型号 Designation	d	D1	D2	L1	L2	L	Lmin	Lmax	E	G	Kg	在库 Stock
BT40 SRK3x77	3	10	15	35.55	50	77	10	16	M6	M16	1.0	○
BT40 SRK3x112	3	10	19	64.15	85	112	10	16	M6	M16	1.0	○
BT40 SRK4x77	4	10	15	35.55	50	77	12	18	M6	M16	1.0	○
BT40 SRK4x112	4	10	19	64.15	85	112	12	18	M6	M16	1.0	○
BT40 SRK5x77	5	10	15	35.55	50	77	15	21	M6	M16	1.0	○
BT40 SRK5x112	5	10	19	64.15	85	112	15	21	M6	M16	1.0	○
BT40 SRK6x77	6	11	16	35.55	50	77	18	24	M8	M16	1.0	●
BT40 SRK6x112	6	11	20	64.15	85	112	18	24	M8	M16	1.1	●
BT40 SRK8x77	8	14	20	42.50	50	77	25	31	M10	M16	1.0	●
BT40 SRK8x112	8	14	23	63.95	85	112	25	31	M10	M16	1.1	●
BT40 SRK10x77	10	16	22	42.40	50	77	30	36	M12	M16	1.0	●
BT40 SRK10x112	10	16	25	60.28	85	112	30	36	M12	M16	1.1	●
BT40 SRK12x77	12	20	26	42.30	50	77	32	42	M10	M16	1.1	●
BT40 SRK12x112	12	20	28	56.60	85	112	32	42	M10	M16	1.2	●

- 当工作转速 N=25,000RPM 时, 刀柄的平衡等级为 G2.5
- 刀柄若需数据芯片孔, 请在型号后加 "X"
- 订货示例: 1 件 BT40 SRK3x77
- The collet should be ordered separately.
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: 1 PC BT40 SRK3x77.



G22-G26

备件

Spare Parts

E	轴向调节螺钉 Clamping screw	锁紧扳手 (选配) Allen key for clamping screw
M6	SR50 M6x20.BC	KEY01 M3
M8	SR50 M8x20.BC	KEY01 M4
M10	SR50 M10x18.BC	KEY01 M5
M12	SR50 M12x18.BC	KEY01 M6

● 标准库存
Item in stock

○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

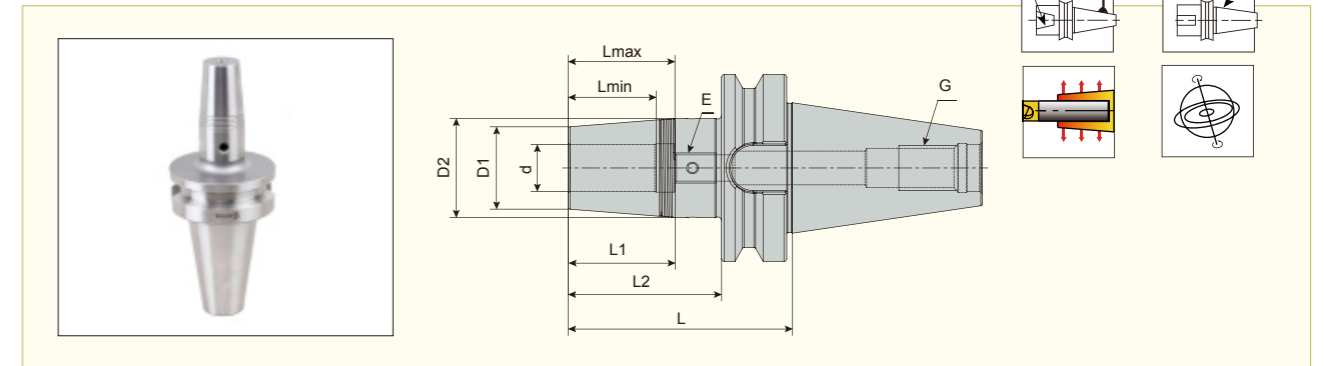
○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MAS403 BT

热缩刀柄

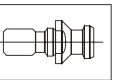
Shrink Fit Adaptor

BT MAS403 型热缩刀柄, 用于夹持整体硬质合金刀具或高速钢刀具。
It is for clamping the solid carbide tools or HSS tools.



规格型号 Designation	d	D1	D2	L1	L2	L	Lmin	Lmax	E	G	Kg	在库 Stock
BT40 SRKIN6x90	6	21	27	38.0	63	90	25	36	M5	M16	1.16	●
BT40 SRKIN8x90	8	21	27	38.0	63	90	25	36	M6	M16	1.15	●
BT40 SRKIN10x90	10	24	32	50.5	63	90	31	42	M8	M16	1.22	●
BT40 SRKIN12x90	12	24	32	50.5	63	90	36	47	M10	M16	1.21	●
BT40 SRKIN14x90	14	27	34	44.5	63	90	36	47	M10	M16	1.26	●
BT40 SRKIN16x90	16	27	34	44.5	63	90	39	50	M12	M16	1.23	●
BT40 SRKIN18x90	18	33	42	57.0	63	90	39	50	M12	M16	1.38	●
BT40 SRKIN20x90	20	33	42	57.0	63	90	41	52	M16	M16	1.35	●
BT40 SRKIN25x110	25	44	53	57.0	83	110	47	58	M16	M16	1.94	●
BT50 SRKIN6x100	6	21	27	38.0	62	100	25	36	M5	M24	3.78	●
BT50 SRKIN8x100	8	21	27	38.0	62	100	25	36	M6	M24	3.77	●
BT50 SRKIN10x100	10	24	32	51.0	62	100	31	42	M8	M24	3.83	●
BT50 SRKIN12x100	12	24	32	51.0	62	100	36	47	M10	M24	3.81	●
BT50 SRKIN14x100	14	27	34	44.5	62	100	36	47	M10	M24	3.86	●
BT50 SRKIN16x100	16	27	34	44.5	62	100	39	50	M12	M24	3.84	●
BT50 SRKIN18x100	18	33	42	57.0	62	100	39	50	M12	M24	3.98	●
BT50 SRKIN20x100	20	33	42	57.0	62	100	41	52	M16	M24	3.89	●
BT50 SRKIN25x120	25	44	53	57.0	82	120	47	58	M16	M24	4.47	●
BT50 SRKIN32x120	32	44	53	57.0	82	120	47	58	M16	M24	4.40	●

- 当工作转速 N=25,000RPM 时, 刀柄的平衡等级为 G2.5
- 刀柄若需数据芯片孔, 请在型号后加 "X"
- 订货示例: 1 件 BT40 SRKIN6x80
- It is with G2.5/25,000 RPM.
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: 1 PC BT40 SRKIN6x80.



G22-G26

备件

Spare Parts

E	轴向调节螺钉 Clamping screw	锁紧扳手 (选配) Allen key for clamping screw
M5	SR50 M5x20.BC	KEY01 M2.5
M6	SR50 M6x20.BC	KEY01 M3
M8	SR50 M8x20.BC	KEY01 M4
M10	SR50 M10x18.BC	KEY01 M5
M12	SR50 M12x18.BC	KEY01 M6
M16	SR50 M16x20.BC	KEY01 M8

● 标准库存
Item in stock

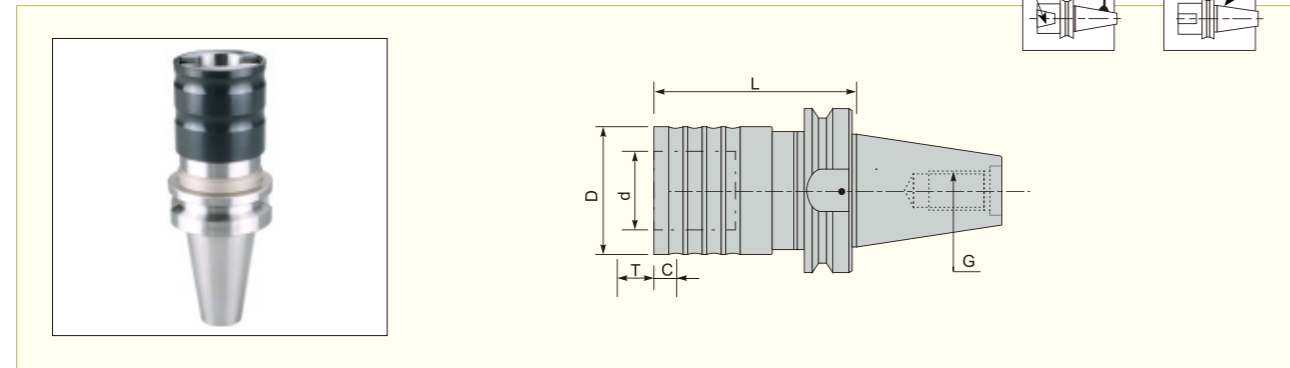
○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MAS403 BT

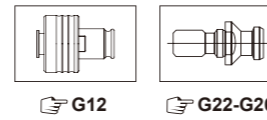
攻丝刀柄

Tapping Chuck Adaptor



规格型号 Designation	d	D	L	长度补偿 Length compensation		攻丝范围 Tap	G	Kg	在庫 Stock
				T	C				
BT40 TAP412x85	19	36	85	9	5	M4-M12	M16	1.2	○
BT40 TAP820x100	31	53.5	100	16	9	M8-M20	M16	1.8	○
BT50 TAP412x95	19	36.0	95	9	5	M4-M12	M24	3.8	○
BT50 TAP820x110	31	53.5	110	16	9	M8-M20	M24	4.3	○
BT50 TAP1433x140	48	78.0	140	26	15	M14-M33	M24	5.5	○
BT50 TAP2248x150	60	96.0	150	28	17	M22-M48	M24	6.6	○

- 刀柄若需数据芯片孔, 请在型号后加 "X"
- 订货示例: 1 件 BT40 TAP412x85
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: 1 PC BT40 TAP412x85.

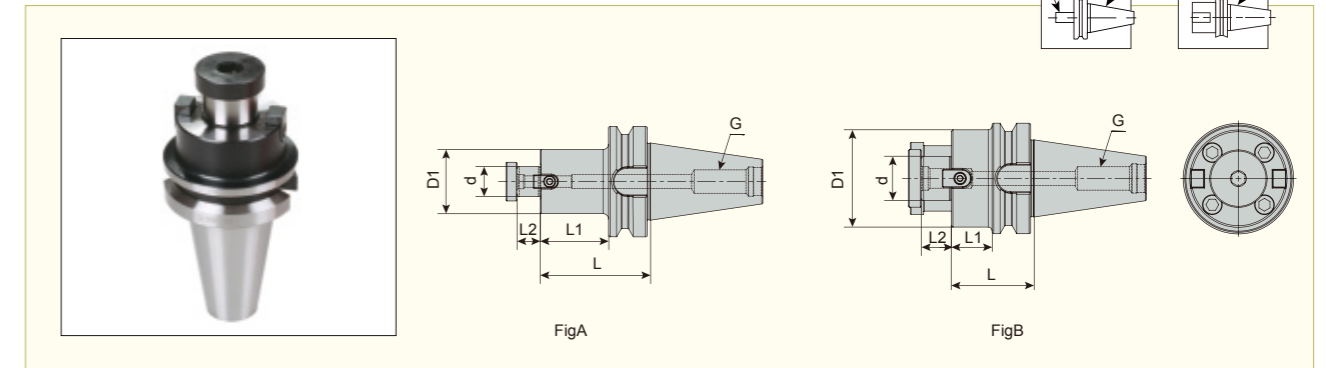


G12 G22-G26

MAS403 BT

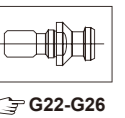
面铣刀刀柄

Face Mill Adaptor



规格型号 Designation	d	D1	L	L2	L1	Fig	G	在庫 Stock
BT40 SEM16x60	16	38	60	17	33	A	M16	●
BT40 SEM16x60.C	16	38	60	17	33	A	M16	●
BT40 SEM22x60	22	47	60	19	33	A	M16	●
BT40 SEM22x60.C	22	47	60	19	33	A	M16	●
BT40 SEM22x100	22	47	100	19	73	A	M16	●
BT40 SEM22x150	22	47	150	19	123	A	M16	●
BT40 SEM27x45	27	58	45	21	18	A	M16	●
BT40 SEM27x45.C	27	58	45	21	18	A	M16	●
BT40 SEM27x60	27	58	60	21	33	A	M16	●
BT40 SEM27x100	27	58	100	21	73	A	M16	●
BT40 SEM32x60	32	66	60	24	33	A	M16	●
BT40 SEM32x60.C	32	66	60	24	33	A	M16	●
BT40 SEM40x60	40	88	60	27	33	B	M16	●
BT40 SEM40x100	40	80	100	27	73	A	M16	●
BT50 SEM16x100	16	38	100	17	62	A	M24	●
BT50 SEM16x100.C	16	38	100	17	62	A	M24	●
BT50 SEM22x60	22	47	60	19	22	A	M24	●
BT50 SEM22x100	22	47	100	19	62	A	M24	●
BT50 SEM22x100.C	22	47	100	19	62	A	M24	●
BT50 SEM22x120	22	47	120	19	82	A	M24	●
BT50 SEM22x150	22	47	150	19	112	A	M24	●
BT50 SEM27x100	27	58	100	21	62	A	M24	●
BT50 SEM27x100.C	27	58	100	21	62	A	M24	●
BT50 SEM32x60	32	66	60	24	22	A	M24	●
BT50 SEM32x75	32	66	75	24	37	A	M24	●
BT50 SEM32x100	32	66	100	24	62	A	M24	●
BT50 SEM32x100.C	32	66	100	24	62	A	M24	●
BT50 SEM32x150	32	66	150	24	112	A	M24	●
BT50 SEM40x60	40	88	60	27	22	B	M24	●
BT50 SEM40x75	40	88	75	27	37	B	M24	●
BT50 SEM40x100	40	88	100	27	62	B	M24	●
BT50 SEM40x150	40	88	150	27	112	B	M24	●
BT50 SEM60x75	60	128	75	30	37	B	M24	●

- 刀柄若需数据芯片孔, 请在型号后加 "X"
- 订货示例: 1 件 BT40 SEM16x60
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: 1 PC BT40 SEM16x60



G22-G26

备件

Spare Parts

规格型号 Designation	平键 Flat key	平键锁紧螺钉 Clamping screw for flat key	大头螺钉 Clamping screw	压紧螺钉 Flat key
SEM16	PL10 8x6	SR55 M3x10	-	SR55 M8x25
SEM22	PL10 10x9	SR55 M5x12	SRB22-M10	SR55 M10x30
SEM27	PL10 12x10	SR55 M6x12	SRB27-M12	SR55 M12x35
SEM32	PL10 14x12	SR55 M6x16	SRB32-M16	SR55 M16x40
SEM40	PL10 16x12	SR55 M6x16	SRB40-M20	SR55 M12x50
SEM60	PL10 25x18	SR55 M10x20	-	SR55 M16x60

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

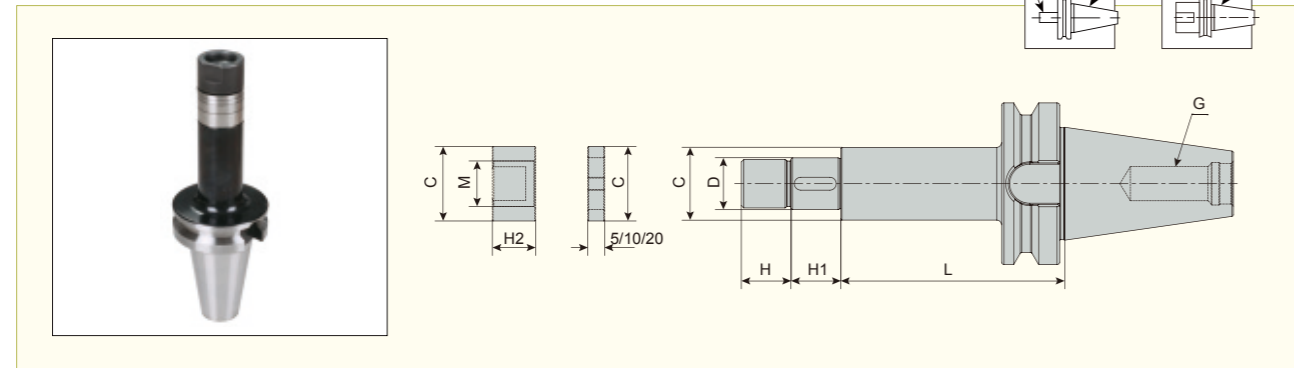


- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MAS403 BT

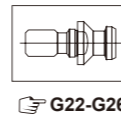
侧铣刀刀柄

Side Mill Adaptor



规格型号 Designation	D	L	H	C	H1	H2	M	G	Kg	在库 Stock
BT40 SEMC13x105	13	105	15	20	30	12	M12	M16	1.4	○
BT40 SEMC16x105	16	105	16	26	30	13	M14x1.5	M16	1.5	○
BT40 SEMC22x105	22	105	21	34	30	18	M20x1.5	M16	1.9	○
BT40 SEMC27x120	27	120	25	40	30	21	M24x2.0	M16	2.5	○
BT40 SEMC32x90	32	90	30	46	30	26	M30x2.0	M16	2.6	○
BT50 SEMC13x105	13	105	15	20	30	12	M12	M24	3.8	○
BT50 SEMC16x120	16	120	16	26	30	13	M14x1.5	M24	4.1	○
BT50 SEMC22x135	22	135	21	34	30	18	M20x1.5	M24	4.6	○
BT50 SEMC27x135	27	135	25	40	30	21	M24x2.0	M24	5.1	○
BT50 SEMC32x135	32	135	30	46	30	26	M30x2.0	M24	5.7	○
BT50 SEMC40x135	40	135	36	55	30	31	M36x2.0	M24	6.8	○
BT50 SEMC50x150	50	150	40	90	40	36	M48x2.0	M24	11.1	○

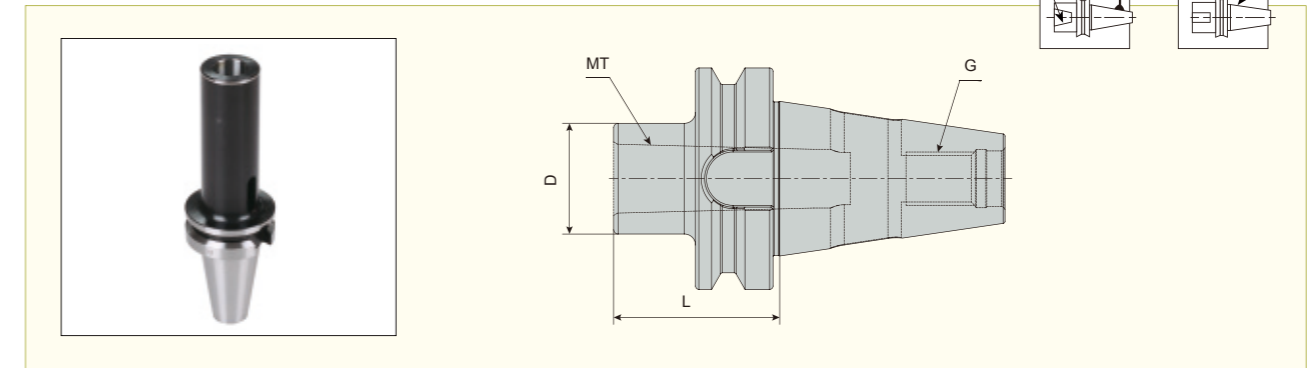
- 刀柄若需数据芯片孔, 请在型号后加 "X"
- 订货示例: 1 件 BT40 SEMC13x75
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: 1 PC BT40 SEMC13x75



MAS403 BT

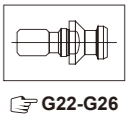
带扁尾莫氏锥孔刀柄

Morse Taper with Tang Adaptor



规格型号 Designation	MT	L	D	G	Kg	在库 Stock
BT30 MTA1x45	1	45	25	M12	0.39	○
BT30 MTA2x60	2	60	32	M12	0.46	○
BT30 MTA3x80	3	80	40	M12	0.60	○
BT40 MTA1x45	1	45	25	M16	0.96	○
BT40 MTA2x45	2	45	32	M16	0.96	○
BT40 MTA2x120	2	120	32	M16	1.41	○
BT40 MTA3x75	3	75	40	M16	1.15	○
BT40 MTA3x135	3	135	40	M16	1.72	○
BT40 MTA4x90	4	90	50	M16	1.33	○
BT50 MTA1x45	1	45	25	M24	3.50	○
BT50 MTA1x120	1	120	25	M24	3.86	○
BT50 MTA2x45	2	45	32	M24	3.44	○
BT50 MTA2x135	2	135	32	M24	4.06	○
BT50 MTA3x45	3	45	40	M24	3.39	○
BT50 MTA3x150	3	150	40	M24	4.39	○
BT50 MTA4x75	4	75	50	M24	3.36	○
BT50 MTA5x105	5	105	70	M24	4.08	○

- 刀柄若需数据芯片孔, 请在型号后加 "X"
- 订货示例: 1 件 BT30 MTA1x45
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: 1 PC BT30 MTA1x45



备件

Spare Parts

规格型号 Designation	平键 Flat key	锁紧螺母 Lock nut	间隔套 Spacer sleeve
SEMC13	-	LM M12	FJ SEMC13x5/10/20
SEMC16	PL08 4x4x25	LM M14x1.5	FJ SEMC16x5/10/20
SEMC22	PL08 6x6x25	LM M20x1.5	FJ SEMC22x5/10/20
SEMC27	PL08 7x7x25	LM M24x2	FJ SEMC27x5/10/20
SEMC32	PL08 8x7x25	LM M30x2	FJ SEMC32x5/10/20
SEMC40	PL08 10x8x25	LM M36x2	FJ SEMC40x5/10/20
SEMC50	PL08 12x8x30	LM M48x2	FJ SEMC50x5/10/20

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

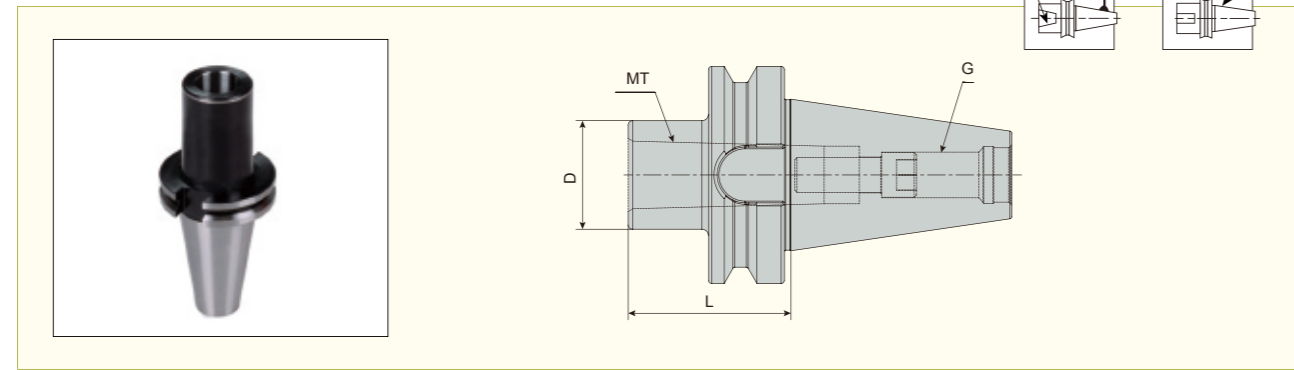
● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MAS403 BT

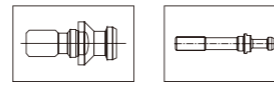
无扁尾莫氏锥孔刀柄

Morse Taper with Draw Thread Adaptor



规格型号 Designation	MT	L	D	G	Kg	在库 Stock
BT40 MTB1x45	1	45	25	M16	1.01	●
BT40 MTB2x60	2	60	32	M16	1.09	●
BT40 MTB3x75	3	75	40	M16	1.22	●
※ BT40 MTB4x90	4	90	50	M16	1.26	●
BT50 MTB1x45	1	45	25	M24	3.54	●
BT50 MTB2x45	2	45	32	M24	3.56	●
BT50 MTB3x60	3	60	40	M24	3.61	●
BT50 MTB4x75	4	75	50	M24	3.73	●
※ BT50 MTB5x120	5	120	65	M24	4.30	●

- 刀柄若需数据芯片孔，请在型号后加“X”
- 订货示例：1件 BT40 MTB1x45
- “※” 需配专用拉钉
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: 1 PC BT40 MTB1x45
- “※” It indicates that special pull stud needed.



☞ G22-G26 ☞ G26

备件

Spare Parts

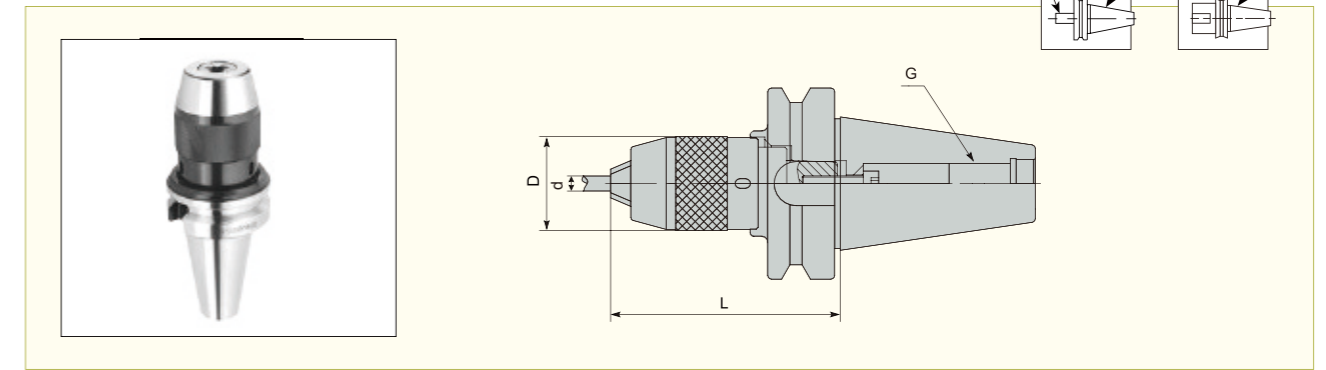
规格型号 Designation	锁紧螺钉 Clamping screw
BT40 MTB1x45	SR22 M6x25
BT40 MTB2x60	SR155 M10x35
BT40 MTB3x75	SR155 M12x30
BT40 MTB4x90	-
BT50 MTB1x45	SR55 M6x25
BT50 MTB2x45	SR55 M10x35
BT50 MTB3x60	SR55 M12x35
BT50 MTB4x75	SR155 M16x40
BT50 MTB5x120	-



MAS403 BT

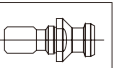
钻夹头刀柄

Drill chuck adaptor



规格型号 Designation	L	D	夹持范围 clamping range	G	Kg	在库 Stock
BT40 APU08	80	36	0.5-8	M16	1.3	○
BT40 APU13	95	50	0.5-13	M16	1.8	○
BT40 APU16	113	57	3-16	M16	2.3	○
BT50 APU13	105	50	0.5-13	M24	4.4	○
BT50 APU16	110	57	3-16	M24	4.7	○

- 刀柄若需数据芯片孔，请在型号后加“X”
- 订货示例：1件 BT40 APU08
- If needing the hole for data chip, please add "X" at the end of the designation
- Ordering sample: 1 PC BT40 APU08

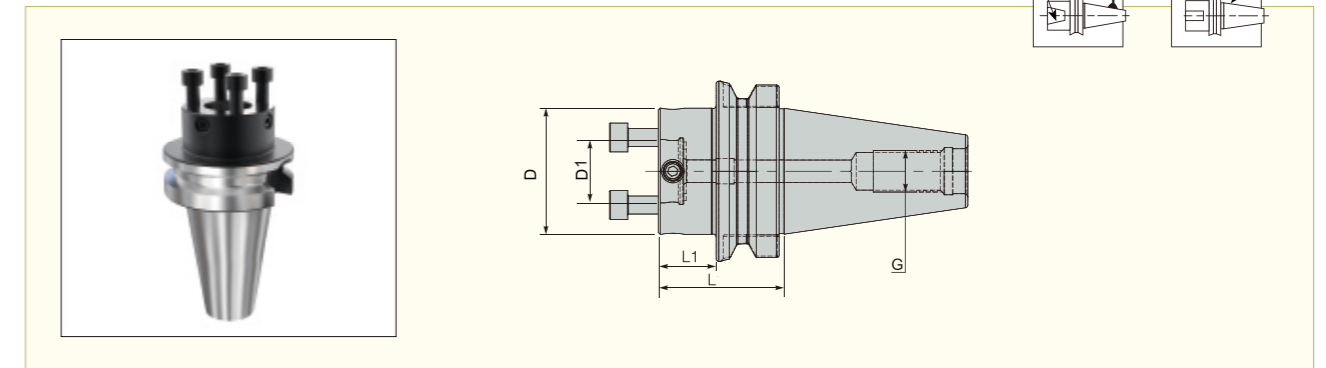


☞ G22-G26

刀柄系统 ADAPTORS

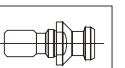
可调刀柄

Adjustable Adaptor



规格型号 Designation	ISO	D	D1	L	L1	G	kg	在库 Stock
BT40 SL70x55	40	70	35	55	28	M16	1.56	○
BT50 SL70x70	50	70	35	70	32	M24	4.34	○

- 适配接杆单独订购，请参照：☞ D53-D56 页
- 刀柄若需数据芯片孔，请在型号后加“X”
- 订货示例：1件 BT40 SL70x55
- Extension should be ordered separately, please see page D53-D56
- If needing the hole for data chip, please add "X" at the end of the designation
- Ordering sample: 1 PC BT40 SL70x55



☞ G22-G26

备件

Spare Parts

规格型号 Designation	径向调整螺钉 Radial adjusting screw	调整螺钉扳手 Adjusting screw	轴向压紧螺钉 Axial tensioning screw	压紧螺钉扳手 Compression screw spanner	密封圈 Sealing ring
D=70	SR54 M8x16	KEY01 M4	SR55 M6x25	KEY01 M5	FT91 D25x4

DIN69871-A



D

刀柄系统 ADAPTORS

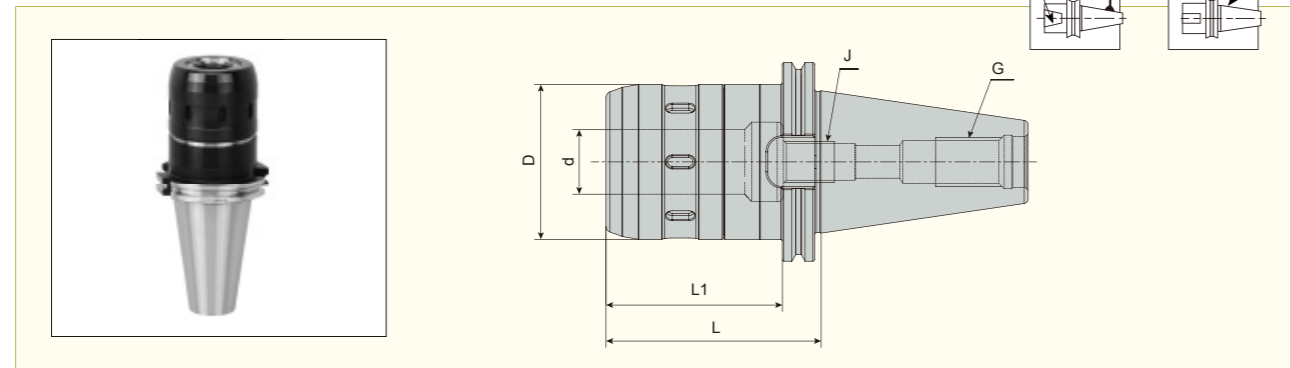
DIN69871-A

ER 筒夹刀柄	D23
ER Collet Chuck Adaptor	
高精度 ER 筒夹刀柄	D24
High Precision ER Collet Chuck Adaptor	
强力铣夹头刀柄	D25
Power Chuck Adaptor	
侧固式刀柄 (DIN 1835-B)	D26
Weldon Adaptor	
2° 侧固式刀柄 (DIN 1835-E)	D27
2° Weldon Adaptor	
热缩刀柄	D28
Shrink Fit Adaptor	
攻丝刀柄	D30
Tapping Chuck Adaptor	
面铣刀刀柄	D31
Face Mill Adaptor	
侧铣刀刀柄	D32
Side Mill Adaptor	
带扁尾莫氏锥孔刀柄	D33
Morse Taper With Tang Adaptor	
无扁尾莫氏锥孔刀柄	D34
Morse Taper With Draw Thread Adaptor	
钻夹头刀柄	D35
Drill chuck adaptor	
可调刀柄	D36
Adjustable Adaptor	

DIN69871-A

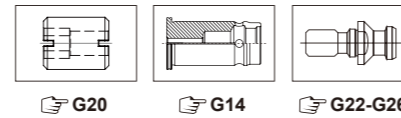
强力铣夹头刀柄

Power Chuck Adaptor



规格型号 Designation	D	d	L	L1	Lmin	Lmax	J	G	KG	在庫 Stock
DIN69871 40 DMG32X110	75	32	110	91	-	95	M16	M16	2.9	○
DIN69871 50 DMG32X100	75	32	100	81	-	105	M24	M24	5.0	○

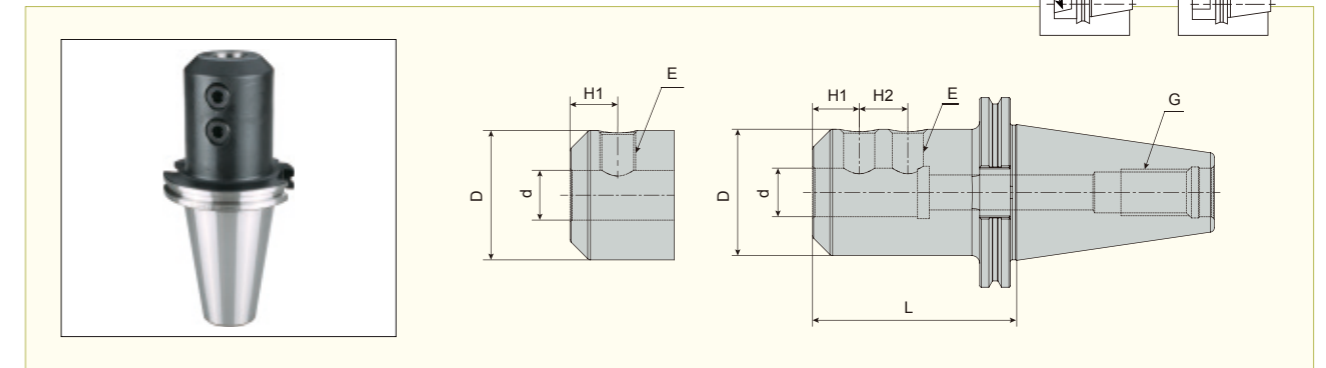
- 强力直柄筒夹订购，请参照：H17 页
- 刀柄若需数据芯片孔，请在型号后加 "X"
- 选配轴向调节螺钉，请参照：H23 页
- 订货示例：1 件 DIN69871 40 DMG32x110
- Straight shank collet should be ordered separately, please see page H17.
- If needing the hole for data chip, please add "X" at the end of the designation.
- The optional axial adjusting screw, please see page H23.
- Ordering sample: 1 PC DIN69871 40 DMG32x110.



DIN69871-A

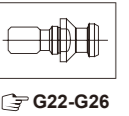
侧固式刀柄 (DIN 1835-B)

Weldon Adaptor



规格型号 Designation	d	D	L	H1	H2	E	G	Kg	在庫 Stock
DIN69871 40 EM16x63	16	48	63	24	-	M14	M16	1.20	●
DIN69871 40 EM20x63	20	52	63	25	-	M16	M16	1.26	●
DIN69871 40 EM25x100	25	65	100	24	25	M18x2	M16	2.23	●
DIN69871 40 EM32x100	32	71	100	24	28	M20x2	M16	2.42	●
DIN69871 50 EM16x63	16	48	63	24	-	M14	M24	3.02	●
DIN69871 50 EM20x63	20	52	63	25	-	M16	M24	3.07	●
DIN69871 50 EM25x80	25	65	80	24	25	M18x2	M24	3.70	●
DIN69871 50 EM32x100	32	72	100	24	28	M20x2	M24	4.44	●
DIN69871 50 EM40x100	40	90	100	30	32	M20x2	M24	5.02	●
DIN69871 50 EM50x125	50	98	125	35	35	M24x2	M24	6.64	●

- 刀柄若需数据芯片孔，请在型号后加 "X"
- 订货示例：1 件 DIN69871 40 EM16x63
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: 1 PC DIN69871 40 EM16x63



备件

Spare Parts

规格型号 Designation	锁紧螺钉 Clamping screw	锁紧扳手 (选配) Allen key for clamping screw
EM16	SR54 M14x16	KEY01 M6
EM20	SR54 M16x16	KEY01 M8
EM25	SR54 M18x20-X	KEY01 M8
EM32	SR54 M20x20-X	KEY01 M10
EM40	SR54 M20x25-X	KEY01 M10
EM50	SR54 M24x25-X	KEY01 M12

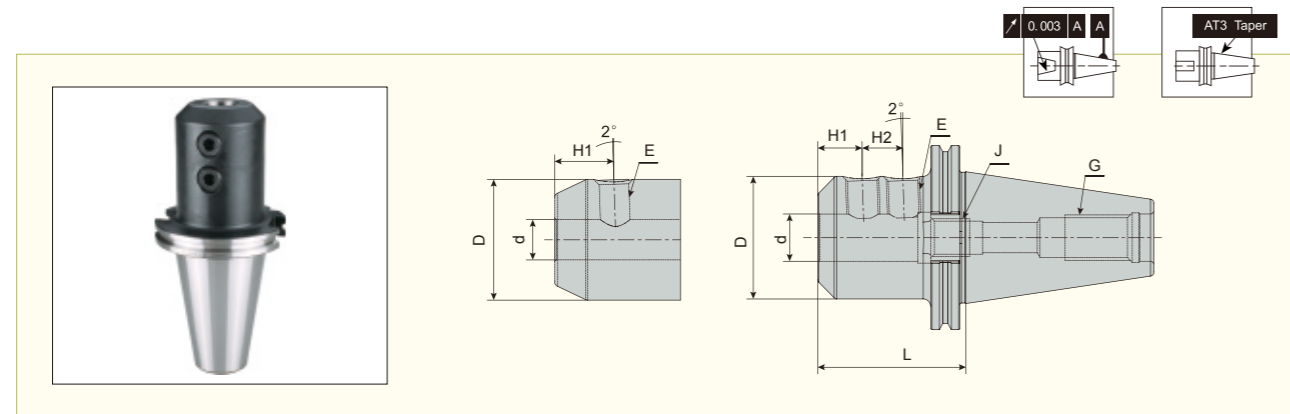
刀柄系统
ADAPTORS

刀柄系统
ADAPTORS

DIN69871-A

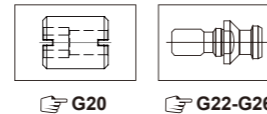
2° 侧固式刀柄 (DIN 1835-E)

2° Weldon Adaptor



规格型号 Designation	d	D	L	H1	H2	E	J	G	Kg	在庫 Stock
DIN69871 40 EM16x63E	16	48	63	24	-	M14	M12	M16	1.28	●
DIN69871 40 EM20x63E	20	52	63	25	-	M16	M16	M16	1.25	●
DIN69871 40 EM25x100E	25	65	100	24	22	M18x2	M20X2	M16	2.18	●
DIN69871 40 EM32x100E	32	72	100	24	24	M20x2	M20X2	M16	2.40	●
DIN69871 50 EM16x63E	16	48	63	24	-	M14	M12	M24	3.07	●
DIN69871 50 EM20x63E	20	52	63	25	-	M16	M16	M24	3.11	●
DIN69871 50 EM25x80E	25	65	80	24	22	M18x2	M20X2	M24	3.67	●
DIN69871 50 EM32x100E	32	72	100	24	24	M20x2	M20X2	M24	4.50	●
DIN69871 50 EM40x100E	40	90	100	30	30	M20x2	M20X2	M24	5.05	●

- 刀柄若需数据芯片孔, 请在型号后加 ".X"
- 订货示例: 1 件 DIN69871 40 EM16x63E
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: 1 PC DIN69871 40 EM16x63E



备件

Spare Parts

规格型号 Designation	锁紧螺钉 Clamping screw	锁紧扳手 (选配) Allen key for clamping screw
EM16	SR54 M14x16	KEY01 M6
EM20	SR54 M16x16	KEY01 M8
EM25	SR54 M18x20-X	KEY01 M8
EM32	SR54 M20x20-X	KEY01 M10
EM40	SR54 M20x25-X	KEY01 M10
EM50	SR54 M24x25-X	KEY01 M12

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

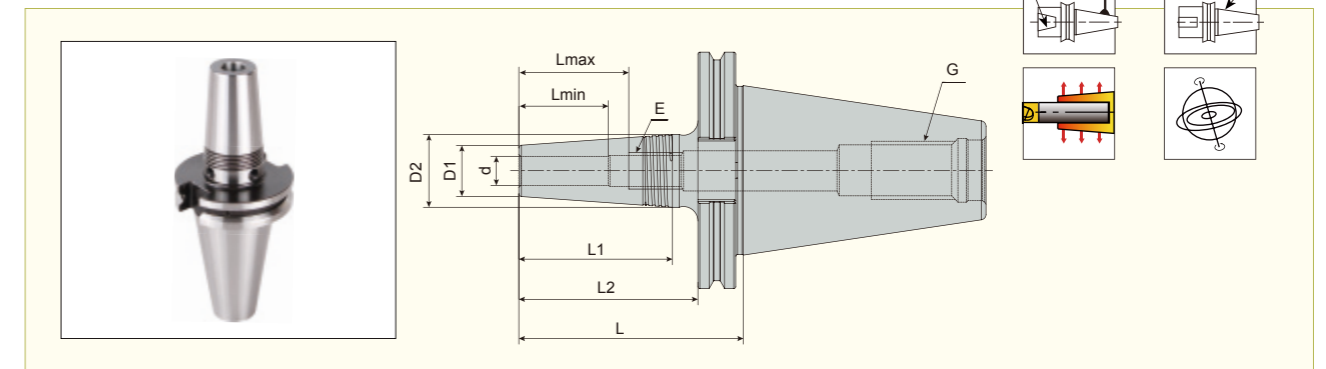
DIN69871-A

热缩刀柄

Shrink Fit Adaptor

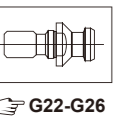
DIN69871-A 型热缩刀柄, 仅用于夹持整体硬质合金刀具。

It is only for clamping the solid carbide tools



规格型号 Designation	d	D1	D2	L1	L2	L	Lmin	Lmax	E	G	Kg	在庫 Stock
DIN69871 40 SRK3x69	3	10	15.0	35.55	50	69.1	10	16	M6	M16	0.8	○
DIN69871 40 SRK3x104	3	10	19.0	64.15	85	104.1	10	16	M6	M16	1.0	○
DIN69871 40 SRK4x69	4	10	15.0	35.55	50	69.1	12	18	M6	M16	0.8	○
DIN69871 40 SRK4x104	4	10	19.0	64.15	85	104.1	12	18	M6	M16	0.9	○
DIN69871 40 SRK5x69	5	10	15.0	35.55	50	69.1	15	21	M6	M16	0.8	○
DIN69871 40 SRK5x104	5	10	19.0	64.15	85	104.1	15	21	M6	M16	1.0	○
DIN69871 40 SRK6x69	6	11	16.0	35.55	50	69.1	18	24	M8	M16	0.8	●
DIN69871 40 SRK6x104	6	11	20.0	64.15	85	104.1	18	24	M8	M16	0.8	●
DIN69871 40 SRK8x69	8	14	20.0	42.50	50	69.1	25	31	M10	M16	0.8	●
DIN69871 40 SRK8x104	8	14	23.0	63.90	85	104.1	25	31	M10	M16	0.9	●
DIN69871 40 SRK10x69	10	16	22.0	42.40	50	69.1	30	36	M12	M16	0.9	●
DIN69871 40 SRK10x104	10	16	24.5	60.30	85	104.1	30	36	M12	M16	0.9	●
DIN69871 40 SRK12x69	12	20	26.0	42.30	50	69.1	32	42	M10	M16	0.9	●
DIN69871 40 SRK12x104	12	20	28.0	56.60	85	104.1	32	42	M10	M16	1.1	●

- 当工作转速 N=25,000RPM 时, 刀柄的平衡等级为 G2.5
- 刀柄若需数据芯片孔, 请在型号后加 ".X"
- 订货示例: DIN69871 40 SRK3x69
- It is with G2.5/25,000 RPM.
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: DIN69871 40 SRK3x69.



备件

Spare Parts

E	轴向调节螺钉 Clamping screw	锁紧扳手 (选配) Allen key for clamping screw
M6	SR50 M6x20.BC	KEY01 M3
M8	SR50 M8x20.BC	KEY01 M4
M10	SR50 M10x18.BC	KEY01 M5
M12	SR50 M12x18.BC	KEY01 M6

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

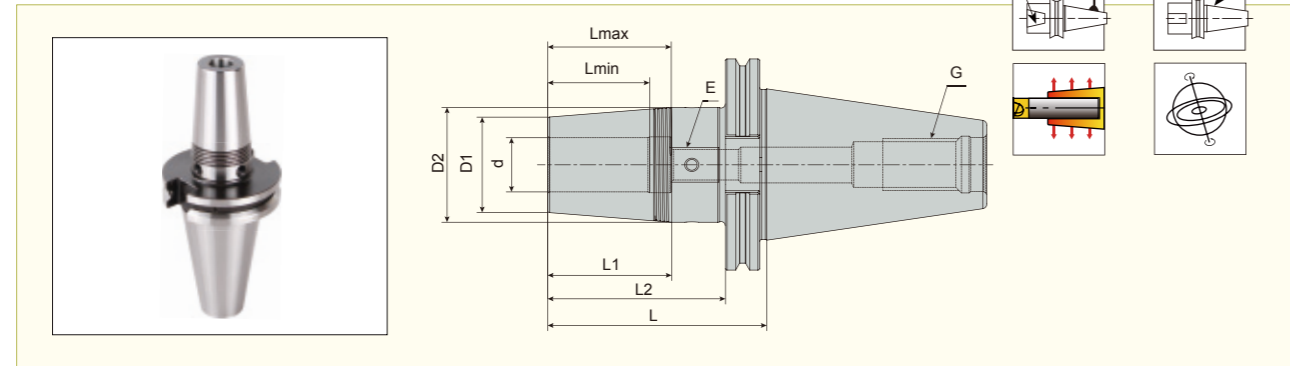
○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

DIN69871-A

热缩刀柄

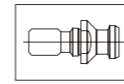
Shrink Fit Adaptor

DIN69871-A 型热缩刀柄，用于夹持整体硬质合金刀具或高速钢刀具。
It is only for clamping the solid carbide tools and HSS tools.



规格型号 Designation	d	D1	D2	L1	L2	L	Lmin	Lmax	E	G	Kg	在庫 Stock
DIN69871 40 SRKIN6x80	6	21	27	38.0	60.9	80	25	36	M5	M16	1.0	●
DIN69871 40 SRKIN8x80	8	21	27	38.0	60.9	80	25	36	M6	M16	1.1	●
DIN69871 40 SRKIN10x80	10	24	32	50.5	60.9	80	31	42	M8	M16	1.0	●
DIN69871 40 SRKIN12x80	12	24	32	50.5	60.9	80	36	47	M10	M16	1.4	●
DIN69871 40 SRKIN14x80	14	27	34	44.5	60.9	80	36	47	M10	M16	1.1	●
DIN69871 40 SRKIN16x80	16	27	34	44.5	60.9	80	39	50	M12	M16	1.1	●
DIN69871 40 SRKIN18x80	18	33	42	57.0	60.9	80	39	50	M12	M16	1.2	●
DIN69871 40 SRKIN20x80	20	33	42	57.0	60.9	80	41	52	M16	M16	1.2	●
DIN69871 40 SRKIN25x100	25	44	53	57.0	80.9	100	47	58	M16	M16	1.7	●
DIN69871 50 SRKIN6x80	6	21	27	38.0	60.9	80	25	36	M5	M24	2.8	●
DIN69871 50 SRKIN8x80	8	21	27	38.0	60.9	80	25	36	M6	M24	2.8	●
DIN69871 50 SRKIN10x80	10	24	32	51.0	60.9	80	31	42	M8	M24	2.8	●
DIN69871 50 SRKIN12x80	12	24	32	51.0	60.9	80	36	47	M10	M24	2.8	●
DIN69871 50 SRKIN14x80	14	27	34	44.5	60.9	80	36	47	M10	M24	2.8	●
DIN69871 50 SRKIN16x80	16	27	34	44.5	60.9	80	39	50	M12	M24	2.8	●
DIN69871 50 SRKIN18x80	18	33	42	57.0	60.9	80	39	50	M12	M24	2.9	●
DIN69871 50 SRKIN20x80	20	33	42	57.0	60.9	80	41	52	M16	M24	2.9	●
DIN69871 50 SRKIN25x100	25	44	53	57.0	80.9	100	47	58	M16	M24	3.5	●
DIN69871 50 SRKIN32x100	32	44	53	57.0	80.9	100	47	58	M16	M24	3.4	●

- 当工作转速 N=25,000RPM 时，刀柄的平衡等级为 G2.5
- 刀柄若需数据芯片孔，请在型号后加 "X"
- 订货示例：DIN69871 40 SRKIN6x80
- It is with G2.5/25,000 RPM.
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: DIN69871 40 SRKIN6x80.



G22-G26

备件

Spare Parts



E	轴向调节螺钉 Clamping screw	锁紧扳手 (选配) Allen key for clamping screw
M5	SR50 M5x20.BC	KEY01 M2.5
M6	SR50 M6x20.BC	KEY01 M3
M8	SR50 M8x20.BC	KEY01 M4
M10	SR50 M10x18.BC	KEY01 M5
M12	SR50 M12x18.BC	KEY01 M6
M16	SR50 M16x20.BC	KEY01 M8

● 标准库存
Item in stock

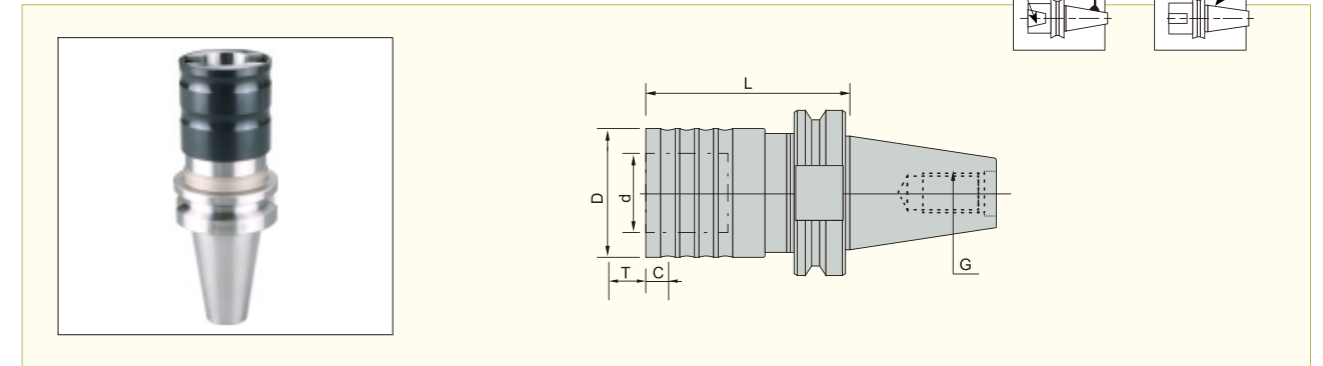
● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

DIN69871-A

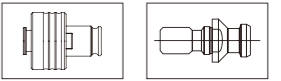
攻丝刀柄

Tapping Chuck Adaptor



规格型号 Designation	d	D	L	长度补偿 Length compensation		攻丝范围 Tap	G	Kg	在庫 Stock
				T	C				
DIN69871 40 TAP412x75	19	36.0	75	9	5	M4-M12	M16	1.1	○
DIN69871 40 TAP820x100	31	53.5	100	16	9	M8-M20	M16	1.7	○
DIN69871 50 TAP412x75	19	36.0	75	9	5	M4-M12	M24	2.9	○
DIN69871 50 TAP820x100	31	53.5	100	16	9	M8-M20	M24	3.5	○
DIN69871 50 TAP1433x135	48	78.0	135	26	15	M14-M33	M24	4.9	○
DIN69871 50 TAP2248x155	60	96.0	155	28	17	M22-M48	M24	6.4	○

- 刀柄若需数据芯片孔，请在型号后加 "X"
- 订货示例：1 件 DIN69871 40 TAP412x75
- 每种规格的攻丝刀柄均有对应的攻丝快换夹头，请参照：H12 页
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: 1 PC DIN69871 40 TAP412x75
- Multiple quick change chucks for corresponding adaptors, please see page H12



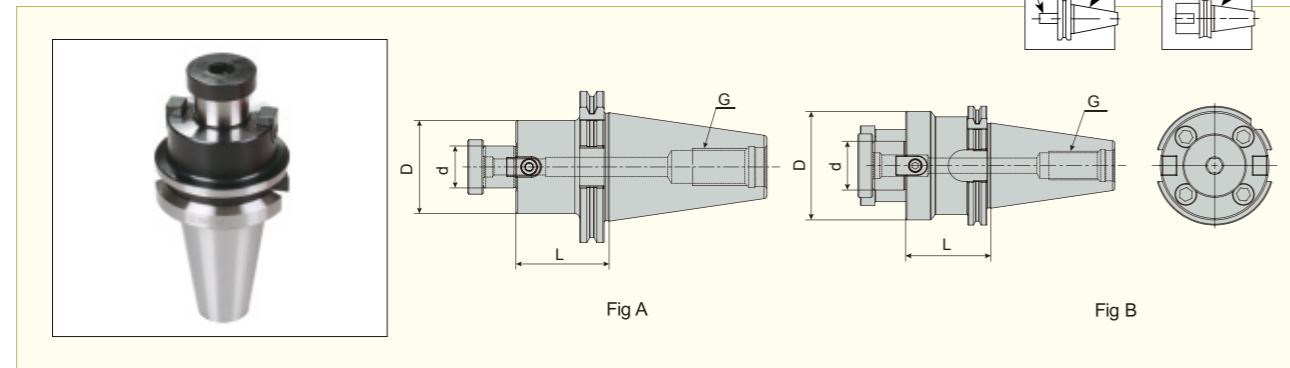
G12

G22-G26

DIN69871-A

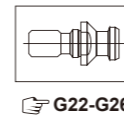
面铣刀刀柄

Face Mill Adaptor



规格型号 Designation	d	D	L	Fig	G	Kg	在庫 Stock
DIN69871 40 SEM16x35	16	38	35	A	M16	0.92	●
DIN69871 40 SEM22x35	22	47	35	A	M16	1.02	●
DIN69871 40 SEM27x60	27	58	60	A	M16	1.60	●
DIN69871 40 SEM32x60	32	66	60	A	M16	1.78	●
DIN69871 40 SEM40x60	40	88	60	B	M16	2.25	●
DIN69871 50 SEM16x35	16	38	35	A	M24	2.79	●
DIN69871 50 SEM22x35	22	47	35	A	M24	2.88	●
DIN69871 50 SEM22x50x200	22	50	200	A	M24	5.44	●
DIN69871 50 SEM27x35	27	58	35	A	M24	2.94	●
DIN69871 50 SEM32x35	32	66	35	A	M24	3.00	●
DIN69871 50 SEM32x78x370	32	78	370	A	M24	15.78	●
DIN69871 50 SEM40x60	40	88	60	B	M24	4.85	●
DIN69871 50 SEM60x75	60	128	75	B	M24	7.53	●

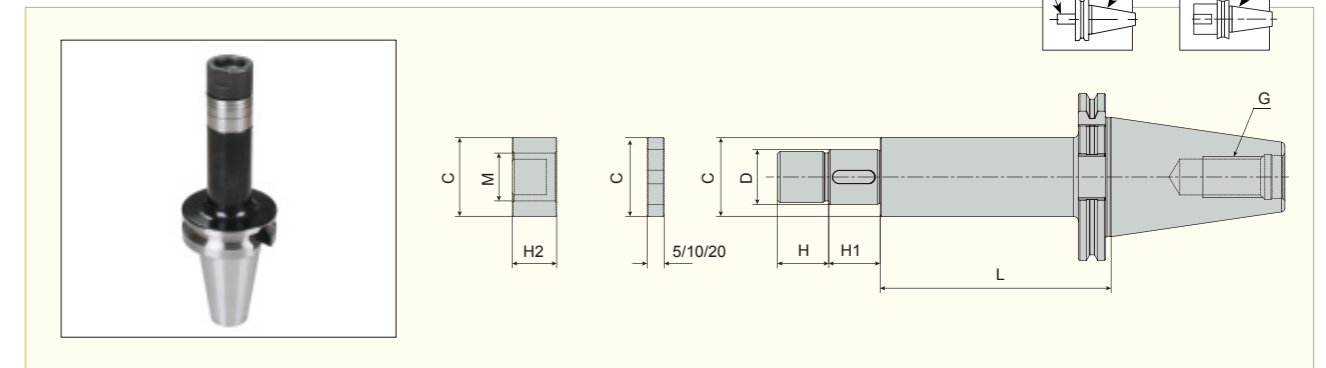
- 刀柄若需数据芯片孔, 请在型号后加 "X"
- 订货示例: 1 件 DIN69871 40 SEM16x35
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: 1 PC DIN69871 40 SEM16x35



DIN69871-A

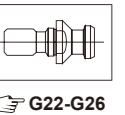
侧铣刀刀柄

Side Mill Adaptor



规格型号 Designation	D	L	H	C	H1	H2	M	G	Kg	在庫 Stock
DIN69871 40 SEMC13x105	13	105	15	20	30	12	M12	M16	1.4	○
DIN69871 40 SEMC16x105	16	105	16	26	30	13	M14x1.5	M16	1.5	○
DIN69871 40 SEMC22x105	22	105	21	34	30	18	M20x1.5	M16	1.9	○
DIN69871 40 SEMC27x120	27	120	25	40	30	21	M24x2.0	M16	2.5	○
DIN69871 40 SEMC32x90	32	90	30	46	30	26	M30x2.0	M16	2.6	○
DIN69871 50 SEMC13x105	13	105	15	20	30	12	M12	M24	3.8	○
DIN69871 50 SEMC16x120	16	120	16	26	30	13	M14x1.5	M24	4.1	○
DIN69871 50 SEMC22x135	22	135	21	34	30	18	M20x1.5	M24	4.6	○
DIN69871 50 SEMC27x135	27	135	25	40	30	21	M24x2.0	M24	5.1	○
DIN69871 50 SEMC32x135	32	135	30	46	30	26	M30x2.0	M24	5.7	○
DIN69871 50 SEMC40x135	40	135	36	55	30	31	M36x2.0	M24	6.8	○
DIN69871 50 SEMC50x150	50	150	40	90	40	36	M48x2.0	M24	9.59	○

- 刀柄若需数据芯片孔, 请在型号后加 "X"
- 订货示例: 1 件 DIN69871 40 SEMC13x105
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: 1 PC DIN69871 40 SEMC13x105



备件

Spare Parts

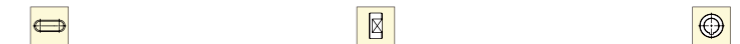


规格型号 Designation	平键 Flat key	平键锁紧螺钉 Clamping screw for flat key	大头螺钉 Clamping screw	压紧螺钉 Clamping screw
SEM16	PL10 8x6	SR55 M3x10	-	SR55 M8x25
SEM22	PL10 10x9	SR55 M5x12	SRB22-M10	SR55 M10x30
SEM27	PL10 12x10	SR55 M6x12	SRB27-M12	SR55 M12x35
SEM32	PL10 14x12	SR55 M6x16	SRB32-M16	SR55 M16x40
SEM40	PL10 16x12	SR55 M6x16	SRB40-M20	SR55 M12x50
SEM60	PL10 25x18	SR55 M10x20	-	SR55 M16x60

- 注: DIN69871 50 SEM40x60 需配平键 PL10 16x14
- Note: DIN69871 50 SEM40x60 needs flat key PL 10 16x14

备件

Spare Parts



规格型号 Designation	平键 Flat key	锁紧螺母 Lock nut	间隔套 Spacer sleeve
SEMC13	-	LM M12	FJ SEMC13x5/10/20
SEMC16	PL08 4x4x25	LM M14x1.5	FJ SEMC16x5/10/20
SEMC22	PL08 6x6x25	LM M20x1.5	FJ SEMC22x5/10/20
SEMC27	PL08 7x7x25	LM M24x1.5	FJ SEMC27x5/10/20
SEMC32	PL08 8x7x25	LM M30x2.0	FJ SEMC32x5/10/20
SEMC40	PL08 10x8x25	LM M36x2.0	FJ SEMC40x5/10/20
SEMC50	PL08 12x8x30	LM M48x2.0	FJ SEMC50x5/10/20

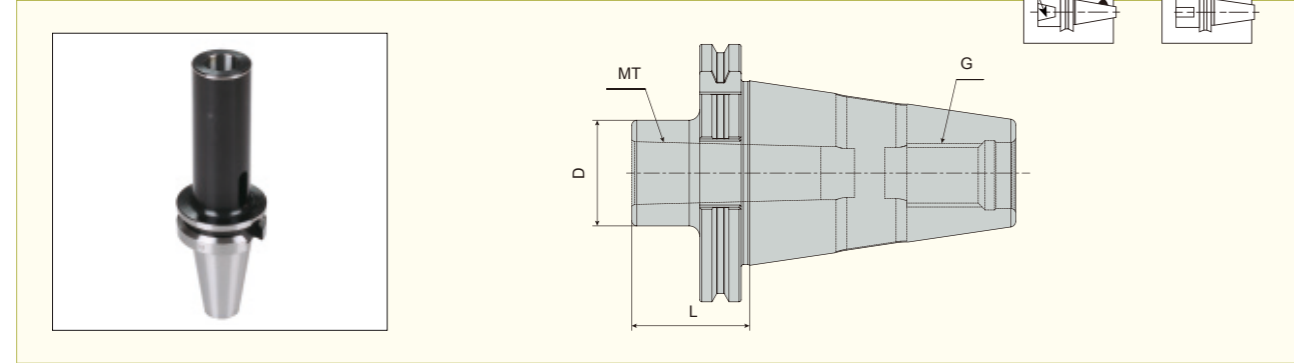
- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

DIN69871-A

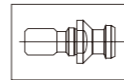
带扁尾莫氏锥孔刀柄

Morse Taper with Tang Adaptor



规格型号 Designation	MT	L	D	G	Kg	在庫 Stock
DIN69871 40 MTA1x45	1	45	25	M16	1	○
DIN69871 40 MTA1x120	1	120	25	M16	1.2	○
DIN69871 40 MTA2x45	2	45	32	M16	1	○
DIN69871 40 MTA2x120	2	120	32	M16	1.2	○
DIN69871 40 MTA3x75	3	75	40	M16	1.1	○
DIN69871 40 MTA3x135	3	135	40	M16	1.7	○
DIN69871 40 MTA4x90	4	90	50	M16	1.3	○
DIN69871 50 MTA1x45	1	45	25	M24	2.65	○
DIN69871 50 MTA1x120	1	120	25	M24	3	○
DIN69871 50 MTA2x45	2	45	32	M24	2.65	○
DIN69871 50 MTA2x135	2	135	32	M24	3.2	○
DIN69871 50 MTA3x45	3	45	40	M24	2.65	○
DIN69871 50 MTA3x150	3	150	40	M24	3.5	○
DIN69871 50 MTA4x75	4	75	50	M24	2.5	○
DIN69871 50 MTA5x105	5	105	63	M24	3.65	○

- 刀柄若需数据芯片孔，请在型号后加“X”
- 订货示例：1 件 DIN69871 40 MTA1x45
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: 1 PC DIN69871 40 MTA1x45

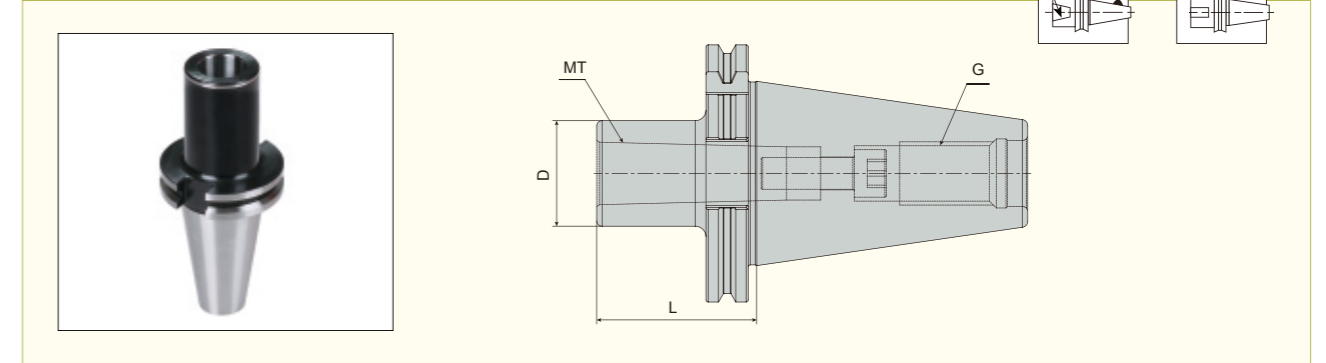


G22-G26

DIN69871-A

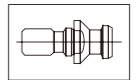
无扁尾莫氏锥孔刀柄

Morse Taper with Draw Thread Adaptor

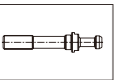


规格型号 Designation	MT	L	D	G	Kg	在庫 Stock
DIN69871 40 MTB1x45	1	45	25	M16	1.20	○
DIN69871 40 MTB2x60	2	60	32	M16	1.30	○
DIN69871 40 MTB3x75	3	75	40	M16	1.40	○
※ DIN69871 40 MTB4x90	4	90	50	M16	1.50	○
DIN69871 50 MTB1x45	1	45	25	M24	2.66	○
DIN69871 50 MTB2x45	2	45	32	M24	2.66	○
DIN69871 50 MTB3x60	3	60	40	M24	2.75	○
DIN69871 50 MTB4x75	4	75	50	M24	2.93	○
※ DIN69871 50 MTB5x120	5	120	65	M24	3.77	○

- 刀柄若需数据芯片孔，请在型号后加“X”
- 订货示例：1 件 DIN69871 40 MTB1x45
- “※” 需配专用拉钉
- If needing the hole for data chip, please add "X" at the end of the designation.
- Ordering sample: 1 PC DIN69871 40 MTB1x45
- “※” It indicates that the special pull stud needed



G22-G26



G26

备件

Spare Parts



规格型号 Designation	锁紧螺钉 Clamping screw
DIN69871 40 MTB1x45	SR22 M6x25
DIN69871 40 MTB2x60	SR155 M10x35
DIN69871 40 MTB3x75	SR155 M12x30
※ DIN69871 40 MTB4x90	-
DIN69871 50 MTB1x45	SR55 M6x25
DIN69871 50 MTB2x45	SR55 M10x35
DIN69871 50 MTB3x60	SR55 M12x35
DIN69871 50 MTB4x75	SR155 M16x40
※ DIN69871 50 MTB5x120	-

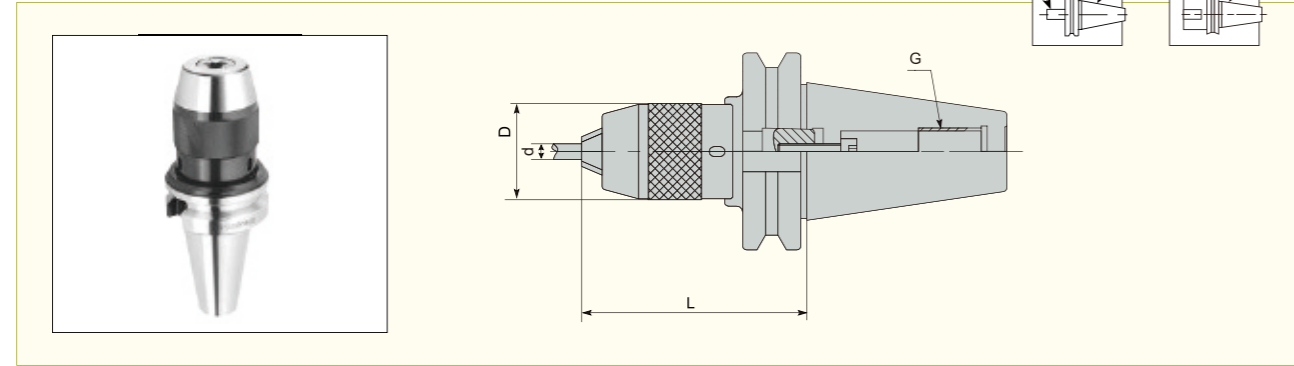
- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

DIN69871-A

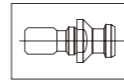
钻夹头刀柄

Drill chuck adaptor



规格型号 Designation	L	D	夹持范围 clamping range	G	Kg	在库 Stock
DIN69871 40 APU13	82	50	0.5-13	M16	1.7	○
DIN69871 40 APU16	105	57	3-16	M16	2.4	○
DIN69871 50 APU13	85	50	0.5-13	M24	3.6	○
DIN69871 50 APU16	90	57	3-16	M24	3.9	○

- 刀柄若需数据芯片孔，请在型号后加 ".X"
- 订货示例：1 件 DIN69871 40 APU13
- If needing the hole for data chip, please add ".X" at the end of the designation.
- Ordering sample: 1 PC DIN69871 40 APU13

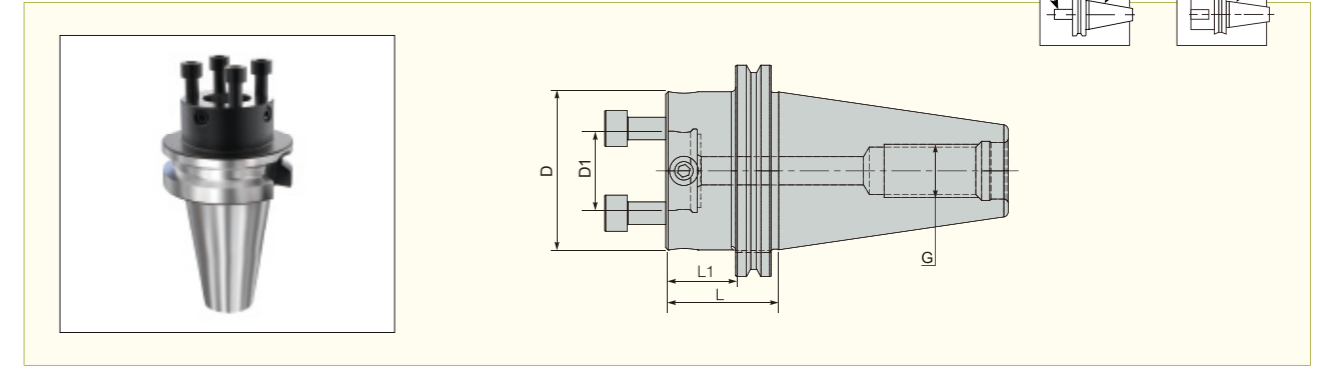


G22-G26

DIN69871-A

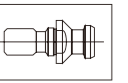
可调刀柄

Adjustable Chuck



规格型号 Designation	ISO	D	D1	L	L1	G	kg	在库 Stock
DIN69871 40 SL70x50	40	70	35	50	31	M16	1.28	○
DIN69871 50 SL70x50	50	70	35	50	31	M24	3.32	○

- 刀柄配件，请参照：D20 页
- 刀柄若需数据芯片孔，请在型号后加 ".X"
- 订货示例：1 件 DIN69871 40 SL70x55
- Spare parts, please see page D20.
- If needing the hole for data chip, please add ".X" at the end of the designation.
- Ordering sample: 1 PC DIN69871 40 SL70x55



G22-G26

HSK-A



D

刀柄系统 ADAPTORS

HSK-A

热缩刀柄	D39
Shrink Fit Adaptor	
ER 筒夹刀柄	D42
ER Collet Chuck Adaptor	
高精度 ER 筒夹刀柄	D43
High Precision ER Collet Chuck Adaptor	
侧固式刀柄 (DIN 1835-B).....	D44
Weldon Adaptor	
2° 侧固式刀柄 (DIN 1835-E)	D45
2° Weldon Adaptor(DIN1835-E)	
强力铣夹头刀柄	D45
Power Chuck Adaptor	
面铣刀柄	D46
Face Mill Adaptor	
液压刀柄	D48
Hydraulic Chuck Adaptor	
可调刀柄	D50
Adjustable Chuck	
DIN 69893 HSK A 型半成品刀柄	D50
DIN 69893 HSK A Semifinished Adaptor	

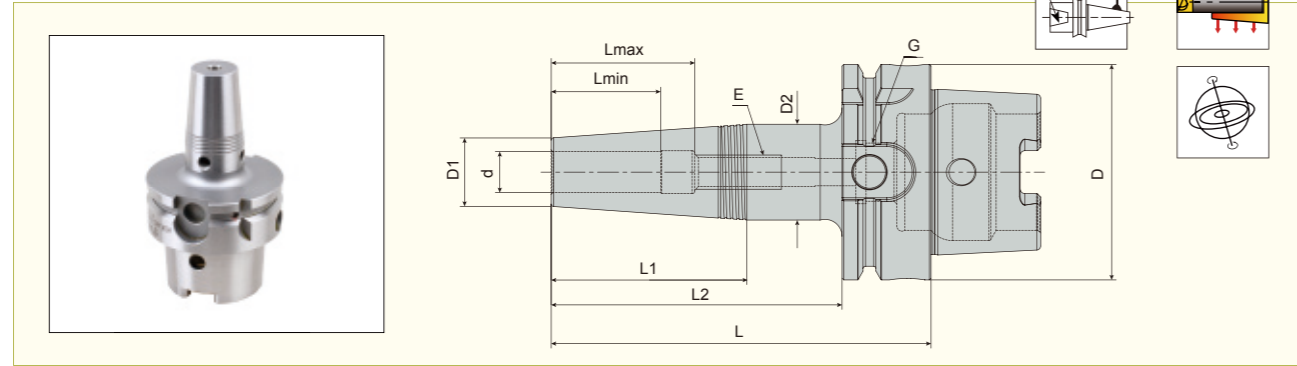
HSK-A

热缩刀柄

Shrink Fit Adaptor

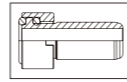
DIN69871 HSK-A 型热缩刀柄，仅用于夹持硬质合金刀具。

It is for clamping the solid carbide tools or HSS tools.



规格型号 Designation	d	D	D1	D2	L1	L2	L	Lmin	Lmax	E	G	Kg	在庫 Stock
HSK A63 SRK3x76	3	63	10	17.0	-	50	76	10	16	M6	M18x1	0.7	○
HSK A63 SRK3x111	3	63	10	21.0	79	85	111	10	16	M6	M18x1	0.8	○
HSK A63 SRK4x76	4	63	10	17.0	-	50	76	12	18	M6	M18x1	0.7	○
HSK A63 SRK4x111	4	63	10	21.0	79	85	111	12	18	M6	M18x1	0.7	○
HSK A63 SRK5x76	5	63	10	17.0	-	50	76	15	21	M6	M18x1	0.7	○
HSK A63 SRK5x111	5	63	10	21.0	79	85	111	15	21	M6	M18x1	0.8	○
HSK A63 SRK6x76	6	63	11	18.0	-	50	76	18	24	M8	M18x1	0.7	●
HSK A63 SRK6x111	6	63	11	22.0	79	85	111	18	24	M8	M18x1	0.8	●
HSK A63 SRK8x76	8	63	14	20.0	43	50	76	25	36	M6	M18x1	0.7	●
HSK A63 SRK8x111	8	63	14	23.0	64	85	111	25	36	M6	M18x1	0.8	●
HSK A63 SRK10x76	10	63	16	23.0	-	50	76	30	41	M8	M18x1	0.7	●
HSK A63 SRK10x111	10	63	16	26.0	72	85	111	30	41	M8	M18x1	0.8	●
HSK A63 SRK12x76	12	63	20	27.0	-	50	76	32	43	M10	M18x1	0.8	●
HSK A63 SRK12x111	12	63	20	30.0	72	85	111	32	43	M10	M18x1	0.9	●

- 内冷却管需单独订购
- 当工作转速 N=25,000RPM 时，刀柄的平衡等级为 G2.5
- 订货示例：HSK A63 SRK3×76
- Inner coolant tube should be ordered separately.
- It is with G2.5/25,000 RPM.
- Ordering sample: 1 PC HSK A63 SRK3×76



G21

备件

Spare Parts



E	锁紧螺钉 Clamping screw	锁紧扳手 (选配) Allen key for clamping screw
M5	SR50 M5x20.BC	KEY01 M2.5
M6	SR50 M6x20.BC	KEY01 M3
M8	SR50 M8x20.BC	KEY01 M4
M10	SR50 M10x18.BC	KEY01 M5
M12	SR50 M12x18.BC	KEY01 M6
M16	SR50 M16x20.BC	KEY01 M8

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

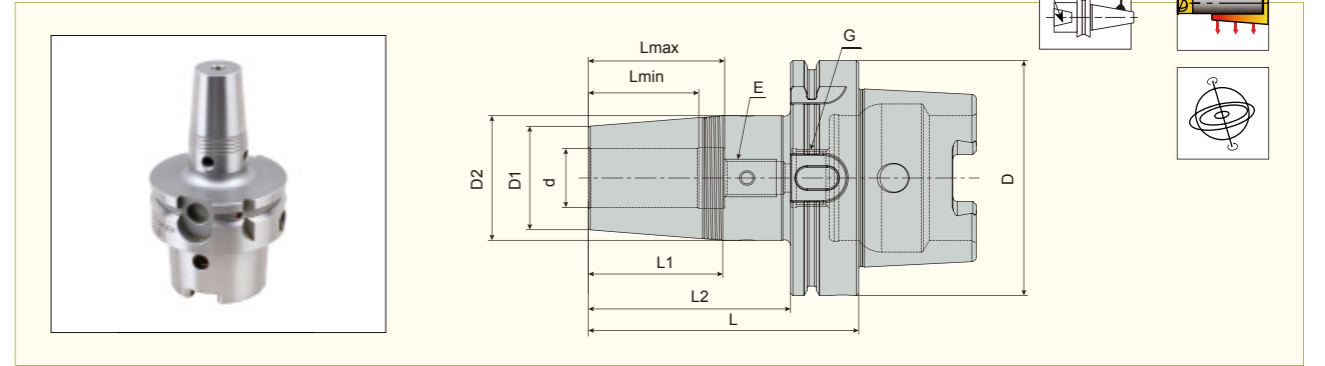
HSK-A

热缩刀柄

Shrink Fit Adaptor

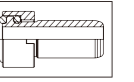
DIN69893 HSK A 型热缩刀柄，夹持整体硬质合金刀具或高速钢刀具。

It is for clamping the solid carbide tools or HSS tools.



规格型号 Designation	d	D	D1	D2	L1	L2	L	Lmin	Lmax	E	G	Kg	在庫 Stock
HSK A50 SRKIN6x80	6	50	21	27	38	54	80	25	36	M5	M16x1	0.57	○
HSK A50 SRKIN8x80	8	50	21	27	38	54	80	25	36	M6	M16x1	0.57	○
HSK A50 SRKIN10x85	10	50	24	32	51	59	85	31	42	M8	M16x1	0.64	○
HSK A50 SRKIN12x90	12	50	24	32	51	64	90	36	47	M10	M16x1	0.65	○
HSK A50 SRKIN14x90	14	50	27	34	45	64	90	36	47	M10	M16x1	0.7	○
HSK A50 SRKIN16x95	16	50	27	34	45	69	95	39	50	M10	M16x1	0.71	○
HSK A63 SRKIN6x80	6	63	21	27.0	38.0	54	80	25	36	M5	M18x1	0.8	○
HSK A63 SRKIN6x120	6	63	21	27.0	38.0	94	120	25	36	M5	M18x1	1.0	●
HSK A63 SRKIN6x160	6	63	21	27.0	38.0	134	160	25	36	M5	M18x1	1.2	●
HSK A63 SRKIN8x80	8	63	21	27.0	38.0	54	80	25	36	M6	M18x1	0.9	●
HSK A63 SRKIN8x120	8	63	21	27.0	38.0	94	120	25	36	M6	M18x1	1.0	●
HSK A63 SRKIN8x160	8	63	21	27.0	38.0	134	160	25	36	M6	M18x1	1.2	●
HSK A63 SRKIN10x85	10	63	24	32.0	51.0	59	85	31	42	M8	M18x1	0.9	●
HSK A63 SRKIN10x120	10	63	24	32.0	51.0	94	120	31	42	M8	M18x1	1.1	●
HSK A63 SRKIN10x160	10	63	24	32.0	51.0	134	160	31	42	M8	M18x1	1.4	●
HSK A63 SRKIN12x90	12	63	24	32.0	51.0	64	90	36	42	M8	M18x1	0.9	●
HSK A63 SRKIN12x120	12	63	24	32.0	51.0	94	120	36	47	M10	M18x1	1.0	●
HSK A63 SRKIN12x160	12	63	24	32.0	51.0	134	160	36	47	M10	M18x1	1.3	●
HSK A63 SRKIN14x90	14	63	27	34.0	45.0	64	90	36	47	M10	M18x1	0.9	●
HSK A63 SRKIN14x120	14	63	27	34.0	45.0	94	120	36	47	M10	M18x1	1.2	●
HSK A63 SRKIN14x160	14	63	27	34.0	45.0	134	160	36	47	M10	M18x1	1.4	●
HSK A63 SRKIN16x75	16	63	27	34.0	-	49	75	39	50	-	M18x1	0.9	●
HSK A63 SRKIN16x95	16	63	27	34.0	44.0	69	95	39	50	M12	M18x1	1.0	●
HSK A63 SRKIN16x120	16	63	27	34.0	44.0	94	120	39	50	M12	M18x1	1.1	●
HSK A63 SRKIN16x160	16	63	27	34.0	44.0	134	160	39	50	M12	M18x1	1.4	●
HSK A63 SRKIN18x95	18	63	33	42.0	57.0	69	95	39	50	M12	M18x1	1.1	●
HSK A63 SRKIN18x120	18	63	33	42.0	57.0	94	120	39	50	M12	M18x1	1.4	●
HSK A63 SRKIN18x160	18	63	33	42.0	57.0	134	160	39	50	M12	M18x1	3.1	●
HSK A63 SRKIN20x75	20	63	33	42.0	-	49	75	41	50	-	M18x1	0.9	●
HSK A63 SRKIN20x100	20	63	33	42.0	57.0	74	100	41	52	M16	M18x1	1.1	●
HSK A63 SRKIN20x120	20	63	33	42.0	57.0	94	120	41	52	M16	M18x1	1.4	●
HSK A63 SRKIN20x160	20	63	33	42.0	57.0	134	160	41	52	M16	M18x1	1.8	●
HSK A63 SRKIN25x85	25	63	44	53.0	-	59	85	47	58	-	M18x1	1.3	●
HSK A63 SRKIN25x115	25	63	44	53.0	55.0	89	115	47	58	M16	M18x1	1.7	●
HSK A63 SRKIN32x85	32	63	44	53.0	-	59	85	47	58	-	M18x1	1.1	●
HSK A63 SRKIN32x120	32	63	44	53.0	55.0	94	120	47	58	M16	M18x1	1.7	●

- 刀柄配件, 请参照: [☞ D39 页](#)
- 内冷却管需单独订购
- 当工作转速 N=25,000RPM 时，刀柄的平衡等级为 G2.5
- 订货示例：HSK A50 SRKIN6×80
- Spare parts, please see page D39.
- Inner coolant tube should be ordered separately.
- It is with G2.5/25,000 RPM.
- Ordering sample: 1 PC HSK A50 SRKIN6×80.



G21

● 标准库存
Item in stock

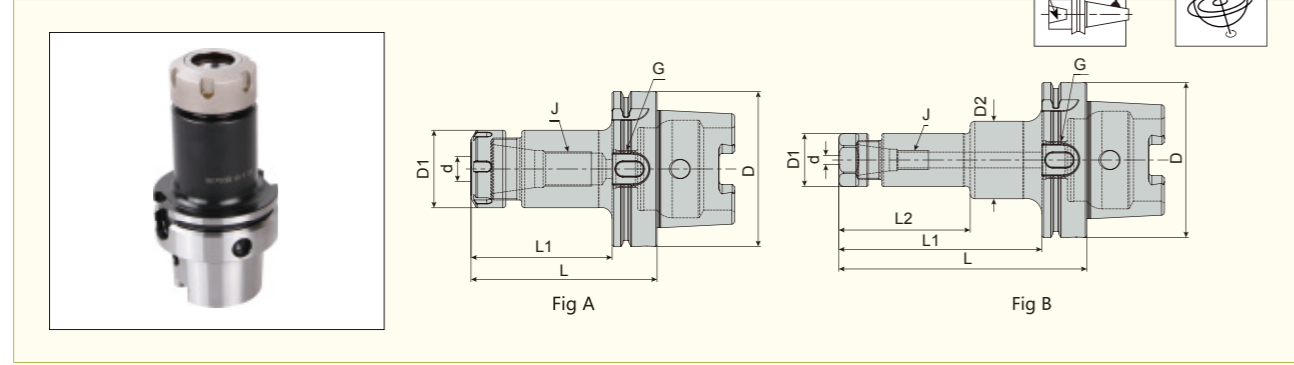
● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

HSK-A

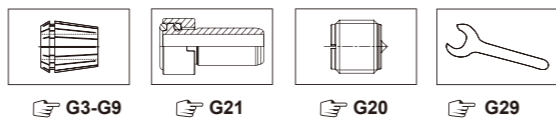
高精度 ER 筒夹刀柄

High Precision ER Collet Chuck Adaptor



规格型号 Designation	L	L1	L2	D	D1	D2	d	J	Fig	G	Kg	在庫 Stock
HSK A50 ER16x100.TOP ⁽¹⁾	100	74	-	50	28	-	0.5-10	M10	A	M16x1	0.62	○
HSK A50 ER20x100.TOP ⁽¹⁾	100	74	-	50	34	-	1-13	M12	A	M16x1	0.7	○
HSK A50 ER25x100.TOP ⁽¹⁾	100	74	28.5	50	42	41.8	1-16	M16	B	M16x1	0.84	○
HSK A50 ER32x100.TOP ⁽¹⁾	100	74	31	50	50	40.4	2-20	M22x1.5	B	M16x1	0.76	○
HSK A63 ER16x100.TOP ⁽¹⁾	100	74	-	63	28	-	0.5-10	M10	A	M18x1.0	0.8	○
HSK A63 ER16x120.TOP ⁽¹⁾	120	94	-	63	28	-	0.5-10	M10	A	M18x1.0	1.0	○
HSK A63 ER16x160.TOP ⁽¹⁾	160	134	85.6	63	28	40	0.5-10	M10	B	M18x1.0	1.4	○
HSK A63 ER20x100.TOP ⁽¹⁾	100	74	-	63	34	-	1-13	M12	A	M18x1.0	0.9	○
HSK A63 ER20x120.TOP ⁽¹⁾	120	94	-	63	34	-	1-13	M12	A	M18x1.0	1.1	○
HSK A63 ER20x160.TOP ⁽¹⁾	160	134	85	63	34	45	1-13	M12	B	M18x1.0	1.6	○
HSK A63 ER25x80.TOP ⁽¹⁾	80	54	-	63	42	-	1-16	M8	A	M18x1.0	0.9	○
HSK A63 ER25x100.TOP ⁽¹⁾	100	74	-	63	42	-	1-16	M16	A	M18x1.0	1.1	○
HSK A63 ER25x120.TOP ⁽¹⁾	120	94	-	63	42	-	1-16	M16	A	M18x1.0	1.3	○
HSK A63 ER25x160.TOP ⁽¹⁾	160	134	-	63	42	-	1-16	M16	A	M18x1.0	1.7	○
HSK A63 ER32x80.TOP ⁽¹⁾	80	54	31	63	50	40.4	2-20	M22x1.5	B	M18x1.0	0.8	○
HSK A63 ER32x100.TOP ⁽¹⁾	100	74	-	63	50	-	2-20	M22x1.5	A	M18x1.0	1.2	○
HSK A63 ER32x120.TOP ⁽¹⁾	120	94	-	63	50	-	2-20	M22x1.5	A	M18x1.0	1.5	○
HSK A63 ER32x160.TOP ⁽¹⁾	160	134	-	63	50	-	2-20	M22x1.5	A	M18x1.0	2.0	○
HSK A63 ER40x80.TOP ⁽¹⁾	80	54	34	63	63	50.4	3-26	-	B	M18x1.0	0.9	○
HSK A63 ER40x100.TOP ⁽¹⁾	100	74	34	63	63	50.4	3-26	M28x1.5	B	M18x1.0	1.2	○
HSK A63 ER40x120.TOP ⁽¹⁾	120	94	34	63	63	50.4	3-26	M28x1.5	B	M18x1.0	1.4	○
HSK A100 ER16x100.TOP ⁽²⁾	100	71	-	100	28	-	0.5-10	M10	A	M24x1.5	2.2	○
HSK A100 ER16x160.TOP ⁽²⁾	160	131	85	100	28	40	0.5-10	M10	B	M24x1.5	2.7	○
HSK A100 ER20x100.TOP ⁽²⁾	100	71	-	100	34	-	1-13	M12	A	M24x1.5	2.3	○
HSK A100 ER20x160.TOP ⁽²⁾	120	131	85	100	34	50	1-13	M12	B	M24x1.5	3.1	○
HSK A100 ER25x100.TOP ⁽²⁾	100	71	-	100	42	-	1-16	M16	A	M24x1.5	2.5	○
HSK A100 ER25x120.TOP ⁽²⁾	120	91	-	100	42	-	1-16	M16	A	M24x1.5	2.7	○
HSK A100 ER25x160.TOP ⁽²⁾	160	131	-	100	42	-	1-16	M16	A	M24x1.5	3.1	○
HSK A100 ER32x100.TOP ⁽²⁾	100	71	-	100	50	-	2-20	M22x1.5	A	M24x1.5	2.5	○
HSK A100 ER32x120.TOP ⁽²⁾	120	91	-	100	50	-	2-20	M22x1.5	A	M24x1.5	2.8	○
HSK A100 ER32x160.TOP ⁽²⁾	160	131	-	100	50	-	2-20	M22x1.5	A	M24x1.5	3.3	○
HSK A100 ER40x100.TOP ⁽²⁾	100	71	-	100	63	-	3-26	M28x1.5	A	M24x1.5	2.8	○
HSK A100 ER40x120.TOP ⁽²⁾	120	91	-	100	63	-	3-26	M28x1.5	A	M24x1.5	3.2	○
HSK A100 ER40x160.TOP ⁽²⁾	160	131	-	100	63	-	3-26	M28x1.5	A	M24x1.5	4.1	○

● 内冷却管单独订购
 ● (1)当工作转速 N=2000RPM 时，刀柄的平衡等级为 G2.5，
 (2)当工作转速 N=1200RPM 时，刀柄的平衡等级为 G6.3
 ● 订货示例：一件 HSK A63 ER16x100.TOP
 ● Inner coolant tube should be ordered separately.
 ● It is with G2.5/25,000 RPM, and G6.3/12,000 RPM.
 ● Ordering sample: 1 PC HSK A63 ER16x100.TOP.



备件

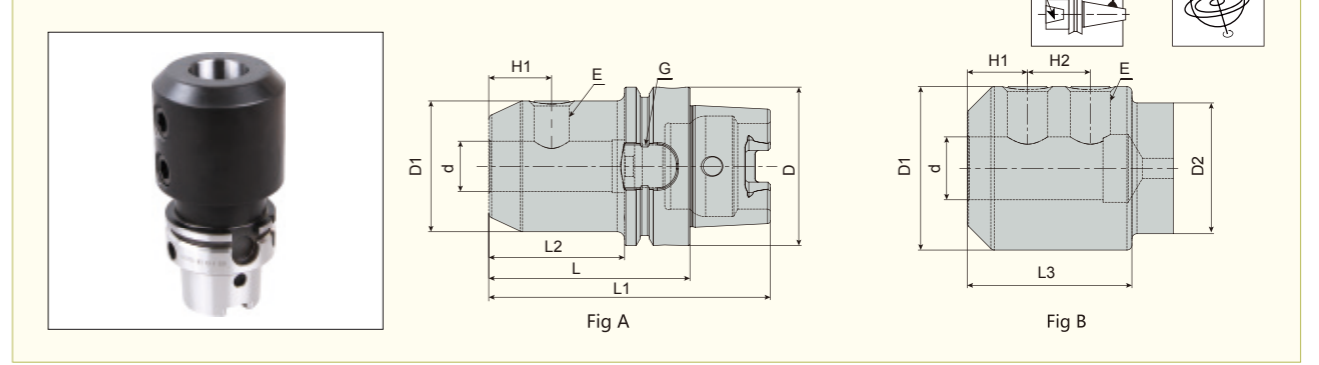
规格型号 Designation	螺帽 ER NUT
ER16.TOP	NUT ER16.TOP
ER20.TOP	NUT ER20.TOP
ER25.TOP	NUT ER25.TOP
ER32.TOP	NUT ER32.TOP
ER40.TOP	NUT ER40.TOP

● 标准库存 Item in stock
 ● 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
 ○ 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

HSK-A

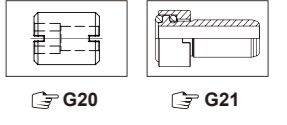
侧固式刀柄 (DIN 1835-B)

Weldon Adaptor



规格型号 Designation	d	D	D1	D2	L	L1	L2	L3	H1	H2	Fig	G	E	Kg	在庫 Stock
HSK A50 EM16x80	16	50	48	41.5	80	105	54	37	24	-	A	M16x1	M14	0.96	○
HSK A50 EM20x80	20	50	52	41.5	80	105	54	37	25	-	A	M16x1	M16	0.99	○
HSK A63 EM16x80	16	63	48	-	80	112	54	-	24	-	A	M18x1	M14	1.20	○
HSK A63 EM20x80	20	63	52	-	80	112	54	-	25	-	A	M18x1	M16	1.30	○
HSK A63 EM25x110	25	63	65	52	110	142	84	66	24	25	B	M18x1	M18x2	2.24	○
HSK A63 EM32x110	32	63	72	52	110	142	84	66	24	28	B	M18x1	M20x2	2.24	○
HSK A100 EM16x100	16	100	48	-	100	150	71	-	24	-	A	M24x1.5	M14	2.82	○
HSK A100 EM20x100	20	100	52	-	100	150	71	-	25	-	A	M24x1.5	M16	2.93	○
HSK A100 EM25x100	25	100	65	-	100	150	71	-	24	25	B	M24x1.5	M18x2	3.50	○
HSK A100 EM32x100	32	100	72	-	100	150	71	-	24	28	B	M24x1.5	M20x2	3.70	○
HSK A100 EM40x110	40	100	85	-	110	160	81	-	30	32	B	M24x1.5	M20x2	4.52	○
HSK A100 EM50x140	50	100	98	85	140	190	111	93	35	35	B	M24x1.5	M24x2	6.70	○

● 内冷却管单独订购
 ● 订货示例：一件 HSK A50 EM16x80
 ● Inner coolant tube should be ordered separately.
 ● Ordering sample: 1 PC HSK A50 EM16x80.



备件

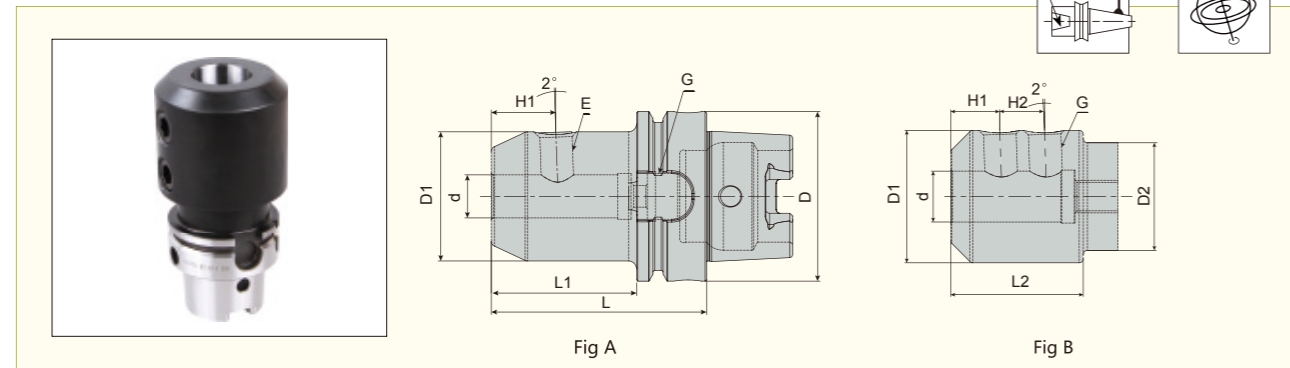
规格 Designation	锁紧螺钉 Lock screw	锁紧扳手 (选配) Allen key
EM16	SR54 M14x16	KEY01 M6
EM20	SR54 M16x16	KEY01 M8
EM25	SR54 M18x20-X	KEY01 M8
EM32	SR54 M20x20-X	KEY01 M10
EM40	SR54 M20x25-X	KEY01 M10
EM50	SR54 M24x25-X	KEY01 M12

● 标准库存 Item in stock
 ● 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
 ○ 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

HSK-A

2° 侧固式刀柄 (DIN 1835-E)

2° Weldon Adaptor (DIN1835-E)



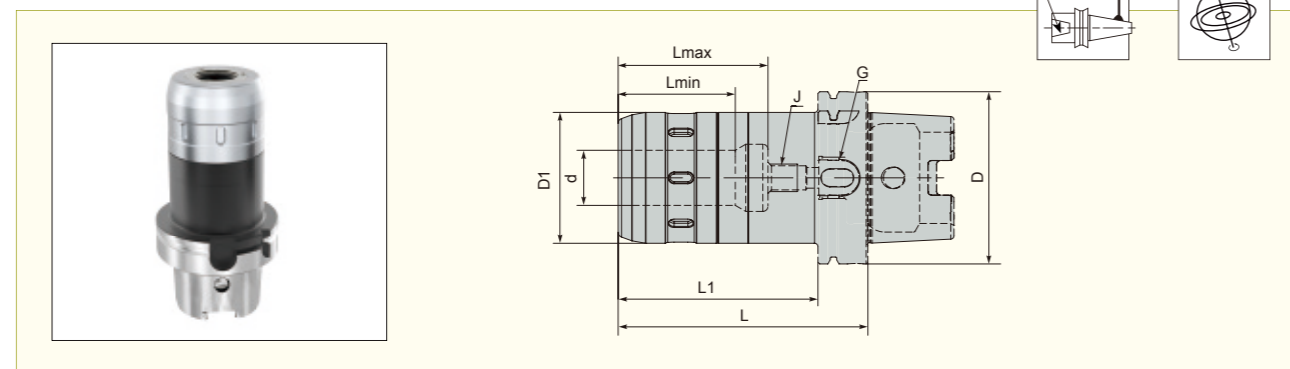
规格型号 Designation	D	D1	D2	D	L	L1	L2	H1	H2	Fig	E	J	G	Kg	在库 Stock
HSK A50 EM16x90E	50	16	-	48	90	64	-	24	-	A	M14	M12	M16x1	1.08	○
HSK A50 EM20x100E	50	20	-	52	100	74	-	25	-	A	M16	M16	M16x1	1.3	○
HSK A63 EM16x100E	63	16	-	48	100	74	-	24	-	A	M14	M12	M18x1	1.51	○
HSK A63 EM20x100E	63	20	-	52	100	74	-	25	-	A	M16	M16	M18x1	1.65	○
HSK A63 EM25x110E	63	25	52	65	110	84	65.5	24	22	B	M18x2	M16	M18x1	2.23	○
HSK A63 EM32x110E	63	32	52	72	110	84	65.5	24	24	B	M20x2	M20x2	M18x1	2.43	○
HSK A100 EM16x100E	100	16	-	48	100	71	-	24	-	A	M14	M12	M24x1.5	2.88	○
HSK A100 EM20x110E	100	20	-	52	110	81	-	25	-	A	M16	M16	M24x1.5	3.1	○
HSK A100 EM25x120E	100	25	-	65	120	91	-	24	22	B	M18x2	M20x2	M24x1.5	3.91	○
HSK A100 EM32x120E	100	32	-	72	120	91	-	24	24	B	M20x2	M20x2	M24x1.5	4.32	○

- 侧固刀柄锁紧螺钉, 请参照: D44 页
- 订货示例: 一件 HSK A50 EM16x90E
- Inner coolant tube should ,please see page D44.
- Ordering sample: 1 PC HSK A50 EM16x90E.



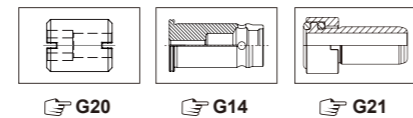
强力铣夹头刀柄

Power Chuck Adaptor



规格型号 Designation	D	D1	d	L	L1	Lmin	Lmax	G	J	Kg	在库 Stock
HSK A63 DMG32x110	63	75	32	110	84	-	90	M18x1	-	2.90	○
HSK A63 DMG32x140.C	63	76	32	140	114	68	87	M18x1	M16	3.43	○
HSK A100 DMG32x130	100	75	32	130	101	-	90	M24x1.5	-	4.00	○
HSK A100 DMG32x145.C	100	76	32	145	116	68	87	M24x1.5	M16	5.14	○

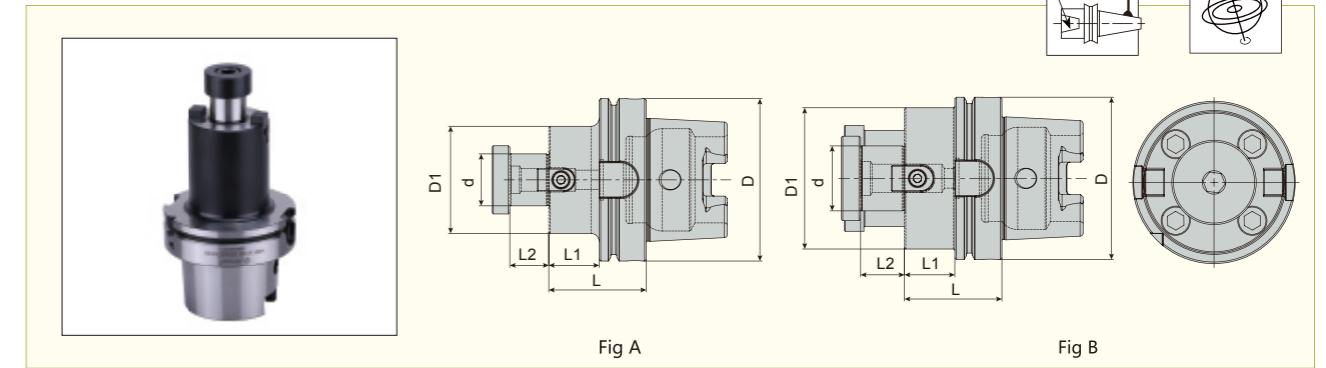
- 强力直柄筒夹, 请参照: H17 页
- 内冷却管需单独订购
- 订货示例: 1 件 HSK A63 DMG20x110
- Spare parts, please see page H17.
- Inner coolant tube should be ordered separately.
- Ordering sample: 1 HSK A63 DMG20x110.



HSK-A

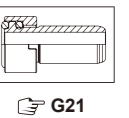
面铣刀刀柄

Face Mill Adaptor



规格型号 Designation	D	D1	d	L	L1	L2	Fig	Kg	在库 Stock
HSK A50 SEM16x50 ⁽¹⁾	50	38	16	50	24	17	A	0.6	○
HSK A50 SEM22x60 ⁽¹⁾	50	47	22	60	34	19	A	0.8	○
HSK A50 SEM27x60 ⁽¹⁾	50	58	27	60	34	21	A	0.96	○
HSK A63 SEM16x50 ⁽¹⁾	63	38	16	50	24	17	A	0.87	○
HSK A63 SEM22x50 ⁽¹⁾	63	47	22	50	24	19	A	1.07	○
HSK A63 SEM27x60 ⁽¹⁾	63	58	27	60	34	21	A	1.45	○
HSK A63 SEM32x60 ⁽¹⁾	63	66	32	60	34	24	A	1.72	○
HSK A63 SEM40x60 ⁽¹⁾	63	89	40	60	34	27	B	2.37	○
HSK A100 SEM16x50 ⁽²⁾	100	38	16	50	21	17	A	2.20	○
HSK A100 SEM22x50 ⁽²⁾	100	47	22	50	21	19	A	2.36	○
HSK A100 SEM27x50 ⁽²⁾	100	58	27	50	21	21	A	2.59	○
HSK A100 SEM32x50	100	66	32	50	21	24	A	2.91	○
HSK A100 SEM40x60 ⁽²⁾	100	87	40	60	31	27	B	3.96	○
HSK A100 SEM60x75 ⁽²⁾	100	128	60	75	46	30	B	4.96	○

- 内冷却管需单独订购
- (1)当工作转速 N=15000RPM 时, 刀柄的平衡等级为 G2.5, (2)当工作转速 N=12000RPM 时, 刀柄的平衡等级为 G6.3
- 订货示例: 一件 HSK A63 SEM22x60
- Inner coolant tube should be ordered separately.
- It is with G2.5/25,000 RPM, and G6.3/12,000 RPM.
- Ordering sample: 1 PC HSK A63 SEM22x60.



备件

Spare Parts

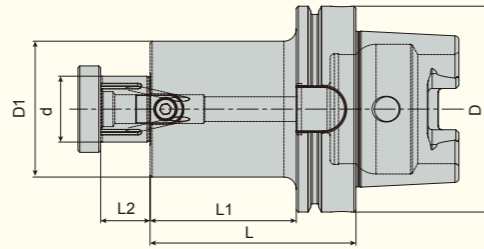
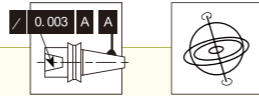
规格 Designation	平键 Flat key	平键锁紧螺钉 Clamping screw for flat key	大头螺钉 Clamping screw	压紧螺钉 Clamping screw
SEM16	PL10 8x6	SR55 M3x10	-	SR55 M8x25
SEM22	PL10 10x9	SR55 M5x12	SRB22-M10	SR55 M10x30
SEM27	PL10 12x10	SR55 M6x12	SRB27-M12	SR55 M12x35
SEM32	PL10 14x12	SR55 M6x16	SRB32-M16	SR55 M16x40
SEM40	PL10 16x12	SR55 M6x16	SRB40-M20	SR55 M12x45
SEM60	PL10 25x18	SR55 M10x20	-	SR55 M16x60

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

HSK-A

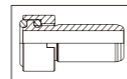
面铣刀刀柄

Face Mill Adaptor



规格型号 Designation	D	d	D1	L	L1	L2	Kg	在庫 Stock
HSK A63 SEM16x50.C	63	16	38	50	24	17	0.84	○
HSK A63 SEM22x50.C	63	22	47	50	24	19	0.97	○
HSK A63 SEM27x60.C	63	27	58	60	34	21	1.28	○
HSK A63 SEM32x60.C	63	32	66	60	34	24	1.38	○
HSK A100 SEM16x100.C	100	16	38	100	71	17	2.60	○
HSK A100 SEM22x100.C	100	22	47	100	71	19	2.94	○
HSK A100 SEM27x100.C	100	27	58	100	71	21	3.60	○
HSK A100 SEM32x100.C	100	32	66	100	71	24	4.62	○

- 内冷却管需单独订购
- 当工作转速 N=25,000RPM 时, 刀柄的平衡等级为 G2.5
- 订货示例: 1 件 HSK A63 SEM16x50.C
- Inner coolant tube should be ordered separately.
- It is with G2.5/25,000 RPM.
- Ordering sample: 1 PC HSK A63 SEM16x50.C.



G21

备件

Spare Parts



规格 Designation	平键 Flat key	平键锁紧螺钉 Clamping screw for flat key	大头螺钉 Clamping screw	压紧螺钉 Clamping screw
SEM16	PL10 8x6	SR55 M3x10	-	SR55 M8x25
SEM22	PL10 10x9	SR55 M5x12	SRB22-M10	SR55 M10x30
SEM27	PL10 12x10	SR55 M6x12	SRB27-M12	SR55 M12x35
SEM32	PL10 14x12	SR55 M6x16	SRB32-M16	SR55 M16x40

● 标准库存
Item in stock

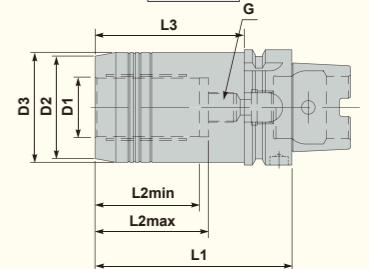
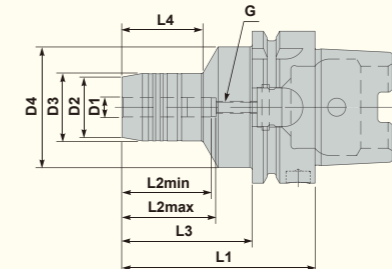
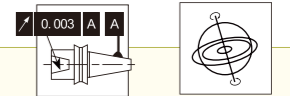
● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

HSK-A

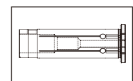
液压刀柄

Hydraulic Chuck Adaptor

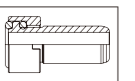


规格型号 Designation	D1	D2	D3	D4	L1	L2max	L2min	L3	L4	G	Fig	在庫 Stock
HSK A50 HYDRO 6x80	6	23	26	42	80	37	27	54	35	M5	FigA	●
HSK A50 HYDRO 8x80	8	25	28	42	80	37	27	54	36	M6	FigA	●
HSK A50 HYDRO 10x85	10	27	30	42	85	42	32	59	41	M8x1.0	FigA	●
HSK A50 HYDRO 12x90	12	29	32	42	90	47	37	64	47	M10x1.0	FigA	●
HSK A50 HYDRO 14x90	14	30	34	42	90	47	37	64	49	M10x1.0	FigA	●
HSK A50 HYDRO 16x95	16	34	38	42	95	52	42	69	52	M12x1.0	FigA	●
HSK A50 HYDRO 18x95	18	36	40	42	95	52	42	69	52	M12x1.0	FigA	●
HSK A50 HYDRO 20x100	20	38	42	-	100	52	42	74	-	M10x1.0	FigB	●
HSK A63 HYDRO 6x80	6	23	26	50	80	37	27	54	33	M5	FigA	●
HSK A63 HYDRO 6x150	6	23	26	50	150	37	27	124	103	M5	FigA	●
HSK A63 HYDRO 6x200	6	23	26	50	200	37	27	174	153	M5	FigA	●
HSK A63 HYDRO 8x80	8	25	28	50	80	37	27	54	33	M6	FigA	●
HSK A63 HYDRO 8x150	8	25	28	50	150	37	27	124	104	M6	FigA	●
HSK A63 HYDRO 8x200	8	25	28	50	200	37	27	174	154	M6	FigA	●
HSK A63 HYDRO 10x85	10	27	30	50	85	42	32	59	39	M8x1.0	FigA	●
HSK A63 HYDRO 10x150	10	27	30	50	150	42	32	124	104	M8x1.0	FigA	●
HSK A63 HYDRO 10x200	10	27	30	50	200	42	32	174	154	M8x1.0	FigA	●
HSK A63 HYDRO 12x90	12	29	32	50	90	47	37	64	44	M10x1.0	FigA	●
HSK A63 HYDRO 12x150	12	29	32	50	150	47	37	124	105	M10x1.0	FigA	●
HSK A63 HYDRO 12x200	12	29	32	50	200	47	37	174	155	M10x1.0	FigA	●
HSK A63 HYDRO 14x90	14	30	34	50	90	47	37	64	46	M10x1.0	FigA	●
HSK A63 HYDRO 14x150	14	30	34	50	150	47	37	124	105	M10x1.0	FigA	●
HSK A63 HYDRO 14x200	14	30	34	50	200	47	37	174	155	M10x1.0	FigA	●
HSK A63 HYDRO 16x95	16	34	38	50	95	52	42	69	52	M12x1.0	FigA	●
HSK A63 HYDRO 16x150	16	34	38	50	150	52	42	124	106.5	M12x1.0	FigA	●
HSK A63 HYDRO 16x200	16	34	38	50	200	52	42	174	156.5	M12x1.0	FigA	●
HSK A63 HYDRO 18x95	18	36	40	50	95	52	42	69	52	M12x1.0	FigA	●
HSK A63 HYDRO 18x150	18	36	40	50	150	52	42	124	107	M12x1.0	FigA	●
HSK A63 HYDRO 18x200	18	36	40	50	200	52	42	174	157	M12x1.0	FigA	●
HSK A63 HYDRO 20x100	20	38	42	50	100	52	42	74	58	M16x1.0	FigA	●

- 在 2.5 x D 处回转精度 < 0.003 mm
- 转速为 25,000 RPM 时动平衡等级达到 G2.5 或 Umax < 1g mm
- 用于自动换刀
- 使用减径套可夹持更多直径尺寸
- 订货示例: 1 件 HSK A63 HYDRO 10x85
- Run-out accuracy < 0.003 mm at 2.5 x D
- Balancing grade G2.5 at 25,000 RPM or Umax < 1g mm
- For automatic tool change
- Additional shank diameters can be clamped using intermediatesleeves
- Ordering sample: 1 PC HSK A63 HYDRO 10x85



G15



G21

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

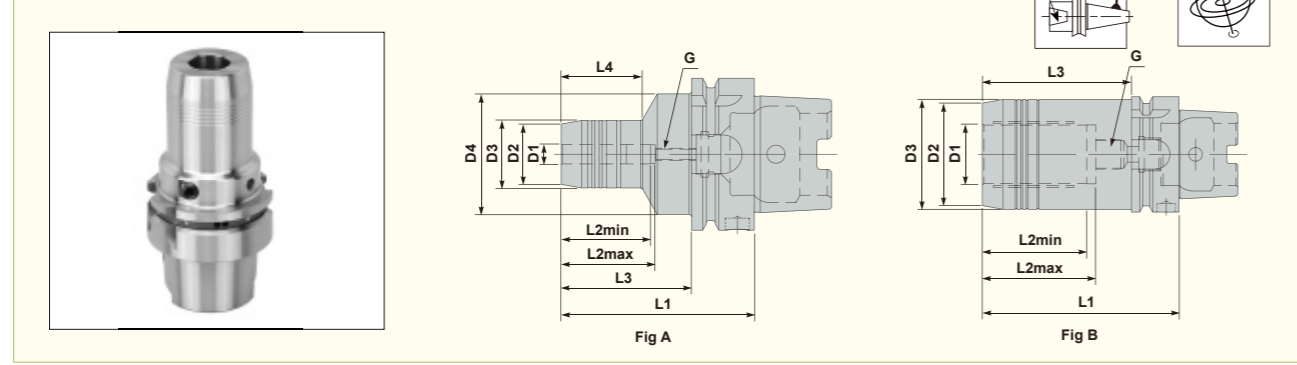
刀柄系统
ADAPTORS

刀柄系统
ADAPTORS

HSK-A

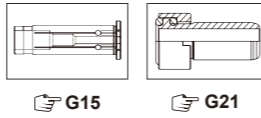
液压刀柄

Hydraulic Chuck Adaptor



规格型号 Designation	D1	D2	D3	D4	L1	L2max	L2min	L3	L4	G	Fig	在庫 Stock
HSK A63 HYDRO 20x150	20	38	42	50	150	52	42	124	108	M12x1.0	FigA	●
HSK A63 HYDRO 20x200	20	38	42	50	200	52	42	174	158	M12x1.0	FigA	●
HSK A63 HYDRO 25x120	25	46	50	-	120	58	48	94	-	M16x1.0	FigB	●
HSK A63 HYDRO 25x150	25	46	50	-	150	58	48	124	-	M16x1.0	FigB	●
HSK A63 HYDRO 25x200	25	46	50	-	200	58	48	174	-	M16x1.0	FigB	●
HSK A63 HYDRO 32x125	32	56	60	53	125	62	52	99	83	M16x1.0	FigA	●
HSK A100 HYDRO 6x85	6	23	26	50	85	37	27	56	29	M5	FigA	●
HSK A100 HYDRO 6x150	6	23	26	50	150	37	27	121	100	M5	FigA	●
HSK A100 HYDRO 6x200	6	23	26	63	200	37	27	171	144	M5	FigA	●
HSK A100 HYDRO 8x85	8	25	28	50	85	37	27	56	29	M6	FigA	●
HSK A100 HYDRO 8x200	8	25	28	63	200	37	27	171	144.5	M6	FigA	●
HSK A100 HYDRO 10x90	10	27	30	50	90	42	32	61	35	M8x1.0	FigA	●
HSK A100 HYDRO 10x150	10	27	30	63	150	42	32	121	95	M8x1.0	FigA	●
HSK A100 HYDRO 10x200	10	27	30	50	200	42	32	171	151	M8x1.0	FigA	●
HSK A100 HYDRO 12x95	12	29	32	50	95	47	37	66	40	M10x1.0	FigA	●
HSK A100 HYDRO 12x150	12	29	32	63	150	47	37	121	95.5	M10x1.0	FigA	●
HSK A100 HYDRO 12x200	12	29	32	63	200	47	37	171	145.5	M10x1.0	FigA	●
HSK A100 HYDRO 14x95	14	30	34	63	95	47	37	66	42	M10x1.0	FigA	●
HSK A100 HYDRO 14x150	14	30	34	50	150	47	37	121	97	M10x1.0	FigA	●
HSK A100 HYDRO 14x200	14	30	34	50	200	47	37	171	147	M10x1.0	FigA	●
HSK A100 HYDRO 16x150	16	34	38	63	150	52	42	121	97.5	M12x1.0	FigA	●
HSK A100 HYDRO 16x200	16	34	38	63	200	52	42	171	147.5	M12x1.0	FigA	●
HSK A100 HYDRO 18x200	18	36	40	63	200	52	42	171	148	M12x1.0	FigA	●
HSK A100 HYDRO 20x150	20	38	42	63	150	52	42	121	99	M12x1.0	FigA	●
HSK A100 HYDRO 20x200	20	38	42	63	200	52	42	171	149	M12x1.0	FigA	●
HSK A100 HYDRO 25x200	25	46	50	63	200	58	48	171	136	M16x1.0	FigA	●
HSK A100 HYDRO 32x150	32	56	60	-	150	62	52	121	-	M16x1.0	FigB	●
HSK A100 HYDRO 32x200	32	56	60	-	200	62	52	171	-	M16x1.0	FigB	●

- 在 2.5 x D 处回转精度 < 0.003 mm
- 转速为 25,000 RPM 时动平衡等级达到 G2.5 或 Umax < 1g mm
- 用于自动换刀
- 使用减径套可夹持更多直径尺寸
- 订货示例: 1 件 HSK A63 HYDRO 10x85
- Run-out accuracy < 0.003 mm at 2.5 x D
- Balancing grade G2.5 at 25,000 RPM or Umax < 1g mm
- For automatic tool change
- Additional shank diameters can be clamped using intermediatesleeves
- Ordering sample: 1 PC HSK A63 HYDRO 10x85

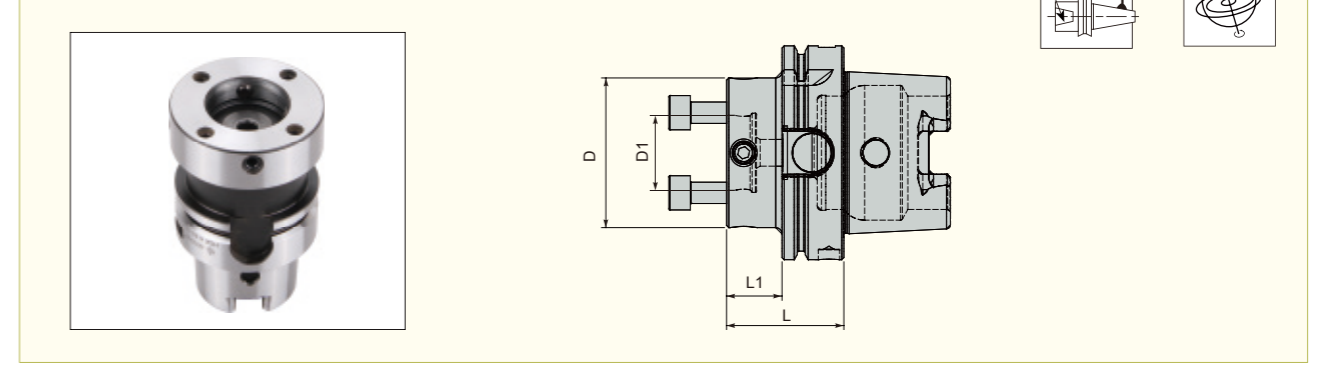


- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

HSK-A

可调刀柄

Adjustable Chuck

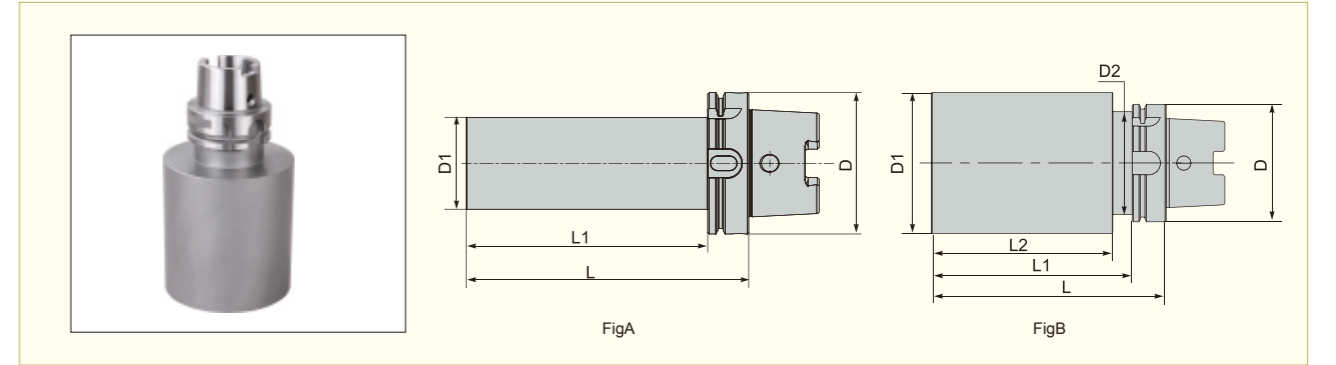


规格型号 Designation	ISO	D	D1	L	L1	kg	在庫 Stock
HSK A63 SL70x60	63	70	35	60	34	1.24	○
HSK A100 SL70x55	100	70	35	55	26	2.63	○

- 适配接杆需单独订购, 请参照: D54-D56 页
- 刀柄配件, 请参照: D20 页
- 订货示例: 1 件 HSK A63 SL70x60
- Extension should be ordered separately, please see page D54-D56.
- Spare parts, please see page D20.
- Ordering sample: 1 PC HSK A63 SL70x60

DIN 69893 HSK A 型半成品刀柄

DIN 69893 HSK A Semifinished Adaptor



规格型号 Designation	D	D1	D2	L	L1	L2	Fig	kg	在庫 Stock
HSK A63 B 64x250	63	64	52.5	250	224	207.5	B	7	○
HSK A63 B 80x200	63	80	52.5	200	174	157.5	B	7	○
HSK A63 B 100x300	63	100	52.5	300	274	257.5	B	7.4	○
HSK A63 B 130x150	63	130	52.5	150	124	107.5	B	10.42	○
HSK A63 B 150x170	63	150	52.5	170	144	127.5	B	10.42	○
HSK A100 B 65x200	100	65	-	200	171	-	A	6.32	○
HSK A100 B 80x200	100	80	-	200	171	-	A	8.57	○
HSK A100 B 104x250	100	104	87.5	250	221	205	B	12.06	○
HSK A100 B 145x200	100	145	87.5	200	171	155	B	11.81	○
HSK A100 B 100x300	100	100	87.5	300	271	255	B	18.1	○

- 柄材质: 合金钢 柄部硬度 46-50HRC 头部硬度 36-40HRC
- 柄部接口内具有连接冷却液套管的螺纹接口
- Material: alloy steel, hardness 46-50HRC
- The shank connector has a threaded connection to the coolant casing pipe

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

MODULAR EXTENSIONS FOR ADAPTORS

模块式刀柄接杆



D 刀柄系统 ADAPTORS

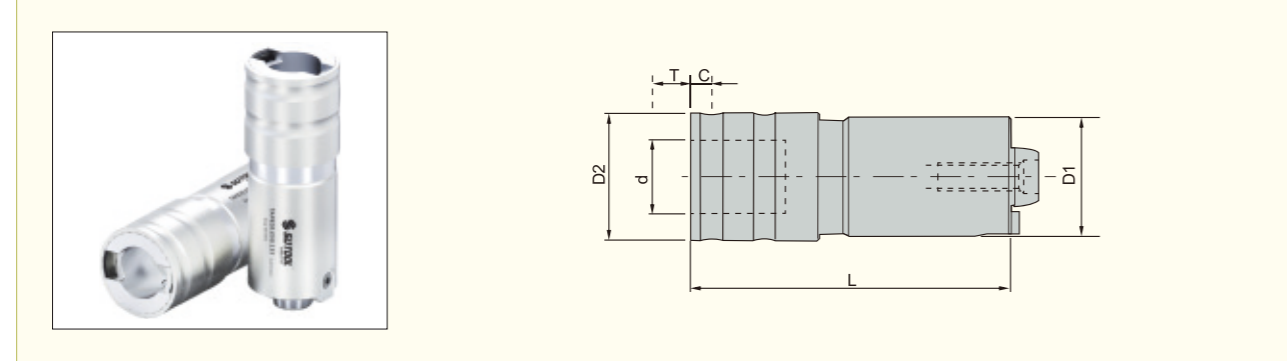
模块式刀柄接杆 Modular Extensions for Adaptors

攻丝刀柄接杆	D53
Extension for Tapping Chuck Adaptor	
液压刀柄接杆	D54
Extension for Hydraulic Chuck Adaptor	
ER 刀柄接杆	D55
Extension for ER Collet Chuck Adaptor	
热缩刀柄接杆	D56
Extension for Shrink Fit Adaptor	

MODULAR EXTENSIONS FOR ADAPTORS 模块式刀柄接杆

攻丝刀柄接杆

Extension for Tapping Chuck Adaptor



规格型号 Designation	D1	d	D2	L	长度补偿 Length compensation		攻丝范围 Tap	Kg	在库 Stock
					T	C			
TAP412.E40.110	40	19	36	110	9	5	M4-M12	0.7	○
TAP820.E50.135	50	31	53.5	135	16	9	M8-M20	1.7	○
TAP1433.E63.180	63	48	78	180	26	15	M14-M33	4.1	○
TAP2248.E63.196	63	60	96	196	28	17	M22-M48	6.2	○

- 适配刀柄需单独订购, 请参照: A019-A023 页
- 订货示例: 1 件 TAP412.E40.110
- 种规格的攻丝刀柄接杆均有对应的攻丝快换夹头, 请参照: G12 页
- The adaptor should be ordered separately, please see page A019-A023.
- Ordering sample: 1 PC TAP412.E40.110
- Multiple quick change chucks for corresponding tool holder, please see page G12

备件

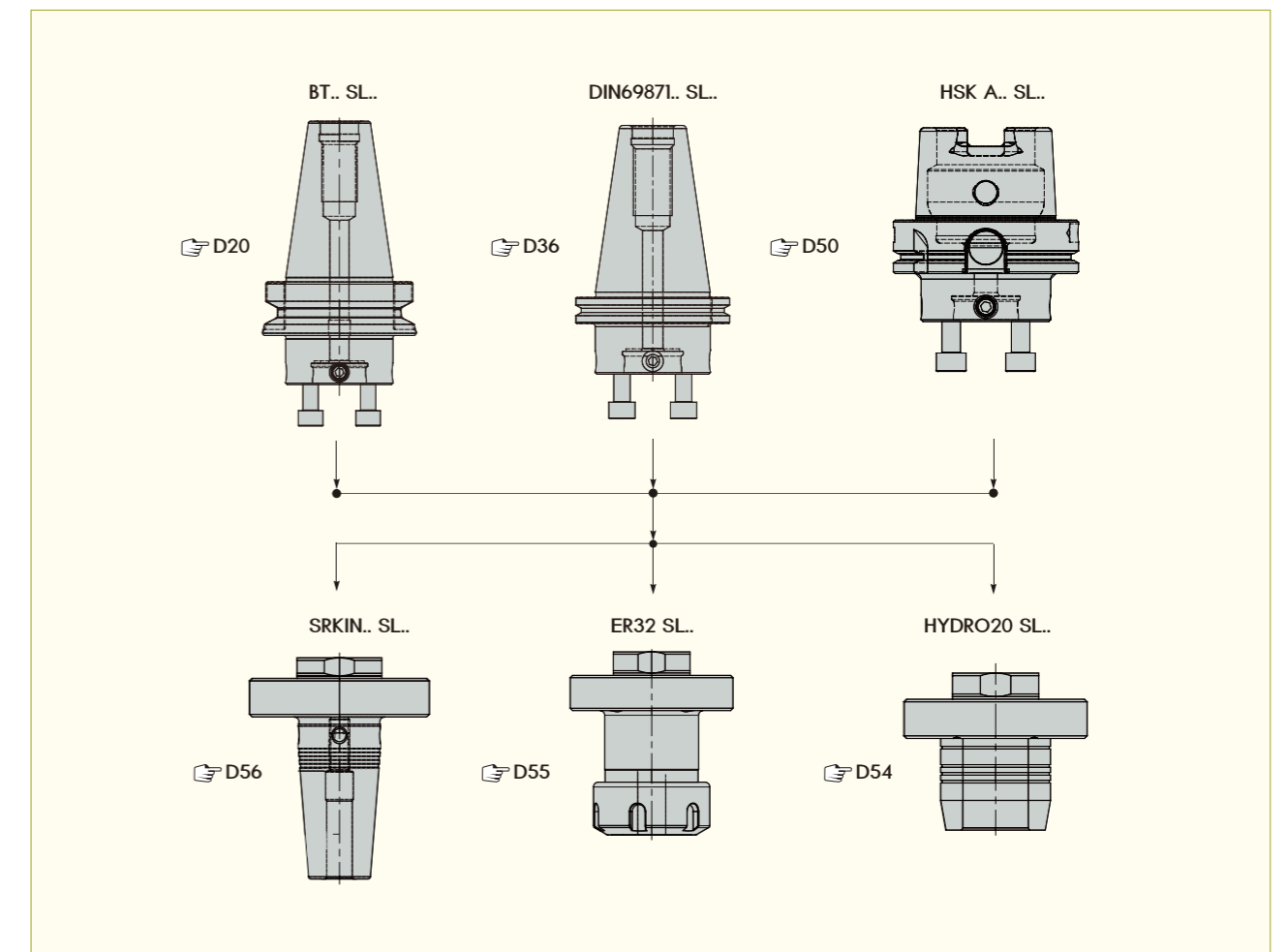
Spare Parts

D1	平键 Flat key	平键锁紧螺钉 Clamping screw for flat key	平键锁紧扳手 Allen key for clamping screw
D1=40	PL03 10x5	SR57 M4x10	KEY01 M2.5
D1=50	PL04 12x9	SR55 M5x12	KEY01 M4
D1=63	PL04 14x12	SR55 M5x12	KEY01 M4

MODULAR EXTENSIONS FOR ADAPTORS 模块式刀柄接杆

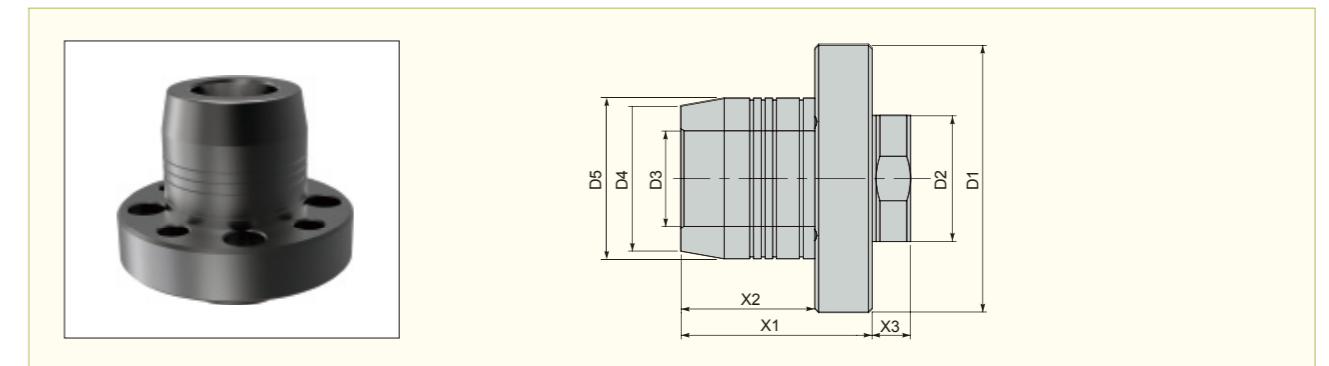
模块式刀柄接杆组合示意图

Combinational Figure



液压刀柄接杆

Extension for Hydraulic Chuck Adaptor



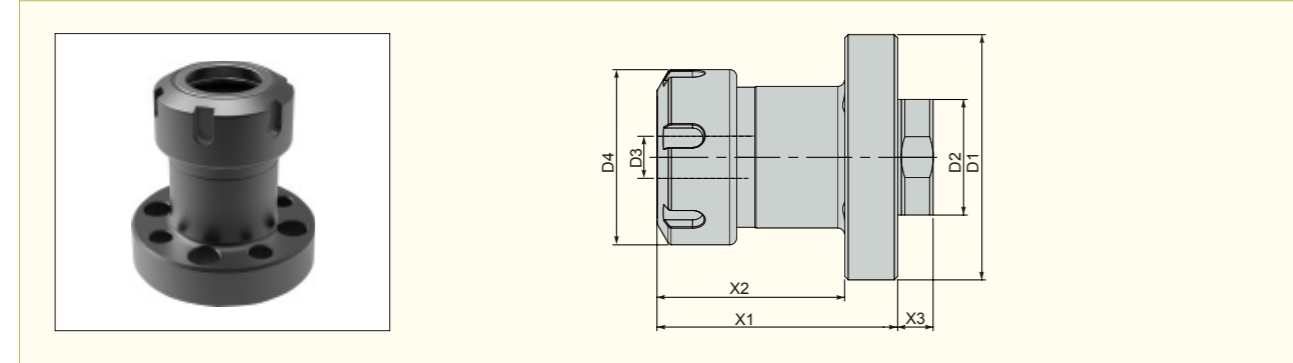
规格型号 Designation	D1	D2	D3	D4	D5	X1	X2	X3	在库 Stock
HYDRO 20.SL70.50	70	35	20	38	42	50	35	10	○

- 适配刀柄需单独订购, 请参照: D20 页, D36 页, D50 页
- 订货示例: 1 件 HYDRO 20.SL70.50
- The adaptor should be ordered separately, please see page D20,D36,D50.
- Ordering sample: 1 PC HYDRO 20.SL70.50

MODULAR EXTENSIONS FOR ADAPTORS 模块式刀柄接杆

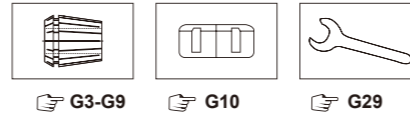
ER 刀柄接杆

Extension for ER Collet Chuck Adaptor



规格型号 Designation	D1	D2	D3	D4	X1	X2	X3	在库 Stock
ER32.SL70.75	70	35	2-20	50	75	53	10	○

- 适配刀柄需单独订购，请参照：D20页, D36页, D50页
- 订货示例：1件 ER32.SL70.75
- The adaptor should be ordered separately, please see page D20, D36, D50.
- Ordering sample: 1 PC ER32.SL70.75

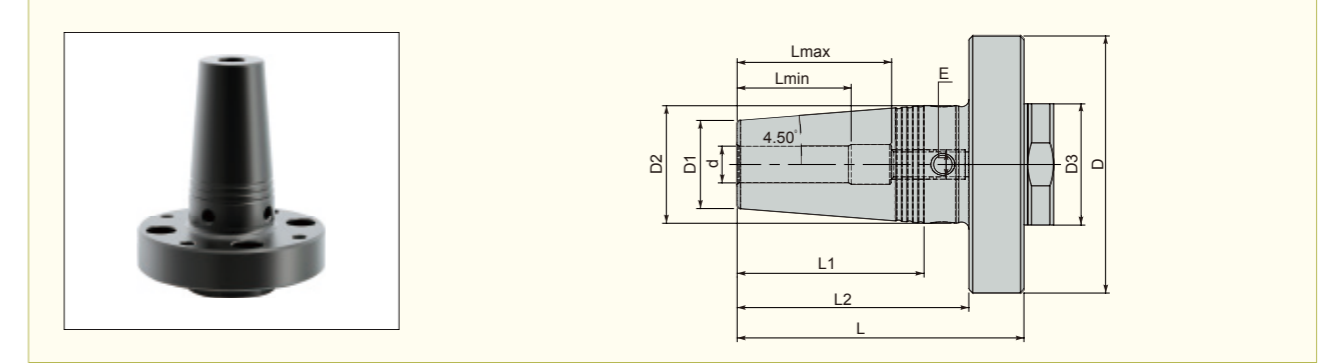


☞ G3-G9 ☞ G10 ☞ G29

MODULAR EXTENSIONS FOR ADAPTORS 模块式刀柄接杆

热缩刀柄接杆

Extension for Shrink Fit Adaptor



规格型号 Designation	d	D	D1	D2	D3	L1	L2	L	Lmin	Lmax	E	Kg	在库 Stock
SRKIN6.SL70.80	6	70	21	27.0	35	38.0	65	80	25	36	M5	0.7	○
SRKIN8.SL70.80	8	70	21	27.0	35	38.0	65	80	25	36	M6	0.7	○
SRKIN10.SL70.80	10	70	24	32.0	35	51.0	65	80	31	42	M8	0.8	○
SRKIN12.SL70.80	12	70	24	32.0	35	51.0	65	80	36	47	M8	0.8	○
SRKIN14.SL70.80	14	70	27	34.0	35	45.0	65	80	36	47	M10	0.9	○

- 适配刀柄需单独订购，请参照：D20页, D36页, D50页
- 订货示例：1件 SRKIN6.SL70.80
- The adaptor should be ordered separately, please see page D20, D36, D50.
- Ordering sample: 1 PC SRKIN6.SL70.80

备件

Spare Parts



E	锁紧螺钉 Clamping screw	锁紧扳手 Allen key for clamping screw
M5	SR50 M5x20.BC	KEY01 M2.5
M6	SR50 M6x20.BC	KEY01 M3
M8	SR50 M8x20.BC	KEY01 M4
M10	SR50 M10x18.BC	KEY01 M5
M12	SR50 M12x18.BC	KEY01 M6
M16	SR50 M16x20.BC	KEY01 M8

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

TECHNICAL INFORMATION

技术资料



D

刀柄系统 ADAPTORS

技术资料 Technical Information

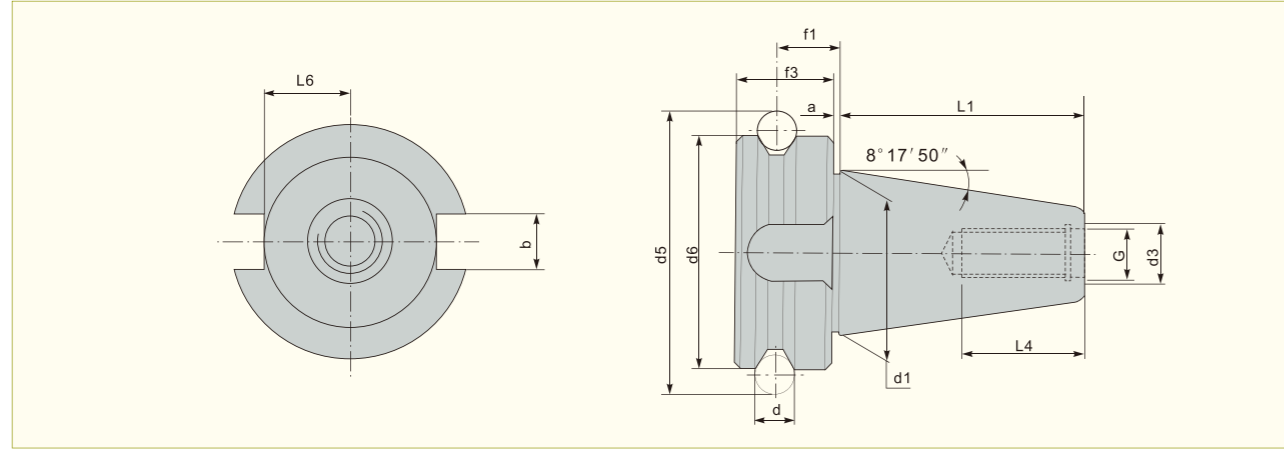
BT MAS403 锥柄标准	D59
BT MAS403 Taper-shank Standard	
DIN69871 锥柄标准	D60
DIN69871 Taper-shank Standard	
HSK 锥柄标准	D61
HSK Taper-shank Standard	
其它技术资料	D63
Additional Technical Information	
换算表	D69
Conversion Table	
螺纹攻牙钻孔直径对照表	D72
Thread Tapping Hole Diameter Comparison Table	

TECHNICAL INFORMATION 技术资料

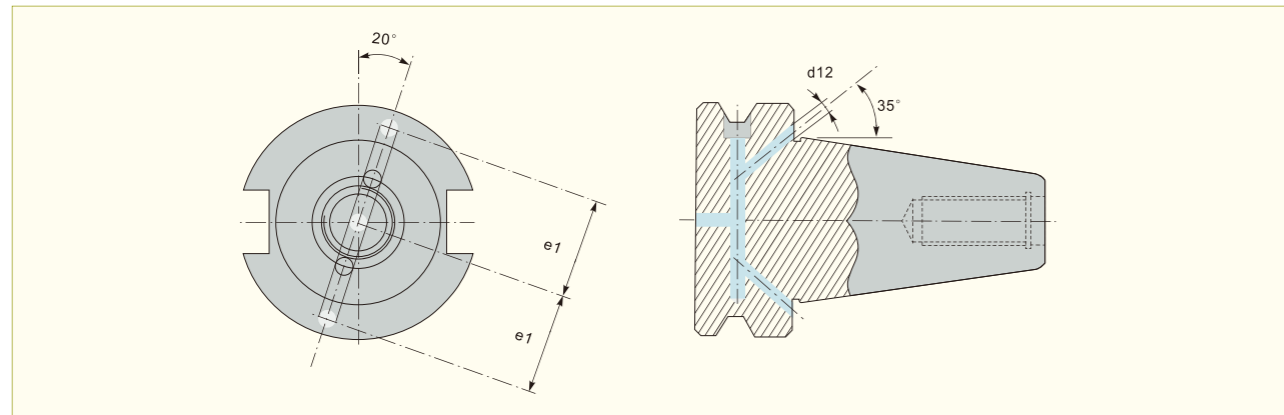
BT MAS403

BT MAS403 锥柄标准
BT MAS403 Taper-shank Standard

BT MAS403-A 型 /TypeA



BT MAS403-B 型 /TypeB



规格型号 Designation	a	b(H12)	d	d1	G	d3(H8)	d5	d6(h8)	f1±0.1
BT 30	2	16.19	8	31.75	M12	12.5	56.12	46	13.6
BT 40	2	16.2	10	44.45	M16	17	75.656	63	16.6
BT 50	3	25.8	15	69.85	M24	25	118.99	100	23.2

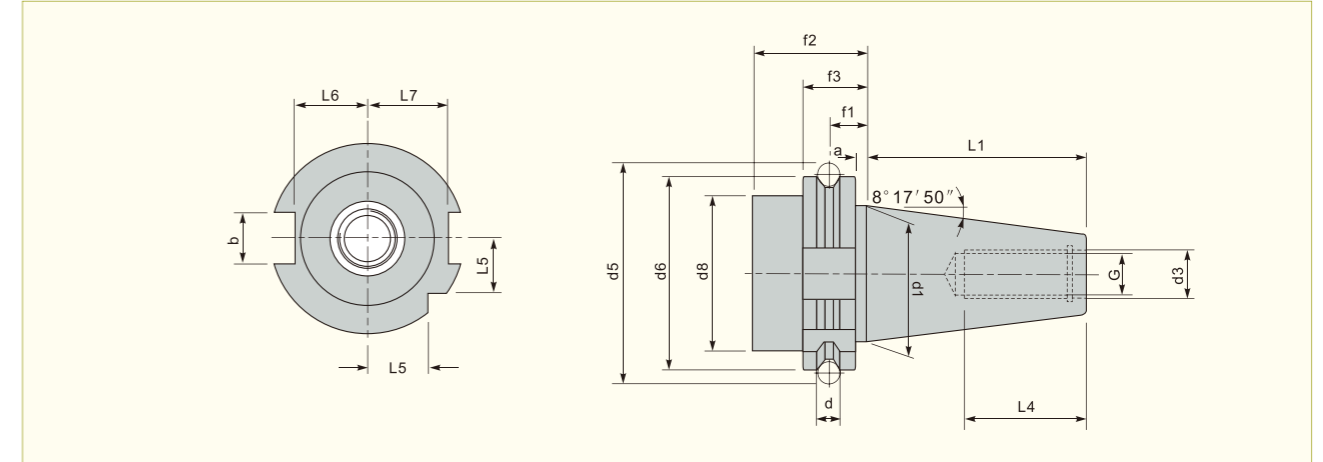
规格型号 Designation	f3	L1±0.2	L4min	L6±0.2	e1±0.1	d12	TAPER AT3
BT 30	20	48.4	24	16.3	16.2	4	0.002
BT 40	25	65.4	30	22.6	22.5	4	0.003
BT 50	35	101.8	45	35.4	35.3	6	0.004

TECHNICAL INFORMATION 技术资料

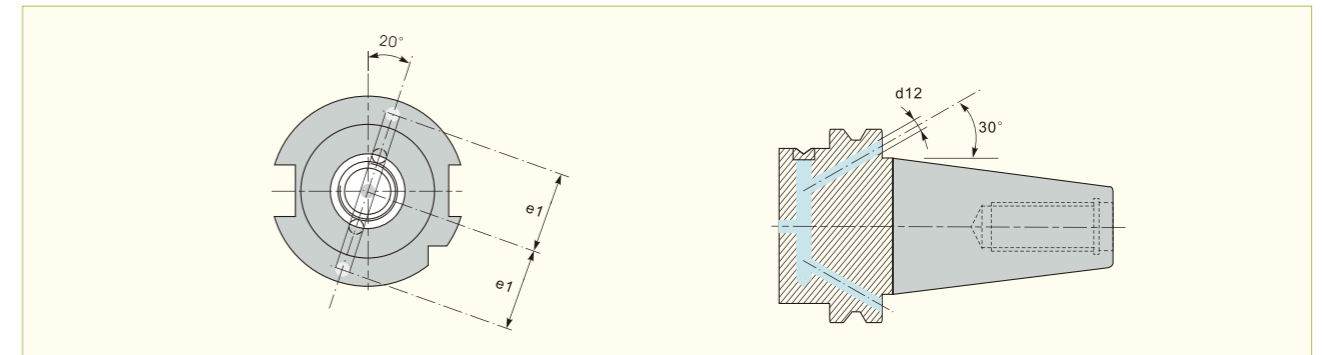
DIN69871-A

DIN69871 锥柄标准
DIN69871 Taper-shank Standard

DIN69871-A 型 /TypeA



DIN69871-B 型 /TypeB



规格型号 Designation	a±0.1	b(H12)	d	d1	G	d3(H7)	d5±0.05	d6	d8max	f1±0.1
DIN69871 30	3.2	16.1	7	31.75	M12	13	59.3	50	45	11.1
DIN69871 40	3.2	16.1	7	44.45	M16	17	72.3	63.55	50	11.1
DIN69871 50	3.2	25.7	7	69.85	M24	25	107.25	97.5	80	11.1

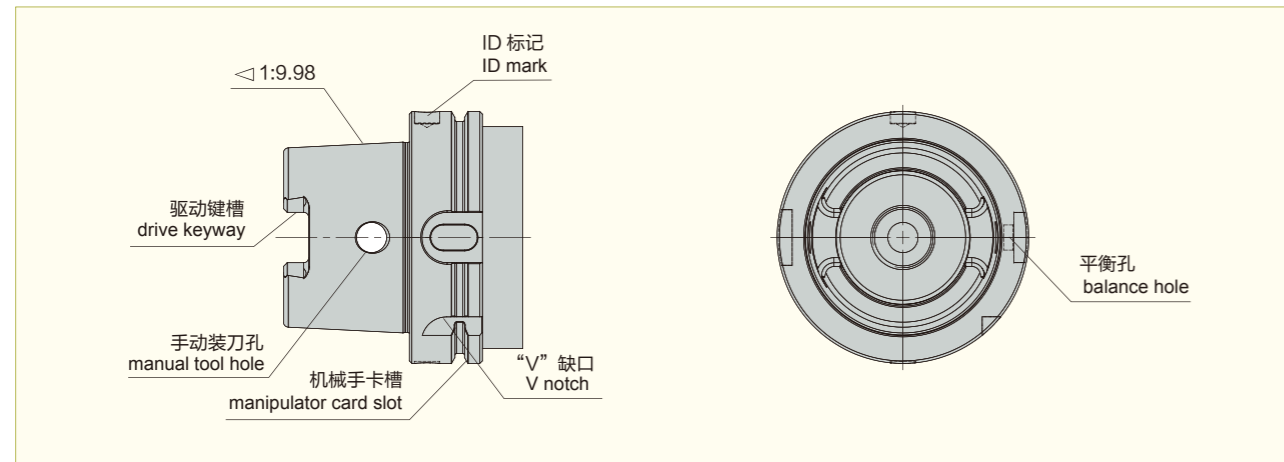
规格型号 Designation	f2min	f3-0.1	L1-0.3	L4min	L5-0.3	L6-0.4	L7-0.4	e1±0.1	d12	TAPER AT3
DIN69871 30	35	19.1	47.8	24	15	16.4	19	21	4	0.002
DIN69871 40	35	19.1	68.4	32	18.5	22.8	25	27	4	0.003
DIN69871 50	35	19.1	101.75	48	30	35.5	37.7	42	6	0.004

TECHNICAL INFORMATION 技术资料

HSK-A

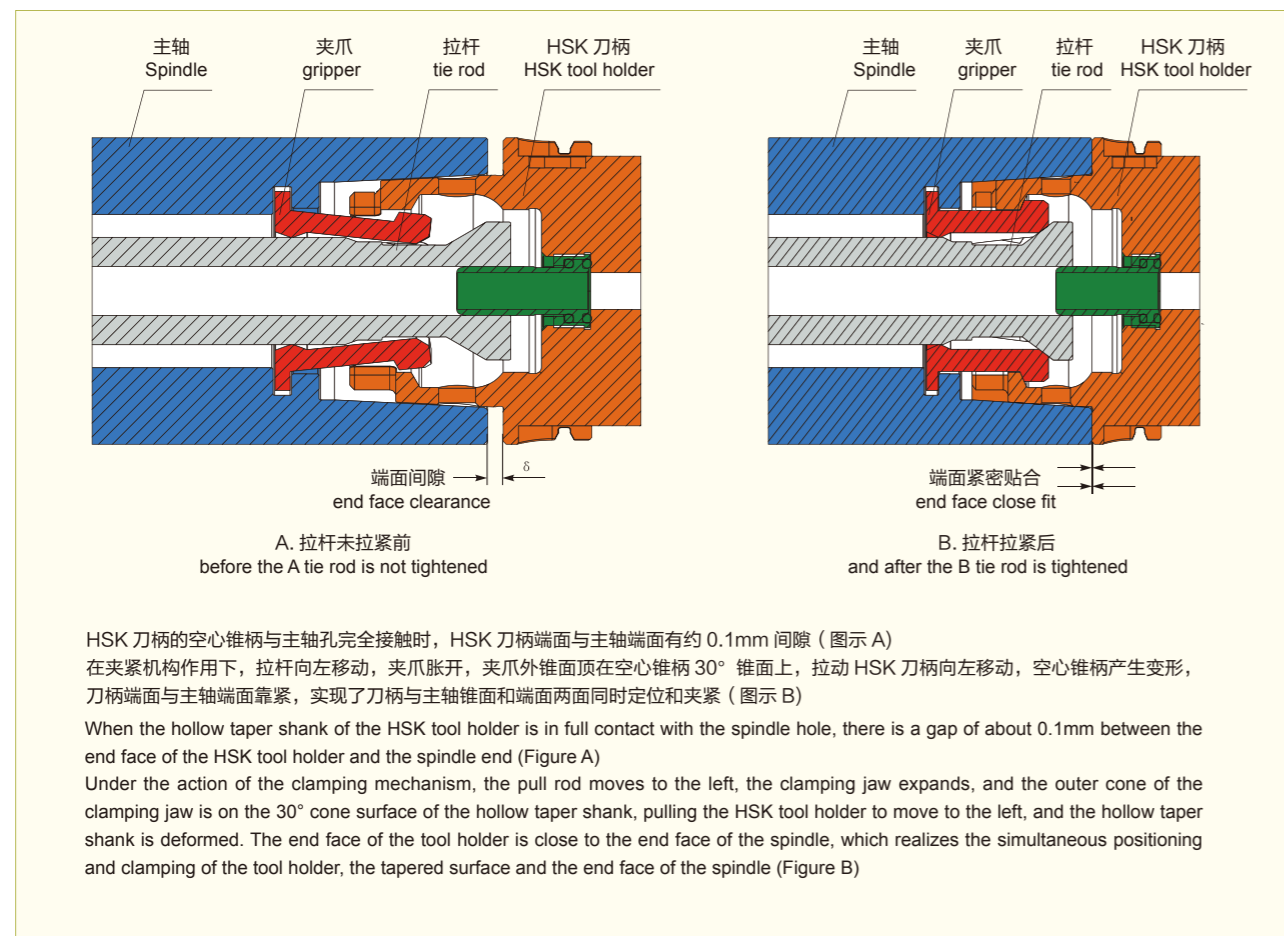
HSK 短锥刀柄特征说明

the feature of HSK short taper



HSK 短锥刀柄工作原理

Working principle of HSK short taper

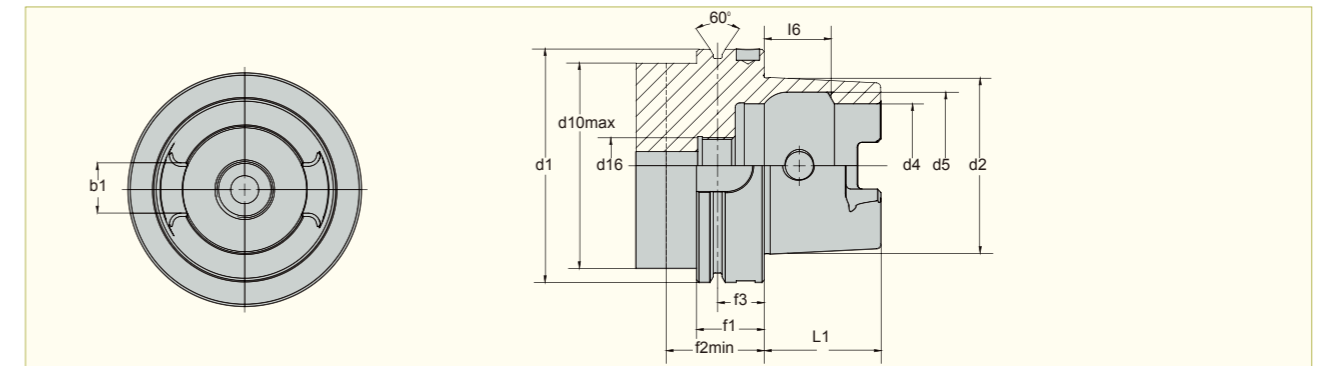


TECHNICAL INFORMATION 技术资料

HSK-A

HSK-A 锥柄标准 (DIN 69893)

Standard



HSK-A	d1 (h10)	d2	d4 (H10)	d5 (H11)	d10 max	d16
50	50	38.009	26	32	42	M16x1
63	63	48.010	34	40	53	M18x1.0
80	80	60.012	42	50	68	M20x1.5
100	100	75.013	53	63	88	M24x1.5

HSK-A	L1-0.2	I6 (Js10)	b1±0.04	f1-0.1	f2 min	f3 ±0.1
50	25	14.13	10.54	26	42	18
63	32	18.13	12.54	26	42	18
80	40	22.85	16.04	26	42	18
100	50	28.56	20.02	29	45	20

TECHNICAL INFORMATION 技术资料

BBT 刀柄

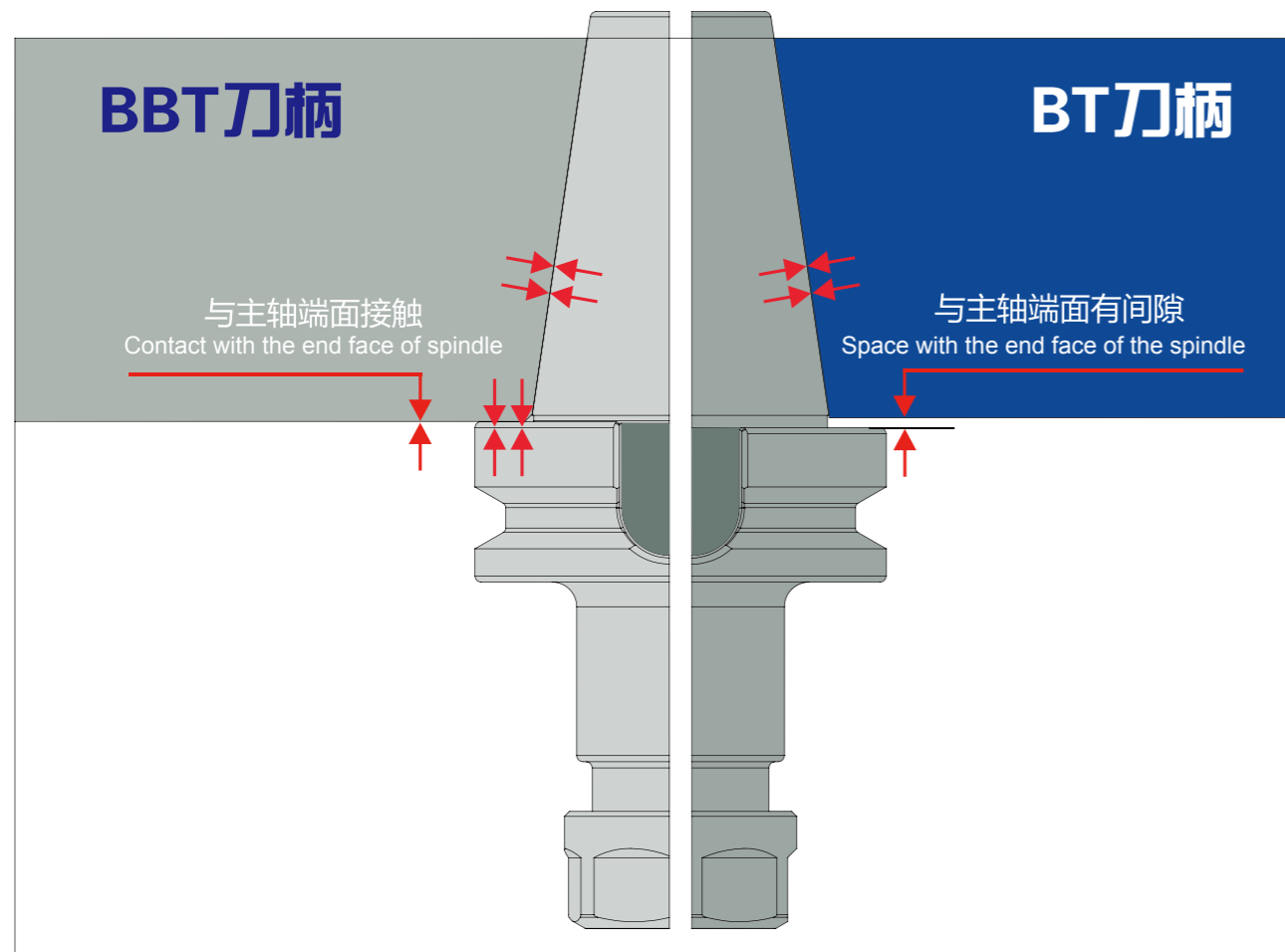
BBT Adaptor

双面接触刀柄，与普通 BT 刀柄可互换，刚性、定位精度大幅度提高，根据客户需求非标订制。

With the structure of two sides, including the end face of spindle contacted. Also it can be replaced by standard BT adaptor but with higher rigidity and accuracy. Special ones can be made as customers' requirements as well.

特点 Features

- | | |
|----------------|--|
| 1、增大定位基准，增强刚性。 | 1. Higher rigidity and location datum |
| 2、提高加工尺寸稳定性。 | 2. Higher stability |
| 3、提高轴向定位精度。 | 3. Higher accuracy of axia I direction |
| 4、可有效控制刀具振动。 | 4. Reduce the vibration situation |
| 5、刀具寿命延长。 | 5. Longer tool life |
| 6、高速运转时更安全。 | 6. Much safer when with high speed condition |



TECHNICAL INFORMATION 技术资料

刀柄及刀具的长度选择

Selection for the Tool Length

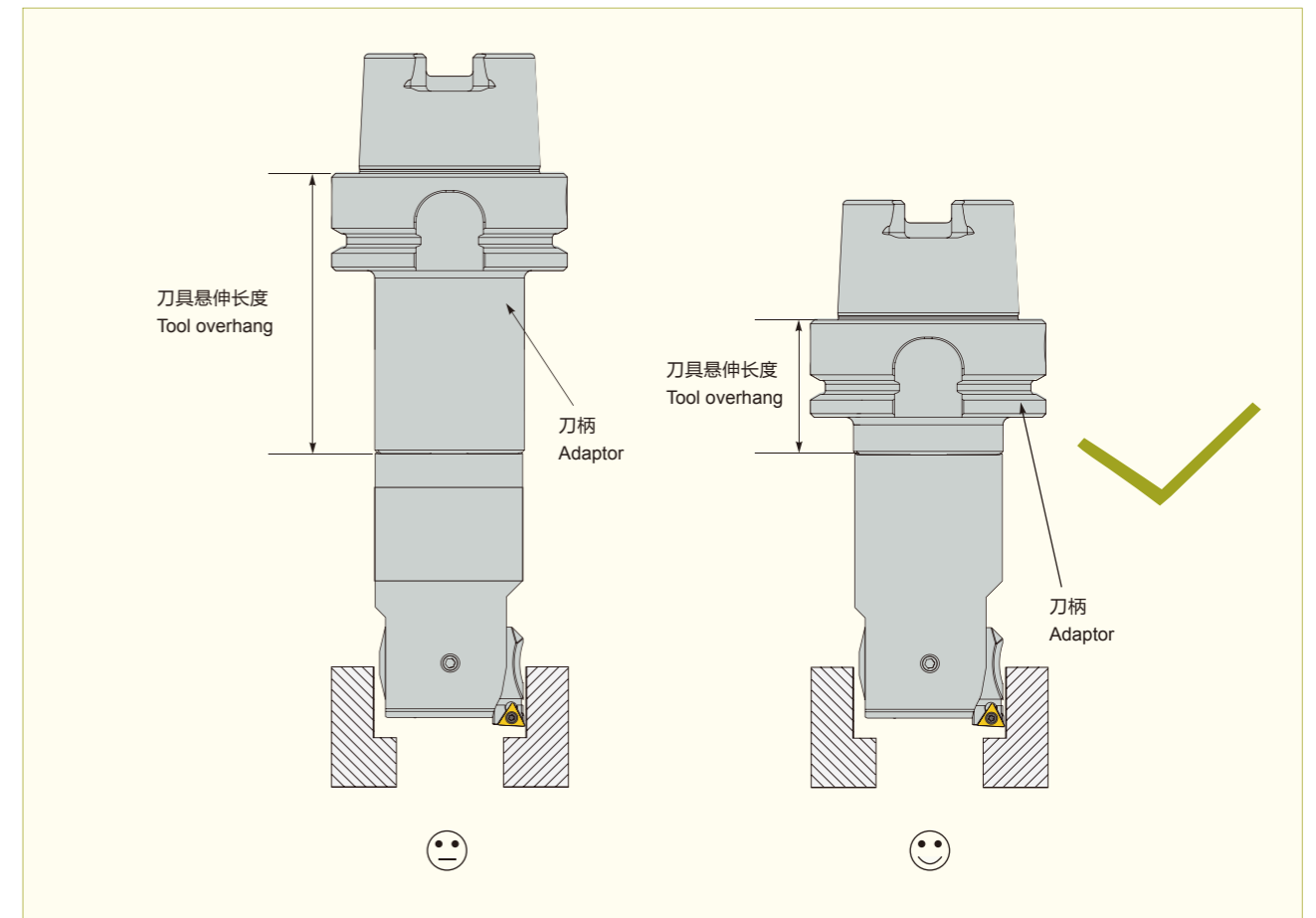
刀柄及刀具通常为了达到最好的使用刚性，选择短系列产品通常是最好的。

但是深孔 / 深腔的加工中往往需要长刀柄或减振刀具，在这时降低主轴转速，进给，切深可以减小切削过程中所产生的振动。

注意：优先使用短系列产品

For better rigidity, we suggest selecting the shorter ones. But for the deep hole machining, tools with longer overhang needed. On the other hand, lower down the spindle speed, feed, and cutting depth that will good for the anti-vibration.

Note: tools with shorter length priority



刀柄存放

Storage

刀柄需存放在干燥的环境中，长期保存时，锥柄及工作部位需涂抹防锈油。

Adaptors should be kept in a dry, and spread on anti-rush oil if they will be stored for a long time.

TECHNICAL INFORMATION 技术资料

弹簧夹头的安装

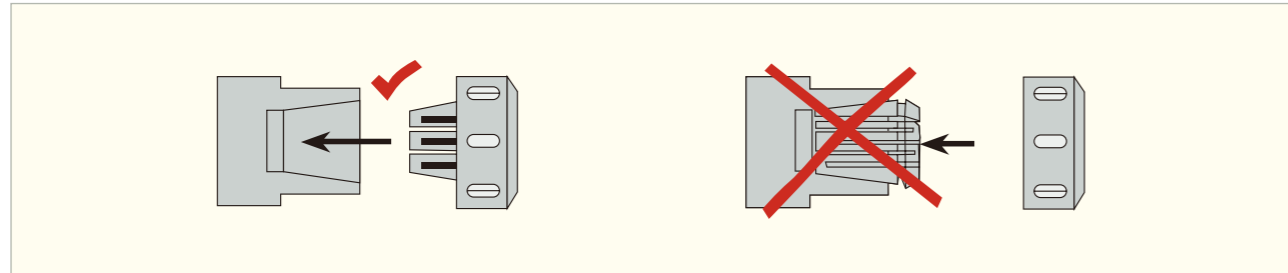
Instruction for ER Collet

在安装弹簧夹头之前，必须先将 ER 卡簧装入螺母之中，如图所示

为了获得最好的性能，在安装弹簧夹头之前，必须将 ER 卡簧，ER 螺母螺纹部分及定位面、夹套锥面清理干净！

Always assemble ER collet into the nut before mounting onto the collet chuck.

For maximum performance, the ER collet, ER nut, thread and collet taper must be cleaned before mounting onto the collet chuck!



ER 夹紧螺母推荐使用扭矩：

Recommended Torque for ER Nut Clamping

规格型号 Designation	ER11-M	ER11	ER16-M	ER16	ER20-M	ER20	ER25	ER32	ER40
扭矩 (Kgf•M)	3	5	4	7	8	12	20	22	25

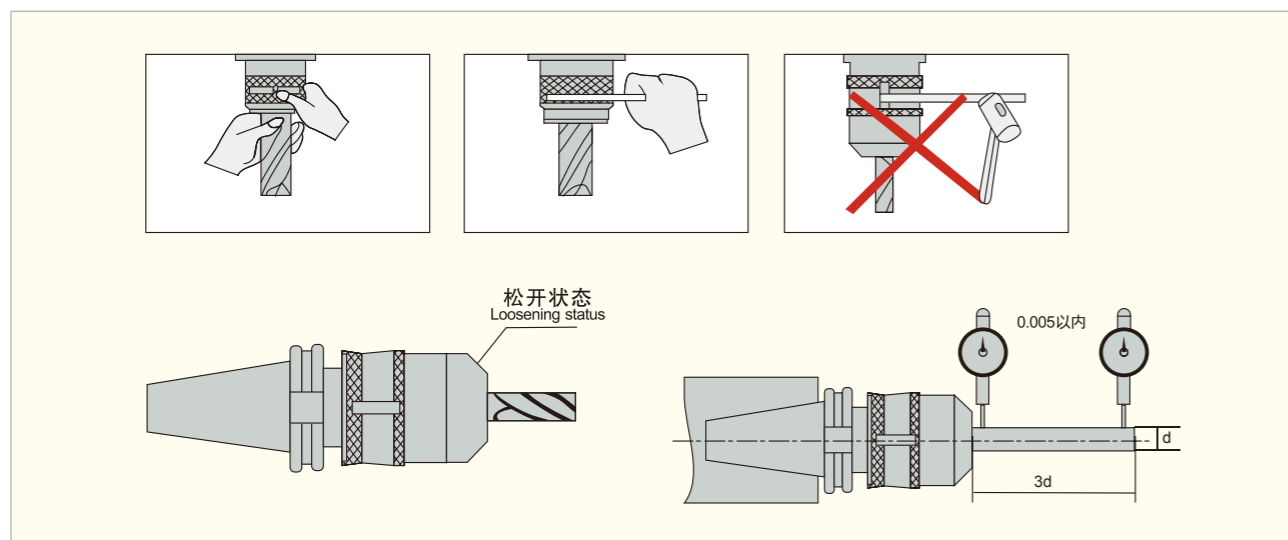
- 表中扭矩是以 ER 卡簧夹持最大直径能力计算的，当使用较小尺寸的刀柄时，其扭矩应该适当减少。
- The torque in the above table is calculated with the maximum diameter capacity per collet which should be gradually reduced when used with a smaller shank size

强力铣夹头刀柄的特点

Features of Power Chuck

夹紧力最大，使用简单—夹紧安全可靠

The most powerful gripping force and simple operation which is for the safe and reliable clamping

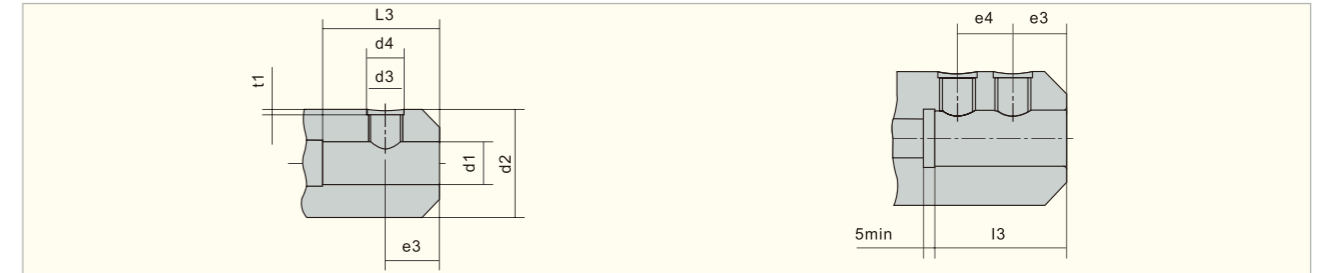


- 精度高，寿命长—更有利于保护刀具，延长刀具寿命
- 刚性高—适于大切量加工
- 优良的耐久性—压力分散于保持架的滚针上
- Higher precision and longer tool life which is for protecting the tool and
- Higher rigidity which is suitable for large cutting amount machining
- Superior durability due to the reason that the pressure can be afforded by the needle roller

TECHNICAL INFORMATION 技术资料

侧固刀柄接口尺寸

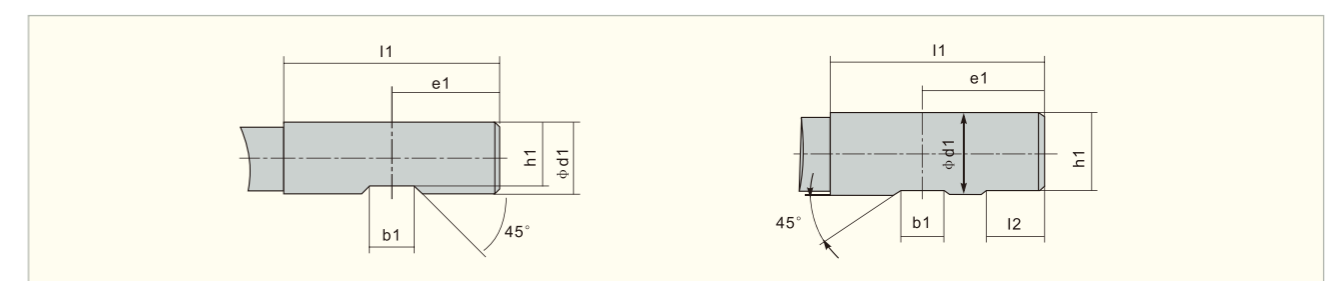
Dimensions of Weldon Adaptor



d1 (H5)	d2 (0-1)	d3 (6H)	d4 min	e3 (0/0.1)	e4 (±0.5)	l3 (±1)	t1
6	25	M6	8	18.0	-	35	1.0
8	28	M8	10	18.0	-	35	1.3
10	35	M10	12	20.0	-	39	1.5
12	42	M12	14	22.5	-	44	1.6
14	44	M12	14	22.5	-	44	1.6
16	48	M14	16	24.0	-	47	1.7
18	50	M14	16	24.0	-	47	1.7
20	52	M16	18	25.0	-	49	2.1
25	65	M18×2	20	24.0	25	54	2.1
32	72	M20×2	22	24.0	28	58	2.2
40	90	M24	26	30.0	32	68	2.2

侧固刀柄接口尺寸 (DIN 1835-B)

Dimensions of DIN1835-B Weldon Adaptor

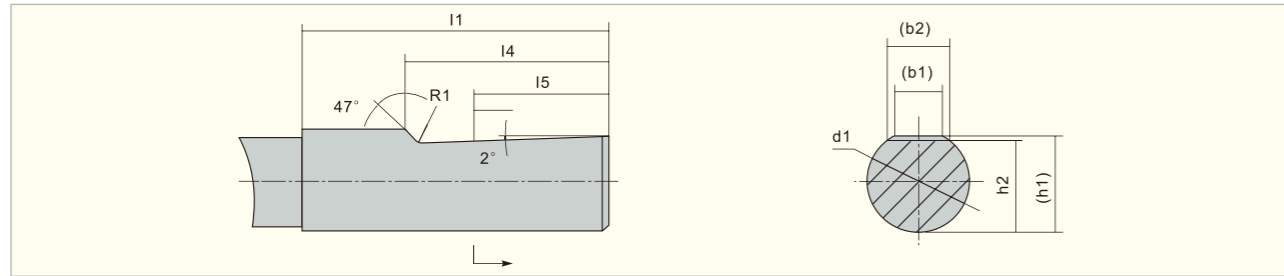


d1 (h6)	l1 (⁺² / ₀)	b1 (⁰ / ₀)	l2 (⁺¹ / ₀)	e1 (⁺³ / ₀)	h1 (h11)
6	36	4.2	-	18.0	5.1
8	36	5.5	-	18.0	6.9
10	40	7.0	-	20.0	8.5
12	45	8.0	-	22.5	10.4
14	45	8.0	-	22.5	12.7
16	48	10.0	-	24.0	14.2
18	48	10.0	-	24.0	16.2
20	50	11.0	-	25.0	18.2
25	56	12.0	17	32.0	23.0
32	60	14.0	19	35.0	30.0

TECHNICAL INFORMATION 技术资料

2° 削平柄尺寸 (DIN 1835-E)

2° Dimension of flattened shank(DIN1835-E)

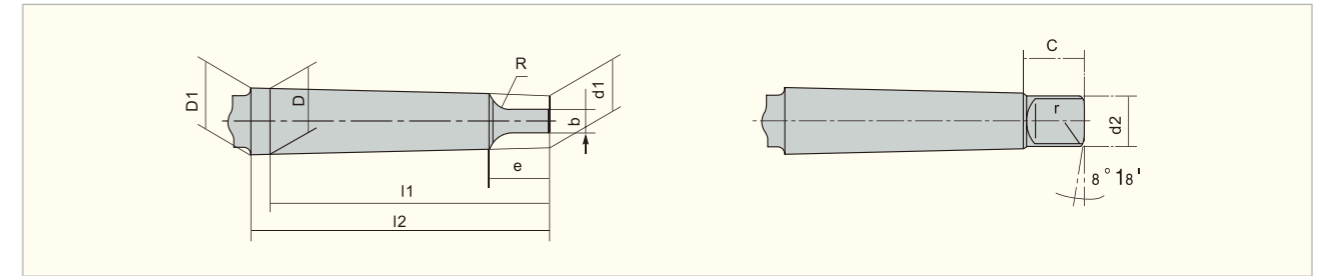


d1 (h6)	(b1)≈	(b2)	(h1)	h2 (h13)	l1 ($\frac{1}{16}$)	l4 ($\frac{1}{8}$)	l5	R1 min
6	3.5	4.8	5.4	4.8	36	25	18	1.2
8	4.7	6.1	7.2	6.6	36	25	18	1.2
10	5.7	7.3	9.1	8.4	40	28	20	1.2
12	6.0	8.2	11.2	10.4	45	33	22.5	1.2
16	7.6	10.1	15.0	14.2	48	36	24	1.6
20	8.4	11.5	19.1	18.2	50	38	25	1.6
25	9.3	13.6	24.1	23.0	56	44	32	1.6
32	9.9	15.5	31.2	30	60	48	35	1.6

TECHNICAL INFORMATION 技术资料

有扁尾莫氏锥柄 (DIN 1838-B)

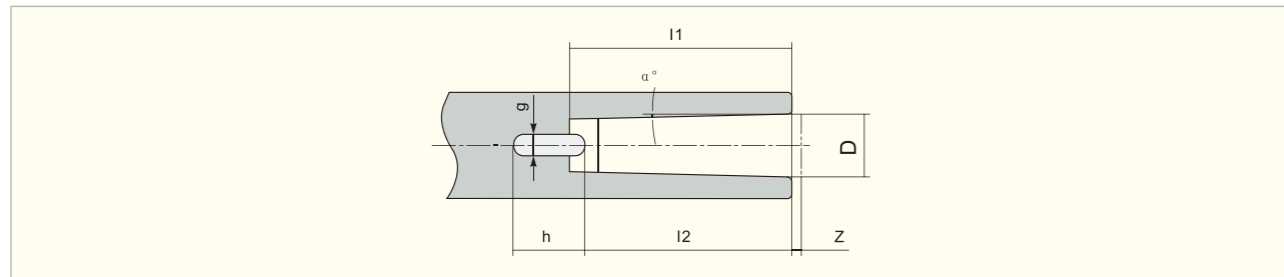
Morse taper with tang (DIN1838-B)



锥度号 Taper	D	D1	d1	d2	l1	l2	b	c	e	R	r	对应铣刀直径范围 (mm) Dia. of milling cutter
MT0	9.045	9.201	6.104	6	56.5	59.5	3.9	6.5	10.5	4	1	-
MT1	12.065	12.240	8.972	8.7	62.0	65.5	5.2	8.5	13.5	5	1.2	3.00-14.00
MT2	17.780	18.030	14.034	13.5	75.0	80.0	6.3	10.0	16.0	6	1.6	14.00-23.00
MT3	23.825	24.076	19.107	18.5	94.0	99.0	7.9	13.0	20.0	7	2	23.00-32.00
MT4	31.267	31.605	25.164	24.5	117.5	124.0	11.9	16.0	24.0	8	2.5	32.00-50.00
MT5	44.399	44.741	36.531	35.7	149.5	156.0	15.9	19.0	29.0	12	3	50.00-75.00
MT6	63.348	63.765	52.399	51.0	210.0	218.0	19.0	27.0	40.0	18	4	75.00-100.00
MT7	83.058	83.578	68.182	66.8	286.0	296.0	28.6	35.0	54.0	19	5	-

扁尾型莫氏锥柄连接尺寸 (DIN 228-D)

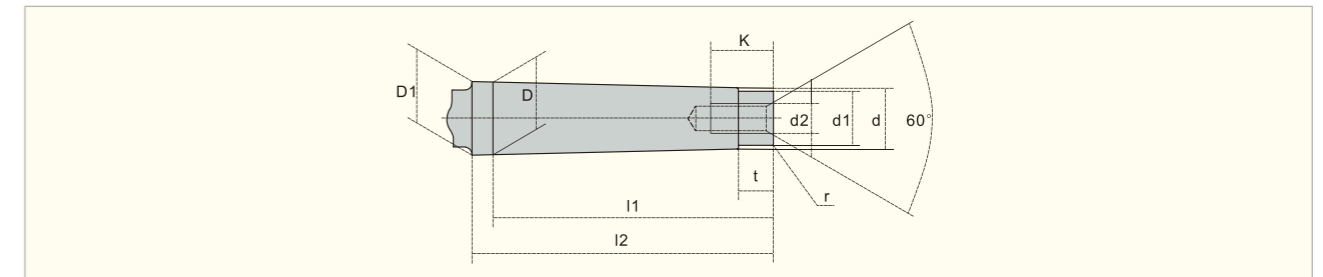
Dimensions of DIN228-D Morse Taper with Tang Adaptor



锥度号 Taper	锥度 Taper	锥角 (α°) Tngle	D	l1(min)	l2	g	h	z	对应钻头直径范围 (mm) Dia. of drill	
MT0	1/19.212	0.05205	1° 29'27"	9.045	52	49	4.1	15	1	-
MT1	1/20.047	0.04988	1° 25'43"	12.065	56	52	5.4	19	1	3.00-14.00
MT2	1/20.202	0.04995	1° 25'50"	17.780	67	62	6.6	22	1	14.00-23.00
MT3	1/19.922	0.05020	1° 26'16"	23.825	84	78	8.2	27	1	23.00-32.00
MT4	1/19.254	0.05194	1° 29'15"	31.267	107	98	12.2	32	1.5	32.00-50.00
MT5	1/19.002	0.05263	1° 30'26"	44.399	135	125	16.2	38	1.5	50.00-75.00
MT6	1/19.180	0.05214	1° 29'36"	63.348	188	177	19.3	47	2	75.00-100.00
MT7	1/19.231	0.05200	1° 29'22"	83.058	258	241	28.8	69	2	-

无扁尾莫氏锥柄 (DIN 228-A)

Dimensions of DIN228-A Morse Taper with Draw Thread



锥度号 Taper	D	D1	d	d1	l1	l2	t	r	d2	K	对应铣刀直径范围 (mm) Dia. of milling cutter
MT0	9.045	9.201	6.442	8	50	53	4	0.2	-	-	-
MT1	12.065	12.240	9.396	9	53.5	57	5	0.2	M6	16	6.00-12.00
MT2	17.780	18.030	14.583	14	64	69	5	0.2	M10	24	14.00-20.00
MT3	23.825	24.076	19.759	19	81	86	7	0.6	M12	24	22.00-36.00
MT4	31.267	31.605	25.943	25	102.5	109	9	1.0	M16	32	32.00-56.00
MT5	44.399	44.741	37.584	35.7	129.5	136	10	2.5	M20	40	40.00-63.00
MT6	63.348	63.765	53.859	51	182	190	16	4.0	M24	47	-
MT7	83.058	83.578	70.052	65	250	260	18.5	5.0	M33	60	-

CONVERSION TABLE 换算表

国际单位换算表

Conversion for International Units

压力

Pressure

Pa	Kpa	Mpa	bar	Kgf/cm	atm	mmH ₂ O	mmHg (Tom)
1	1×10 ⁻³	1×10 ⁻⁶	1×10 ⁻⁵	1.01972×10 ⁻⁵	9.86923×10 ⁻⁵	1.01972×10 ⁻⁵	7.50062×10 ⁻³
1×10 ³	1	1×10 ⁻³	1×10 ⁻²	1.01972×10 ⁻²	9.86923×10 ⁻²	1.01972×10 ⁻²	7.50062
1×10 ⁶	1×10 ³	1	1×10	1.01972×10	9.86923	1.01972×10 ⁻⁵	7.50062×10 ³
1×10 ⁵	1×10 ²	1×10 ⁻¹	1	1.01972	9.86923×10 ⁻¹	1.01972×10 ⁴	7.50062×10 ²
9.80665×10 ⁴	9.80665×10	9.80665×10 ⁻²	9.80665×10 ⁻²	1	9.67841×10 ⁻¹	1×10 ⁴	7.35559×10 ²
1.01325×10 ⁵	1.01325×10 ²	1.01325×10 ⁻¹	1.01325×10 ⁻¹	1.03323	1	1.03323×10 ⁴	7.60000×10 ²
9.80665	9.80665×10 ⁻³	9.80665×10 ⁻⁶	9.80665×10 ⁻⁶	1×10 ⁻⁴	9.67841×10 ⁻⁵	1	7.35559×10 ⁻²
1.33322×10 ²	1.33322×10 ⁻¹	1.33322×10 ⁴	1.33322×10 ⁴	1.35951×10 ⁻³	1.35951×10 ⁻³	1.35951×10	1

功效、能量、热量

Efficacy, Energy, Caloric

J	Kw-h	Kgf-m	Kcal
1	2.77778×10 ⁻⁷	2.77778×10 ⁻¹	2.38889×10 ⁻⁴
3.600×10 ⁵	1	3.67098×10 ⁵	8.6000×10 ²
9.80665	2.72407×10 ⁻⁵	1	2.34270×10 ⁻³
4.18605×10 ³	1.16279×10 ⁻³	4.26858×10 ²	1

W	Kgf-m/S	PS	Kcal/h
1	1.01972×10 ⁻¹	2.77778×10 ⁻³	8.6000×10 ⁻¹
9.80665	1	1.33333×10 ⁻²	8.43371
7.355×10 ²	7.5×10	1	6.32529×10 ²
1.16279	1.18572×10 ⁻¹	1.58095×10 ⁻³	1

力

Force

N	Dyn	Kgf
1	1×10 ⁵	1.01972×10 ⁻¹
1×10 ⁻⁵	1	1.01972×10 ⁻⁶
9.80665	9.80665×10 ⁵	1

应力

Stress

Pa	Mpa (N/mm ²)	Kgf/mm ²	Kgf/cm ²
1	1×10 ⁻⁶	1.01972×10 ⁻³	1.01972×10 ⁻⁵
1×10 ⁶	1	1.01972×10 ⁻¹	1.01972×10
9.80665×10 ⁶	9.80665	1	1×10 ²
9.80665×10 ⁴	9.80665×10 ⁻²	1×10 ⁻²	1

注：1Pa=1N/M²

CONVERSION TABLE 换算表

强度 \ 硬度换算表

Conversion Table for Hardness and Tensile strength

序	洛氏硬度 Rockwell hardness	洛氏硬度 Rockwell hardness	维氏硬度 Vickers hardness	布氏硬度 Brinell hardness	布氏硬度 Brinell hardness	抗拉强度 σ bMPa Intensity of tension	抗拉强度 σ bMPa Intensity of tension	抗拉强度 σ bMPa Intensity of tension	抗拉强度 σ bMPa Intensity of tension	抗拉强度 σ bMPa Intensity of tension	抗拉强度 σ bMPa Intensity of tension	抗拉强度 σ bMPa Intensity of tension	抗拉强度 σ bMPa Intensity of tension	抗拉强度 σ bMPa Intensity of tension	
号 SN	HRC	HRA	HV	Hb30 D2	D102 d54 d2.5 mm	碳钢 Carbon steel	铬钢 Chrome steel	铬钒钢 Chromo- vanadium steel	铬镍钢 Chromium nickel steel	铬钼钢 Chrome molybden um steel	铬镍钼钢 Chromium nickel molyb denum steel	铬锰硅钢 Chromansil	超强度钢 Super tough steel	不锈钢 Stainless steel	不分钢种 General steel
1	17	-	211	211	4.15	736	706	705	772	726	-	757	-	703	724
2	17.5	-	214	214	4.13	744	714	712	775	731	-	763	-	711	731
3	18	-	216	216	4.11	753	723	719	779	737	-	769	-	719	737
4	18.5	-	218	218	4.09	762	731	727	783	743	-	776	-	728	744
5	19	-	221	220	4.07	771	739	735	788	749	-	782	-	737	752
6	19.5	-	223	222	4.05	780	748	743	792	755	-	789	-	745	759
7	20	-	226	225	4.03	790	757	751	797	761	-	796	-	754	767
8	20.5	-	229	227	4.02	799	766	759	802	768	-	803	-	764	774
9	21	-	231	227	4	809	775	767	807	775	-	810	-	773	782
10	21.5	-	234	232	3.97	819	785	776	813	782	-	817	-	782	791
11	22	-	237	234	3.95	829	794	785	819	789	-	825	-	792	799
12	22.5	-	240	237	3.93	839	804	794	825	797	-	832	-	802	808
13	23	-	243	240	3.91	849	814	803	831	805	-	840	-	812	816
14	23.5	-	246	242	3.89	860	824	813	838	813	-	848	-	822	825
15	24	-	249	245	3.87	870	834	823	845	821	-	856	-	832	835
16	24.5	-	252	248	3.85	881	844	833	852	830	-	865	-	843	844
17	25	-	255	251	3.83	892	855	843	860	838	-	874	-	853	854
18	25.5	-	258	254	3.8	903	865	853	868	847	866	882	-	864	864
19	26	-	261	257	3.78	914	876	864	876	857	876	892	-	875	874
20	26.5	-	264	260	3.76	926	887	875	884	867	886	901	-	885	884
21	27	-	268	263	3.74	937	898	886	893	877	897	910	-	897	895
22	27.5	-	271	266	3.72	949	909	897	902	887	907	920	-	908	906
23	28	-	274	269	3.7	961	920	909	912	897	918	930	-	919	917
24	28.5	-	278	273	3.67	972	932	921	922	908	930	941	-	931	928
25	29	-	281	276	3.65	984	943	933	932	919	941	951	-	942	940
26	29.5	-	285	280	3.63	997	955	946	942	931	953	962	-	954	951
27	30	-	298	283	3.61	1009	967	959	953	943	966	973	-	966	964
28	30.5	-	292	287	3.59	1021	979	972	964	955	978	985	-	978	976
29	31	-	296	291	3.56	1034	991	985	976	967	991	996	-	990	989
30	31.5	-	300	294	3.54	1047	1004	999	988	980	1005	1008	-	1003	1001
31	32	-	304	298	3.52	1060	1016	1013	1001	993	1018	1020	-	1015	1015
32	32.5	-	308	302	3.5	1073	1029	1027	1013	1007	1032	1033	-	1028	1028
33	33	-	312	306	3.38	1086	1042	1042	1027	1020	1047	1046	-	1041	1042
34	33.5	-	316	310	3.46	1100	1055	1057	1040	1035	1062	1059	-	1054	1056
35	34	-	320	314	3.43	1113	1068	1072	1054	1049	1077	10733	-	1067	1070
36	34.5	-	324	318	3.41	1127	1082	1088	1069	1064	1092	1086	-	1081	1085
37	35	-	329	323	3.39	1141	1095	1104	1084	1079	1108	1101	-	1095	1100
38	35.5	-	333	327	3.37	1156	1109	1120	1099	1095	1125	1115	-	1109	1115
39	36	-	338	332	3.34	1170	1124	1136	1115	1111	1141	1130	-	1123	1131
40	36.5	-	342	336	3.32	1185	1138	1153	1131	1128	1158	1146	-	1138	1147
41	37	-	347	341	3.3	1200	1153	1171	1148	1144	1176	1161	-	1153	1163
42	37.5	-	352	345	3.28	1215	1168	1188	1165	1162	1194	1177	-	1168	1180
43	38	-	357	350	3.26	1231	1184	1206	1182	1179	1212	1194	-	1184	1197
44	38.5	-	362	355	3.24	1246	1199	125	1200	1197	1231	1211	-	1200	1214
45	39	70	367	360	3.21	1263	1216	1243	1219	1216	1250	1228	1218	1316	1232
46	39.5	70.3	372	365	3.19	1279	1232	1262	1238	1235	1270	1246	1243	1233	1250
47	40	70.5	377	370	3.17	1296	1249	1282	1257	1254	1290	1264	1267	1250	1268
48	40.5	70.8	382	375	3.15	1213	1267	1302	1277	1274	1310	1283	1291	1268	1287
49	41	71.1	388	380	3.13	1331	1284	1322	1298	1294	1331	1302	1315	1286	1307
50	41.5	71.3	393	385	3.11	1348	1303	1342	1319	1315	1353	1322	1339	1305	1327
51	42	71.6	399	391	3.09	1367	1322	1364	1340	1336	1375	1342	1362	1325	1347
52	42.5	71.8	405	396	3.07	1386	1341	1385	1362	1357	1397	1362	1385	1345	1368
53	43	72.1	411	401	3.05	1405	1361	1407	1385	1379	1420	1384	1409	1366	1389
54	43.5	72.4	417	407	3.03	1425	1382	1429	1408	1402	1443	1405	1432	1387	1411
55	44	72.6	423	413	3.01	1445	1403	1452	1431	1425	1467	1427	1455	1410	1434

CONVERSION TABLE 换算表

强度 \ 硬度换算表

Conversion Table for Hardness and Tensile Strength

序 号 SN	洛氏 硬度 Rockwell hardness	洛氏 硬度 Rockwell hardness	维氏 硬度 Vickers hardness	布氏 硬度 Brinell hardness	布氏 硬度 Brinell hardness	抗拉 强度 σ bMPa	抗拉 强度 σ bMPa	抗拉 强度 σ bMPa	抗拉 强度 σ bMPa	抗拉 强度 σ bMPa	抗拉 强度 σ bMPa	抗拉 强度 σ bMPa	抗拉 强度 σ bMPa	抗拉 强度 σ bMPa	抗拉 强度 σ bMPa
	HRC	HRA	HV	Hb30 D2	D10 2d5 4d2.5 mm	碳钢 Carbon steel	铬钢 Chrome steel	铬钒钢 Chrome- vanadium steel	铬镍钢 Chromium nickel steel	铬钼钢 Chrome molybden um steel	铬镍 钼钢 Chromium nickel molybde num steel	铬锰 硅钢 Chromansil	超强 度钢 Super tough steel	不锈钢 Stainless steel	不分 钢种 General steel
56	44.5	72.9	429	418	2.99	1466	1426	1475	1455	1448	1491	1450	1479	1433	1457
57	45	73.2	436	424	2.97	1488	1448	1498	1480	1472	1516	1474	1502	1457	1480
58	45.5	73.4	443	430	2.95	1510	1472	1522	1505	1497	1541	1498	1526	1482	1504
59	46	73.7	449	436	2.93	1533	1497	1547	1531	1522	1567	1522	1550	1508	1529
60	46.5	73.9	456	442	2.91	1556	1522	1572	1557	1547	1593	1457	1575	1535	1555
61	47	74.2	463	449	2.89	1581	1549	1597	1584	1573	1620	1573	1600	1563	1581
62	47.5	74.5	470	455	2.87	1606	1576	1623	1612	1599	1648	1600	1625	1592	1608
63	48	74.7	478	461	2.85	1631	1605	1649	1640	1626	1676	1627	1652	1623	1635
64	48.5	75	485	468	2.83	1658	1635	1675	1669	1654	1704	1654	1679	1655	1663
65	49	75.3	493	474	2.81	1686	1666	1702	1698	1682	1733	1683	1707	1688	1692
66	49.5	75.5	501	481	2.79	1714	1698	1730	1728	1710	1762	1712	1735	1723	1722
67	50	75.8	509	488	2.77	1744	1731	1758	1768	1739	1793	1742	1765	1759	1753
68	50.5	76.1	517	494	2.75	-	1767	1787	1790	1769	1823	1773	1795	-	1785
69	51	76.3	525	501	2.73	-	1803	1816	1821	1799	1854	1804	1827	-	1817
70	51.5	76.6	534	-	-	-	1841	1845	1854	1830	1886	1836	1860	-	1851
71	52	76.9	543	-	-	-	1881	1875	1887	1861	1918	1870	1894	-	1885
72	52.5	77.1	551	-	-	-	-	1906	1920	1893	1951	1903	1930	-	1921
73	53	77.4	561	-	-	-	-	1937	1955	1925	1985	1938	1967	-	1957
74	53.5	77.7	570	-	-	-	-	1968	1990	-	-	1974	2005	-	1995
75	54	77.9	579	-	-	-	-	2000	2025	-	-	2010	2045	-	2034
76	54.5	78.2	589	-	-	-	-	2033	2061	-	-	2048	2087	-	2074
77	55	78.5	599	-	-	-	-	2066	2098	-	-	2086	2131	-	2115
78	55.5	78.7	609	-	-	-	-	-	-	-	-	-	2177	-	2157
79	56	79	620	-	-	-	-	-	-	-	-	-	2224	-	2201
80	56.5	79.3	631	-	-	-	-	-	-	-	-	-	2274	-	2246
81	57	79.5	642	-	-	-	-	-	-	-	-	-	2326	-	2293
82	57.5	79.8	653	-	-	-	-	-	-	-	-	-	2380	-	2341
83	58	80.1	664	-	-	-	-	-	-	-	-	-	2437	-	2391
84	58.5	80.3	676	-	-	-	-	-	-	-	-	-	2496	-	2443
85	59	80.6	688	-	-	-	-	-	-	-	-	-	2558	-	2496
86	59.5	80.9	700	-	-	-	-	-	-	-	-	-	2623	-	2551
87	60	81.2	713	-	-	-	-	-	-	-	-	-	2691	-	2607
88	60.5	81.4	726	-	-	-	-	-	-	-	-	-	-	-	-
89	61	81.7	739	-	-	-	-	-	-	-	-	-	-	-	-
90	61.5	82	752	-	-	-	-	-	-	-	-	-	-	-	-
91	62	82.2	766	-	-	-	-	-	-	-	-	-	-	-	-
92	62.5	82.5	780	-	-	-	-	-	-	-	-	-	-	-	-
93	63	82.5	795	-	-	-	-	-	-	-	-	-	-	-	-
94	63.5	83.1	810	-	-	-	-	-	-	-	-	-	-	-	-
95	64	83.3	825	-	-	-	-	-	-	-	-	-	-	-	-
96	64.5	83.6	840	-	-	-	-	-	-	-	-	-	-	-	-
97	65	83.9	856	-	-	-	-	-	-	-	-	-	-	-	-
98	65.5	84.1	872	-	-	-	-	-	-	-	-	-	-	-	-
99	66	84.4	889	-	-	-	-	-	-	-	-	-	-	-	-
100	66.5	84.7	906	-	-	-	-	-	-	-	-	-	-	-	-
101	67	85	923	-	-	-	-	-	-	-	-	-	-	-	-
102	67.5	85.2	941	-	-	-	-	-	-	-	-	-	-	-	-
103	68	85.5	959	-	-	-	-	-	-	-	-	-	-	-	-
104	68.5	85.8	978	-	-	-	-	-	-	-	-	-	-	-	-
105	69	86.1	997	-	-	-	-	-	-	-	-	-	-	-	-
106	69.5	86.3	1017	-	-	-	-	-	-	-	-	-	-	-	-
107	70	86.6	1037	-	-	-	-	-	-	-	-	-	-	-	-

THREAD TAPPING HOLE DIAMETER COMPARISON

螺纹攻牙钻孔径对照表

公制粗螺纹 Metric coarse thread				公制粗螺纹 Metric coarse thread			
规格 Specification	标准径 Standard diameter	2级牙钻孔径 2nd. accuracy tapping hole diameter		规格 Specification	标准径 Standard diameter	2级牙钻孔径 2nd. accuracy tapping hole diameter	
		最大 Max	最小 Min			最大 Max	最小 Min
M1.0 0.25	0.75	0.785	0.729	M1.0 0.2	0.80	0.821	0.783
M1.1 0.25	0.85	0.885	0.829	M1.1 0.2	0.90	0.921	0.883
M1.2 0.25	0.95	0.985	0.929	M1.2 0.2	1.00	1.021	0.983
M1.4 0.3	1.10	1.142	1.075	M1.4 0.2	1.20	1.221	1.183
M1.6 0.35	1.25	1.321	1.221	M1.6 0.2	1.40	1.421	1.383
M1.7 0.35	1.35	1.421	1.321	M1.7 0.2	1.45	1.500	1.460
M1.8 0.35	1.45	1.521	1.421	M1.8 0.2	1.60	1.621	1.583
M2.0 0.4	1.60	1.679	1.567	M2.0 0.25	1.75	1.785	1.729
M2.2 0.45	1.75	1.838	1.713	M2.2 0.25	1.95	1.985	1.929
M2.3 0.4	1.90	1.979	1.867	M2.3 0.25	2.05	2.061	2.001
M2.5 0.45	2.10	2.138	2.013	M2.5 0.35	2.20	2.221	2.121
M2.6 0.45	2.20	2.238	2.113	M2.6 0.35	2.20	2.246	2.186
M3.0 0.5	2.50	2.599	2.459	M3.0 0.35	2.70	2.721	2.621
M3.5 0.6	2.90	3.010	2.850	M3.5 0.35	3.20	3.221	3.121
M4.0 0.7	3.30	3.422	3.242	M4.0 0.5	3.50	3.599	3.459
M4.5 0.75	3.80	3.878	3.688	M4.5 0.5	4.00	4.099	3.959
M5.0 0.8	4.20	4.334	4.134	M5.0 0.5	4.50	4.599	4.459
M6.0 1.0	5.00	5.153	4.917	M5.5 0.5	5.00	5.099	4.959
M7.0 1.0	6.00	6.153	5.917	M6.0 0.75	5.30	5.378	5.188
M8.0 1.25	6.80	6.912	6.647	M6.0 0.5	5.50	5.550	5.400
M9.0 1.25	7.80	7.912	7.647	M7.0 0.75	6.30	6.378	6.188
M10 1.5	8.50	8.676	8.376	M7.0 0.5	6.50	6.550	6.400
M11 1.5	9.50	9.676	9.376	M8.0 1.0	7.00	7.153	6.917
M12 1.75	10.30	10.441	10.106	M8.0 0.75	7.30	7.378	7.188
M14 2.0	12.00	12.210	11.835	M8.0 0.5	7.50	7.520	7.400
M16 2.0	14.00	14.210	13.835	M9.0 1.0	8.00	8.153	7.917
M18 2.5	15.50	15.744	15.294	M9.0 0.75	8.30	8.378	8.188
M20 2.5	17.50	17.744	17.294	M10 1.25	8.80	8.921	8.647
M22 2.5	19.50	19.744	19.294	M10 1.0	9.00	9.153	8.917
M24 3.0	21.00	21.252	20.752	M10 0.75	9.30	9.378	9.188
M27 3.0	24.00	24.252	23.752	M10 0.5	9.50	9.520	9.400
M30 3.5	26.50	26.771	26.211	M11 1.0	10.00	10.153	9.917
M33 3.5	29.50	29.771	29.211	M11 0.75	10.30	10.378	10.188
M36 4.0	32.00	32.270	31.670	M12 1.5	10.50	10.676	10.376
M39 4.0	35.00	35.270	34.670	M12 1.25	10.80	10.912	10.647
-	-	-	-	M12 1.0	11.00	11.153	10.917
-	-	-	-	M12 0.5	15.00	11.520	11.400
-	-	-	-	M14 1.5	12.50	12.676	12.376
-	-	-	-	M14 1.0	13.00	13.153	12.917
-	-	-	-	M15 1.5	13.50	13.676	13.376

THREAD TAPPING HOLE DIAMETER COMPARISON

螺纹攻牙钻孔直径对照表

公制粗螺纹 Metric coarse thread					美制细螺纹 UNF			
规格 Specification	标准径 Standard diameter	2级牙钻孔径 2nd. accuracy tapping hole diameter		规格 Specification	标准径 Standard diameter	2级牙钻孔径 2nd. accuracy tapping hole diameter		
		最大 Max	最小 Min			最大 Max	最小 Min	
M15 1.0	14.00	14.153	13.917	(螺丝牙外径) Tooth diameter				
M16 1.5	14.50	14.676	14.376	No.0 -80(1.542)	1.25	1.305	1.182	
M16 1.0	15.00	15.153	14.917	No.1 -72(1.854)	1.55	1.612	1.474	
M17 1.5	15.50	15.676	15.376	No.2 -64(2.184)	1.85	1.912	1.756	
M17 1.0	16.00	16.153	15.917	No.3 -56(2.515)	2.10	2.197	2.025	
M18 2.0	16.00	16.210	15.835	No.4 -48(2.845)	2.40	2.458	2.271	
M18 1.5	16.50	16.676	16.376	No.5 -44(3.175)	2.70	2.740	2.551	
M18 1.0	17.00	17.153	16.917	No.6 -40(3.505)	2.90	3.022	2.82	
M20 2.0	18.00	18.210	17.835	No.8 -36(4.166)	3.50	3.606	3.404	
M20 1.5	18.50	18.676	18.376	No.10-32(4.826)	4.10	4.165	3.963	
M20 1.0	19.00	19.153	18.917	No.12-28(5.486)	4.60	4.724	4.496	
M22 2.0	20.00	20.210	19.835	1/4 -28	5.50	5.588	5.360	
M22 1.5	20.50	20.676	20.376	5/16 -24	6.90	7.035	6.782	
M22 1.0	21.00	21.153	20.917	3/8 -24	8.50	8.636	8.382	
M24 2.0	22.00	22.210	21.835	7/16 -20	9.90	10.033	9.729	
M24 1.5	22.50	22.676	22.376	1/2 -20	11.50	11.607	11.329	
M24 1.0	23.00	23.153	22.917	9/16 -18	12.90	13.081	12.751	
M25 2.0	23.00	23.210	22.835	5/8 -18	14.50	14.681	14.351	
M25 1.5	23.50	23.676	23.376	3/4 -16	17.50	17.678	17.323	
M25 1.0	24.00	24.153	23.917	7/8 -14	20.50	20.675	20.270	
M26 1.5	24.50	24.676	24.376	1 -12	23.30	23.571	23.114	
M27 2.0	25.00	25.210	24.835	1-1/8 -12	26.50	26.746	26.289	
M27 1.5	25.50	25.676	25.376	1-1/4 -12	29.60	29.921	29.464	
M27 1.0	26.00	26.153	25.917	1-3/8 -12	32.80	33.096	32.639	
M28 2.0	26.00	26.210	25.835	1-1/2 -12	36.00	36.271	35.814	
M28 1.5	26.50	26.676	26.376	美制迫牙丝攻钻孔径 American system extrusion tapping hole diameter				
M28 1.0	27.00	27.153	26.917	规格 Specification	精度 Accuracy	最大 Max	最小 Min	
M30 3.0	27.00	27.252	26.752	1 -64UNC	G5	1.76	1.68	
M30 2.0	28.00	28.210	27.835	2 -56	G4	2.04	1.96	
M30 1.5	28.50	28.676	28.376	3 -48	G4	2.35	2.25	
M30 1.0	29.00	29.153	28.917	4 -40	G5	2.64	2.54	
M32 2.0	30.00	30.210	29.835	5 -40	G5	2.97	2.87	
M32 1.5	30.50	30.676	30.376	6 -32	G5	3.22	3.11	
M33 3.0	30.00	30.252	29.752	8 -32	G6	3.89	3.78	
M33 2.0	31.00	31.210	30.835	10 -24	G6	4.44	4.30	
M33 1.5	31.50	31.676	31.376	12 -24	G6	5.07	4.96	
M35 1.5	33.50	33.676	33.376	1/4" -20	G7	5.86	5.73	
M36 3.0	33.00	33.252	32.752	-	-	-	-	
M36 2.0	34.00	34.210	33.835	-	-	-	-	
M36 1.5	34.50	34.676	34.376	-	-	-	-	

THREAD TAPPING HOLE DIAMETER COMPARISON

螺纹攻牙钻孔直径对照表

美制迫牙丝攻钻孔径 American system extrusion tapping hole diameter				公制粗螺纹 Metric coarse thread			
规格 Specification	精度 Accuracy	最大 Max	最小 Min	规格 Specification	标准径 Standard diameter	2级牙钻孔径 2nd. accuracy tapping hole diameter	
						最大 Max	最小 Min
5/16" -18	G7	7.38	7.23	(螺丝牙外径) Tooth diameter			
3/8" -16	G7	8.89	8.72	No.1 -64(1.854)	1.55	1.582	1.425
7/16"-14	G8	10.40	10.02	No.2 -56(2.184)	1.80	1.871	1.695
1/2" -13	G8	11.92	11.70	No.3 -48(2.515)	2.10	2.146	1.941
0 -80UNF	G5	1.45	1.39	No.4 -40(2.845)	2.30	2.385	2.157
1 -72	G5	1.77	1.70	No.5 -40(3.175)	2.60	2.697	2.487
2 -64	G4	2.06	1.98	No.6 -32(3.505)	2.80	2.895	2.642
3 -56	G4	2.37	2.29	No.8 -32(4.166)	3.40	3.530	3.302
4 -48	G5	2.68	2.59	No.10-24(4.826)	3.90	3.962	3.683
5 -44	G5	2.99	2.90	No.12-24(5.486)	4.50	4.597	4.344
6 -40	G5	3.29	3.19	1/4 -20	5.10	5.257	4.979
8 -36	G5	3.91	3.81	5/16 -18	6.60	6.731	6.401
10 -32	G6	4.53	4.44	3/8 -16	8.00	8.153	7.798
12 -28	G6	5.13	5.03	7/16 -14	9.40	9.550	9.144
1/4" -28	G7	6.00	5.91	1/2 -13	10.90	11.023	10.592
5/16"-24	G7	7.53	7.42	9/16 -12	12.20	12.446	11.989
3/8" -24	G7	9.10	8.99	5/8 -11	13.60	13.868	13.386
7/16"-20	G8	10.62	10.48	3/4 -10	16.60	16.840	16.307
1/2" -20	G8	12.20	12.06	7/8 -9	19.60	19.761	19.177
美制特细螺纹 UNEF				公制迫牙丝攻钻孔径 Metric extrusion tapping hole diameter			
规格 Specification	标准径 Standard diameter	2级牙钻孔径 2nd. accuracy tapping hole diameter		规格 Specification	精度 Accuracy	最大 Max	最小 Min
		最大 Max	最小 Min				
No.12 -32	4.70	4.826	4.623	1	-8	22.30	21.971
1/4 -32	5.60	5.689	5.487	1-1/8	-7	25.00	24.638
5/16 -32	7.10	7.264	7.087	1-1/4	-7	28.20	27.813
3/8 -32	8.70	8.864	8.662	1-3/8	-6	30.80	30.353
7/16 -28	10.20	10.337	10.135	1-1/2	-6	34.00	33.528
1/2 -28	11.80	11.938	11.710	1-3/4	-5	39.50	38.964
9/16 -24	13.20	13.385	13.132	2	-4-1/2	45.20	44.679
5/8 -24	14.80	14.968	14.732	公制迫牙丝攻钻孔径 Metric extrusion tapping hole diameter			
3/4 -20	17.80	17.957	17.679	规格 Specification	精度 Accuracy	最大 Max	最小 Min
7/8 -20	21.00	21.132	20.854	M1.0 0.25	G4	0.92	0.89
1 -20	24.10	24.307	24.029	M1.2 0.25	G4	1.11	1.09
-	-	-	-	M1.4 0.30	G4	1.30	1.26
-	-	-	-	M1.6 0.35	G4	1.47	1.43
-	-	-	-	M1.7 0.35	G4	1.57	1.52
-	-	-	-	M1.8 0.35	G4	1.67	1.62
-	-	-	-	M2.0 0.40	G4	1.84	1.79
-	-	-	-	M2.2 0.45	G5	2.04	1.98
-	-	-	-	M2.3 0.40	G4	2.14	2.09
-	-	-	-	M2.5 0.45	G5	2.34	2.27

手柄系统 ADAPTORS

手柄系统 ADAPTORS

SOLID CARBIDE DRILLS

整体硬质合金钻头系列



E

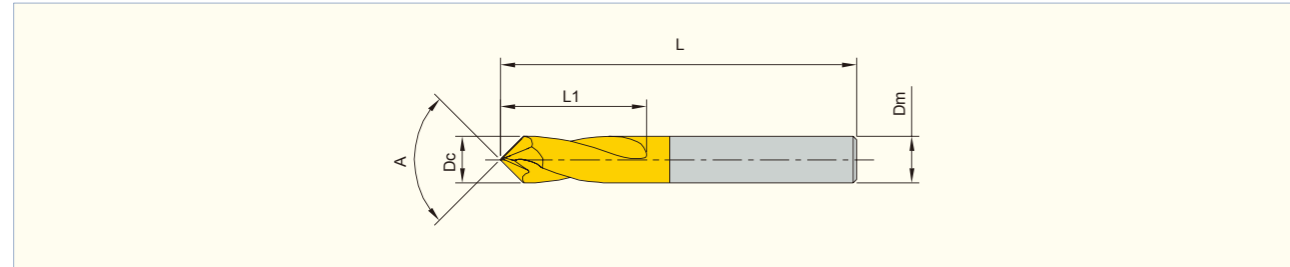
硬质合金刀具 SOLID CARBIDE TOOLS

整体硬质合金钻头系列 Solid Carbide Drills

整体硬质合金定心钻 E3 Solid Carbide Pilot Drill	E3
DF 硬质合金外冷钻头 (3xD)..... E4 Solid Carbide Drill with External Coolant (3xD)	E4
DF 硬质合金内冷钻头 (3xD)..... E6 Solid Carbide Drill with Internal Coolant (3xD)	E6
DF 硬质合金外冷钻头 (5xD)..... E8 Solid Carbide Drill with External Coolant (5xD)	E8
DF 硬质合金内冷钻头 (5xD)..... E10 Solid Carbide Drill with Internal Coolant (5xD)	E10
DF 硬质合金外冷三刃钻 E12 Solid Carbide Drill with External Coolant / 3 Flutes	E12
DF 硬质合金内冷三刃钻 E14 Solid Carbide Drill with Internal Coolant / 3 Flutes	E14
整体硬质合金外冷钻头 (3 × D)..... E16 Solid Carbide Drill with External Coolant (3xD)	E16
整体硬质合金内冷钻头 (3 × D)..... E18 Solid Carbide Drill with Internal Coolant (3xD)	E18
整体硬质合金外冷钻头 (5 × D)..... E20 Solid Carbide Drill with External Coolant (5xD)	E20
整体硬质合金内冷钻头 (5 × D)..... E22 Solid Carbide Drill with Internal Coolant (5xD)	E22
整体硬质合金内冷钻头 (8 × D)..... E24 Solid Carbide Drill with Internal Coolant (8xD)	E24
整体硬质合金内冷钻头 (12 × D)..... E26 Solid Carbide Drill with Internal Coolant (12xD)	E26
整体硬质合金内冷钻头 (20 × D)..... E27 Solid Carbide Drill with Internal Coolant (20xD)	E27
深孔加工推荐钻削步骤 (20 × D)..... E28 Recommended Drilling Procedure for Deep Hole Drilling (20xD)	E28
整体硬质合金钻头推荐钻削参数 (20 × D)..... E28 Recommended Drilling Conditions for Solid Carbide Drills (20xD)	E28

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

整体硬质合金定心钻 Solid Carbide Pilot Drill

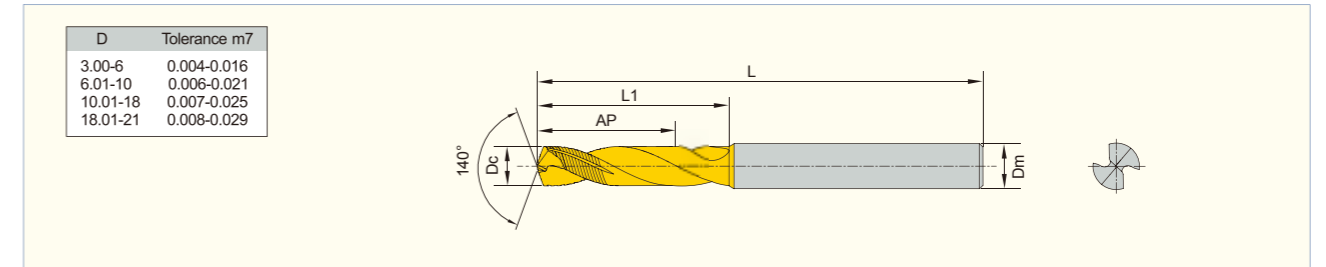


规格型号 Designation	基本尺寸 Dimension					在库 Stock
	刃径 Diameter	顶角 Apical angle	槽长 Slot length	总长 Total length	柄径 Shank diameter	
	Dc	A	L1	L	Dm	SG830
DXA D050.012.062.C05	5	90	12	62	5	●
DXB D050.012.062.C05	5	120	12	62	5	●
DXA D060.015.066.C06	6	90	15	66	6	●
DXB D060.015.066.C06	6	120	15	66	6	●
DXA D080.020.079.C08	8	90	20	79	8	●
DXB D080.020.079.C08	8	120	20	79	8	●
DXA D100.025.089.C10	10	90	25	89	10	●
DXB D100.025.089.C10	10	120	25	89	10	●
DXA D120.030.102.C12	12	90	30	102	12	●
DXB D120.030.102.C12	12	120	30	102	12	●
DXA D140.035.107.C14	14	90	35	107	14	●
DXB D140.035.107.C14	14	120	35	107	14	●
DXA D160.040.115.C16	16	90	40	115	16	●
DXB D160.040.115.C16	16	120	40	115	16	●

- 可根据用户的加工要求制造。
- Provide customized service.

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

DF 硬质合金外冷钻头 (3×D) Solid Carbide Drill with External Coolant (3xD)



D	Tolerance m7
3.00-6	0.004-0.016
6.01-10	0.006-0.021
10.01-18	0.007-0.025
18.01-21	0.008-0.029

规格型号 Designation	基本尺寸 Dimension					在库 Stock	
	刃径 Diameter	槽长 Slot length	钻深 Hole depth	总长 Total length	柄径 Shank diameter	SG830	SG330
	Dc	L1	AP	L	Dm		
DF170 D030.014.062.C06	3	20	14	62	6	●	●
DF170 D033.014.062.C06	3.3	20	14	62	6	●	●
DF170 D037.014.062.C06	3.7	20	14	62	6	●	●
DF170 D038.017.066.C06	3.8	24	17	66	6	●	●
DF170 D040.017.066.C06	4	24	17	66	6	●	●
DF170 D042.017.066.C06	4.2	24	17	66	6	●	●
DF170 D047.017.066.C06	4.7	24	17	66	6	●	●
DF170 D050.020.066.C06	5	28	20	66	6	●	●
DF170 D056.020.066.C06	5.6	28	20	66	6	●	●
DF170 D057.020.066.C06	5.7	28	20	66	6	●	●
DF170 D060.020.066.C06	6	28	20	66	6	●	●
DF170 D068.024.079.C08	6.8	34	24	79	8	●	●
DF170 D070.024.079.C08	7	34	24	79	8	●	●
DF170 D075.029.079.C08	7.5	41	29	79	8	●	●
DF170 D077.029.079.C08	7.7	41	29	79	8	●	●
DF170 D080.029.079.C08	8	41	29	79	8	●	●
DF170 D085.035.089.C10	8.5	47	35	89	10	●	●
DF170 D090.035.089.C10	9	47	35	89	10	●	●
DF170 D094.035.089.C10	9.4	47	35	89	10	●	●
DF170 D096.035.089.C10	9.6	47	35	89	10	●	●
DF170 D100.035.089.C10	10	47	35	89	10	●	●

- 可根据用户的加工要求制造。
- Provide customized service.

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

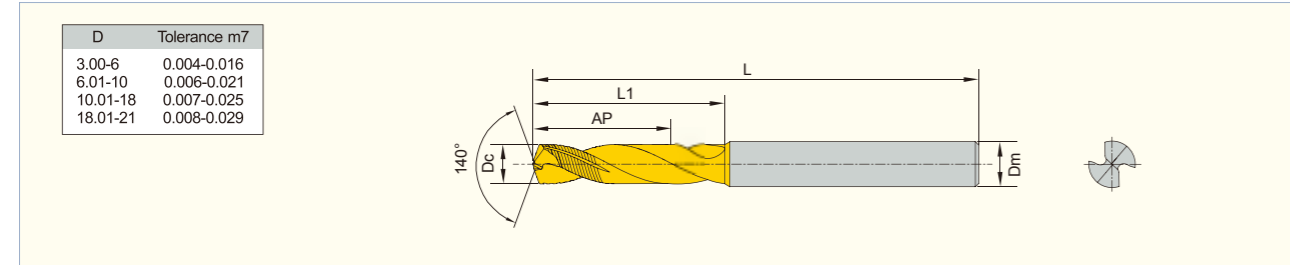
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Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

DF 硬质合金外冷钻头 (3×D)

Solid Carbide Drill with External Coolant (3xD)



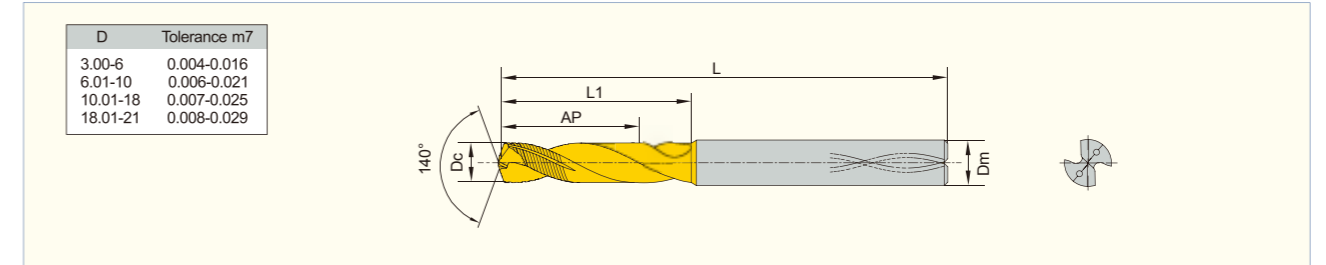
规格型号 Designation	基本尺寸 Dimension					在庫 Stock	
	刃径 Diameter	槽长 Slot length	钻深 Hole depth	总长 Total length	柄径 Shank diameter	SG830	SG330
	Dc	L1	AP	L	Dm		
DF170 D102.040.102.C12	10.2	55	40	102	12	●	●
DF170 D105.040.102.C12	10.5	55	40	102	12	●	●
DF170 D110.040.102.C12	11	55	40	102	12	●	●
DF170 D113.040.102.C12	11.3	55	40	102	12	●	●
DF170 D114.040.102.C12	11.4	55	40	102	12	●	●
DF170 D116.040.102.C12	11.6	55	40	102	12	●	●
DF170 D120.040.102.C12	12	55	40	102	12	●	●
DF170 D125.043.107.C14	12.5	60	43	107	14	●	●
DF170 D128.043.107.C14	12.8	60	43	107	14	●	●
DF170 D130.043.107.C14	13	60	43	107	14	●	●
DF170 D131.043.107.C14	13.1	60	43	107	14	●	●
DF170 D134.043.107.C14	13.4	60	43	107	14	●	●
DF170 D136.043.107.C14	13.6	60	43	107	14	●	●
DF170 D140.043.107.C14	14	60	43	107	14	●	●
DF170 D145.045.115.C16	14.5	65	45	115	16	●	●
DF170 D150.045.115.C16	15	65	45	115	16	●	●
DF170 D151.045.115.C16	15.1	65	45	115	16	●	●
DF170 D154.045.115.C16	15.4	65	45	115	16	●	●
DF170 D156.045.115.C16	15.6	65	45	115	16	●	●
DF170 D160.045.115.C16	16	65	45	115	16	●	●
DF170 D165.051.123.C18	16.5	73	51	123	18	●	●
DF170 D169.051.123.C18	16.9	73	51	123	18	●	●
DF170 D170.051.123.C18	17	73	51	123	18	●	●
DF170 D171.051.123.C18	17.1	73	51	123	18	●	●
DF170 D175.051.123.C18	17.5	73	51	123	18	●	●
DF170 D176.051.123.C18	17.6	73	51	123	18	●	●
DF170 D180.051.123.C18	18	73	51	123	18	●	●
DF170 D185.055.131.C20	18.5	79	55	131	20	●	●
DF170 D189.055.131.C20	18.9	79	55	131	20	●	●
DF170 D190.055.131.C20	19	79	55	131	20	●	●
DF170 D200.055.131.C20	20	79	55	131	20	●	●

● 可根据用户的加工要求制造。
● Provide customized service.

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

DF 硬质合金内冷钻头 (3×D)

Solid Carbide Drill with Internal Coolant (3xD)



规格型号 Designation	基本尺寸 Dimension					在庫 Stock	
	刃径 Diameter	槽长 Slot length	钻深 Hole depth	总长 Total length	柄径 Shank diameter	SG830	SG330
	Dc	L1	AP	L	Dm		
DFC170 D030.014.062.C06	3	20	14	62	6	●	●
DFC170 D033.014.062.C06	3.3	20	14	62	6	●	●
DFC170 D037.014.062.C06	3.7	20	14	62	6	●	●
DFC170 D038.017.066.C06	3.8	24	17	66	6	●	●
DFC170 D040.017.066.C06	4	24	17	66	6	●	●
DFC170 D042.017.066.C06	4.2	24	17	66	6	●	●
DFC170 D047.017.066.C06	4.7	24	17	66	6	●	●
DFC170 D050.020.066.C06	5	28	20	66	6	●	●
DFC170 D056.020.066.C06	5.6	28	20	66	6	●	●
DFC170 D057.020.066.C06	5.7	28	20	66	6	●	●
DFC170 D060.020.066.C06	6	28	20	66	6	●	●
DFC170 D068.024.079.C08	6.8	34	24	79	8	●	●
DFC170 D070.024.079.C08	7	34	24	79	8	●	●
DFC170 D075.029.079.C08	7.5	41	29	79	8	●	●
DFC170 D077.029.079.C08	7.7	41	29	79	8	●	●
DFC170 D080.029.079.C08	8	41	29	79	8	●	●
DFC170 D085.035.089.C10	8.5	47	35	89	10	●	●
DFC170 D090.035.089.C10	9	47	35	89	10	●	●
DFC170 D094.035.089.C10	9.4	47	35	89	10	●	●
DFC170 D096.035.089.C10	9.6	47	35	89	10	●	●
DFC170 D100.035.089.C10	10	47	35	89	10	●	●
DFC170 D102.040.102.C12	10.2	55	40	102	12	●	●
DFC170 D105.040.102.C12	10.5	55	40	102	12	●	●
DFC170 D110.040.102.C12	11	55	40	102	12	●	●
DFC170 D113.040.102.C12	11.3	55	40	102	12	●	●
DFC170 D114.040.102.C12	11.4	55	40	102	12	●	●
DFC170 D116.040.102.C12	11.6	55	40	102	12	●	●

● 可根据用户的加工要求制造。
● Provide customized service.

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

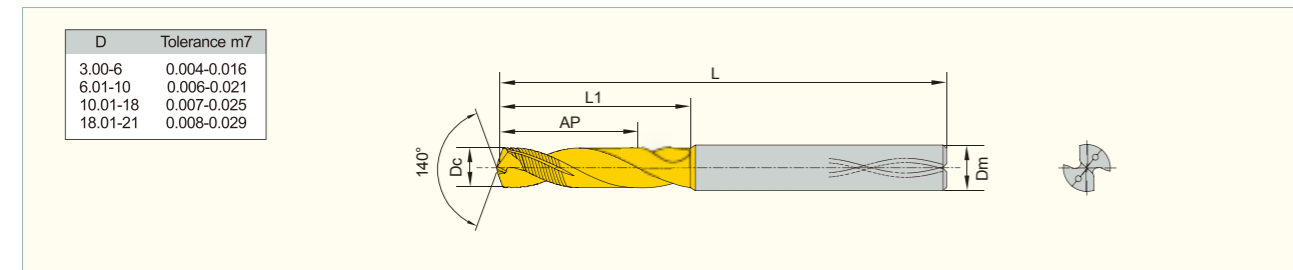
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Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

DF 硬质合金内冷钻头 (3×D)

Solid Carbide Drill with Internal Coolant (3xD)



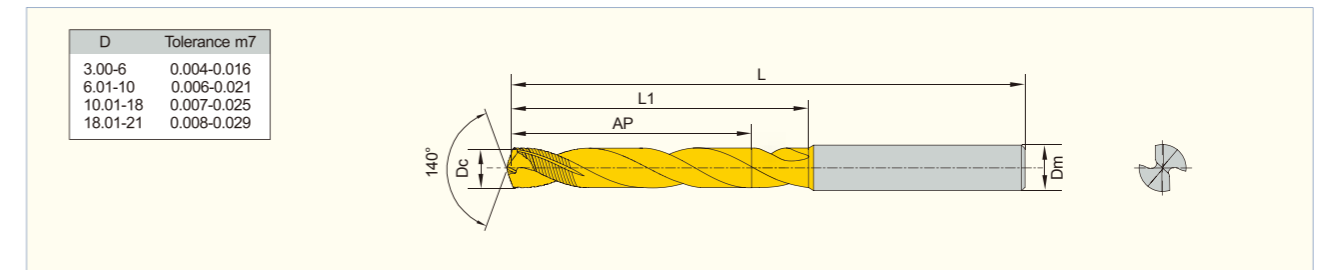
规格型号 Designation	基本尺寸 Dimension					在库 Stock	
	刃径 Diameter	槽长 Slot length	钻深 Hole depth	总长 Total length	柄径 Shank diameter	SG830	SG330
	Dc	L1	AP	L	Dm		
DFC170 D120.040.102.C12	12	55	40	102	12	●	●
DFC170 D125.043.107.C14	12.5	60	43	107	14	●	●
DFC170 D128.043.107.C14	12.8	60	43	107	14	●	●
DFC170 D130.043.107.C14	13	60	43	107	14	●	●
DFC170 D131.043.107.C14	13.1	60	43	107	14	●	●
DFC170 D134.043.107.C14	13.4	60	43	107	14	●	●
DFC170 D136.043.107.C14	13.6	60	43	107	14	●	●
DFC170 D140.043.107.C14	14	60	43	107	14	●	●
DFC170 D145.045.115.C16	14.5	65	45	115	16	●	●
DFC170 D150.045.115.C16	15	65	45	115	16	●	●
DFC170 D151.045.115.C16	15.1	65	45	115	16	●	●
DFC170 D154.045.115.C16	15.4	65	45	115	16	●	●
DFC170 D156.045.115.C16	15.6	65	45	115	16	●	●
DFC170 D160.045.115.C16	16	65	45	115	16	●	●
DFC170 D165.051.123.C18	16.5	73	51	123	18	●	●
DFC170 D169.051.123.C18	16.9	73	51	123	18	●	●
DFC170 D170.051.123.C18	17	73	51	123	18	●	●
DFC170 D171.051.123.C18	17.1	73	51	123	18	●	●
DFC170 D175.051.123.C18	17.5	73	51	123	18	●	●
DFC170 D176.051.123.C18	17.6	73	51	123	18	●	●
DFC170 D180.051.123.C18	18	73	51	123	18	●	●
DFC170 D185.055.131.C20	18.5	79	55	131	20	●	●
DFC170 D189.055.131.C20	18.9	79	55	131	20	●	●
DFC170 D190.055.131.C20	19	79	55	131	20	●	●
DFC170 D200.055.131.C20	20	79	55	131	20	●	●

- 可根据用户的加工要求制造。
- Provide customized service.

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

DF 硬质合金外冷钻头 (5×D)

Solid Carbide Drill with External Coolant (5xD)



规格型号 Designation	基本尺寸 Dimension					在库 Stock	
	刃径 Diameter	槽长 Slot length	钻深 Hole depth	总长 Total length	柄径 Shank diameter	SG830	SG330
	Dc	L1	AP	L	Dm		
DF170 D030.023.066.C06	3	28	23	66	6	●	●
DF170 D033.023.066.C06	3.3	28	23	66	6	●	●
DF170 D037.023.066.C06	3.7	28	23	66	6	●	●
DF170 D038.029.074.C06	3.8	36	29	74	6	●	●
DF170 D040.029.074.C06	4	36	29	74	6	●	●
DF170 D042.029.074.C06	4.2	36	29	74	6	●	●
DF170 D047.029.074.C06	4.7	36	29	74	6	●	●
DF170 D050.035.082.C06	5	44	35	82	6	●	●
DF170 D056.035.082.C06	5.6	44	35	82	6	●	●
DF170 D057.035.082.C06	5.7	44	35	82	6	●	●
DF170 D060.035.082.C06	6	44	35	82	6	●	●
DF170 D068.043.091.C08	6.8	53	43	91	8	●	●
DF170 D070.043.091.C08	7	53	43	91	8	●	●
DF170 D075.043.091.C08	7.5	53	43	91	8	●	●
DF170 D077.043.091.C08	7.7	53	43	91	8	●	●
DF170 D080.043.091.C08	8	53	43	91	8	●	●
DF170 D085.049.103.C10	8.5	61	49	103	10	●	●
DF170 D090.049.103.C10	9	61	49	103	10	●	●
DF170 D094.049.103.C10	9.4	61	49	103	10	●	●
DF170 D096.049.103.C10	9.6	61	49	103	10	●	●
DF170 D100.049.103.C10	10	61	49	103	10	●	●
DF170 D102.056.118.C12	10.2	71	56	118	12	●	●
DF170 D105.056.118.C12	10.5	71	56	118	12	●	●
DF170 D110.056.118.C12	11	71	56	118	12	●	●
DF170 D113.056.118.C12	11.3	71	56	118	12	●	●
DF170 D114.056.118.C12	11.4	71	56	118	12	●	●
DF170 D116.056.118.C12	11.6	71	56	118	12	●	●

- 可根据用户的加工要求制造。
- Provide customized service.

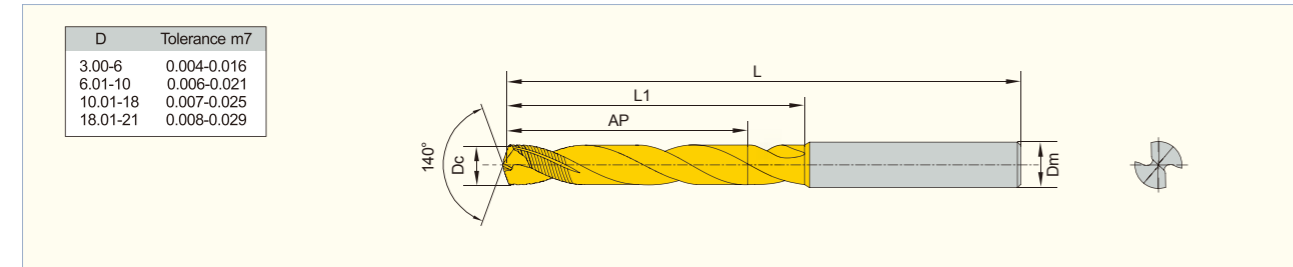
- 标准库存 Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

- 标准库存 Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

DF 硬质合金外冷钻头 (5×D)

Solid Carbide Drill with External Coolant (5xD)



D	Tolerance m7
3.00-6	0.004-0.016
6.01-10	0.006-0.021
10.01-18	0.007-0.025
18.01-21	0.008-0.029

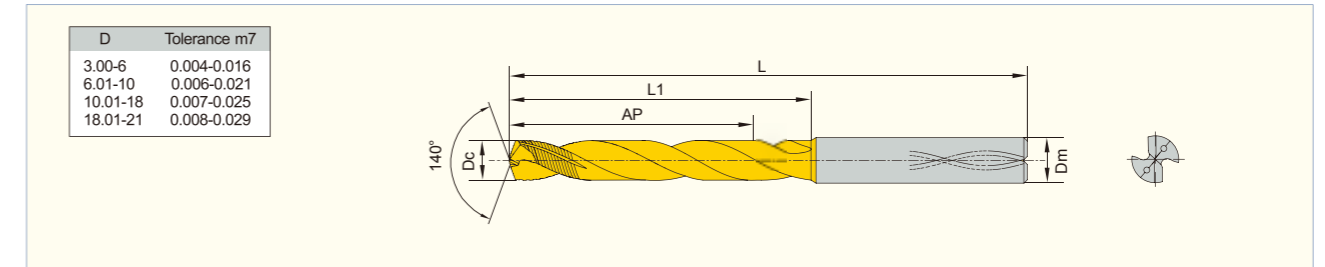
规格型号 Designation	基本尺寸 Dimension					在庫 Stock	
	刃径 Diameter	槽长 Slot length	钻深 Hole depth	总长 Total length	柄径 Shank diameter	SG830	SG330
	Dc	L1	AP	L	Dm		
DF170 D125.060.124.C14	12.5	77	60	124	14	●	●
DF170 D128.060.124.C14	12.8	77	60	124	14	●	●
DF170 D130.060.124.C14	13	77	60	124	14	●	●
DF170 D131.060.124.C14	13.1	77	60	124	14	●	●
DF170 D134.060.124.C14	13.4	77	60	124	14	●	●
DF170 D136.060.124.C14	13.6	77	60	124	14	●	●
DF170 D140.060.124.C14	14	77	60	124	14	●	●
DF170 D145.063.133.C16	14.5	83	63	133	16	●	●
DF170 D150.063.133.C16	15	83	63	133	16	●	●
DF170 D151.063.133.C16	15.1	83	63	133	16	●	●
DF170 D154.063.133.C16	15.4	83	63	133	16	●	●
DF170 D156.063.133.C16	15.6	83	63	133	16	●	●
DF170 D160.063.133.C16	16	83	63	133	16	●	●
DF170 D165.071.143.C18	16.5	93	71	143	18	●	●
DF170 D169.071.143.C18	16.9	93	71	143	18	●	●
DF170 D170.071.143.C18	17	93	71	143	18	●	●
DF170 D171.071.143.C18	17.1	93	71	143	18	●	●
DF170 D175.071.143.C18	17.5	93	71	143	18	●	●
DF170 D176.071.143.C18	17.6	93	71	143	18	●	●
DF170 D180.071.143.C18	18	93	71	143	18	●	●
DF170 D185.077.153.C20	18.5	101	77	153	20	●	●
DF170 D189.077.153.C20	18.9	101	77	153	20	●	●
DF170 D190.077.153.C20	19	101	77	153	20	●	●
DF170 D200.077.153.C20	20	101	77	153	20	●	●

● 可根据用户的加工要求制造。
● Provide customized service.

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

DF 硬质合金内冷钻头 (5×D)

Solid Carbide Drill with Internal Coolant (5xD)



D	Tolerance m7
3.00-6	0.004-0.016
6.01-10	0.006-0.021
10.01-18	0.007-0.025
18.01-21	0.008-0.029

规格型号 Designation	基本尺寸 Dimension					在庫 Stock	
	刃径 Diameter	槽长 Slot length	钻深 Hole depth	总长 Total length	柄径 Shank diameter	SG830	SG330
	Dc	L1	AP	L	Dm		
DFC170 D030.023.066.C06	3	28	23	66	6	●	●
DFC170 D033.023.066.C06	3.3	28	23	66	6	●	●
DFC170 D037.023.066.C06	3.7	28	23	66	6	●	●
DFC170 D038.029.074.C06	3.8	36	29	74	6	●	●
DFC170 D040.029.074.C06	4	36	29	74	6	●	●
DFC170 D042.029.074.C06	4.2	36	29	74	6	●	●
DFC170 D047.029.074.C06	4.7	36	29	74	6	●	●
DFC170 D050.035.082.C06	5	44	35	82	6	●	●
DFC170 D056.035.082.C06	5.6	44	35	82	6	●	●
DFC170 D057.035.082.C06	5.7	44	35	82	6	●	●
DFC170 D060.035.082.C06	6	44	35	82	6	●	●
DFC170 D068.043.091.C08	6.8	53	43	91	8	●	●
DFC170 D070.043.091.C08	7	53	43	91	8	●	●
DFC170 D075.043.091.C08	7.5	53	43	91	8	●	●
DFC170 D077.043.091.C08	7.7	53	43	91	8	●	●
DFC170 D080.043.091.C08	8	53	43	91	8	●	●
DFC170 D085.049.103.C10	8.5	61	49	103	10	●	●
DFC170 D090.049.103.C10	9	61	49	103	10	●	●
DFC170 D094.049.103.C10	9.4	61	49	103	10	●	●
DFC170 D096.049.103.C10	9.6	61	49	103	10	●	●
DFC170 D100.049.103.C10	10	61	49	103	10	●	●
DFC170 D102.056.118.C12	10.2	71	56	118	12	●	●
DFC170 D105.056.118.C12	10.5	71	56	118	12	●	●
DFC170 D110.056.118.C12	11	71	56	118	12	●	●
DFC170 D113.056.118.C12	11.3	71	56	118	12	●	●
DFC170 D114.056.118.C12	11.4	71	56	118	12	●	●
DFC170 D116.056.118.C12	11.6	71	56	118	12	●	●

● 可根据用户的加工要求制造。
● Provide customized service.

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

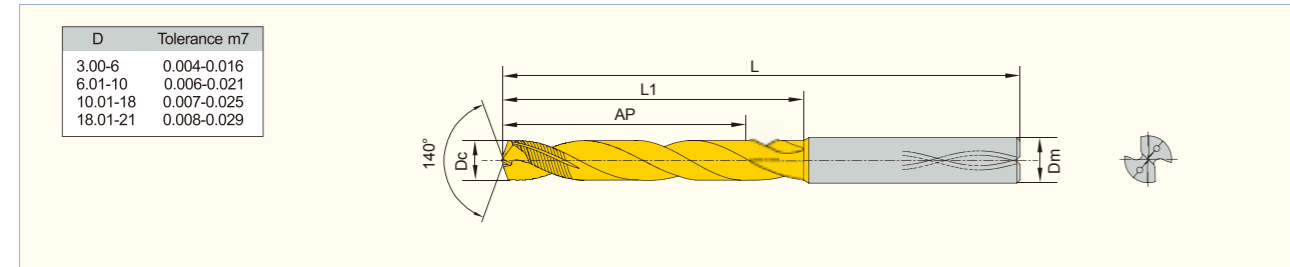
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Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

DF 硬质合金内冷钻头 (5×D)

Solid Carbide Drill with Internal Coolant (5xD)



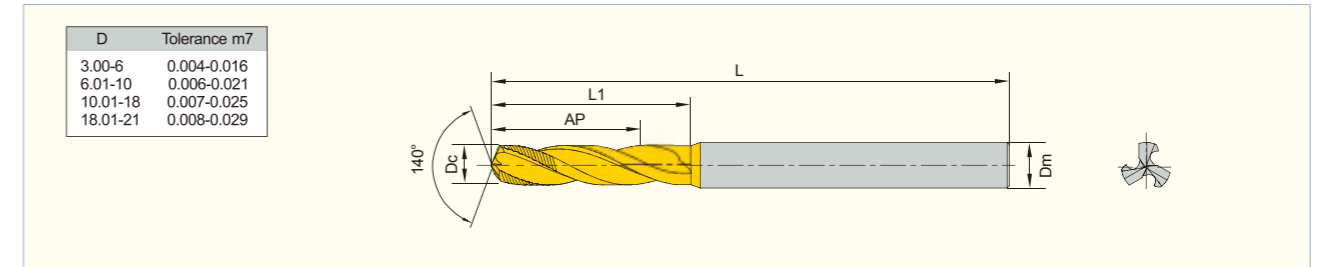
规格型号 Designation	基本尺寸 Dimension					在庫 Stock	
	刃径 Diameter	槽长 Slot length	钻深 Hole depth	总长 Total length	柄径 Shank diameter	SG830	SG330
	Dc	L1	AP	L	Dm		
DFC170 D125.060.124.C14	12.5	77	60	124	14	●	●
DFC170 D128.060.124.C14	12.8	77	60	124	14	●	●
DFC170 D130.060.124.C14	13	77	60	124	14	●	●
DFC170 D131.060.124.C14	13.1	77	60	124	14	●	●
DFC170 D134.060.124.C14	13.4	77	60	124	14	●	●
DFC170 D136.060.124.C14	13.6	77	60	124	14	●	●
DFC170 D140.060.124.C14	14	77	60	124	14	●	●
DFC170 D145.063.133.C16	14.5	83	63	133	16	●	●
DFC170 D150.063.133.C16	15	83	63	133	16	●	●
DFC170 D151.063.133.C16	15.1	83	63	133	16	●	●
DFC170 D154.063.133.C16	15.4	83	63	133	16	●	●
DFC170 D156.063.133.C16	15.6	83	63	133	16	●	●
DFC170 D160.063.133.C16	16	83	63	133	16	●	●
DFC170 D165.071.143.C18	16.5	93	71	143	18	●	●
DFC170 D169.071.143.C18	16.9	93	71	143	18	●	●
DFC170 D170.071.143.C18	17	93	71	143	18	●	●
DFC170 D171.071.143.C18	17.1	93	71	143	18	●	●
DFC170 D175.071.143.C18	17.5	93	71	143	18	●	●
DFC170 D176.071.143.C18	17.6	93	71	143	18	●	●
DFC170 D180.071.143.C18	18	93	71	143	18	●	●
DFC170 D185.077.153.C20	18.5	101	77	153	20	●	●
DFC170 D189.077.153.C20	18.9	101	77	153	20	●	●
DFC170 D190.077.153.C20	19	101	77	153	20	●	●
DFC170 D200.077.153.C20	20	101	77	153	20	●	●

● 可根据用户的加工要求制造。
● Provide customized service.

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

DF 硬质合金外冷三刃钻

Solid Carbide Drill with External Coolant / 3 Flutes



规格型号 Designation	基本尺寸 Dimension					在庫 Stock	
	刃径 Diameter	槽长 Slot length	钻深 Hole depth	总长 Total length	柄径 Shank diameter	SG830	SG330
	Dc	L1	AP	L	Dm		
DF173 D060.035.082.C06	6	44	35	82	6	●	●
DF173 D065.043.091.C08	6.5	53	43	91	8	●	●
DF173 D068.043.091.C08	6.8	53	43	91	8	●	●
DF173 D070.043.091.C08	7	53	43	91	8	●	●
DF173 D075.043.091.C08	7.5	53	43	91	8	●	●
DF173 D078.043.091.C08	7.8	53	43	91	8	●	●
DF173 D080.043.091.C08	8	53	43	91	8	●	●
DF173 D085.049.103.C10	8.5	61	49	103	10	●	●
DF173 D090.049.103.C10	9	61	49	103	10	●	●
DF173 D094.049.103.C10	9.4	61	49	103	10	●	●
DF173 D096.049.103.C10	9.6	61	49	103	10	●	●
DF173 D100.049.103.C10	10	61	49	103	10	●	●
DF173 D102.056.118.C12	10.2	71	56	118	12	●	●
DF173 D105.056.118.C12	10.5	71	56	118	12	●	●
DF173 D110.056.118.C12	11	71	56	118	12	●	●
DF173 D113.056.118.C12	11.3	71	56	118	12	●	●
DF173 D116.056.118.C12	11.6	71	56	118	12	●	●

● 可根据用户的加工要求制造。
● Provide customized service.

● 标准库存
Item in stock

○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

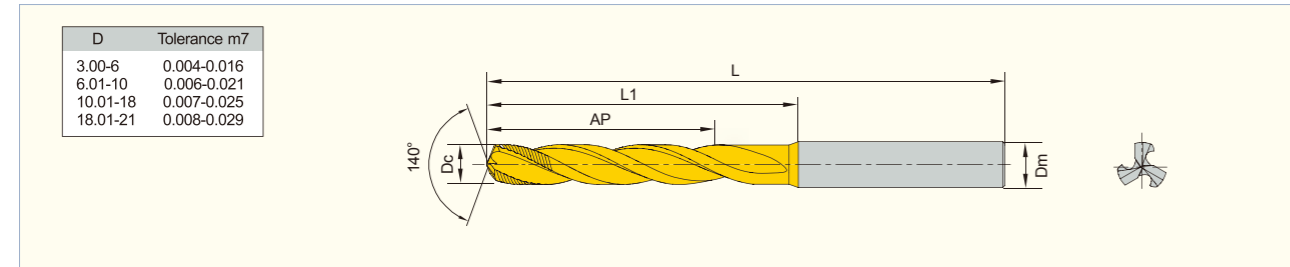
○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

DF 硬质合金外冷三刃钻

Solid Carbide Drill with External Coolant / 3 Flutes



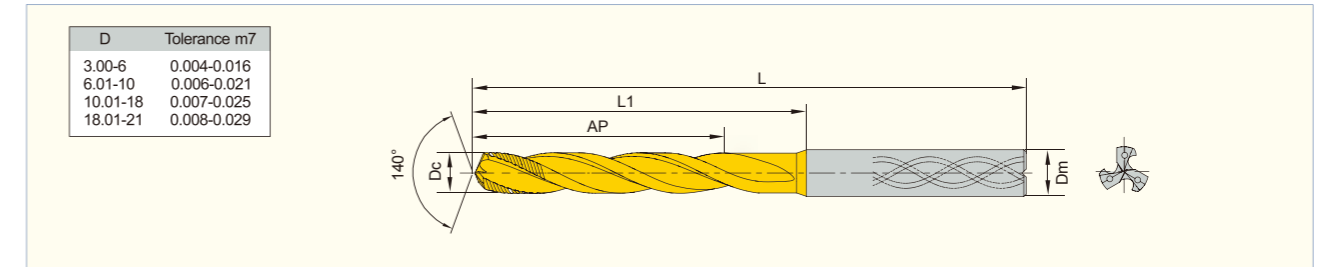
规格型号 Designation	基本尺寸 Dimension					在庫 Stock	
	刃径 Diameter	槽长 Slot length	钻深 Hole depth	总长 Total length	柄径 Shank diameter	SG830	SG330
	Dc	L1	AP	L	Dm		
DF173 D120.056.118.C12	12	71	56	118	12	●	●
DF173 D125.060.124.C14	12.5	77	60	124	14	●	●
DF173 D128.060.124.C14	12.8	77	60	124	14	●	●
DF173 D130.060.124.C14	13	77	60	124	14	●	●
DF173 D131.060.124.C14	13.1	77	60	124	14	●	●
DF173 D134.060.124.C14	13.4	77	60	124	14	●	●
DF173 D136.060.124.C14	13.6	77	60	124	14	●	●
DF173 D140.060.124.C14	14	77	60	124	14	●	●
DF173 D145.063.133.C16	14.5	83	63	133	16	●	●
DF173 D150.063.133.C16	15	83	63	133	16	●	●
DF173 D151.063.133.C16	15.1	83	63	133	16	●	●
DF173 D154.063.133.C16	15.4	83	63	133	16	●	●
DF173 D156.063.133.C16	15.6	83	63	133	16	●	●
DF173 D160.063.133.C16	16	83	63	133	16	●	●
DF173 D165.071.143.C18	16.5	93	71	143	18	●	●
DF173 D169.071.143.C18	16.9	93	71	143	18	●	●
DF173 D170.071.143.C18	17	93	71	143	18	●	●
DF173 D175.071.143.C18	17	93	71	143	18	●	●
DF173 D176.071.143.C18	17.6	93	71	143	18	●	●
DF173 D180.071.143.C18	18	93	71	143	18	●	●
DF173 D185.077.153.C20	18.5	101	77	153	20	●	●
DF173 D189.077.153.C20	18.9	101	77	153	20	●	●
DF173 D190.077.153.C20	19	101	77	153	20	●	●
DF173 D200.077.153.C20	20	101	77	153	20	●	●

● 可根据用户的加工要求制造。
● Provide customized service.

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

DF 硬质合金内冷三刃钻

Solid Carbide Drill with Internal Coolant / 3 Flutes



规格型号 Designation	基本尺寸 Dimension					在庫 Stock	
	刃径 Diameter	槽长 Slot length	钻深 Hole depth	总长 Total length	柄径 Shank diameter	SG830	SG330
	Dc	L1	AP	L	Dm		
DFC173 D060.035.082.C06	6	44	35	82	6	●	●
DFC173 D065.043.091.C08	6.5	53	43	91	8	●	●
DFC173 D068.043.091.C08	6.8	53	43	91	8	●	●
DFC173 D070.043.091.C08	7	53	43	91	8	●	●
DFC173 D075.043.091.C08	7.5	53	43	91	8	●	●
DFC173 D078.043.091.C08	7.8	53	43	91	8	●	●
DFC173 D080.043.091.C08	8	53	43	91	8	●	●
DFC173 D085.049.103.C10	8.5	61	49	103	10	●	●
DFC173 D090.049.103.C10	9	61	49	103	10	●	●
DFC173 D094.049.103.C10	9.4	61	49	103	10	●	●
DFC173 D096.049.103.C10	9.6	61	49	103	10	●	●
DFC173 D100.049.103.C10	10	61	49	103	10	●	●
DFC173 D102.056.118.C12	10.2	71	56	118	12	●	●
DFC173 D105.056.118.C12	10.5	71	56	118	12	●	●
DFC173 D110.056.118.C12	11	71	56	118	12	●	●
DFC173 D113.056.118.C12	11.3	71	56	118	12	●	●
DFC173 D116.056.118.C12	11.6	71	56	118	12	●	●
DFC173 D120.056.118.C12	12	71	56	118	12	●	●
DFC173 D125.060.124.C14	12.5	77	60	124	14	●	●
DFC173 D128.060.124.C14	12.8	77	60	124	14	●	●

● 可根据用户的加工要求制造。
● Provide customized service.

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

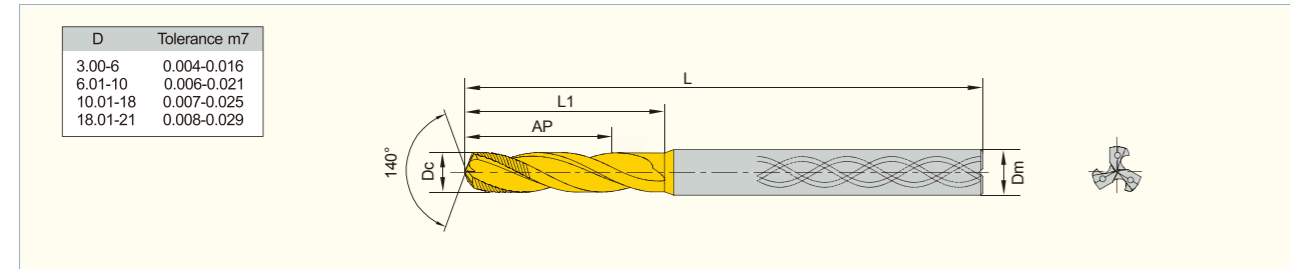
● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

DF 硬质合金内冷三刃钻

Solid Carbide Drill with Internal Coolant / 3 Flutes



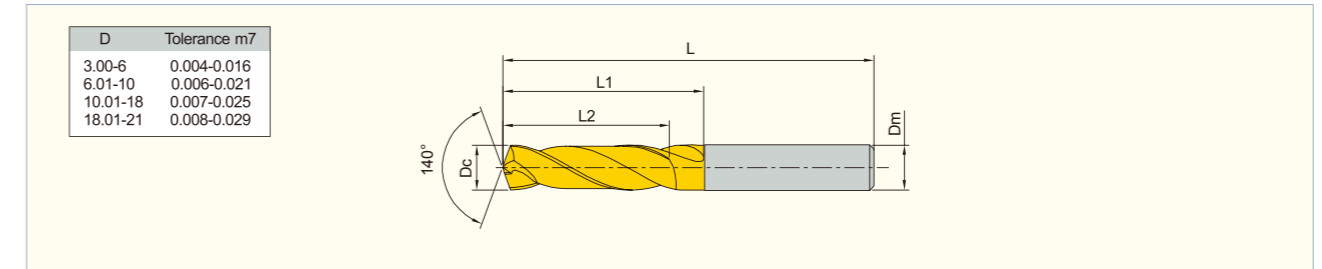
规格型号 Designation	基本尺寸 Dimension					在库 Stock	
	刃径 Diameter	槽长 Slot length	钻深 Hole depth	总长 Total length	柄径 Shank diameter	SG830	SG330
	Dc	L1	AP	L	Dm		
DFC173 D130.060.124.C14	13	77	60	124	14	●	●
DFC173 D131.060.124.C14	13.1	77	60	124	14	●	●
DFC173 D134.060.124.C14	13.4	77	60	124	14	●	●
DFC173 D136.060.124.C14	13.6	77	60	124	14	●	●
DFC173 D140.060.124.C14	14	77	60	124	14	●	●
DFC173 D145.063.133.C16	14.5	83	63	133	16	●	●
DFC173 D150.063.133.C16	15	83	63	133	16	●	●
DFC173 D151.063.133.C16	15.1	83	63	133	16	●	●
DFC173 D154.063.133.C16	15.4	83	63	133	16	●	●
DFC173 D156.063.133.C16	15.6	83	63	133	16	●	●
DFC173 D160.063.133.C16	16	83	63	133	16	●	●
DFC173 D165.071.143.C18	16.5	93	71	143	18	●	●
DFC173 D169.071.143.C18	16.9	93	71	143	18	●	●
DFC173 D170.071.143.C18	17	93	71	143	18	●	●
DFC173 D175.071.143.C18	17	93	71	143	18	●	●
DFC173 D176.071.143.C18	17.6	93	71	143	18	●	●
DFC173 D180.071.143.C18	18	93	71	143	18	●	●
DFC173 D185.077.153.C20	18.5	101	77	153	20	●	●
DFC173 D189.077.153.C20	18.9	101	77	153	20	●	●
DFC173 D190.077.153.C20	19	101	77	153	20	●	●
DFC173 D200.077.153.C20	20	101	77	153	20	●	●

- 可根据用户的加工要求制造。
- Provide customized service.

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

整体硬质合金外冷钻头 (3×D)

Solid Carbide Drill with External Coolant (3xD)



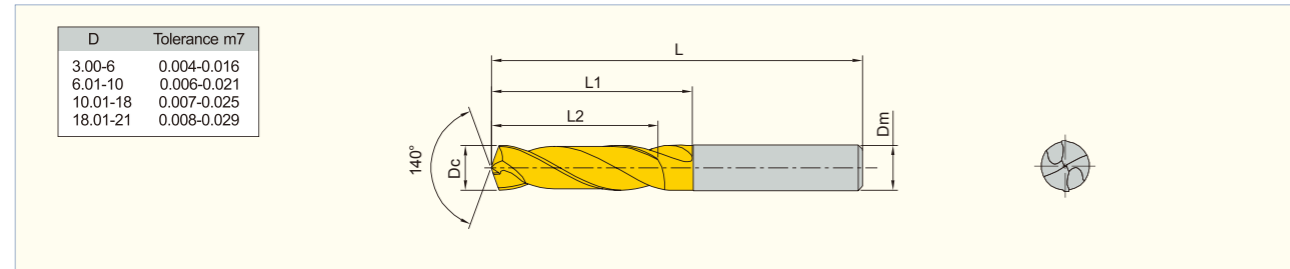
规格型号 Designation	基本尺寸 Dimension					在库 Stock	
	刃径 Diameter	槽长 Slot length	刃长 Flute length	总长 Total length	柄径 Shank diameter	SG830	SG430
	Dc	L1	L2	L	Dm		
CSD D030.014.062.C06	3	20	14	62	6	●	●
CSD D033.014.062.C06	3.3	20	14	62	6	●	●
CSD D037.014.062.C06	3.7	20	14	62	6	●	●
CSD D038.017.066.C06	3.8	24	17	66	6	●	●
CSD D040.017.066.C06	4	24	17	66	6	●	●
CSD D042.017.066.C06	4.2	24	17	66	6	●	●
CSD D047.017.066.C06	4.7	24	17	66	6	●	●
CSD D050.020.066.C06	5	28	20	66	6	●	●
CSD D056.020.066.C06	5.6	28	20	66	6	●	●
CSD D057.020.066.C06	5.7	28	20	66	6	●	●
CSD D060.020.066.C06	6	28	20	66	6	●	●
CSD D068.024.079.C08	6.8	34	24	79	8	●	●
CSD D070.024.079.C08	7	34	24	79	8	●	●
CSD D075.029.079.C08	7.5	41	29	79	8	●	●
CSD D077.029.079.C08	7.7	41	29	79	8	●	●
CSD D080.029.079.C08	8	41	29	79	8	●	●
CSD D085.035.089.C10	8.5	47	35	89	10	●	●
CSD D090.035.089.C10	9	47	35	89	10	●	●
CSD D094.035.089.C10	9.4	47	35	89	10	●	●
CSD D096.035.089.C10	9.6	47	35	89	10	●	●
CSD D100.035.089.C10	10	47	35	89	10	●	●
CSD D102.040.102.C12	10.2	55	40	102	12	●	●
CSD D105.040.102.C12	10.5	55	40	102	12	●	●
CSD D110.040.102.C12	11	55	40	102	12	●	●
CSD D113.040.102.C12	11.3	55	40	102	12	●	●
CSD D114.040.102.C12	11.4	55	40	102	12	●	●
CSD D116.040.102.C12	11.6	55	40	102	12	●	●
CSD D120.040.102.C12	12	55	40	102	12	●	●
CSD D125.043.107.C14	12.5	60	43	107	14	●	●
CSD D128.043.107.C14	12.8	60	43	107	14	●	●
CSD S130.043.107.C14	13	60	43	107	14	●	●
CSD D131.043.107.C14	13.1	60	43	107	14	●	●
CSD D134.043.107.C14	13.4	60	43	107	14	●	●
CSD D136.043.107.C14	13.6	60	43	107	14	●	●
CSD D140.043.107.C14	14	60	43	107	14	●	●

- 可根据用户的加工要求制造。
- Provide customized service.

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

整体硬质合金外冷钻头 (3×D)

Solid Carbide Drill with External Coolant (3xD)



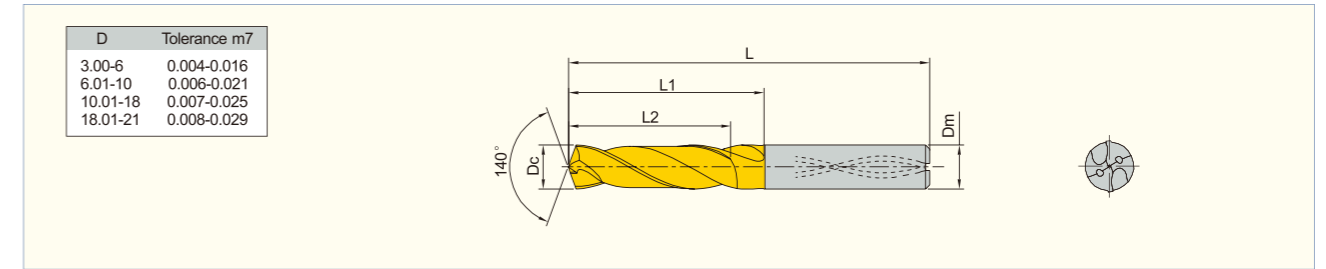
规格型号 Designation	基本尺寸 Dimension					在库 Stock	
	刃径 Diameter	槽长 Slot length	刃长 Flute length	总长 Total length	柄径 Shank diameter	SG830	SG430
	Dc	L1	L2	L	Dm		
CSD D145.045.115.C16	14.5	65	45	115	16	●	●
CSD D150.045.115.C16	15	65	45	115	16	●	●
CSD D151.045.115.C16	15.1	65	45	115	16	●	●
CSD D154.045.115.C16	15.4	65	45	115	16	●	●
CSD D156.045.115.C16	15.6	65	45	115	16	●	●
CSD D160.045.115.C16	16	65	45	115	16	●	●
CSD D165.051.123.C18	16.5	73	51	123	18	●	●
CSD D169.051.123.C18	16.9	73	51	123	18	●	●
CSD D170.051.123.C18	17	73	51	123	18	●	●
CSD D171.051.123.C18	17.1	73	51	123	18	●	●
CSD D175.051.123.C18	17.5	73	51	123	18	●	●
CSD D176.051.123.C18	17.6	73	51	123	18	●	●
CSD D180.051.123.C18	18	73	51	123	18	●	●
CSD D185.055.131.C20	18.5	79	55	131	20	●	●
CSD D189.055.131.C20	18.9	79	55	131	20	●	●
CSD D190.055.131.C20	19	79	55	131	20	●	●
CSD D200.055.131.C20	20	79	55	131	20	●	●

- 可根据用户的加工要求制造。
- Provide customized service.

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

整体硬质合金内冷钻头 (3×D)

Solid Carbide Drill with Internal Coolant (3xD)



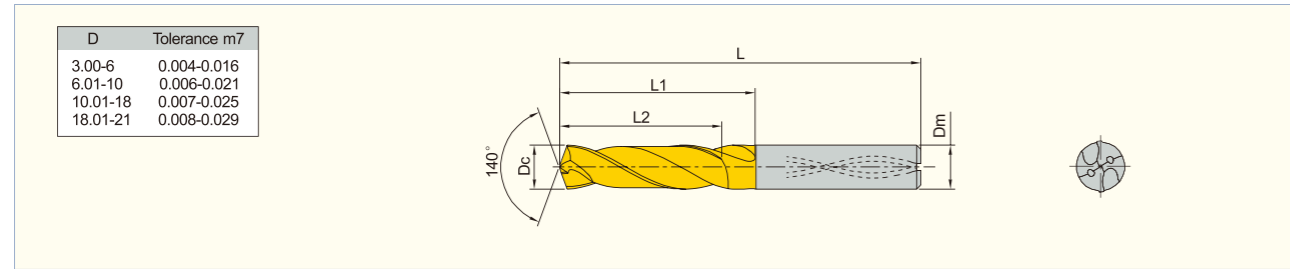
规格型号 Designation	基本尺寸 Dimension					在库 Stock	
	刃径 Diameter	槽长 Slot length	刃长 Flute length	总长 Total length	柄径 Shank diameter	SG830	SG430
	Dc	L1	L2	L	Dm		
CSDC D030.014.062.C06	3	20	14	62	6	●	●
CSDC D033.014.062.C06	3.3	20	14	62	6	●	●
CSDC D037.014.062.C06	3.7	20	14	62	6	●	●
CSDC D038.017.066.C06	3.8	24	17	66	6	●	●
CSDC D040.017.066.C06	4	24	17	66	6	●	●
CSDC D042.017.066.C06	4.2	24	17	66	6	●	●
CSDC D047.017.066.C06	4.7	24	17	66	6	●	●
CSDC D050.020.066.C06	5	28	20	66	6	●	●
CSDC D056.020.066.C06	5.6	28	20	66	6	●	●
CSDC D057.020.066.C06	5.7	28	20	66	6	●	●
CSDC D060.020.066.C06	6	28	20	66	6	●	●
CSDC D068.024.079.C08	6.8	34	24	79	8	●	●
CSDC D070.024.079.C08	7	34	24	79	8	●	●
CSDC D075.029.079.C08	7.5	41	29	79	8	●	●
CSDC D077.029.079.C08	7.7	41	29	79	8	●	●
CSDC D080.029.079.C08	8	41	29	79	8	●	●
CSDC D085.035.089.C10	8.5	47	35	89	10	●	●
CSDC D090.035.089.C10	9	47	35	89	10	●	●
CSDC D094.035.089.C10	9.4	47	35	89	10	●	●
CSDC D096.035.089.C10	9.6	47	35	89	10	●	●
CSDC D100.035.089.C10	10	47	35	89	10	●	●
CSDC D102.040.102.C12	10.2	55	40	102	12	●	●
CSDC D105.040.102.C12	10.5	55	40	102	12	●	●
CSDC D110.040.102.C12	11	55	40	102	12	●	●
CSDC D113.040.102.C12	11.3	55	40	102	12	●	●
CSDC D114.040.102.C12	11.4	55	40	102	12	●	●
CSDC D116.040.102.C12	11.6	55	40	102	12	●	●
CSDC D120.040.102.C12	12	55	40	102	12	●	●
CSDC D125.043.107.C14	12.5	60	43	107	14	●	●
CSDC D128.043.107.C14	12.8	60	43	107	14	●	●
CSDC D130.043.107.C14	13	60	43	107	14	●	●
CSDC D131.043.107.C14	13.1	60	43	107	14	●	●
CSDC D134.043.107.C14	13.4	60	43	107	14	●	●
CSDC D136.043.107.C14	13.6	60	43	107	14	●	●
CSDC D140.043.107.C14	14	60	43	107	14	●	●

- 可根据用户的加工要求制造。
- Provide customized service.

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

整体硬质合金内冷钻头 (3×D)

Solid Carbide Drill with Internal Coolant (3xD)



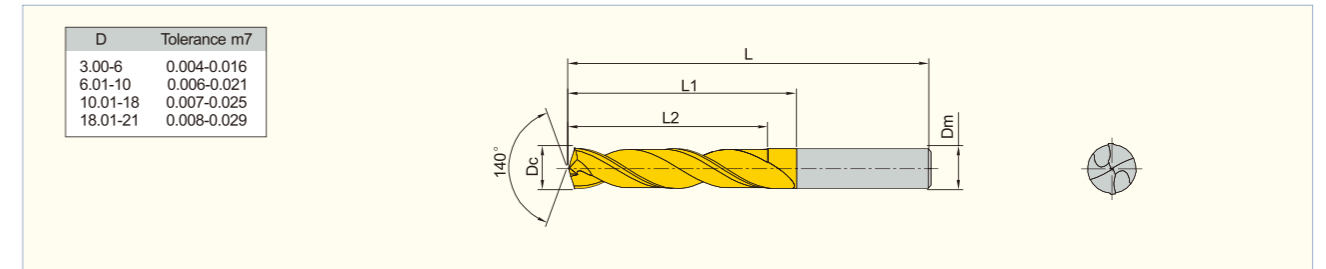
规格型号 Designation	基本尺寸 Dimension					在库 Stock	
	刃径 Diameter	槽长 Slot length	刃长 Flute length	总长 Total length	柄径 Shank diameter	SG830	SG430
	Dc	L1	L2	L	Dm		
CSDC D145.045.115.C16	14.5	65	45	115	16	●	●
CSDC D150.045.115.C16	15	65	45	115	16	●	●
CSDC D151.045.115.C16	15.1	65	45	115	16	●	●
CSDC D154.045.115.C16	15.4	65	45	115	16	●	●
CSDC D156.045.115.C16	15.6	65	45	115	16	●	●
CSDC D160.045.115.C16	16	65	45	115	16	●	●
CSDC D165.051.123.C18	16.5	73	51	123	18	●	●
CSDC D169.051.123.C18	16.9	73	51	123	18	●	●
CSDC D170.051.123.C18	17	73	51	123	18	●	●
CSDC D171.051.123.C18	17.1	73	51	123	18	●	●
CSDC D175.051.123.C18	17.5	73	51	123	18	●	●
CSDC D176.051.123.C18	17.6	73	51	123	18	●	●
CSDC D180.051.123.C18	18	73	51	123	18	●	●
CSDC D185.055.131.C20	18.5	79	55	131	20	●	●
CSDC D190.055.131.C20	19	79	55	131	20	●	●
CSDC D200.055.131.C20	20	79	55	131	20	●	●

- 可根据用户的加工要求制造。
- Provide customized service.

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

整体硬质合金外冷钻头 (5×D)

Solid Carbide Drill with External Coolant (5xD)



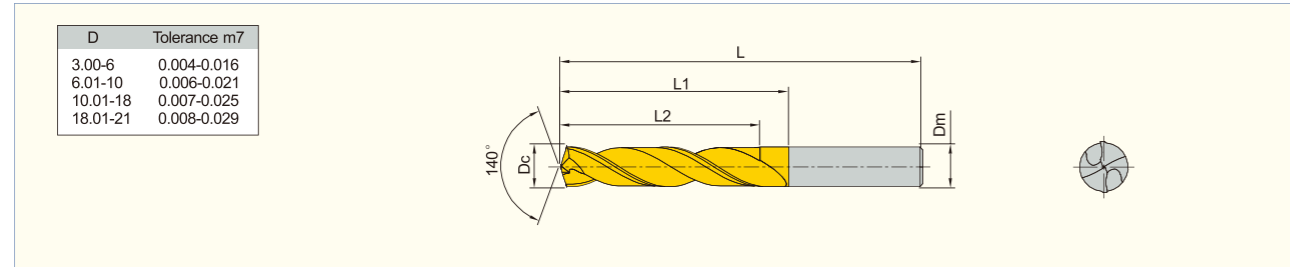
规格型号 Designation	基本尺寸 Dimension					在库 Stock	
	刃径 Diameter	槽长 Slot length	刃长 Flute length	总长 Total length	柄径 Shank diameter	SG830	SG430
	Dc	L1	L2	L	Dm		
CSD D030.023.066.C06	3	28	23	66	6	●	●
CSD D033.023.066.C06	3.3	28	23	66	6	●	●
CSD D037.023.066.C06	3.7	28	23	66	6	●	●
CSD D038.029.074.C06	3.8	36	29	74	6	●	●
CSD D040.029.074.C06	4	36	29	74	6	●	●
CSD D042.029.074.C06	4.2	36	29	74	6	●	●
CSD D047.029.074.C06	4.7	36	29	74	6	●	●
CSD D050.035.082.C06	5	44	35	82	6	●	●
CSD D056.035.082.C06	5.6	44	35	82	6	●	●
CSD D057.035.082.C06	5.7	44	35	82	6	●	●
CSD D060.035.082.C06	6	44	35	82	6	●	●
CSD D068.043.091.C08	6.8	53	43	91	8	●	●
CSD D070.043.091.C08	7	53	43	91	8	●	●
CSD D075.043.091.C08	7.5	53	43	91	8	●	●
CSD D077.043.091.C08	7.7	53	43	91	8	●	●
CSD D080.043.091.C08	8	53	43	91	8	●	●
CSD D085.049.103.C10	8.5	61	49	103	10	●	●
CSD D090.049.103.C10	9	61	49	103	10	●	●
CSD D094.049.103.C10	9.4	61	49	103	10	●	●
CSD D096.049.103.C10	9.6	61	49	103	10	●	●
CSD D100.049.103.C10	10	61	49	103	10	●	●
CSD D102.056.118.C12	10.2	71	56	118	12	●	●
CSD D105.056.118.C12	10.5	71	56	118	12	●	●
CSD D110.056.118.C12	11	71	56	118	12	●	●
CSD D113.056.118.C12	11.3	71	56	118	12	●	●
CSD D114.056.118.C12	11.4	71	56	118	12	●	●
CSD D116.056.118.C12	11.6	71	56	118	12	●	●
CSD D120.056.118.C12	12	71	56	118	12	●	●
CSD D125.060.124.C14	12.5	77	60	124	14	●	●
CSD D128.060.124.C14	12.8	77	60	124	14	●	●
CSD S130.060.124.C14	13	77	60	124	14	●	●
CSD D131.060.124.C14	13.1	77	60	124	14	●	●
CSD D134.060.124.C14	13.4	77	60	124	14	●	●
CSD D136.060.124.C14	13.6	77	60	124	14	●	●
CSD D140.060.124.C14	14	77	60	124	14	●	●

- 可根据用户的加工要求制造。
- Provide customized service.

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

整体硬质合金外冷钻头 (5×D)

Solid Carbide Drill with External Coolant (5xD)



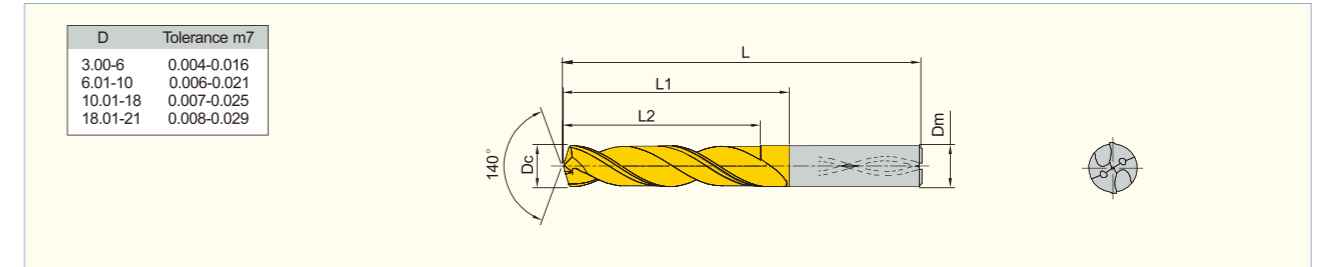
规格型号 Designation	基本尺寸 Dimension					在庫 Stock	
	刃径 Diameter	槽长 Slot length	刃长 Flute length	总长 Total length	柄径 Shank diameter	SG830	SG430
	Dc	L1	L2	L	Dm		
CSD D145.063.133.C16	14.5	83	63	133	16	●	●
CSD D150.063.133.C16	15	83	63	133	16	●	●
CSD D151.063.133.C16	15.1	83	63	133	16	●	●
CSD D154.063.133.C16	15.4	83	63	133	16	●	●
CSD D156.063.133.C16	15.6	83	63	133	16	●	●
CSD D160.063.133.C16	16	83	63	133	16	●	●
CSD D165.071.143.C18	16.5	93	71	143	18	●	●
CSD D169.071.143.C18	16.9	93	71	143	18	●	●
CSD D170.071.143.C18	17	93	71	143	18	●	●
CSD D171.071.143.C18	17.1	93	71	143	18	●	●
CSD D175.071.143.C18	17.5	93	71	143	18	●	●
CSD D176.071.143.C18	17.6	93	71	143	18	●	●
CSD D180.071.143.C18	18	93	71	143	18	●	●
CSD D185.077.153.C20	18.5	101	77	153	20	●	●
CSD D189.077.153.C20	18.9	101	77	153	20	●	●
CSD D190.077.153.C20	19	101	77	153	20	●	●
CSD D200.077.153.C20	20	101	77	153	20	●	●

- 可根据用户的加工要求制造。
- Provide customized service.

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

整体硬质合金内冷钻头 (5×D)

Solid Carbide Drill with Internal Coolant (5xD)



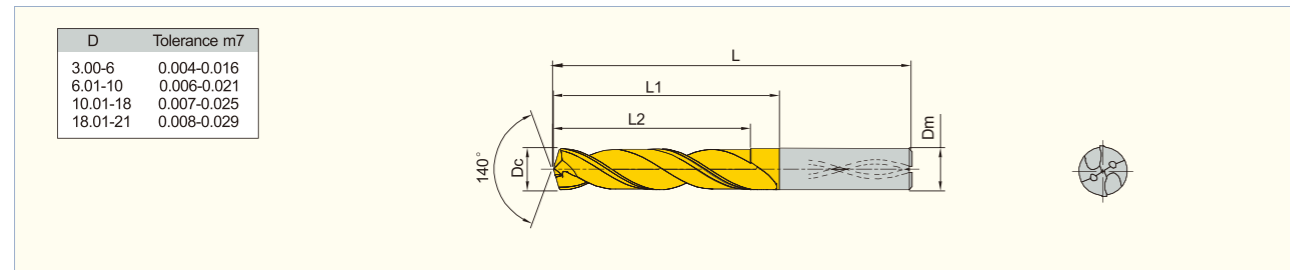
规格型号 Designation	基本尺寸 Dimension					在庫 Stock	
	刃径 Diameter	槽长 FSlot length	刃长 Flute length	总长 Total length	柄径 Shank diameter	SG830	SG430
	Dc	L1	L2	L	Dm		
CSDC D030.023.066.C06	3	28	23	66	6	●	●
CSDC D033.023.066.C06	3.3	28	23	66	6	●	●
CSDC D037.023.066.C06	3.7	28	23	66	6	●	●
CSDC D038.029.074.C06	3.8	36	29	74	6	●	●
CSDC D040.029.074.C06	4	36	29	74	6	●	●
CSDC D042.029.074.C06	4.2	36	29	74	6	●	●
CSDC D047.029.074.C06	4.7	36	29	74	6	●	●
CSDC D050.035.082.C06	5	44	35	82	6	●	●
CSDC D056.035.082.C06	5.6	44	35	82	6	●	●
CSDC D057.035.082.C06	5.7	44	35	82	6	●	●
CSDC D060.035.082.C06	6	44	35	82	6	●	●
CSDC D068.043.091.C08	6.8	53	43	91	8	●	●
CSDC D070.043.091.C08	7	53	43	91	8	●	●
CSDC D075.043.091.C08	7.5	53	43	91	8	●	●
CSDC D077.043.091.C08	7.7	53	43	91	8	●	●
CSDC D080.043.091.C08	8	53	43	91	8	●	●
CSDC D085.049.103.C10	8.5	61	49	103	10	●	●
CSDC D090.049.103.C10	9	61	49	103	10	●	●
CSDC D094.049.103.C10	9.4	61	49	103	10	●	●
CSDC D096.049.103.C10	9.6	61	49	103	10	●	●
CSDC D100.049.103.C10	10	61	49	103	10	●	●
CSDC D102.056.118.C12	10.2	71	56	118	12	●	●
CSDC D105.056.118.C12	10.5	71	56	118	12	●	●
CSDC D110.056.118.C12	11	71	56	118	12	●	●
CSDC D113.056.118.C12	11.3	71	56	118	12	●	●
CSDC D114.056.118.C12	11.4	71	56	118	12	●	●
CSDC D116.056.118.C12	11.6	71	56	118	12	●	●
CSDC D120.056.118.C12	12	71	56	118	12	●	●
CSDC D125.060.124.C14	12.5	77	60	124	14	●	●
CSDC D128.060.124.C14	12.8	77	60	124	14	●	●
CSDC S130.060.124.C14	13	77	60	124	14	●	●
CSDC D131.060.124.C14	13.1	77	60	124	14	●	●
CSDC D134.060.124.C14	13.4	77	60	124	14	●	●
CSDC D136.060.124.C14	13.6	77	60	124	14	●	●
CSDC D140.060.124.C14	14	77	60	124	14	●	●

- 可根据用户的加工要求制造。
- Provide customized service.

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

整体硬质合金内冷钻头 (5×D)

Solid Carbide Drill with Internal Coolant (5xD)



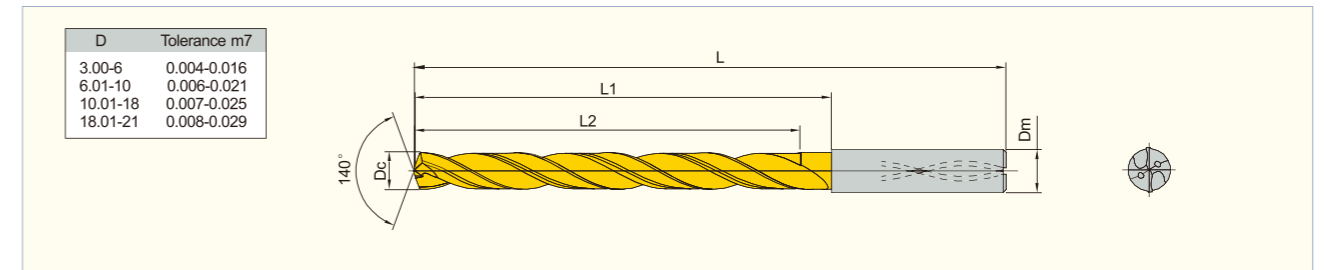
规格型号 Designation	基本尺寸 Dimension					在库 Stock	
	刃径 Diameter	槽长 Slot length	刃长 Flute length	总长 Total length	柄径 Shank diameter	SG830	SG430
	Dc	L1	L2	L	Dm		
CSDC D145.063.133.C16	14.5	83	63	133	16	●	●
CSDC D150.063.133.C16	15	83	63	133	16	●	●
CSDC D154.063.133.C16	15.4	83	63	133	16	●	●
CSDC D156.063.133.C16	15.6	83	63	133	16	●	●
CSDC D160.063.133.C16	16	83	63	133	16	●	●
CSDC D165.071.143.C18	16.5	93	71	143	18	●	●
CSDC D169.071.143.C18	16.9	93	71	143	18	●	●
CSDC D170.071.143.C18	17	93	71	143	18	●	●
CSDC D171.071.143.C18	17.1	93	71	143	18	●	●
CSDC D175.071.143.C18	17.5	93	71	143	18	●	●
CSDC D176.071.143.C18	17.6	93	71	143	18	●	●
CSDC D180.071.143.C18	18	93	71	143	18	●	●
CSDC D185.077.153.C20	18.5	101	77	153	20	●	●
CSDC D189.077.153.C20	18.9	101	77	153	20	●	●
CSDC D190.077.153.C20	19	101	77	153	20	●	●
CSDC D200.077.153.C20	20	101	77	153	20	●	●

- 可根据用户的加工要求制造。
- Provide customized service.

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

整体硬质合金内冷钻头 (8×D)

Solid Carbide Drill with Internal Coolant (8xD)



规格型号 Designation	基本尺寸 Dimension					在库 Stock	
	刃径 Diameter	槽长 Slot length	刃长 DFlute length	总长 Total length	柄径 Shank diameter	SG830	SG430
	Dc	L1	L2	L	Dm		
CSDC D030.028.074.C06	3	34	28	74	6	●	●
CSDC D033.028.074.C06	3.3	34	28	74	6	●	●
CSDC D037.028.074.C06	3.7	34	28	74	6	●	●
CSDC D038.037.085.C06	3.8	45	37	85	6	●	●
CSDC D040.037.085.C06	4	45	37	85	6	●	●
CSDC D042.037.085.C06	4.2	45	37	85	6	●	●
CSDC D047.037.085.C06	4.7	45	37	85	6	●	●
CSDC D050.048.097.C06	5	57	48	97	6	●	●
CSDC D056.048.097.C06	5.6	57	48	97	6	●	●
CSDC D057.048.097.C06	5.7	57	48	97	6	●	●
CSDC D060.048.097.C06	6	57	48	97	6	●	●
CSDC D068.055.106.C08	6.8	66	55	106	8	●	●
CSDC D070.055.106.C08	7	66	55	106	8	●	●
CSDC D075.064.116.C08	7.5	76	64	116	8	●	●
CSDC D077.064.116.C08	7.7	76	64	116	8	●	●
CSDC D080.064.116.C08	8	76	64	116	8	●	●
CSDC D085.080.139.C10	8.5	95	80	139	10	●	●
CSDC D090.080.139.C10	9	95	80	139	10	●	●
CSDC D094.080.139.C10	9.4	95	80	139	10	●	●
CSDC D096.080.139.C10	9.6	95	80	139	10	●	●
CSDC D100.080.139.C10	10	95	80	139	10	●	●
CSDC D102.096.163.C12	10.2	114	96	163	12	●	●
CSDC D105.096.163.C12	10.5	114	96	163	12	●	●
CSDC D110.096.163.C12	11	114	96	163	12	●	●
CSDC D113.096.163.C12	11.3	114	96	163	12	●	●
CSDC D114.096.163.C12	11.4	114	96	163	12	●	●
CSDC D116.096.163.C12	11.6	114	96	163	12	●	●
CSDC D120.096.163.C12	12	114	96	163	12	●	●
CSDC D125.119.182.C14	12.5	133	119	182	14	●	●
CSDC D127.119.182.C14	12.7	133	119	182	14	●	●
CSDC S130.119.182.C14	13	133	119	182	14	●	●
CSDC D135.119.182.C14	13.5	133	119	182	14	●	●
CSDC D140.119.182.C14	14	133	119	182	14	●	●

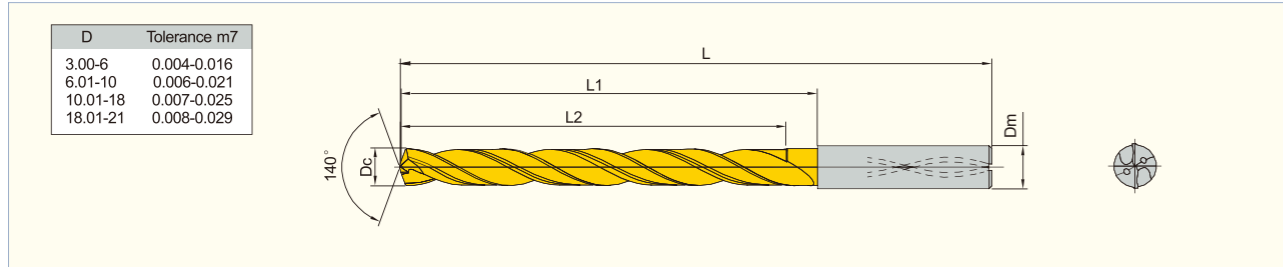
- 可根据用户的加工要求制造。
- Provide customized service.

- 标准库存 Item in stock
- 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

整体硬质合金内冷钻头 (8×D)

Solid Carbide Drill with Internal Coolant (8xD)



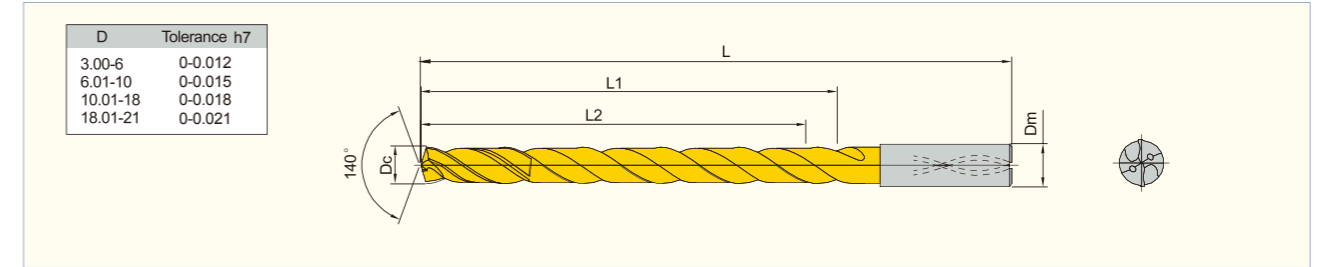
规格型号 Designation	基本尺寸 Dimension					在庫 Stock	
	刃径 Diameter	槽长 Slot length	刃长 Flute length	总长 Total length	柄径 Shank diameter	SG830	SG430
	Dc	L1	L2	L	Dm		
CSDC D145.136.204.C16	14.5	152	136	204	16	●	●
CSDC D150.136.204.C16	15	152	136	204	16	●	●
CSDC D155.136.204.C16	15.5	152	136	204	16	●	●
CSDC D160.136.204.C16	16	152	136	204	16	●	●
CSDC D165.153.223.C18	16.5	171	153	223	18	●	●
CSDC D170.153.223.C18	17	171	153	223	18	●	●
CSDC D175.153.223.C18	17.5	171	153	223	18	●	●
CSDC D180.153.223.C18	18	171	153	223	18	●	●
CSDC D185.170.244.C20	18.5	190	170	244	20	●	●
CSDC D190.170.244.C20	19	190	170	244	20	●	●
CSDC D200.170.244.C20	20	190	170	244	20	●	●

- 可根据用户的加工要求制造。
- Provide customized service.

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

整体硬质合金内冷钻头 (12×D)

Solid Carbide Drill with Internal Coolant (12xD)



规格型号 Designation	基本尺寸 Dimension					在庫 Stock	
	刃径 Diameter	槽长 Slot length	刃长 Flute length	总长 Total length	柄径 Shank diameter	SG830	SG430
	Dc	L1	L2	L	Dm		
CSDC D030.048.092.C06	3	54	48	92	6	●	●
CSDC D033.048.092.C06	3.3	54	48	92	6	●	●
CSDC D037.048.092.C06	3.7	54	48	92	6	●	●
CSDC D038.056.102.C06	3.8	64	56	102	6	●	●
CSDC D040.056.102.C06	4	64	56	102	6	●	●
CSDC D042.056.102.C06	4.2	64	56	102	6	●	●
CSDC D047.056.102.C06	4.7	64	56	102	6	●	●
CSDC D050.074.121.C06	5	83	74	121	6	●	●
CSDC D056.074.121.C06	5.6	83	74	121	6	●	●
CSDC D057.074.121.C06	5.7	83	74	121	6	●	●
CSDC D060.074.121.C06	6	83	74	121	6	●	●
CSDC D068.098.148.C08	6.8	110	98	148	8	●	●
CSDC D070.098.148.C08	7	110	98	148	8	●	●
CSDC D075.098.148.C08	7.5	110	98	148	8	●	●
CSDC D077.098.148.C08	7.7	110	98	148	8	●	●
CSDC D080.098.148.C08	8	110	98	148	8	●	●
CSDC D085.123.180.C10	8.5	138	123	180	10	●	●
CSDC D090.123.180.C10	9	138	123	180	10	●	●
CSDC D094.123.180.C10	9.4	138	123	180	10	●	●
CSDC D096.123.180.C10	9.6	138	123	180	10	●	●
CSDC D100.123.180.C10	10	138	123	180	10	●	●
CSDC D102.140.206.C12	10.2	158	140	206	12	●	●
CSDC D105.140.206.C12	10.5	158	140	206	12	●	●
CSDC D110.140.206.C12	11	158	140	206	12	●	●
CSDC D113.140.206.C12	11.3	158	140	206	12	●	●
CSDC D114.140.206.C12	11.4	158	140	206	12	●	●
CSDC D116.140.206.C12	11.6	158	140	206	12	●	●
CSDC D120.140.206.C12	12	158	140	206	12	●	●
CSDC D125.168.230.C14	12.5	182	168	230	14	●	●
CSDC D127.168.230.C14	12.7	182	168	230	14	●	●
CSDC S130.168.230.C14	13	182	168	230	14	●	●
CSDC D135.168.230.C14	13.5	182	168	230	14	●	●
CSDC D140.168.230.C14	14	182	168	230	14	●	●
CSDC D145.192.260.C16	14.5	208	192	260	16	●	●
CSDC D150.192.260.C16	15	208	192	260	16	●	●
CSDC D155.192.260.C16	15.5	208	192	260	16	●	●
CSDC D160.192.260.C16	16	208	192	260	16	●	●
CSDC D165.216.285.C18	16.5	234	216	285	18	●	●
CSDC D170.216.285.C18	17	234	216	285	18	●	●
CSDC D175.216.285.C18	17.5	234	216	285	18	●	●
CSDC D180.216.285.C18	18	234	216	285	18	●	●
CSDC D185.238.310.C20	18.5	258	238	310	20	●	●
CSDC D190.238.310.C20	19	258	238	310	20	●	●
CSDC D200.238.310.C20	20	258	238	310	20	●	●

- 可根据用户的加工要求制造。
- Provide customized service.

● 标准库存
Item in stock

○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

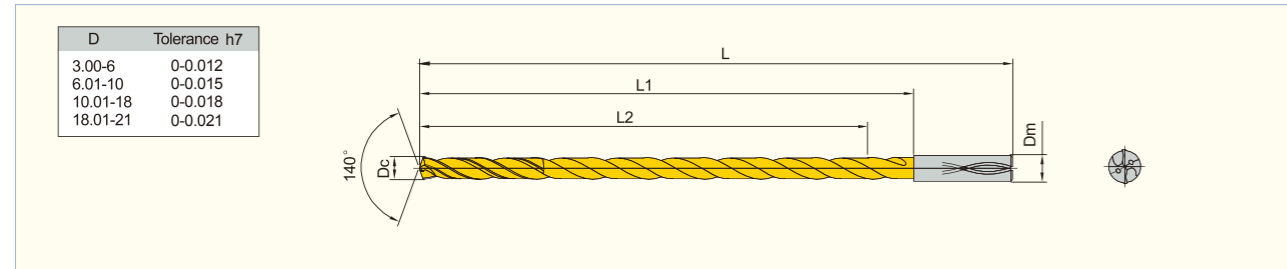
○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

整体硬质合金内冷钻头 (20×D)

Solid Carbide Drill with Internal Coolant (20xD)



规格型号 Designation	基本尺寸 Dimension					在庫 Stock	
	刃径 Diameter	槽长 Slot length	刃长 Flute length	总长 Total length	柄径 Shank diameter	SG830	SG430
	Dc	L1	L2	L	Dm		
CSDC D030.060.107.C06	3	65	60	107	6	●	●
CSDC D035.086.134.C06	3.5	92	86	134	6	●	●
CSDC D040.086.134.C06	4	92	86	134	6	●	●
CSDC D045.110.158.C06	4.5	118	110	158	6	●	●
CSDC D050.110.158.C06	5	118	110	158	6	●	●
CSDC D055.123.170.C06	5.5	132	123	170	6	●	●
CSDC D058.135.182.C06	5.8	144	135	182	6	●	●
CSDC D060.135.182.C06	6	144	135	182	6	●	●
CSDC D065.151.200.C08	6.5	162	151	200	8	●	●
CSDC D068.151.200.C08	6.8	162	151	200	8	●	●
CSDC D070.151.200.C08	7	162	151	200	8	●	●
CSDC D074.172.222.C08	7.4	184	172	222	8	●	●
CSDC D075.172.222.C08	7.5	184	172	222	8	●	●
CSDC D080.172.222.C08	8	184	172	222	8	●	●
CSDC D083.184.240.C10	8.3	198	184	240	10	●	●
CSDC D085.184.240.C10	8.5	198	184	240	10	●	●
CSDC D090.184.240.C10	9	198	184	240	10	●	●
CSDC D098.205.262.C10	9.8	220	205	262	10	●	●
CSDC D100.205.262.C10	10	220	205	262	10	●	●

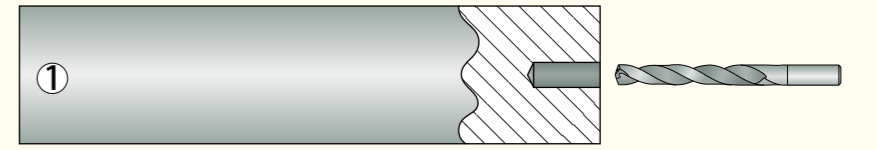
- 可根据用户的加工要求制造。
- Provide customized service.

SOLID CARBIDE DRILLS 整体硬质合金钻头系列

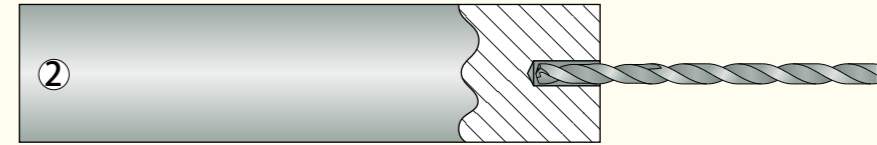
深孔加工推荐钻削步骤 (20×D)

Recommended Drilling Procedure for Deep Hole Drilling (20xD)

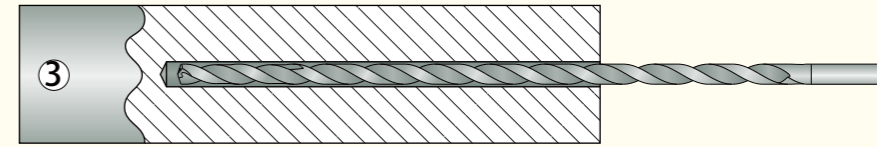
采用小钻深钻头加工 1-2*D 钻深的预钻孔。
预钻孔钻头直径应比长钻头直径大 0.03-0.05mm, 锋角也应大于长钻头的锋角 (大于 140°)
Drill a pilot hole 1-2*D deep with a short drill.
The pilot drill should be 0.03-0.05 mm larger than the long drill and its point angle should also be larger (over 140°).



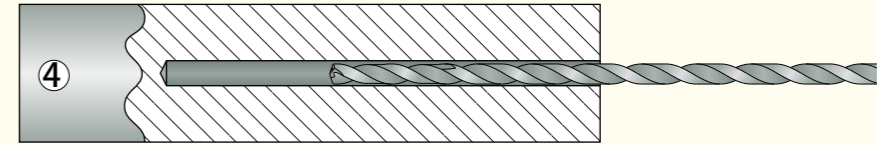
长钻头以低速低进给进入预转孔, 直到接近孔底。
Enter the pre-hole using low speed and feed, until it engages the material.



提高切削速度和进给到推荐值 -- 不要进行啄钻!
Increase cutting speed and feed to recommended conditions -- no pecking is required!



加工到所需深度后, 退刀时, 切削速度降低 50%
After having reached the required depth, reduce speed by more than 50% while retracting from the hole.



(20×D) 整体硬质合金钻头推荐钻削参数

Recommended Drilling Conditions for Solid Carbide Drills (20xD)

钻头直径 Drill Dia. (mm)	碳钢 Carbon Steel		合金钢 Alloy Steel		不锈钢 Stainless Steel		铸铁 Cast Iron		难加工铸铁 Ductile Cast Iron	
	(30 HRc)		(45 HRc)				(GG25)		(GG45)	
	V(m/min)	f(mm/rev)	V(m/min)	f(mm/rev)	V(m/min)	f(mm/rev)	V(m/min)	f(mm/rev)	V(m/min)	f(mm/rev)
5	60-120	0.12-0.25	50-100	0.1-0.20	30-60	0.08-0.15	60-120	0.15-0.30	40-80	0.15-0.25
6	60-120	0.14-0.25	50-100	0.14-0.25	30-60	0.10-0.18	60-120	0.14-0.25	40-80	0.14-0.25
7-8	60-120	0.16-0.30	50-100	0.16-0.30	30-60	0.10-0.20	60-120	0.16-0.30	40-80	0.16-0.30
9-10	60-120	0.16-0.30	50-100	0.10-0.20	30-60	0.08-0.115	60-120	0.20-0.35	40-80	0.20-0.35

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

SOLID CARBIDE REAMERS

整体硬质合金铰刀系列



E

硬质合金刀具 SOLID CARBIDE TOOLS

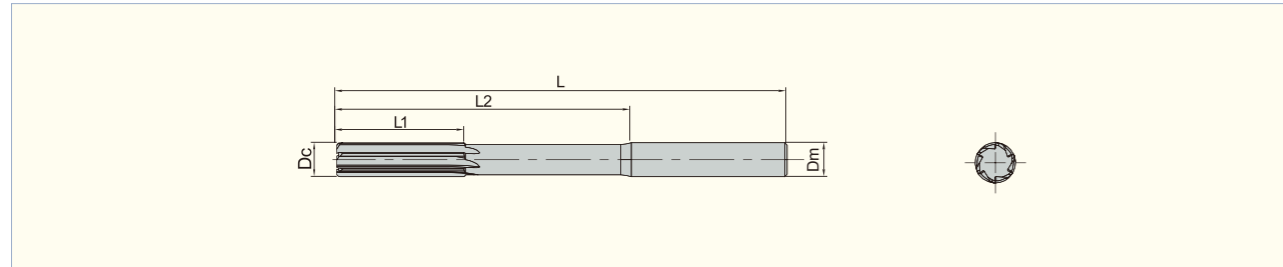
整体硬质合金铰刀系列 Solid Carbide Reamers

整体硬质合金直槽铰刀（通用型加工）.....	E31
Straight Flute Solid Carbide Reamer (for General Machining)	
整体硬质合金直槽内冷铰刀（中心出水，适合盲孔加工）.....	E32
Straight Flute Solid Carbide Reamer with Center Internal Coolant (for Blind Hole)	
整体硬质合金左旋外冷铰刀（适合通孔加工）.....	E33
Left-Hand Flute Solid Carbide Reamer with External Coolant (for Through Hole)	
整体硬质合金左旋内冷铰刀（发散出水，适合通孔加工）.....	E34
Left-Hand Flute Solid Carbide Reamer with Radial Internal Coolant (for Through Hole)	

SOLID CARBIDE REAMERS 整体硬质合金铰刀系列

整体硬质合金直槽铰刀 (通用型加工)

Straight Flute Solid Carbide Reamer (for General Machining)



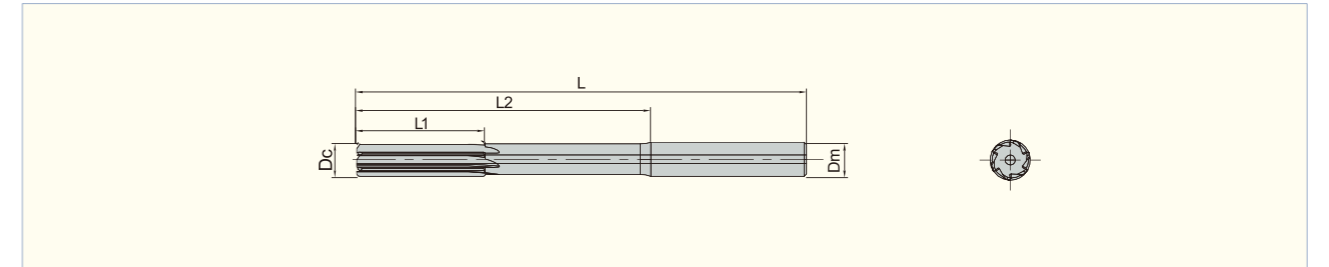
规格型号 Designation	基本尺寸 Dimension						在庫 Stock
	刃径 Diameter	颈长 Neck Length	刃长 Flute length	总长 Total length	柄径 Shank diameter	齿数 Z	
	Dc	L2	L1	L	Dm	Z	SG820
6RM7 D0400.019.075.C04	4	44	19	75	4	6	●
6RM7 D0500.023.086.C05	5	53	23	86	5	6	●
6RM7 D0600.026.093.C06	6	56	26	93	6	6	●
6RM7 D0700.031.109.C06	7	69	31	109	6	6	●
6RM7 D0800.033.117.C08	8	75	33	117	8	6	●
6RM7 D0900.036.125.C08	9	81	36	125	8	6	●
6RM7 D1000.038.133.C10	10	87	38	133	10	6	●
6RM7 D1100.041.142.C10	11	96	41	142	10	6	●
6RM7 D1200.044.151.C12	12	105	44	151	12	6	●
6RM7 D1300.044.151.C12	13	105	44	151	12	6	●
8RM7 D1400.047.160.C14	14	110	47	160	14	8	●
8RM7 D1500.050.162.C14	15	112	50	162	14	8	●
8RM7 D1600.052.170.C16	16	120	52	170	16	8	●

- 大于 10 为焊接结构
- 公差适用于 H7 孔径
- It will be tipped if diameter over than 10.
- Tolerance for H7 hole diameter.

SOLID CARBIDE REAMERS 整体硬质合金铰刀系列

整体硬质合金直槽内冷铰刀 (中心出水, 适合盲孔加工)

Straight Flute Solid Carbide Reamer with Center Internal Coolant (for Blind Hole)



规格型号 Designation	基本尺寸 Dimension						在庫 Stock
	刃径 Diameter	颈长 Neck Length	刃长 Flute length	总长 Total length	柄径 Shank diameter	齿数 Z	
	Dc	L2	L1	L	Dm	Z	SG820
6RMC7 D0500.023.086.C05	5	53	23	86	5	6	●
6RMC7 D0600.026.093.C06	6	56	26	93	6	6	●
6RMC7 D0700.031.109.C06	7	69	31	109	6	6	●
6RMC7 D0800.033.117.C08	8	75	33	117	8	6	●
6RMC7 D0900.036.125.C08	9	81	36	125	8	6	●
6RMC7 D1000.038.133.C10	10	87	38	133	10	6	●
6RMC7 D1100.041.142.C10	11	96	41	142	10	6	●
6RMC7 D1200.044.151.C12	12	105	44	151	12	6	●
6RMC7 D1300.044.151.C12	13	105	44	151	12	6	●
8RMC7 D1400.047.160.C14	14	110	47	160	14	8	●
8RMC7 D1500.050.162.C14	15	112	50	162	14	8	●
8RMC7 D1600.052.170.C16	16	120	52	170	16	8	●

- 大于 10 为焊接结构
- 公差适用于 H7 孔径
- It will be tipped if diameter over than 10.
- Tolerance for H7 hole diameter.

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

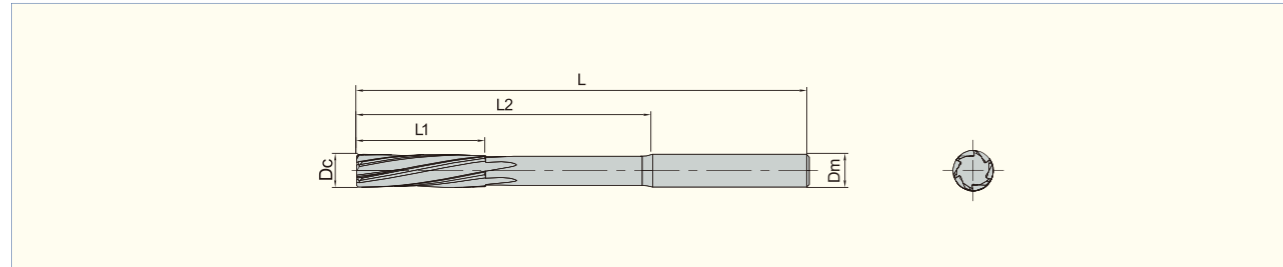
● 半标准库存 (订货时, 请确认交货期)
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○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

SOLID CARBIDE REAMERS 整体硬质合金铰刀系列

整体硬质合金左旋外冷铰刀 (适合通孔加工)

Left-Hand Flute Solid Carbide Reamer with External Coolant (for Through Hole)



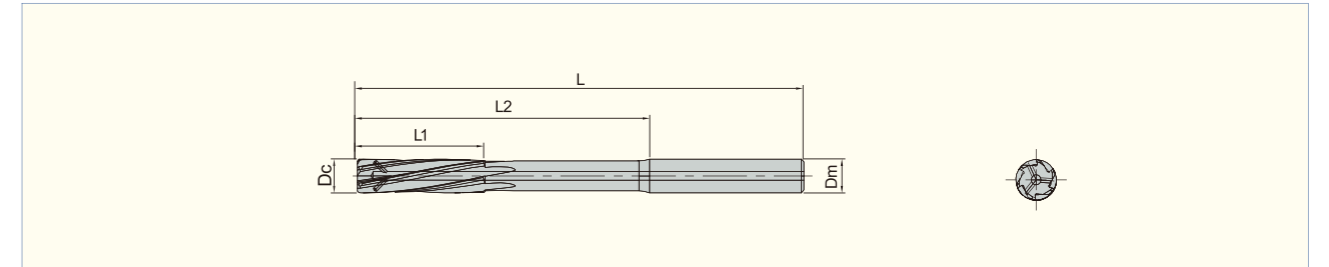
规格型号 Designation	基本尺寸 Dimension						在庫 Stock
	刃径 Diameter	颈长 Neck Length	刃长 Flute length	总长 Total length	柄径 Shank diameter	齿数 Z	
	Dc	L2	L1	L	Dm	Z	
6RML7 D0400.019.075.C04	4	44	19	75	4	6	●
6RML7 D0500.023.086.C05	5	53	23	86	5	6	●
6RML7 D0600.026.093.C06	6	56	26	93	6	6	●
6RML7 D0700.031.109.C06	7	69	31	109	6	6	●
6RML7 D0800.033.117.C08	8	75	33	117	8	6	●
6RML7 D0900.036.125.C08	9	81	36	125	8	6	●
6RML7 D1000.038.133.C10	10	87	38	133	10	6	●
6RML7 D1100.041.142.C10	11	96	41	142	10	6	●
6RML7 D1200.044.151.C12	12	105	44	151	12	6	●
6RML7 D1300.044.151.C12	13	105	44	151	12	6	●
8RML7 D1400.047.160.C14	14	110	47	160	14	8	●
8RML7 D1500.050.162.C14	15	112	50	162	14	8	●
8RML7 D1600.052.170.C16	16	120	52	170	16	8	●

- 大于 10 为焊接结构
- 公差适用于 H7 孔径
- It will be tipped if diameter over than 10.
- Tolerance for H7 hole diameter.

SOLID CARBIDE REAMERS 整体硬质合金铰刀系列

整体硬质合金左旋内冷铰刀 (发散出水, 适合通孔加工)

Left-Hand Flute Solid Carbide Reamer with Radial Internal Coolant (for Through Hole)



规格型号 Designation	基本尺寸 Dimension						在庫 Stock
	刃径 Diameter	颈长 Neck Length	刃长 Flute length	总长 Total length	柄径 Shank diameter	齿数 Z	
	Dc	L2	L1	L	Dm	Z	
6RMLC7 D0600.026.093.C06	6	56	26	93	6	6	●
6RMLC7 D0700.031.109.C07	7	69	31	109	6	6	●
6RMLC7 D0800.033.117.C08	8	75	33	117	8	6	●
6RMLC7 D0900.036.125.C09	9	81	36	125	8	6	●
6RMLC7 D1000.038.133.C10	10	87	38	133	10	6	●
6RMLC7 D1100.041.142.C11	11	96	41	142	10	6	●
6RMLC7 D1200.044.151.C12	12	105	44	151	12	6	●
6RMLC7 D1300.044.151.C13	13	105	44	151	12	6	●
6RMLC7 D1400.047.160.C14	14	110	47	160	14	8	●
6RMLC7 D1500.050.162.C15	15	112	50	162	14	8	●
6RMLC7 D1600.052.170.C16	16	120	52	170	16	8	●

- 大于 10 为焊接结构
- 公差适用于 H7 孔径
- It will be tipped if diameter over than 10.
- Tolerance for H7 hole diameter.

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

SOLID CARBIDE END MILLS

整体硬质合金立铣刀系列



E

硬质合金刀具 SOLID CARBIDE TOOLS

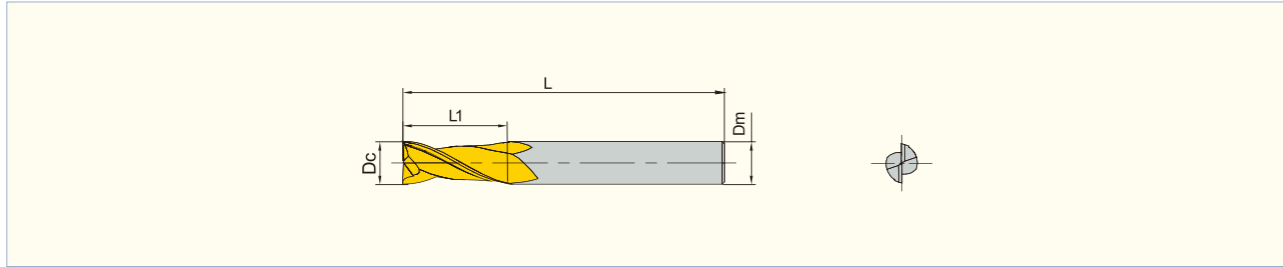
整体硬质合金立铣刀系列 Solid Carbide End Mills

整体硬质合金立铣刀（二刃）.....	E37
Solid Carbide End Mill /2 Flutes	
整体硬质合金立铣刀（三刃）.....	E37
Solid Carbide End Mill /3 Flutes	
整体硬质合金立铣刀（四刃）.....	E38
Solid Carbide End Mill /4 Flutes	
整体硬质合金圆角铣刀（二刃 / 四刃）.....	E39
Solid Carbide Corner Radius End Mill 2/4 Flutes	
整体硬质合金圆角铣刀（难加工材料适用）.....	E41
Solid Carbide Corner Radius End Mill (for Tough Material)	
整体硬质合金球头铣刀（二刃 / 四刃）.....	E45
Solid Carbide Ball End Mill 2/4 Flutes	
整体硬质合金铝加工铣刀（二刃 / 三刃 / 四刃）.....	E46
Solid Carbide End Mill for Aluminum /2 Flutes	
整体硬质合金快进给铣刀（四刃）.....	E47
Fast Feed Solid Carbide End Mill /4 Flutes	
整体硬质合金快进给铣刀（难加工材料适用）.....	E48
Fast Feed Solid Carbide End Mill (for Tough Material)	

SOLID CARBIDE END MILLS 整体硬质合金立铣刀系列

整体硬质合金立铣刀 (二刃)

Solid Carbide End Mill /2 Flutes

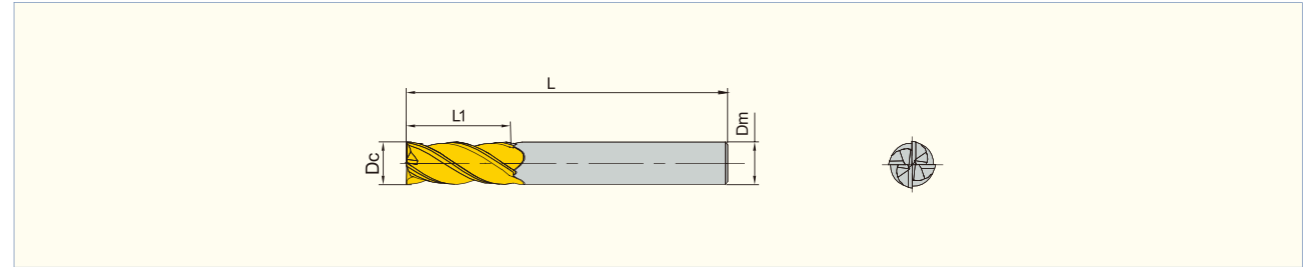


规格型号 Designation	基本尺寸 Dimension				在庫 Stock	
	刃径 Diameter	刃长 Flute length	总长 Total length	柄径 Shank diameter		
	Dc	L1	L	Dm	SG830	SG330
2EM D030.008.50.C03	3	8	50	3	●	●
2EM D040.011.50.C04	4	11	50	4	●	●
2EM D050.013.50.C05	5	13	50	5	●	●
2EM D060.016.50.C06	6	16	50	6	●	●
2EM D080.020.60.C08	8	20	60	8	●	●
2EM D100.025.75.C10	10	25	75	10	●	●
2EM D120.030.75.C12	12	30	75	12	●	●
2EM D140.035.80.C14	14	35	80	14	●	●
2EM D160.040.100.C16	16	40	100	16	●	●
2EM D180.040.100.C18	18	40	100	18	●	●
2EM D200.045.100.C20	20	45	100	20	●	●

SOLID CARBIDE END MILLS 整体硬质合金立铣刀系列

整体硬质合金立铣刀 (四刃)

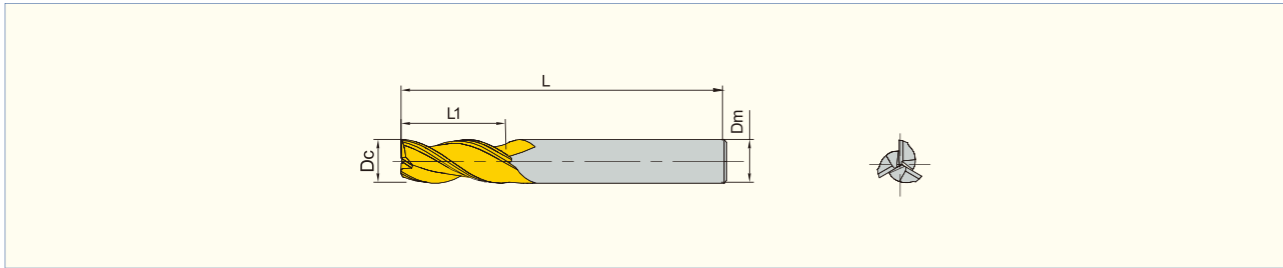
Solid Carbide End Mill /4 Flutes



规格型号 Designation	基本尺寸 Dimension					在庫 Stock	
	刃径 Diameter	刃长 Flute length	总长 Total length	柄径 Shank diameter	齿数 Z		
	Dc	L1	L	Dm	Z	SG330	SG830
4EM D030.008.50.C03	3	8	50	3	4	●	●
4EM D040.011.50.C04	4	11	50	4	4	●	●
4EM D050.013.50.C05	5	13	50	5	4	●	●
4EM D060.016.50.C06	6	16	50	6	4	●	●
4EM D080.020.60.C08	8	20	60	8	4	●	●
4EM D100.025.75.C10	10	25	75	10	4	●	●
4EM D120.030.75.C12	12	30	75	12	4	●	●
4EM D140.035.80.C14	14	35	80	14	4	●	●
4EM D160.040.100.C16	16	40	100	16	4	●	●
4EM D180.040.100.C18	18	40	100	18	4	●	●
4EM D200.045.100.C20	20	45	100	20	4	●	●

整体硬质合金立铣刀 (三刃)

Solid Carbide End Mill /3 Flutes



规格型号 Designation	基本尺寸 Dimension				在庫 Stock	
	刃径 Diameter	刃长 Flute length	总长 Total length	柄径 Shank diameter		
	Dc	L1	L	Dm	SG830	SG330
3EM D030.008.50.C03	3	8	50	3	●	●
3EM D040.011.50.C04	4	11	50	4	●	●
3EM D050.013.50.C05	5	13	50	5	●	●
3EM D060.016.50.C06	6	16	50	6	●	●
3EM D080.020.60.C08	8	20	60	8	●	●
3EM D100.025.75.C10	10	25	75	10	●	●
3EM D120.030.75.C12	12	30	75	12	●	●
3EM D140.035.80.C14	14	35	80	14	●	●
3EM D160.040.100.C16	16	40	100	16	●	●
3EM D180.040.100.C18	18	40	100	18	●	●
3EM D200.045.100.C20	20	45	100	20	●	●

● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

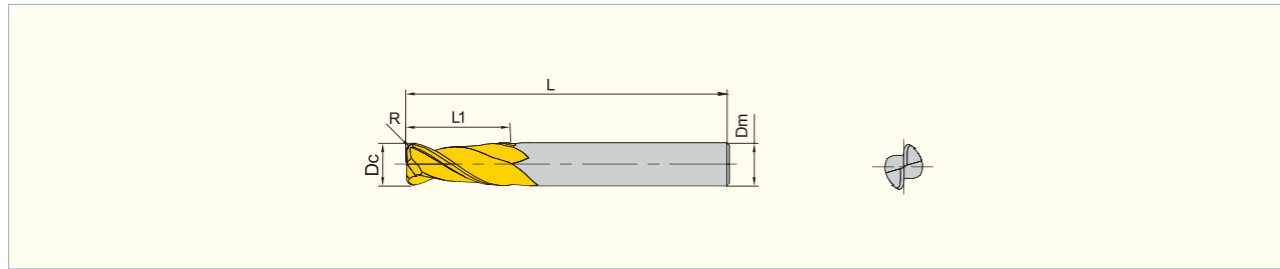
◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

SOLID CARBIDE END MILLS 整体硬质合金立铣刀系列

整体硬质合金圆角铣刀（二刃）

Solid Carbide Corner Radius End Mill /2 Flutes



规格型号 Designation	基本尺寸 Dimension					在库 Stock	
	刃径 Diameter Dc	圆角 Round corner R	刃长 Flute length L1	总长 Total length L	柄径 Shank diameter Dm	SG830	SG330
	●	○	○	○	○		
2EMR D030.02.008.50.C03	3	0.2	8	50	3	●	○
2EMR D030.03.008.50.C03	3	0.3	8	50	3	●	○
2EMR D030.05.008.50.C03	3	0.5	8	50	3	●	○
2EMR D040.03.011.50.C04	4	0.3	11	50	4	●	○
2EMR D040.05.011.50.C04	4	0.5	11	50	4	●	○
2EMR D040.10.011.50.C04	4	1	11	50	4	●	○
2EMR D050.03.013.50.C05	5	0.3	13	50	5	●	○
2EMR D050.05.013.50.C05	5	0.5	13	50	5	●	○
2EMR D050.10.013.50.C05	5	1	13	50	5	●	○
2EMR D060.03.016.50.C06	6	0.3	16	50	6	●	○
2EMR D060.05.016.50.C06	6	0.5	16	50	6	●	○
2EMR D060.10.016.50.C06	6	1	16	50	6	●	○
2EMR D080.03.020.60.C08	8	0.3	20	60	8	●	○
2EMR D080.05.020.60.C08	8	0.5	20	60	8	●	○
2EMR D080.10.020.60.C08	8	1	20	60	8	●	○
2EMR D100.05.025.75.C10	10	0.5	25	75	10	●	○
2EMR D100.10.025.75.C10	10	1	25	75	10	●	○
2EMR D100.15.025.75.C10	10	1.5	25	75	10	●	○
2EMR D120.05.030.75.C12	12	0.5	30	75	12	●	○
2EMR D120.10.030.75.C12	12	1	30	75	12	●	○
2EMR D120.15.030.75.C12	12	1.5	30	75	12	●	○
2EMR D120.20.030.75.C12	12	2	30	75	12	●	○
2EMR D140.05.035.80.C14	14	0.5	35	80	14	●	○
2EMR D140.10.035.80.C14	14	1	35	80	14	●	○
2EMR D140.15.035.80.C14	14	1.5	35	80	14	●	○
2EMR D140.20.035.80.C14	14	2	35	80	14	●	○
2EMR D160.05.040.100.C16	16	0.5	40	100	16	●	○
2EMR D160.10.040.100.C16	16	1	40	100	16	●	○
2EMR D160.15.040.100.C16	16	1.5	40	100	16	●	○
2EMR D160.20.040.100.C16	16	2	40	100	16	●	○
2EMR D180.05.040.100.C18	18	0.5	40	100	18	●	○
2EMR D180.10.040.100.C18	18	1	40	100	18	●	○
2EMR D180.15.040.100.C18	18	1.5	40	100	18	●	○
2EMR D180.20.040.100.C18	18	2	40	100	18	●	○
2EMR D200.05.045.100.C20	20	0.5	45	100	20	●	○
2EMR D200.10.045.100.C20	20	1	45	100	20	●	○
2EMR D200.15.045.100.C20	20	1.5	45	100	20	●	○
2EMR D200.20.045.100.C20	20	2	45	100	20	●	○

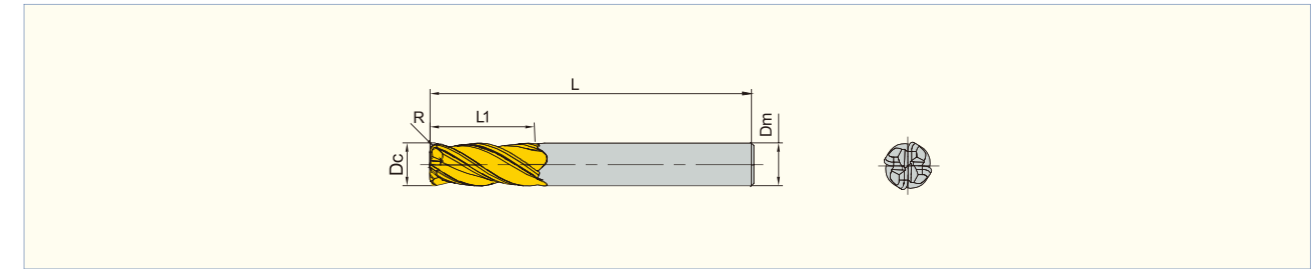
- 可根据用户的加工要求制造。
- Providing customized requirements.

- 标准库存 Item in stock
- 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

SOLID CARBIDE END MILLS 整体硬质合金立铣刀系列

整体硬质合金圆角铣刀（四刃）

Solid Carbide Corner Radius End Mill /4 Flutes



规格型号 Designation	基本尺寸 Dimension					在库 Stock	
	刃径 Diameter Dc	圆角 Round corner R	刃长 Flute length L1	总长 Total length L	柄径 Shank diameter Dm	SG830	SG330
	●	○	○	○	○		
4EMR D030.020.008.50.C03	3	0.2	8	50	3	●	○
4EMR D030.030.008.50.C03	3	0.3	8	50	3	●	○
4EMR D030.050.008.50.C03	3	0.5	8	50	3	●	○
4EMR D040.03.011.50.C04	4	0.3	11	50	4	●	○
4EMR D040.05.011.50.C04	4	0.5	11	50	4	●	○
4EMR D040.10.011.50.C04	4	1	11	50	4	●	○
4EMR D050.03.013.50.C05	5	0.3	13	50	5	●	○
4EMR D050.05.013.50.C05	5	0.5	13	50	5	●	○
4EMR D050.10.013.50.C05	5	1	13	50	5	●	○
4EMR D060.03.016.50.C06	6	0.3	16	50	6	●	○
4EMR D060.05.016.50.C06	6	0.5	16	50	6	●	○
4EMR D060.10.016.50.C06	6	1	16	50	6	●	○
4EMR D080.03.020.60.C08	8	0.3	20	60	8	●	○
4EMR D080.05.020.60.C08	8	0.5	20	60	8	●	○
4EMR D080.10.020.60.C08	8	1	20	60	8	●	○
4EMR D100.05.025.75.C10	10	0.5	25	75	10	●	○
4EMR D100.10.025.75.C10	10	1	25	75	10	●	○
4EMR D100.15.025.75.C10	10	1.5	25	75	10	●	○
4EMR D120.05.030.75.C12	12	0.5	30	75	12	●	○
4EMR D120.10.030.75.C12	12	1	30	75	12	●	○
4EMR D120.15.030.75.C12	12	1.5	30	75	12	●	○
4EMR D120.20.030.75.C12	12	2	30	75	12	●	○
4EMR D140.05.035.80.C14	14	0.5	35	80	14	●	○
4EMR D140.10.035.80.C14	14	1	35	80	14	●	○
4EMR D140.15.035.80.C14	14	1.5	35	80	14	●	○
4EMR D140.20.035.80.C14	14	2	35	80	14	●	○
4EMR D160.05.040.100.C16	16	0.5	40	100	16	●	○
4EMR D160.10.040.100.C16	16	1	40	100	16	●	○
4EMR D160.15.040.100.C16	16	1.5	40	100	16	●	○
4EMR D160.20.040.100.C16	16	2	40	100	16	●	○
4EMR D180.05.040.100.C18	18	0.5	40	100	18	●	○
4EMR D180.10.040.100.C18	18	1	40	100	18	●	○
4EMR D180.15.040.100.C18	18	1.5	40	100	18	●	○
4EMR D180.20.040.100.C18	18	2	40	100	18	●	○
4EMR D200.05.045.100.C20	20	0.5	45	100	20	●	○
4EMR D200.10.045.100.C20	20	1	45	100	20	●	○
4EMR D200.15.045.100.C20	20	1.5	45	100	20	●	○
4EMR D200.20.045.100.C20	20	2	45	100	20	●	○

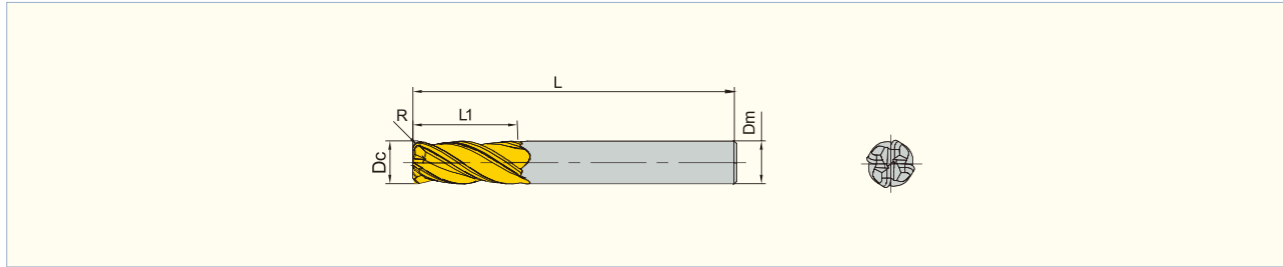
- 可根据用户的加工要求制造。
- Providing customized requirements.

- 标准库存 Item in stock
- 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

SOLID CARBIDE END MILLS 整体硬质合金立铣刀系列

硬质合金圆角立铣刀 (四刃、难加工材料适用、2倍径刃长)

Solid Carbide Corner Radius End Mill / 4 Flutes (for Tough Material)



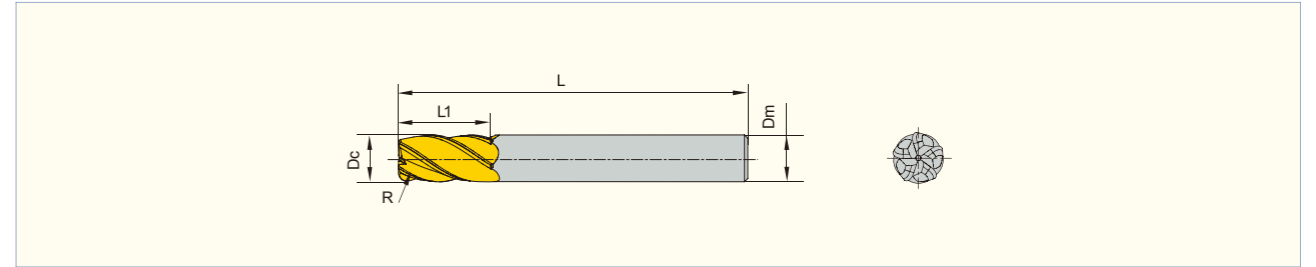
规格型号 Designation	基本尺寸 Dimension						在庫 Stock
	刃径 Diameter	圆角 Round corner	刃长 Flute length	总长 Total length	柄径 Shank diameter	齿数 Z	
	Dc	R	L1	L	Dm	Z	SG530
4EMR D040.030.008.50.C04	4	0.3	8	50	4	4	○
4EMR D040.050.008.50.C04	4	0.5	8	50	4	4	○
4EMR D050.030.010.50.C05	5	0.3	10	50	5	4	○
4EMR D050.050.010.50.C05	5	0.5	10	50	5	4	○
4EMR D060.030.012.60.C06	6	0.3	12	60	6	4	○
4EMR D060.050.012.60.C06	6	0.5	12	60	6	4	○
4EMR D080.050.016.65.C08	8	0.5	16	65	8	4	○
4EMR D100.050.020.75.C10	10	0.5	20	75	10	4	○
4EMR D100.080.020.75.C10	10	0.8	20	75	10	4	○
4EMR D120.050.024.90.C12	12	0.5	24	90	12	4	○
4EMR D120.080.024.90.C12	12	0.8	24	90	12	4	○
4EMR D120.25.024.90.C12	12	2.5	24	90	12	4	○
4EMR D140.050.028.95.C14	14	0.5	28	95	14	4	○
4EMR D160.040.032.100.C16	16	0.5	32	100	16	4	○
4EMR D160.080.032.100.C16	16	0.8	32	100	16	4	○
4EMR D160.25.032.100.C16	16	2.5	32	100	16	4	○
4EMR D160.30.032.100.C16	16	3	32	100	16	4	○
4EMR D200.050.040.110.C20	20	0.5	40	110	20	4	○
4EMR D200.080.040.110.C20	20	0.8	40	110	20	4	○
4EMR D200.25.040.110.C20	20	2.5	40	110	20	4	○
4EMR D200.30.040.110.C20	20	3	40	110	20	4	○
4EMR D200.40.040.110.C20	20	4	40	110	20	4	○

- 可根据用户的加工要求制造。
- Providing customized requirements.

SOLID CARBIDE END MILLS 整体硬质合金立铣刀系列

硬质合金圆角立铣刀 (五刃、难加工材料适用、高性能、2倍径刃长)

High Performance Solid Carbide Corner Radius End Mill / 5 Flutes (for Tough Material)



规格型号 Designation	基本尺寸 Dimension						在庫 Stock
	刃径 Diameter	圆角 Round corner	刃长 Flute length	总长 Total length	柄径 Shank diameter	齿数 Z	
	Dc	R	L1	L	Dm	Z	SG530P
5EMR D040.030.008.50.C04	4	0.3	8	50	4	5	○
5EMR D040.050.008.50.C04	4	0.5	8	50	4	5	○
5EMR D050.030.010.50.C05	5	0.3	10	50	5	5	○
5EMR D050.050.010.50.C05	5	0.5	10	50	5	5	○
5EMR D060.030.012.60.C06	6	0.3	12	60	6	5	○
5EMR D060.050.012.60.C06	6	0.5	12	60	6	5	○
5EMR D080.050.016.65.C08	8	0.5	16	65	8	5	○
5EMR D100.050.020.75.C10	10	0.5	20	75	10	5	○
5EMR D100.080.020.75.C10	10	0.8	20	75	10	5	○
5EMR D120.050.024.90.C12	12	0.5	24	90	12	5	○
5EMR D120.080.024.90.C12	12	0.8	24	90	12	5	○
5EMR D120.25.024.90.C12	12	2.5	24	90	12	5	○
5EMR D140.050.028.95.C14	14	0.5	28	95	14	5	○
5EMR D160.040.032.100.C16	16	0.5	32	100	16	5	○
5EMR D160.080.032.100.C16	16	0.8	32	100	16	5	○
5EMR D160.25.032.100.C16	16	2.5	32	100	16	5	○
5EMR D160.30.032.100.C16	16	3	32	100	16	5	○
5EMR D200.050.040.110.C20	20	0.5	40	110	20	5	○
5EMR D200.080.040.110.C20	20	0.8	40	110	20	5	○
5EMR D200.25.040.110.C20	20	2.5	40	110	20	5	○
5EMR D200.30.040.110.C20	20	3	40	110	20	5	○
5EMR D200.40.040.110.C20	20	4	40	110	20	5	○

- 可根据用户的加工要求制造。
- Providing customized requirements.

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

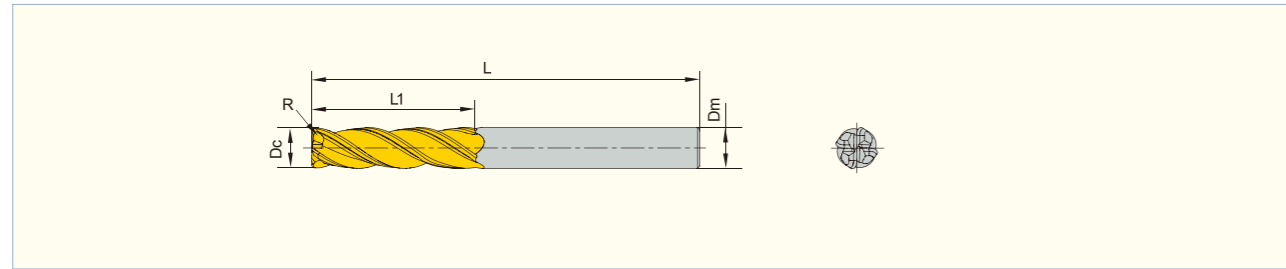
● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

SOLID CARBIDE END MILLS 整体硬质合金立铣刀系列

硬质合金圆角立铣刀 (四刃、难加工材料适用、加长 4 倍径)

Solid Carbide Corner Radius End Mill / 4 Flutes (for Tough Material)



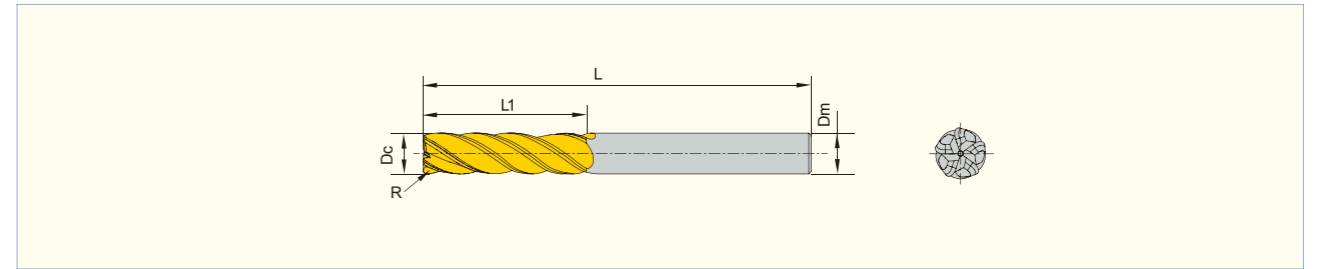
规格型号 Designation	基本尺寸 Dimension						在庫 Stock
	刃径 Diameter	圆角 Round corner	刃长 Flute length	总长 Total length	柄径 Shank diameter	齿数 Z	
	Dc	R	L1	L	Dm	Z	SG530
4EMR D060.030.024.68.C06	6	0.3	24	68	6	4	○
4EMR D080.050.032.80.C08	8	0.5	32	80	8	4	○
4EMR D100.050.040.95.C10	10	0.5	40	95	10	4	○
4EMR D100.080.040.95.C10	10	0.8	40	95	10	4	○
4EMR D120.050.048.107.C12	12	0.5	48	107	12	4	○
4EMR D120.080.048.107.C12	12	0.8	48	107	12	4	○
4EMR D120.25.048.107.C12	12	2.5	48	107	12	4	○
4EMR D140.050.056.119.C14	14	0.5	56	119	14	4	○
4EMR D160.050.064.128.C16	16	0.5	64	128	16	4	○
4EMR D160.080.064.128.C16	16	0.8	64	128	16	4	○
4EMR D160.25.064.128.C16	16	2.5	64	128	16	4	○
4EMR D160.30.064.128.C16	16	3	64	128	16	4	○
4EMR D200.050.080.150.C20	20	0.5	80	150	20	4	○
4EMR D200.080.080.150.C20	20	0.8	80	150	20	4	○
4EMR D200.25.080.150.C20	20	2.5	80	150	20	4	○
4EMR D200.30.080.150.C20	20	3	80	150	20	4	○
4EMR D200.40.080.140.C20	20	4	80	150	20	4	○

- 可根据用户的加工要求制造。
- Providing customized requirements.

SOLID CARBIDE END MILLS 整体硬质合金立铣刀系列

硬质合金圆角立铣刀 (难加工材料适用、高性能、加长 4 倍径)

High Performance Solid Carbide Corner Radius End Mill (for Tough Material, 4XD)



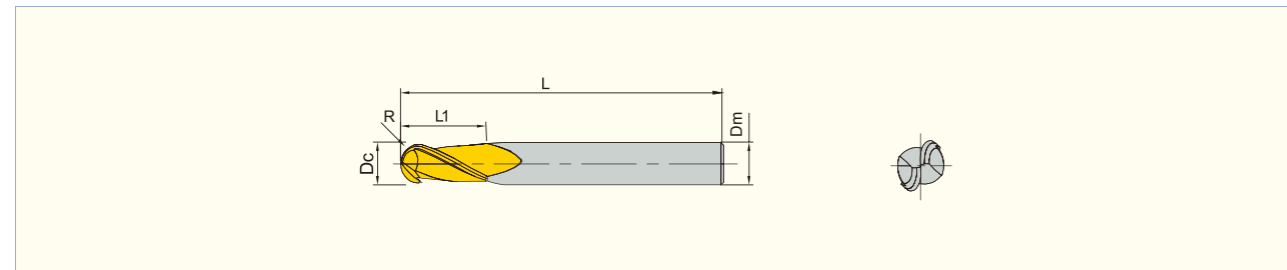
规格型号 Designation	基本尺寸 Dimension						在庫 Stock
	刃径 Diameter	圆角 Round corner	刃长 Flute length	总长 Total length	柄径 Shank diameter	齿数 Z	
	Dc	R	L1	L	Dm	Z	SG530P
5EMR D060.030.024.68.C06	6	0.3	24	68	6	5	○
5EMR D080.050.032.80.C08	8	0.5	32	80	8	5	○
5EMR D100.050.040.95.C10	10	0.5	40	95	10	5	○
5EMR D100.080.040.95.C10	10	0.8	40	95	10	5	○
5EMR D120.050.048.107.C12	12	0.5	48	107	12	5	○
5EMR D120.080.048.107.C12	12	0.8	48	107	12	5	○
5EMR D120.25.048.107.C12	12	2.5	48	107	12	5	○
5EMR D140.050.056.119.C14	14	0.5	56	119	14	5	○
5EMR D160.050.064.128.C16	16	0.5	64	128	16	5	○
5EMR D160.080.064.128.C16	16	0.8	64	128	16	5	○
5EMR D160.25.064.128.C16	16	2.5	64	128	16	5	○
5EMR D160.30.064.128.C16	16	3	64	128	16	5	○
5EMR D200.050.080.150.C20	20	0.5	80	150	20	5	○
5EMR D200.080.080.150.C20	20	0.8	80	150	20	5	○
5EMR D200.25.080.150.C20	20	2.5	80	150	20	5	○
5EMR D200.30.080.150.C20	20	3	80	150	20	5	○
5EMR D200.40.080.140.C20	20	4	80	140	20	5	○

- 可根据用户的加工要求制造。
- Providing customized requirements.

SOLID CARBIDE END MILLS 整体硬质合金立铣刀系列

整体硬质合金球头铣刀 (二刃)

Solid Carbide Ball End Mill /2 Flutes

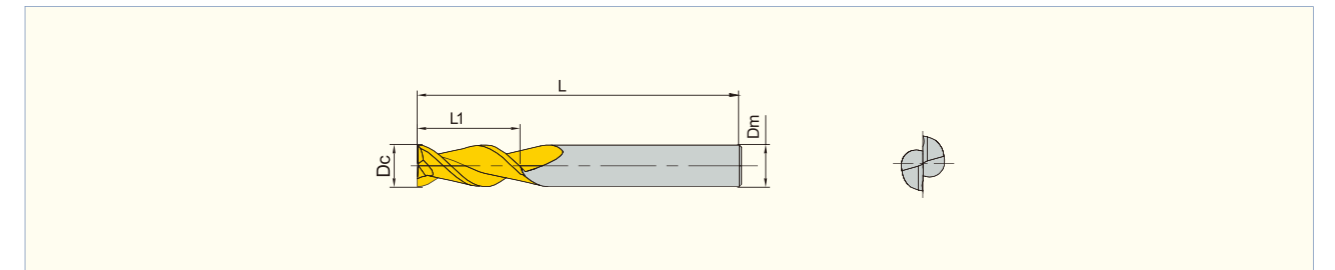


规格型号 Designation	基本尺寸 Dimension					在库 Stock	
	刃径 Diameter	圆角 Round corner	刃长 Flute length	总长 Total length	柄径 Shank diameter	SG830	SG230
	Dc	R	L1	L	Dm		
2EMB R015.006.50.C03	3	1.5	6	50	3	●	●
2EMB R020.008.50.C04	4	2	8	50	4	●	●
2EMB R025.010.50.C05	5	2.5	10	50	5	●	●
2EMB R030.012.50.C06	6	3	12	50	6	●	●
2EMB R035.014.60.C08	7	3.5	14	60	8	●	●
2EMB R040.016.60.C08	8	4	16	60	8	●	●
2EMB R045.018.75.C10	9	4.5	18	75	10	●	●
2EMB R050.020.75.C10	10	5	20	75	10	●	●
2EMB R060.024.75.C12	12	6	24	75	12	●	●
2EMB R070.028.75.C14	14	7	28	75	14	●	●
2EMB R080.032.100.C16	16	8	32	100	16	●	●
2EMB R100.040.100.C20	20	10	40	100	20	●	●

SOLID CARBIDE END MILLS 整体硬质合金立铣刀系列

整体硬质合金铝加工铣刀 (二刃)

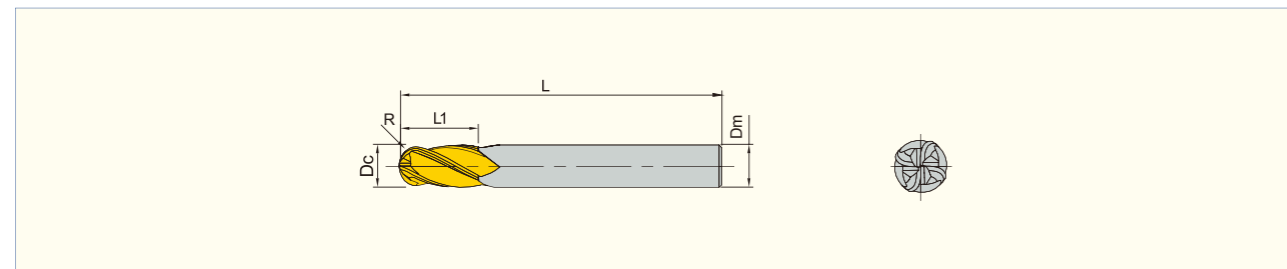
Solid Carbide End Mill for Aluminum /2 Flutes



规格型号 Designation	基本尺寸 Dimension				在库 Stock
	刃径 Diameter	刃长 Flute length	总长 Total length	柄径 Shank diameter	SG430
	Dc	L1	L	Dm	
2EM D030.008.50.C03	3	8	50	3	●
2EM D040.011.50.C04	4	11	50	4	●
2EM D050.013.50.C05	5	13	50	5	●
2EM D060.016.50.C06	6	16	50	6	●
2EM D080.020.60.C08	8	20	60	8	●
2EM D100.025.75.C10	10	25	75	10	●
2EM D120.030.75.C12	12	30	75	12	●
2EM D140.035.80.C14	14	35	80	14	●
2EM D160.040.100.C16	16	40	100	16	●
2EM D180.040.100.C18	18	40	100	18	●
2EM D200.045.100.C20	20	45	100	20	●

整体硬质合金球头铣刀 (四刃)

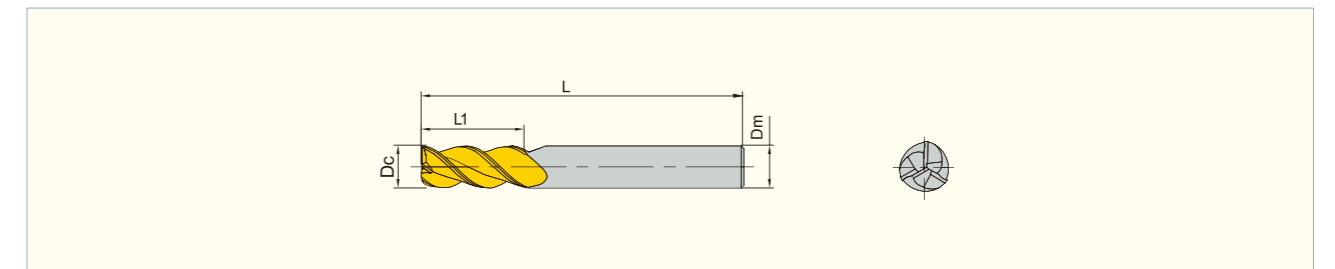
Solid Carbide Ball End Mill /4 Flutes



规格型号 Designation	基本尺寸 Dimension					在库 Stock	
	刃径 Diameter	圆角 Round corner	刃长 Flute length	总长 Total length	柄径 Shank diameter	SG830	SG230
	Dc	R	L1	L	Dm		
4EMB R015.006.50.C03	3	1.5	6	50	3	●	●
4EMB R020.008.50.C04	4	2	8	50	4	●	●
4EMB R025.010.50.C05	5	2.5	10	50	5	●	●
4EMB R030.012.50.C06	6	3	12	50	6	●	●
4EMB R040.016.60.C08	8	4	16	60	8	●	●
4EMB R050.020.75.C10	10	5	20	75	10	●	●
4EMB R060.024.75.C12	12	6	24	75	12	●	●
4EMB R070.028.75.C14	14	7	28	75	14	●	●
4EMB R080.032.100.C16	16	8	32	100	16	●	●
4EMB R090.036.100.C18	18	9	36	100	18	●	●
4EMB R100.040.100.C20	20	10	40	100	20	●	●

整体硬质合金铝加工铣刀 (三刃)

Solid Carbide End Mill for Aluminum /3 Flutes



规格型号 Designation	基本尺寸 Dimension				在库 Stock
	刃径 Diameter	刃长 Flute length	总长 Total length	柄径 Shank diameter	SG430
	Dc	L1	L	Dm	
3EM D030.008.50.C03	3	8	50	3	●
3EM D040.011.50.C04	4	11	50	4	●
3EM D050.013.50.C05	5	13	50	5	●
3EM D060.016.50.C06	6	16	50	6	●
3EM D080.020.60.C08	8	20	60	8	●
3EM D100.025.75.C10	10	25	75	10	●
3EM D120.030.75.C12	12	30	75	12	●
3EM D140.035.80.C14	14	35	80	14	●
3EM D160.040.100.C16	16	40	100	16	●
3EM D180.040.100.C18	18	40	100	18	●
3EM D200.045.100.C20	20	45	100	20	●

● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

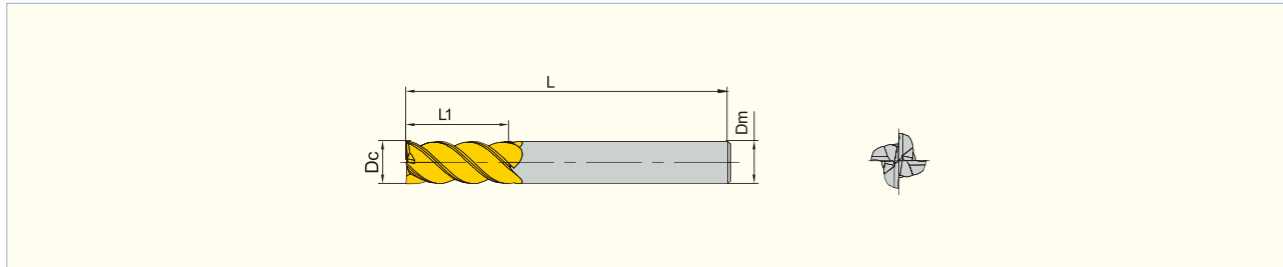
◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

SOLID CARBIDE END MILLS 整体硬质合金立铣刀系列

整体硬质合金铝加工铣刀 (四刃)

Solid Carbide End Mill for Aluminum /4 Flutes

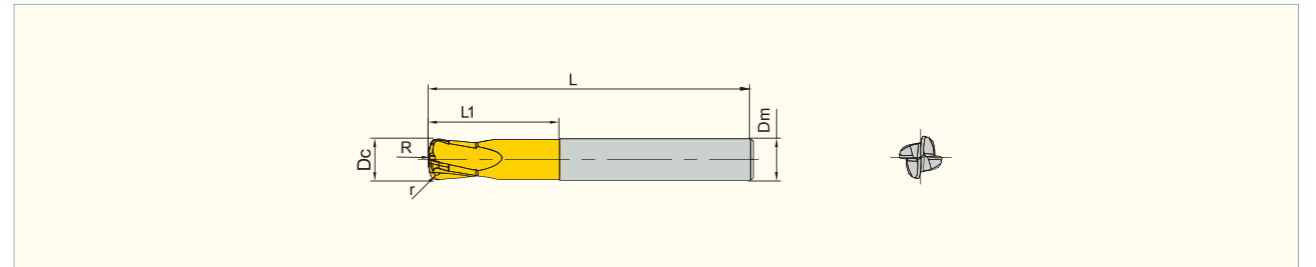


规格型号 Designation	基本尺寸 Dimension				在库 Stock
	刃径 Diameter	刃长 Drilling depth	总长 Total length	柄径 Shank diameter	
	Dc	L1	L	Dm	
4EM D030.008.50.C03	3	8	50	3	●
4EM D040.011.50.C04	4	11	50	4	●
4EM D050.013.50.C05	5	13	50	5	●
4EM D060.016.50.C06	6	16	50	6	●
4EM D080.020.60.C08	8	20	60	8	●
4EM D100.025.75.C10	10	25	75	10	●
4EM D120.030.75.C12	12	30	75	12	●
4EM D140.035.80.C14	14	35	80	14	●
4EM D160.040.100.C16	16	40	100	16	●
4EM D180.040.100.C18	18	40	100	18	●
4EM D200.045.100.C20	20	45	100	20	●

SOLID CARBIDE END MILLS 整体硬质合金立铣刀系列

硬质合金快速进给铣刀 (四刃、难加工材料适用)

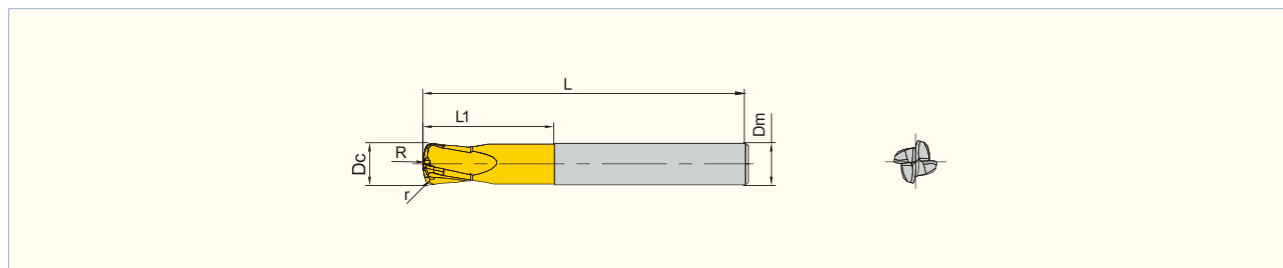
Fast Feed Solid Carbide End Mill /4 Flutes (for Tough Material)



规格型号 Designation	基本尺寸 Dimension							在库 Stock
	刃径 Diameter	底部圆弧 Bottom of arc	倒圆角 Rounding	颈长 Neck length	总长 Total length	柄径 Shank diameter	齿数	
	Dc	R	r	L1	L	Dm	Z	
4EMH D060.R090.r122.020.57.C06	6	9	1.22	20	65	6	4	○
4EMH D080.R120.r162.026.65.C08	8	12	1.62	26	65	8	4	○
4EMH D100.R135.r201.030.75.C10	10	12.58	2.01	30	75	10	4	○
4EMH D120.R160.r247.034.85.C12	12	16	2.47	34	85	12	4	○
4EMH D140.R200.r288.038.85.C14	14	20	2.84	38	85	14	4	○
4EMH D160.R268.r325.042.90.C16	16	26.84	3.25	42	90	16	4	○
4EMH D180.R302.r366.045.95.C18	18	30.2	2.66	44	95	18	4	○
4EMH D200.R177.r402.046.105.C20	20	17.7	4.02	46	105	20	4	○

整体硬质合金快进给铣刀 (四刃)

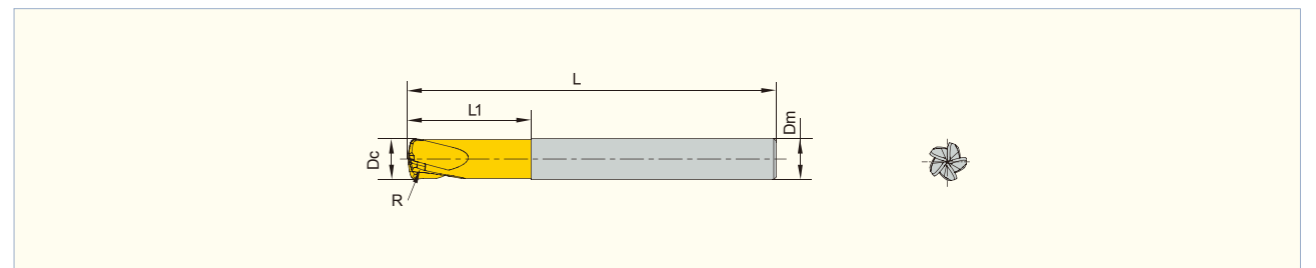
Fast Feed Solid Carbide End Mill /4 Flutes



规格型号 Designation	基本尺寸 Dimension						在库 Stock
	刃径 Diameter	底部圆弧 Bottom of arc	倒圆角 Rounding	颈长 Neck length	总长 Total length	柄径 Shank diameter	
	Dc	R	r	L1	L	Dm	
4EMH D060.R090.r122.020.57.C06	6	9	1.22	20	60	6	●
4EMH D080.R120.r162.026.65.C08	8	12	1.62	26	65	8	●
4EMH D100.R135.r201.030.75.C10	10	13.58	2.01	30	75	10	●
4EMH D120.R160.r247.034.85.C12	12	16	2.47	34	85	12	●
4EMH D140.R200.r288.038.85.C14	14	20	2.84	38	85	14	●
4EMH D160.R268.r325.042.90.C16	16	26.84	3.25	42	90	16	●
4EMH D180.R302.r366.045.95.C18	18	30.2	2.66	44	95	18	●
4EMH D200.R177.r402.046.105.C20	20	17.7	4.02	46	105	20	●

硬质合金快速进给铣刀 (五刃、高性能、难加工材料适用)

High Performance Fast Feed Solid Carbide End Mill /5 Flutes (for Tough Material)



规格型号 Designation	基本尺寸 Dimension							在库 Stock
	刃径 Diameter	底部圆弧 Bottom of arc	倒圆角 Rounding	颈长 Neck length	总长 Total length	柄径 Shank diameter	齿数	
	Dc	R	r	L1	L	Dm	Z	
5EMH D060.R090.r122.020.57.C06	6	9	1.22	20	65	6	5	○
5EMH D080.R120.r162.026.65.C08	8	12	1.62	26	65	8	5	○
5EMH D100.R135.r201.030.75.C10	10	12.58	2.01	30	75	10	5	○
5EMH D120.R160.r247.034.85.C12	12	16	2.47	34	85	12	5	○
5EMH D140.R200.r288.038.85.C14	14	20	2.84	38	85	14	5	○
5EMH D160.R268.r325.042.90.C16	16	26.84	3.25	42	90	16	5	○
5EMH D180.R302.r366.045.95.C18	18	30.2	2.66	44	95	18	5	○
5EMH D200.R177.r402.046.105.C20	20	17.7	4.02	46	105	20	5	○

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

TECHNICAL INFORMATION

技术资料



E

硬质合金刀具 SOLID CARBIDE TOOLS

技术资料 Technical Information

被加工材料适用表	E47
Work Piece	
铁削加工的切削参数与通用计算公式	E47
Cutting Parameter and General Formula	
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Coolant Pressure and Volume Recommendations	
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Recommendation Drill Diameter Based on Thread	

TECHNICAL INFORMATION 技术资料

被加工材料适用表

Work Piece

牌号 Carbide grade	被加工材料 Recommended application									
	软钢 HB<180 Soft steel	碳钢合金钢 Unalloyed steel Alloyed steel	预硬钢 HRC<40 Hardened and tempered steel	不锈钢 Stainless steel	铸铁 Gray cast iron	球墨铸铁 Spheroidal graphite cast iron	铝合金 Aluminium alloys	铜合金 Cooper alloys	难加工材料 Heat resistant alloys	淬硬钢 Hardened steel
SG830	★	★	★	★	☆	☆	☆	☆	☆	☆
SG230	☆	★	★	★	☆	☆	☆	☆	☆	☆
SG430	★	☆	☆	☆	☆	☆	★	★	★	★
SG330			★		★	★				★
SG530										★

备注: ★ 非常适合 ☆ 适合
SG830 SG330 涂层硬质合金材料
SG820 SG430 为非涂层硬质合金材料

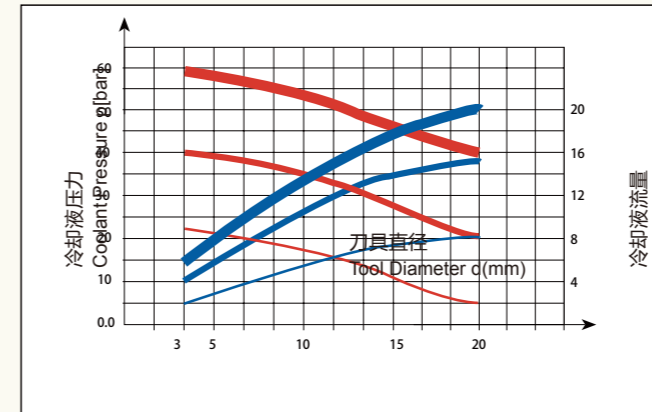
Remarks: ★ Recommended ☆ optional
SG830 SG330 Coated
SG820 SG430 Uncoated

★难加工材料, 不锈钢。☆的是软钢、合金钢。其它不用。

TECHNICAL INFORMATION 技术资料

推荐的冷却液压力和流量

Coolant Pressure and Volume Recommendations



冷却液压力和流量的要求, 适用于带螺旋状内冷却通孔的 SCD 整体硬质合金钻头
Required coolant pressure and volume for SCD drills with internal coolant spiral nozzles.

要求的冷却液压力 Required Coolant Pressure

- 最佳压力 Optimum pressure
- 恰当压力 Good pressure
- 最小压力 Minimum pressure

要求的冷却液流量 Required Coolant Volume

- 最佳流量 Optimum volume
- 恰当流量 Good volume
- 最小流量 Minimum volume

铁削加工的切削参数与通用计算公式

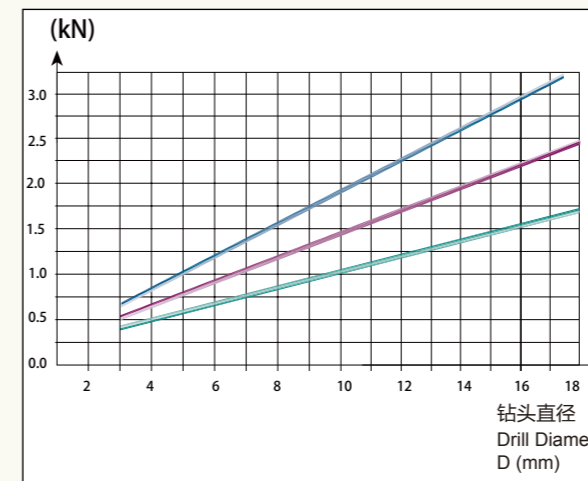
Cutting Parameter and General Formula

常用参数及其单位 Parameter and Unit			
D 铣刀直径 Diameter	(mm)	fn 每转进给量 Feeding per Revolution	(mm/rev)
ap 切削深度 Cutting Depth	(mm)	fz 每刃进给量 Feeding per Tooth	(mm/tooth)
ae 切削宽度 Cutting Width	(mm)	Z 刀刃数 Teeth Number	
Vf 进给速度 Feed Speed	(mm/min)	n 主轴转速 Spindle Speed	(rev/min)
Vc 切削速度 Cutting Speed	(m/min)	L 工作台总进给长度 Length: (工件长度 + 铣刀直径: l+D)	(mm)
Tc 加工时间 Processing Time	(min)	Q 金属切削率 Metal Removal Rate	(cm ³ /min)

通用计算公式 General Formula	
n 主轴转速 Spindle Speed	$n = \frac{Vc \times 1000}{D \times \pi}$ (r/min)
Vc 切削速度 Cutting Speed	$Vc = \frac{n \times D \times \pi}{1000}$ (m/min)
fz 每刃进给量 Feeding per Tooth	$fz = \frac{Vf}{Z \times n}$ (mm)
Vf 进给速度 Feed Speed	$Vf = n \times fz \times Z$ (mm/min)
Q 金属切削率 Metal Removal Rate	$Q = \frac{ae \times ap \times Vf}{1000}$
Tc 加工时间 Processing Time	$Tc = \frac{L}{Vf}$ (min)

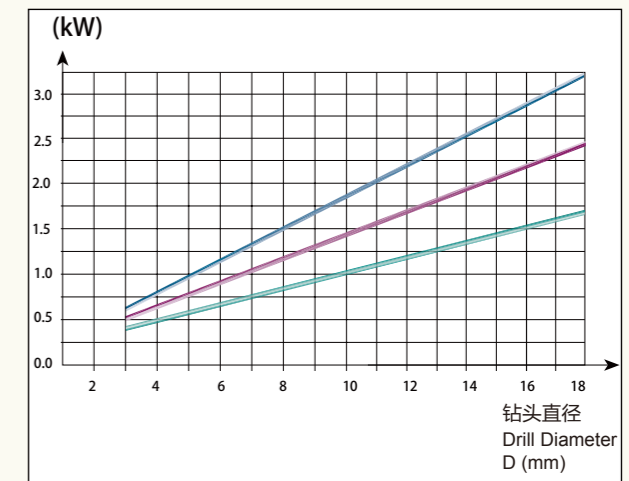
切削力和功率特性 force and Power characteristics

切削力
Feed Force



- f=0.30 mm/rev
- f=0.25 mm/rev
- f=0.20 mm/rev

单位功率消耗
Net Power Consumption



- f=0.30 mm/rev
- f=0.25 mm/rev
- f=0.20 mm/rev

被加工材料 Material: SAE 4340
切削速度 Speed: 100 m/min
图表中数值根据被加工材料和加工条件不同而变化。
Values may change for different materials and drilling conditions.

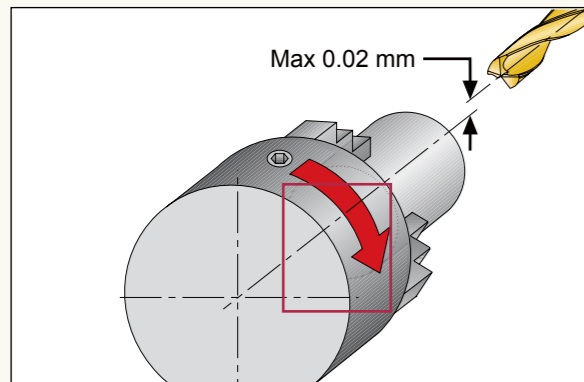
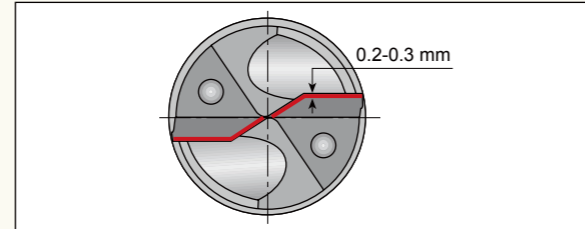
硬质合金钻头正确使用 Proper Using of Solid Carbide Tools

稳定性
稳定的加工工况对刀具的寿命和钻孔精度至关重要。加工前，需检查机床状况和工件的装夹，以确保最佳的工件夹持刚性和可靠性。不稳定的切削状况，极有可能导致刀具的提前破损。

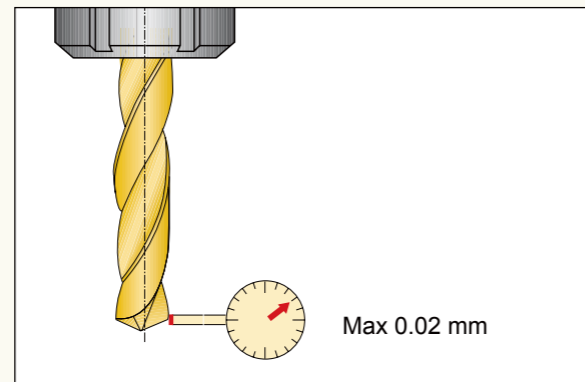
Stability
The stability of the volume of the application is important in order to obtain the best tool life and hole accuracy. Check the condition of the machine spindle, fixture and fixturing of the component to secure maximum stability and rigidity. Unstable conditions can cause tool breakage.

刀具寿命
当刀刃后刀面磨损超过 0.2-0.3mm 时，建议更换刀具。

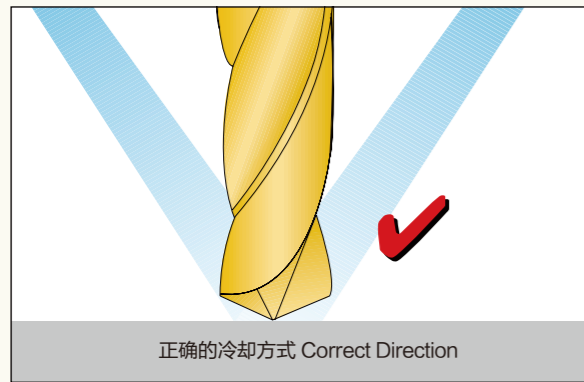
Tool Life
Drills should not be used with flank wear exceeding 0.2-0.3 mm.



钻头不旋转 Stationary Drill



钻头旋转 Rotating Drill



外冷 External Coolant



不恰当的冷却方式 Incorrect Direction

工件材料表 Workpiece Material Table

材料组 ISO Material Group	Mc GEASC	工件材料 Workpiece Material	含量 Carbon Content	抗拉强度 Tensile Strength N/MM ²	布氏硬度 Brinell Hardness HB	洛氏硬度 Rockwell Hardness HRC
P 钢 Steel	P1	低碳钢，长切屑 Mild steel, larger cutting	C<0.25%	<530	<125	
	P2	低碳钢，短切屑，易切削 Mild steel, shorter cutting, free-cutting steel	C<0.25%	<530	<125	
	P3	高碳钢及中碳钢 High-carbon steel, medium carbon steel	C>0.25%	>530	<220	<25
	P4	合金钢，工具钢 Alloy steel, tool steel	C>0.25%	600-850	<330	<35
	P5	合金钢，工具钢 Alloy steel, tool steel	C>0.25%	850-1400	340-450	35-48
	P6	铁素体不锈钢，马氏体不锈钢，PH 不锈钢 Ferritic & Martensitic stainless steel, PH stainless steel	C=(0-0.4)%	600-900	<330	<35
	P7	高强度铁素体不锈钢，马氏体不锈钢，PH 不锈钢 High strength Ferritic stainless steel, Martensitic stainless steel, PH stainless	C=(0.1-0.6)%	900-1350	330-450	35-48
M 不锈钢 Stainless steel	M1	奥氏体不锈钢 Austenitic stainless steel	C=(0.05-0.15)%	<600	130-200	
	M2	高强度的奥氏体和铸造不锈钢 High strength austenitic & cast stainless steel	C=(0.05-0.15)%	600-800	150-230	<25
	M3	双相不锈钢 Duplex stainless steel	C=(0.05-0.20)%	<800	135-275	<30
K 铸铁 Cast iron	K1	灰铸铁 Grey cast iron		125-500	120-290	<32
	K2	中等加工难度的合金铸铁，球墨铸铁 Medium difficulty alloy steel, ductile cast iron		<600	130-260	<28
	K3	难加工的高合金铸铁，球墨铸铁 Hard-to-work high alloy cast iron, ductile cast iron		>600	180-350	<43
N 有色金属 Nonferrous metals	N1	锻造铝合金 Reflectal		<520	60-90	
	N2	铸造铝合金 Casting aluminum alloy	Si≤12%	<350	70-100	
	N3	铸造铝合金 Casting aluminum alloy	Si>12%	200-320	60-120	
	N4	铜，铜合金 Copper, copper alloy		200-650	60-200	
	N5	石墨，复合材料 Graphite, composite materials		600-1500		
	N6	铝基复合材料 Aluminum matrix composites		<700	<210	
S 耐热合金、钛合金 Heat resisting alloy, titanium alloy	S1	铁基高温合金 Iron-base superalloy		500-1200	160-260	25-48
	S2	钛基高温合金 Titanium-base superalloy		1000-1450	250-450	25-48
	S3	镍基高温合金 Nickel-base superalloy		600-1700	160-450	<48
	S4	钛及钛合金 Titanium & titanium alloy		900-1600	300-400	33-48
H 高硬度材料 Superhard material	H1	淬硬钢 Quenched steel				45-55
	H2	淬硬钢 Quenched steel				55-60
	H3	淬硬钢 Quenched steel				60-65
	H4	淬硬钢 Quenched steel				>65

TECHNICAL INFORMATION 技术资料

根据螺纹尺寸推荐的钻头直径

Recommendation Drill Diameter Based on Thread

螺纹直径 Dia. of thread	钻头直径 Dia. of drill mm	螺距 Pitch mm	螺纹直径 Dia. of thread	钻头直径 Dia. of drill mm	螺距 Pitch mm	螺纹直径 Dia. of thread	钻头直径 Dia. of drill mm	螺距 Pitch mm
M 公制粗牙螺纹 M Metric coarse thread			UNF 美制统一细牙螺纹 UNF Fine thread			Rc 英制圆锥管螺纹 Rc Inch taper thread		
M4	3.30	0.7	UNF NO.6	3.00	40	Rc 1/8"	8.40	28
M4.5	3.70	0.75	UNF NO.8	3.50	36	Rc 1/4"	11.20	19
M5	4.20	0.8	UNF NO.10	4.10	32	Rc 3/8"	14.75	19
M6	5.00	1	UNF NO.12	4.65	28	Rc 1/2"	18.25	14
M7	6.00	1	UNF 1/4"	5.50	28	Rc 3/4"	23.75	14
M8	6.80	1.25	UNF 5/16"	6.90	24	Rc 1"	30.00	11
M9	7.80	1.25	UNF 3/8"	8.50	24	G 英制圆锥管螺纹 G Inch taper thread		
M10	8.50	1.5	UNF 7/16"	9.90	20	G 1/8"	8.80	28
M11	9.50	1.5	UNF 1/2"	11.50	20	G 1/4"	11.80	19
M12	10.20	1.75	UNF 9/16"	12.90	18	G 3/8"	15.25	19
M14	12.00	2	UNF 5/8"	14.50	18	G 1/2"	19.00	14
M16	14.00	2	UNF 3/4"	17.50	16	G 5/8"	21.00	14
M18	15.50	2.5	UNF 7/8"	20.50	14	G 3/4"	24.50	14
M20	17.50	2.5	UNF 1"	23.25	12	G 7/8"	28.25	14
M22	19.50	2.5	UNF 1-1/8"	26.50	12	G 1"	30.75	11
M24	21.00	3	UNF 1-1/4"	29.75	12	G 1-1/4"	39.50	11
M27	24.00	3	UNF 1-3/8"	33.00	12	G 1-1/2"	45.50	11
M30	26.50	3.5	UNF 1-1/2"	36.00	12	G 1-3/4"	51.40	11
M33	29.50	3.5	UNF 美制统一粗牙螺纹 UNF Coarse Thread			NPT 60° 全牙形锥管螺纹 NPT 60 Taper thread		
M36	32.00	4	UNC NO.6	2.85	32	NPT 1/16"	6.10	27
M39	35.00	4	UNC NO.8	3.50	32	NPT 1/8"	8.50	27
M42	37.50	4.5	UNC NO.10	3.90	24	NPT 1/4"	11.00	18
M45	40.50	4.5	UNC NO.12	4.50	24	NPT 3/8"	14.50	18
M48	43.00	5	UNC 1/4"	5.20	20	NPT 1/2"	17.80	14
M52	47.00	5	UNC 5/16"	6.60	18	NPT 3/4"	23.00	14
M 公制挤压螺纹 M Metric extrusion thread			UNC 3/8"	8.00	16	NPT 1"	29.00	11-1/2
M4	3.70	0.7	UNC 7/16"	9.40	14	NPT 1-1/4"	37.50	11-1/2
M5	4.63	0.8	UNC 1/2"	10.75	13	NPT 1-1/2"	44.00	11-1/2
M6	5.50	1	UNC 9/16"	12.25	12	NPT 2"	56.00	11-1/2
M7	6.51	1	UNC 5/8"	13.50	11	NPTF 60° 全牙形锥管螺纹 NPTF 60 Taper thread		
M8	7.40	1.25	UNC 3/4"	16.50	10	NPTF 1/16"	6.00	27
M10	9.25	1.5	UNC 7/8"	19.50	9	NPTF 1/8"	8.40	27
M12	11.12	1.75	UNC 1"	22.25	8	NPTF 1/4"	10.90	18
M14	13.00	2	UNC 1-1/8"	25.00	7	NPTF 3/8"	14.25	18
M16	15.00	2	UNC 1-1/4"	28.25	7	NPTF 1/2"	17.75	14
M 公制红牙螺纹 M metric thread			UNC 1-3/8"	31.00	6	NPTF 3/4"	23.00	14
钻头直径=丝锥直径-螺距 Dia of drill= Dia of tap - Pitch			UNC 1-1/2"	34.00	6	NPTF 1"	29.00	11-1/2
			UNC 1-3/4"	39.50	5	NPTF 1-1/4"	37.75	11-1/2
			UNC 2"	45.25	4-1/2	NPTF 1-1/2"	43.74	11-1/2
						NPTF 2"	55.75	11-1/2

SOLID CARBID TOOLS
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VARIOUS OF SPECIAL
TOOLS FOR YOU

GENERAL TURNING

普通车削



F

车削刀具 TURNING TOOLS

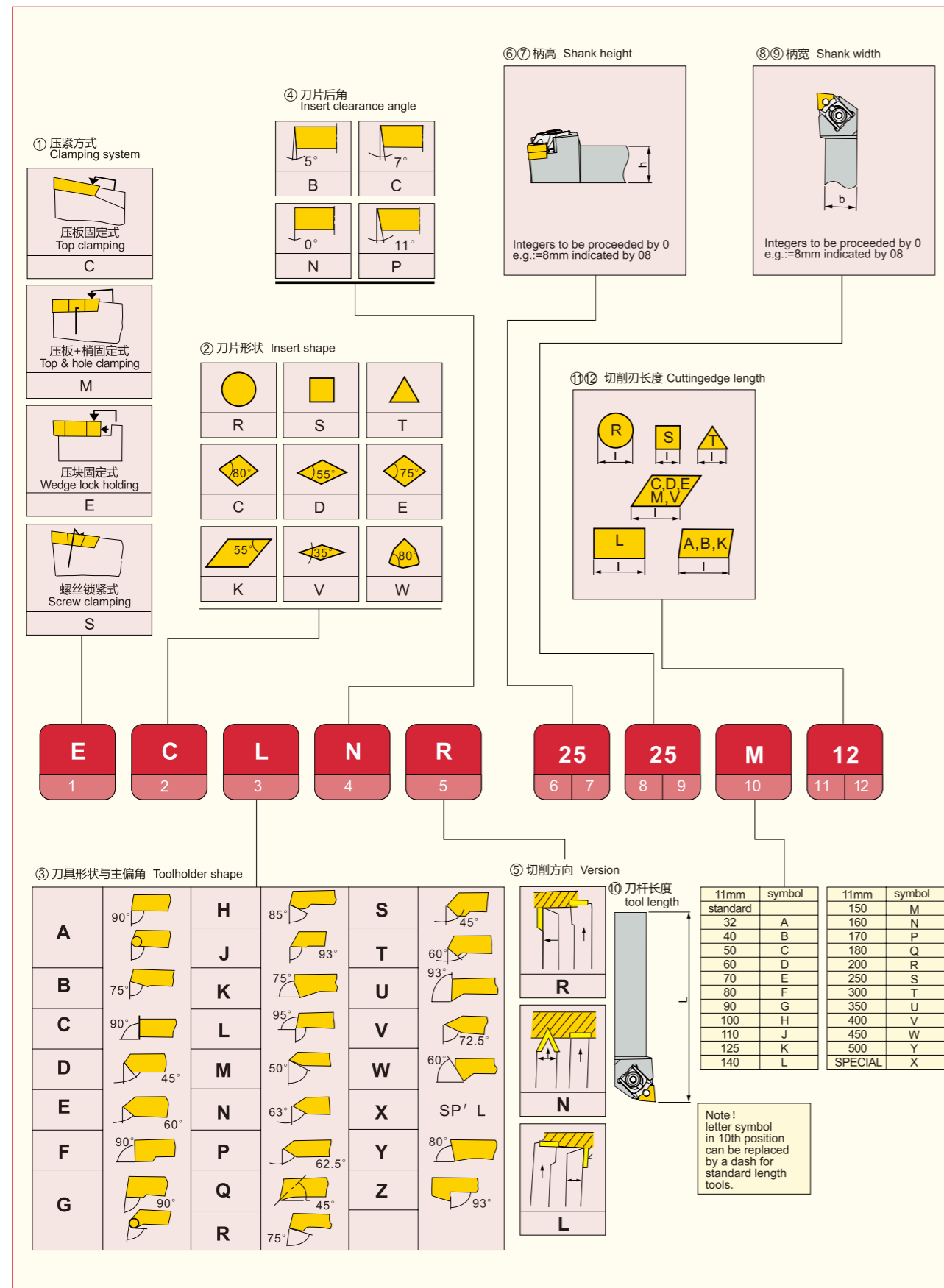
普通车削 General Turning

外圆车削刀具 External Turning Tool Series	正型外圆车刀 F7 Positive External Turning Tool
	负型外圆车刀 F32 Negative External Turning Tool
内孔车削刀具 Boring Bar Series	正型内孔车刀 F53 Positive Internal Turning Tool
	负型内孔车刀 F88 Negative Internal Turning Tool
内孔车刀定位座 F102 Position Holder	
套筒 F103 Sleeve	

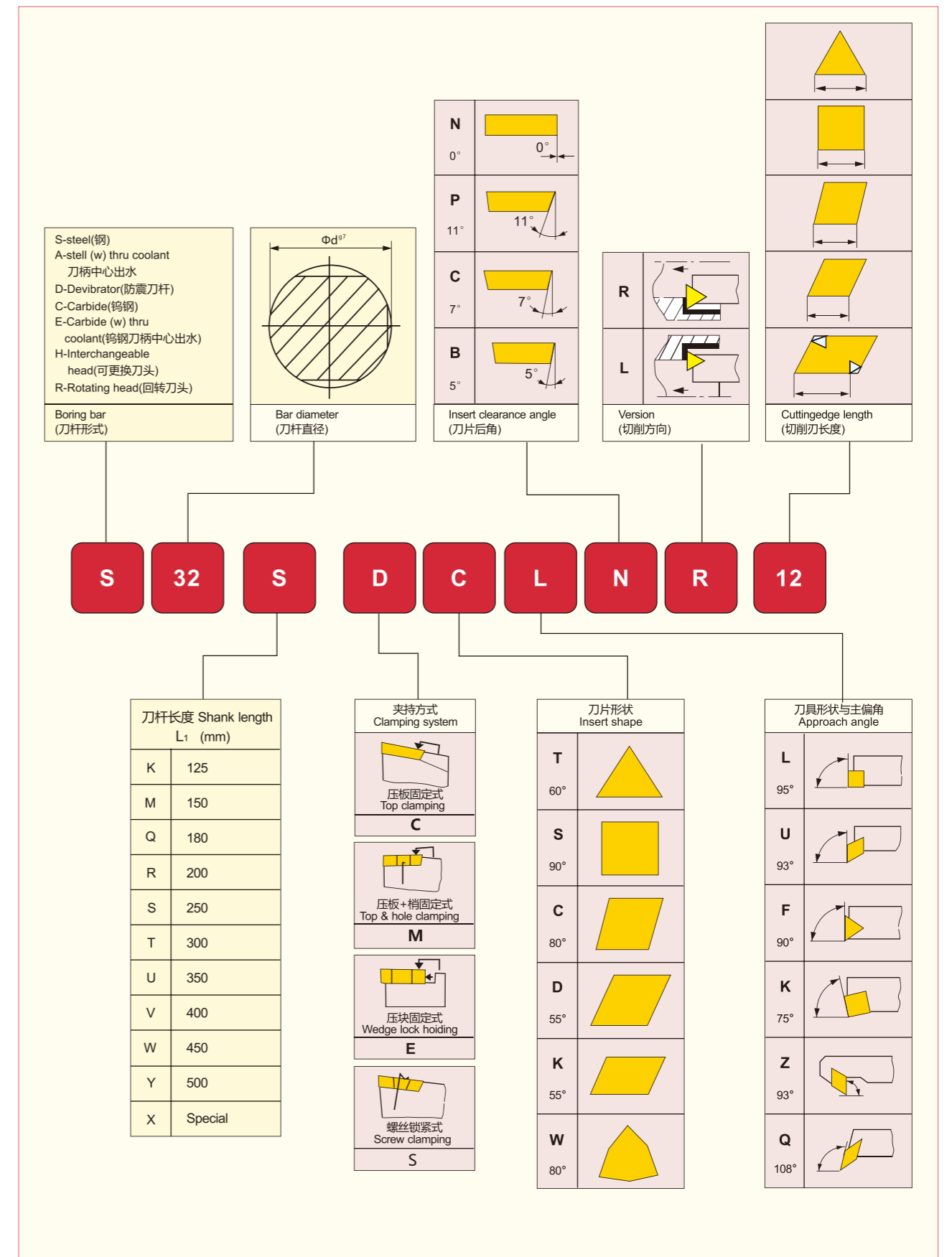
车刀片 Inserts for Turning

车刀片 F105 Inserts for Turning	
---------------------------------------	--

ISO DESIGNATION KEY FOR EXTERNAL TURNING TOOL 外圆车刀杆识别系统



ISO DESIGNATION KEY FOR BORING BAR 内圆车刀杆识别系统



ISO DESIGNATION KEY FOR INDEXABLE INSERT 刀片识别系统

1 刀片形状 Insert shape

A	B	C
D	E	F
G	N	P

2 刀片后角 Relief angle

H	O	P	R	S
T	C	D	E	M
V	L	A	B	K

Tolerances

IC: theoretical diameter of the insert inscribed circle
T: thickness
B: see figure below

tolerance class	tolerance on "IC"		tolerance on "B"		tolerance on "T"	
	in	mm	in	mm	in	mm
C	±0.010	±0.025	±0.0005	±0.013	±0.001	±0.025
H	±0.005	±0.013	±0.0005	±0.013	±0.001	±0.025
E	±0.010	±0.025	±0.0010	±0.025	±0.001	±0.025
G	±0.010	±0.025	±0.0010	±0.025	±0.005	±0.13
M	See tables at right	See tables at right	See tables at right	See tables at right	±0.005	±0.13
U	See tables at right	See tables at right	See tables at right	See tables at right	±0.005	±0.13

3 公差等级 Tolerance

4 刀片形式 Insert type

N		T	
R		Q	
F		U	
A		B	
M		H	
G		C	
W		J	

inch	C	N	M	G	—	4	3	2			
(Metric)	C	N	M	G		12	04	08			
Position	1	2	3	4		5	6	7	8	9	10

5 切削刃长度 Size

Inch	IC		Cutting edge length							
	In	mm	C	D	R	S	T	V	W	
1.2 (5)	5/22	3.97	-	04	03	03	06	-	-	
1.5 (6)	3/16	4.76	04	05	04	04	08	08	-	
1.8 (7)	7/22	5.56	05	06	05	05	09	09	03	
-	0.236	6.00	-	-	06	-	-	-	-	
2	1/4	6.35	06	07	06	06	11	11	04	
2.5	5/16	7.94	08	09	07	07	13	13	05	
-	0.315	8.00	-	-	08	-	-	-	-	
3	3/8	9.52	09	11	09	09	16	16	06	
-	0.394	10.00	-	-	10	-	-	-	-	
3.5	1/16	11.11	11	13	11	11	19	19	07	
-	0.472	12.00	-	-	12	-	-	-	-	
4	1/2	12.70	12	15	12	12	22	22	08	
4.5	9/16	14.29	14	17	14	14	24	24	09	
5	5/8	15.88	16	19	15	15	27	27	10	
-	0.630	16.00	-	-	16	-	-	-	-	
5.5	11/16	17.46	17	21	17	17	30	30	11	
6	3/4	19.05	19	23	19	19	33	33	13	
-	0.787	20.00	-	-	20	-	-	-	-	
7	7/8	22.22	22	27	22	22	38	38	15	
-	0.984	25.00	-	-	25	-	-	-	-	
8	1	25.40	25	31	25	25	44	44	17	
10	1-1/4	31.75	32	31	38	-	54	54	21	
-	1.260	32.00	-	-	32	-	-	-	-	

NOTE: Inch sizes in parenthesis for "alternate sizes" D or E (under 1/4 inch IC.)

6 刀片厚度 Thickness

Thickness	Symbol	
	in	mm
1/32	0.79	0.5(1)
1/16	1.59	1(2)
5/64	1.98	1.2
3/32	2.38	1.5(3)
1/8	3.18	2
5/22	3.97	2.5
3/16	4.76	3
7/32	5.56	3.5
1/4	6.35	4
5/16	7.94	5
3/8	9.52	6
7/16	11.11	7
1/2	12.70	8

7 刀片圆角 Corner Radius

Corner radius	symbol	
	in	mm
.004	0.1	0
.008	0.2	0.5
1/64	0.4	1
1/32	0.8	2
3/64	1.2	3
1/16	1.6	4
5/64	2.0	5
3/32	2.4	6
7/64	2.8	7
1/8	3.2	8
Round insert (inch)	-	00
Round insert (metric)	-	M0

8 刀片形状及排屑槽形 Cutting edge condition & chip control

Hand of insert

DESIGNATION KEY FOR THRFAD INSERT 螺纹刀片识别系统

1 刀片长度 Insert size

11-IC 6.35
16-IC 9.525
22-IC 12.7
27-IC 15.875

刀片型式 Type of insert

刀片方向 Hand of insert

外径 External
ER : 右手刀片 Right hand insert
EL : 左手刀片 Left hand insert

内径 Internal
IR : 右手刀片 Right hand insert
IL : 左手刀片 Left hand insert

16 ER -1.5 ISO

3 牙距 Pitch

Full profile	
mm	tpl
0.35-6.0	72-4

Partial profile		
code	mm	tpl
A	0.5-1.5	48-16
AG	0.5-3.0	48-8
G	1.75-3.0	14-8
N	3.5-5.0	7-5
Q	5.5-6.0	48-4

4 螺纹标准 Thread standard

60° -Partial profile 60°
55° -Partial profile 55°
ISO-ISO Metric
UN-American UN
W-Whitworth for BSW,BSP
NPT-NPT

车削刀具
TURNING TOOLS

车削刀具
TURNING TOOLS

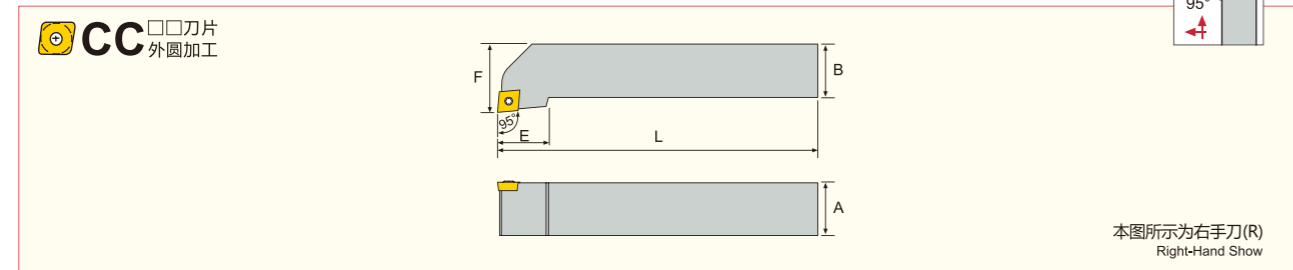
F5

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F6

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

SCLC 95°



本图所示为右手刀(R)
Right-Hand Show

规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在库 Stock	
	A	B	L	E	F		R	L
SCLCR/L-0808K06	8	8	125	8	10	CC..0602..	●	●
SCLCR/L-1010K06	10	10	125	10	12	CC..0602..	●	●
SCLCR/L-1212K09	12	12	125	16	16	CC..09T3..	●	●
SCLCR/L-1616K09	16	16	125	16	20	CC..09T3..	●	●
SCLCR/L-2020K09	20	20	125	22	25	CC..09T3..	●	●
SCLCR/L-2525M09	25	25	150	22	32	CC..09T3..	●	●
SCLCR/L-2020K12	20	20	125	30	25	CC..1204..	●	●
SCLCR/L-2525M12	25	25	150	22	32	CC..1204..	●	●

- 订货示例: 1 件 SCLCR-0808K06
- 刀片需单独订购, 请参照: [☞ F105-F114 页](#)
- Ordering sample: 1 PC SCLCR-0808K06
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
SCLCR/L-0808K06	CS25	T-8
SCLCR/L-1010K06	CS25	T-8
SCLCR/L-1212K09	CS35	T-15
SCLCR/L-1616K09	CS35	T-15
SCLCR/L-2020K09	CS35	T-15
SCLCR/L-2525M09	CS35	T-15
SCLCR/L-2020K12	CS45	T-15
SCLCR/L-2525M12	CS45	T-15

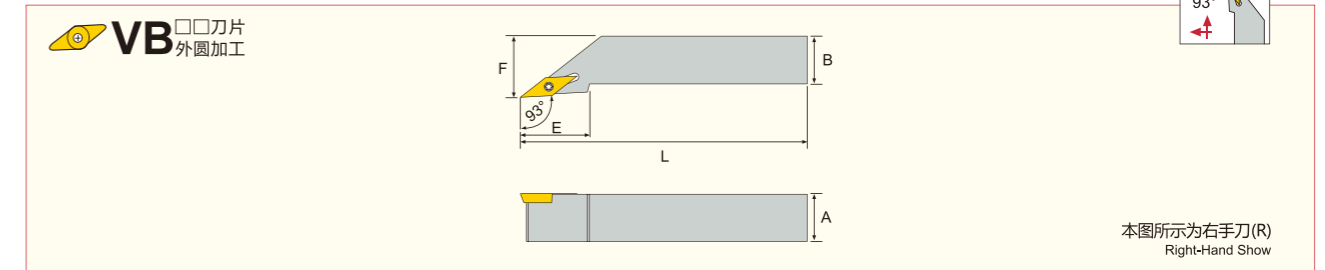
● 标准库存
Item in stock

○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

SVJB 93°



本图所示为右手刀(R)
Right-Hand Show

规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在库 Stock	
	A	B	L	E	F		R	L
SVJBR/L-1010K11	10	10	125	18	12	VB..1103..	●	●
SVJBR/L-1212K11	12	12	125	18	16	VB..1103..	●	●
SVJBR/L-1616K11	16	16	125	20	20	VB..1103..	●	●
SVJBR/L-2020K11	20	20	125	22	25	VB..1103..	●	●
SVJBR/L-2525M11	25	25	150	30	32	VB..1103..	●	●
SVJBR/L-1616K16	16	16	125	30	20	VB..1604..	●	●
SVJBR/L-2020K16	20	20	125	39	25	VB..1604..	●	●
SVJBR/L-2525M16	25	25	150	42	32	VB..1604..	●	●

- 订货示例: 1 件 SVJBR-1010K11
- 刀片需单独订购, 请参照: [☞ F105-F114 页](#)
- Ordering sample: 1 PC SVJBR-1010K11
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
SVJBR/L-1010K11	CS25	T-8
SVJBR/L-1212K11	CS25	T-8
SVJBR/L-1616K11	CS25	T-8
SVJBR/L-2020K11	CS25	T-8
SVJBR/L-2525M11	CS25	T-8
SVJBR/L-1616K16	CS35	T-15
SVJBR/L-2020K16	CS35	T-15
SVJBR/L-2525M16	CS35	T-15

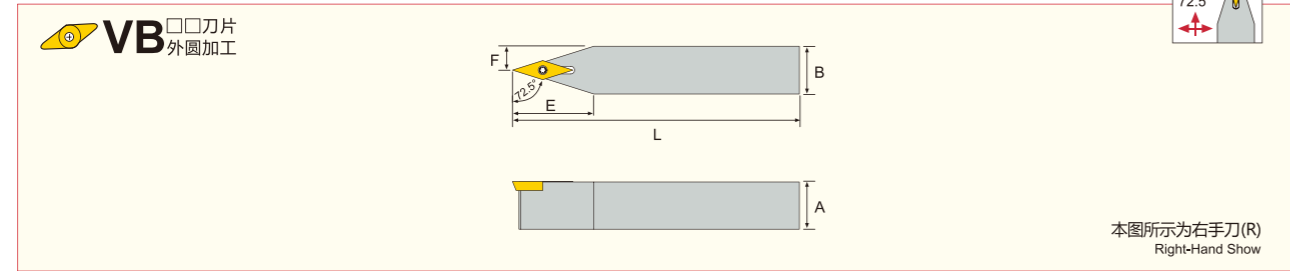
● 标准库存
Item in stock

○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

SVVB 72.5°



本图所示为右手刀(R)
Right-Hand Show

规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在库 Stock	
	A	B	L	E	F		R	L
SVVBN-1010K11	10	10	125	18	5	VB..1103..	●	●
SVVBN-1212K11	12	12	125	18	6	VB..1103..	●	●
SVVBN-1616K11	16	16	125	30	8	VB..1103..	●	●
SVVBN-2525M11	25	25	150	30	15.8	VB..1103..	●	●
SVVBN-2020K16	20	20	125	30	10	VB..1604..	●	●
SVVBN-2525M16	25	25	150	30	12.5	VB..1604..	●	●
SVVBN-2020M16N	20	20	150	30	19.5	VB..1604..	●	●

- 订货示例: 1 件 SVVBN-1010K11
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC SVVBN-1010K11
- Insert should be ordered separately, please see page [F105-F114](#)

备件

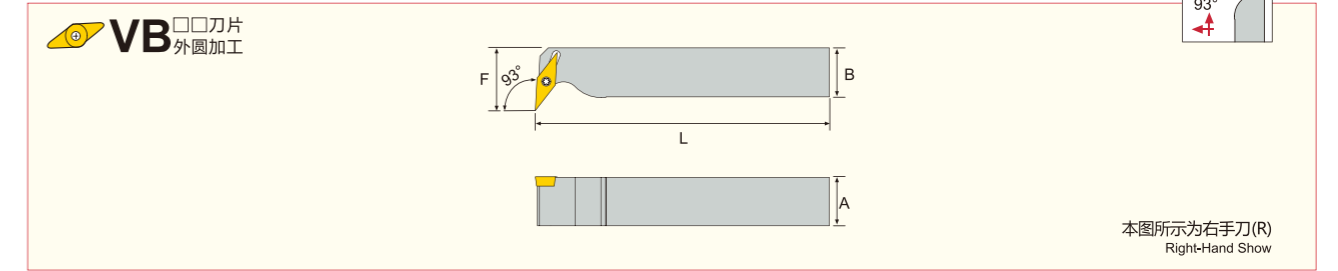
Spare Parts



规格型号 Designation	螺钉 Screw	扳手 Wrench
SVVBN-1010K11	CS25	T-8
SVVBN-1212K11	CS25	T-8
SVVBN-1616K11	CS25	T-8
SVVBN-2525M11	CS25	T-8
SVVBN-2020K16	CS35	T-15
SVVBN-2525M16	CS35	T-15
SVVBN-2020M16N	CS35	T-15

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

SVUB 93°



本图所示为右手刀(R)
Right-Hand Show

规格型号 Designation	尺寸 Dimensions(mm)				刀片 Insert	在库 Stock	
	A	B	L	F		R	L
SVUBR/L-1616K11	16	16	125	25	VB..1103..	●	●
SVUBR/L-2020K11	20	20	125	30	VB..1103..	●	●
SVUBR/L-2020K16	20	20	125	30	VB..1103..	●	●
SVUBR/L-2525M16	25	25	150	35	VB..1103..	●	●

- 订货示例: 1 件 SVUBR-1616K11
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC SVUBR-1616K11
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts



规格型号 Designation	螺钉 Screw	扳手 Wrench
SVUBR/L-1616K11	CS25	T-8
SVUBR/L-2020K11	CS25	T-8
SVUBR/L-2020K16	CS35	T-15
SVUBR/L-2525M16	CS35	T-15

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

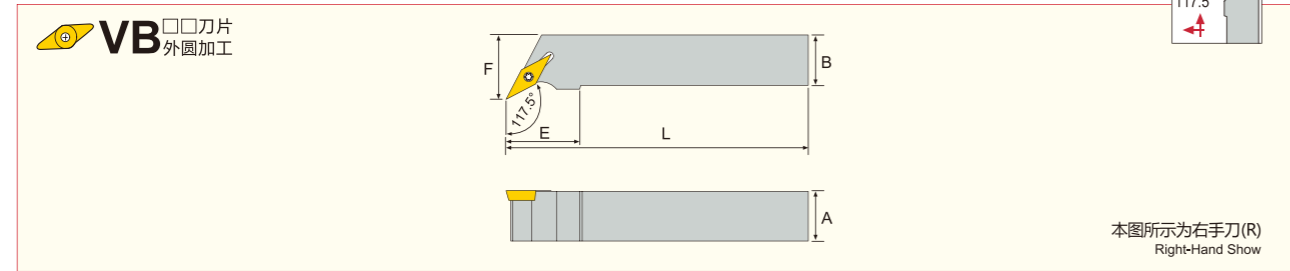
● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
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○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

SVQB 117.5°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock	
	A	B	L	E	F		R	L
SVQBR/L-1010K11	10	10	125	14	14.5	VB..1103..	●	●
SVQBR/L-1212K11	12	12	125	18	16.5	VB..1103..	●	●
SVQBR/L-1616K11	16	16	125	30	20.5	VB..1103..	●	●
SVQBR/L-2020K11	20	20	125	30	25	VB..1103..	●	●
SVQBR/L-1616K16	16	16	125	30	20	VB..1604..	●	●
SVQBR/L-2020K16	20	20	125	30	25	VB..1604..	●	●
SVQBR/L-2525M16	25	25	150	30	32	VB..1604..	●	●

- 订货示例: 1 件 SVQBR-1010K11
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC SVQBR-1010K11
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

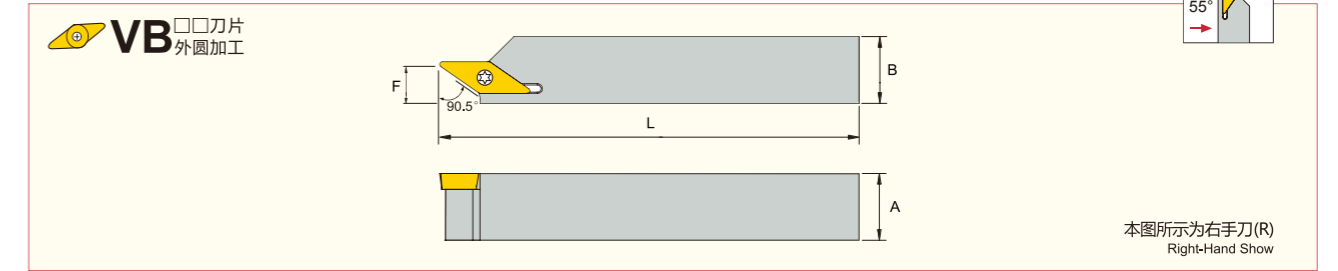


规格型号 Designation	螺钉 Screw	扳手 Wrench
SVQBR/L-1010K11	CS25	T-8
SVQBR/L-1212K11	CS25	T-8
SVQBR/L-1616K11	CS25	T-8
SVQBR/L-2020K11	CS25	T-8
SVQBR/L-1616K16	CS35	T-15
SVQBR/L-2020K16	CS35	T-15
SVQBR/L-2525M16	CS35	T-15

- 标准库存 Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

SVKB 55°



规格型号 Designation	尺寸 Dimensions(mm)				刀片 Insert	在庫 Stock	
	A	B	L	F		R	L
SVKBR/L-1010K11	10	10	125	9	VB..1103..	●	●
SVKBR/L-1212K11	12	12	125	9	VB..1103..	●	●
SVKBR/L-1616K11	16	16	125	9	VB..1103..	●	●
SVKBR/L-2020K11	20	20	125	9	VB..1103..	●	●
SVKBR/L-2020K16	20	20	125	12	VB..1604..	●	●
SVKBR/L-2525M16	25	25	150	12	VB..1604..	●	●
SVKBR/L-1616K16	16	16	125	9	VB..1604..	●	●

- 订货示例: 1 件 SVKBR-1010K11 或 SVKBL-1010K11
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC SVKBR-1010K11
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

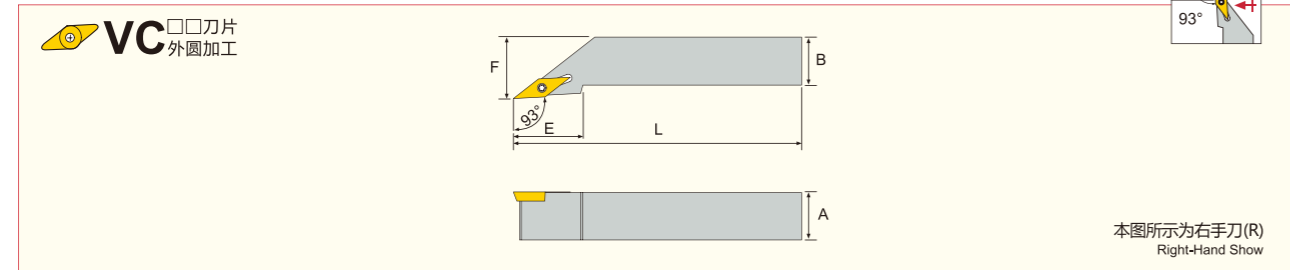


规格型号 Designation	螺钉 Screw	扳手 Wrench
SVKBR/L-1010K11	CS25	T-8
SVKBR/L-1212K11	CS25	T-8
SVKBR/L-1616K11	CS25	T-8
SVKBR/L-2020K11	CS25	T-8
SVKBR/L-2020K16	CS35	T15
SVKBR/L-2525M16	CS35	T15
SVKBR/L-1616K16	CS35	T15

- 标准库存 Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

SVJC 93°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock	
	A	B	L	E	F		R	L
SVJCR/L-1010K11	10	10	125	18	12	VC..1103..	●	●
SVJCR/L-1212K11	12	12	125	18	16	VC..1103..	●	●
SVJCR/L-1616K11	16	16	125	30	20	VC..1103..	●	●
SVJCR/L-2020K11	20	20	125	22	25	VC..1103..	●	●
SVJCR/L-1616K16	16	16	125	30	20	VC..1604..	●	●
SVJCR/L-2020K16	20	20	125	40	25	VC..1604..	●	●
SVJCR/L-2525M16	25	25	150	40	32	VC..1604..	●	●

- 订货示例: 1 件 SVJCR-1010K11
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC SVJCR-1010K11
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

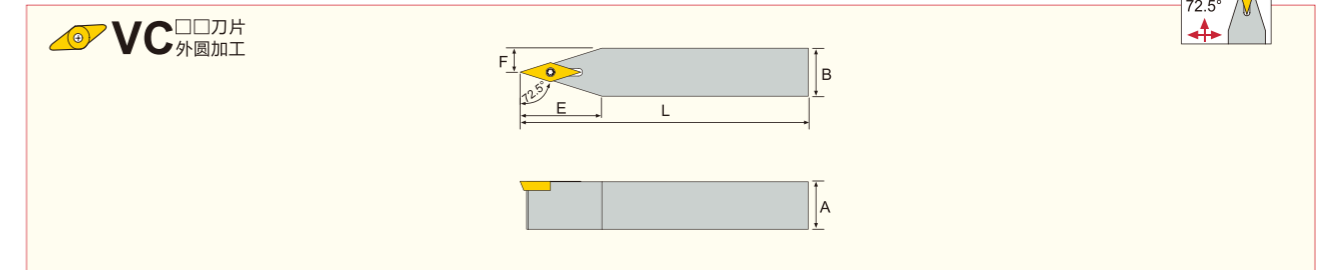


规格型号 Designation	螺钉 Screw	扳手 Wrench
SVJCR/L-1010K11	CS25	T-8
SVJCR/L-1212K11	CS25	T-8
SVJCR/L-1616K11	CS25	T-8
SVJCR/L-2020K11	CS25	T-8
SVJCR/L-1616K16	CS35	T-15
SVJCR/L-2020K16	CS35	T-15
SVJCR/L-2525M16	CS35	T-15

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

SVVC 72.5°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock
	A	B	L	E	F		
SVVCN-1010K11	10	10	125	18	5	VC..1103..	●
SVVCN-1212K11	12	12	125	18	6	VC..1103..	●
SVVCN-1616K11	16	16	125	30	8	VC..1103..	●
SVVCN-2525M11	25	25	150	35	12.5	VC..1103..	●
SVVCN-2020K16	20	20	125	30	10	VC..1604..	●
SVVCN-2525M16	25	25	150	30	12.5	VC..1604..	●

- 订货示例: 1 件 SVVCN-1010K11
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC SVVCN-1010K11
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

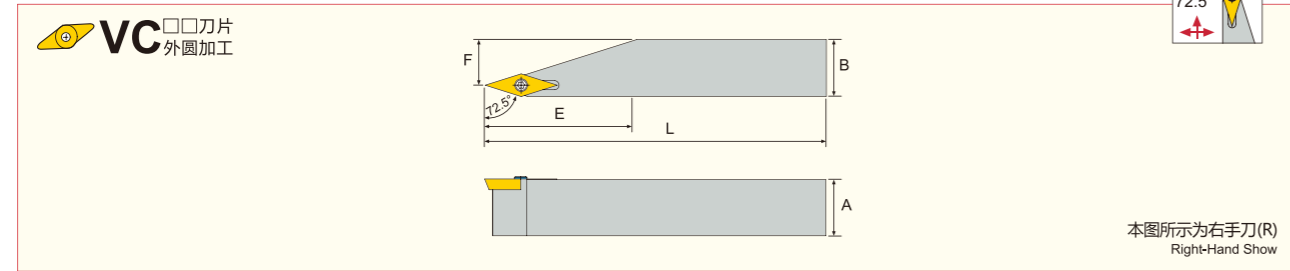


规格型号 Designation	螺钉 Screw	扳手 Wrench
SVVCN-1010K11	CS25	T-8
SVVCN-1212K11	CS25	T-8
SVVCN-1616K11	CS25	T-8
SVVCN-2525M11	CS25	T-8
SVVCN-2020K16	CS35	T-15
SVVCN-2525M16	CS35	T-15

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

SVVC 72.5°



本图所示为右手刀(R)
Right-Hand Show

规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在库 Stock
	A	B	L	E	F		
SVVCR-2020K11	20	20	125	30	16	VC..1103..	●
SVVCR-2525M11	25	25	150	25	21	VC..1103..	●
SVVCR-2020K16	20	20	125	30	5	VC..1604..	●
SVVCR-2525M16	25	25	150	30	20	VC..1604..	●

- 订货示例: 1 件 SVVCR-2020K16
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC SVVCR-2020K16
- Insert should be ordered separately, please see page [F105-F114](#)

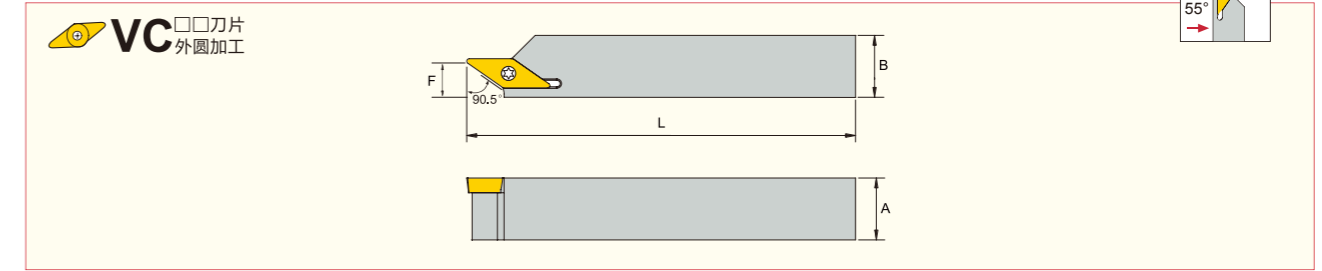
备件

Spare Parts

规格型号 Designation	螺钉 Screw	扳手 wrench
SVVCR-2020K11	CS25	T-8
SVVCR-2525M11	CS25	T-8
SVVCR-2020K16	CS35	T-15
SVVCR-2525M16	CS35	T-15

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

SVKC 55°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在库 Stock
	A	B	L	E	F		
SVKCR/L-1010K11	10	10	125	14	9	VC..1103..	○
SVKCR/L-1212K11	12	12	125	15	9	VC..1103..	●
SVKCR/L-1616K11	16	16	125	15	9	VC..1103..	●
SVKCR/L-2020K11	20	20	125	15	9	VC..1103..	●
SVKCR/L-2525M11	25	25	150	30	12	VC..1103..	○
SVKCR/L-1616K16	16	16	125	15	9	VC..1604..	●
SVKCR/L-2020K16	20	20	125	25	9	VC..1604..	●
SVKCR/L-2525M16	25	25	150	25	12	VC..1604..	●

- 订货示例: 1 件 SVKCR/L-1010K11
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC SVKCR/L-1010K11
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
SVKCR/L-1010K11	CS25	T-8
SVKCR/L-1212K11	CS25	T-8
SVKCR/L-1616K11	CS25	T-8
SVKCR/L-2020K11	CS25	T-8
SVKCR/L-2525M11	CS25	T-8
SVKCR/L-1616K16	CS35	T-15
SVKCR/L-2020K16	CS35	T-15
SVKCR/L-2525M16	CS35	T-15

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

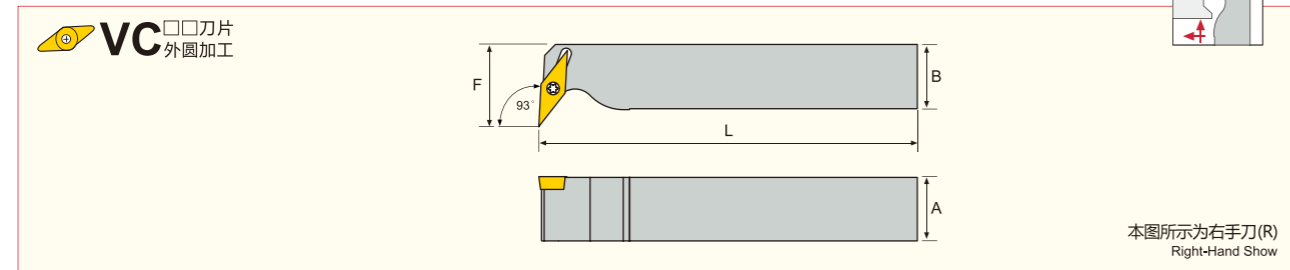
● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

SVUC 93°



本图所示为右手刀(R)
Right-Hand Show

规格型号 Designation	尺寸 Dimensions(mm)				刀片 Insert	在库 Stock	
	A	B	L	F		R	L
SVUCR/L-1616K11	16	16	125	25	VC..1103..	●	●
SVUCR/L-2020K11	20	20	125	30	VC..1103..	●	●
SVUCR/L-2020K16	20	20	125	30	VC..1604..	●	●
SVUCR/L-2525M16	25	25	150	35	VC..1604..	●	●

- 订货示例: 1 件 SVUCR/L-1616K11
- 刀片需单独订购, 请参照: F105-F114 页
- Ordering sample: 1 PC SVUCR/L-1616K11
- Insert should be ordered separately, please see page F105-F114

备件

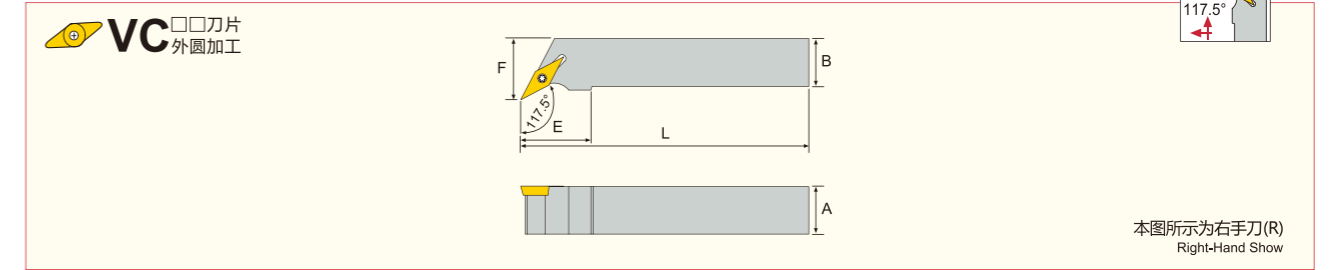
Spare Parts



规格型号 Designation	螺钉 Screw	扳手 wrench
SVUCR/L-1616K11	CS25	T-8
SVUCR/L-2020K11	CS25	T-8
SVUCR/L-2020K16	CS35	T-15
SVUCR/L-2525M16	CS35	T-15

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

SVQC 117.5°



本图所示为右手刀(R)
Right-Hand Show

规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在库 Stock	
	A	B	L	E	F		R	L
SVQCR/L-1010K11	10	10	125	14	14.5	VC..1103..	●	●
SVQCR/L-1212K11	12	12	125	18	16.5	VC..1103..	●	●
SVQCR/L-1616K11	16	16	125	30	20.5	VC..1103..	●	●
SVQCR/L-2020K11	20	20	125	30	25.0	VC..1103..	●	●
SVQCR/L-1616K16	16	16	125	30	20.0	VC..1604..	●	●
SVQCR/L-2020K16	20	20	125	30	25.0	VC..1604..	●	●
SVQCR/L-2525M16	25	25	150	30	32.0	VC..1604..	●	●

- 订货示例: 1 件 SVQCR-1010K11
- 刀片需单独订购, 请参照: F105-F114 页
- Ordering sample: 1 PC SVQCR-1010K11
- Insert should be ordered separately, please see page F105-F114

备件

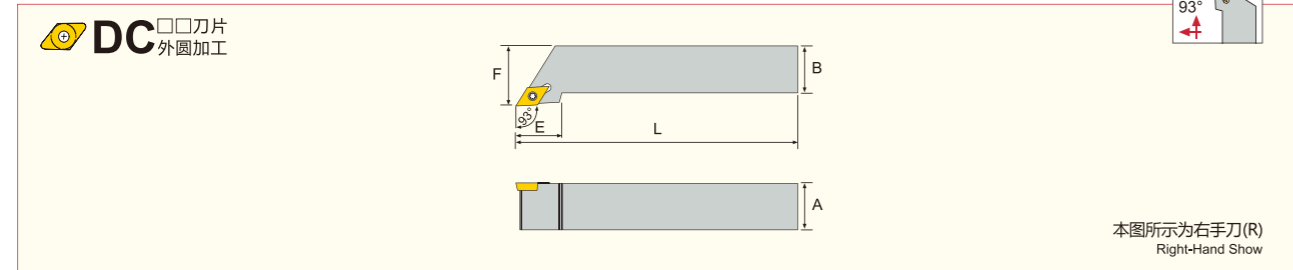
Spare Parts



规格型号 Designation	螺钉 Screw	扳手 Wrench
SVQCR/L-1010K11	CS25	T-8
SVQCR/L-1212K11	CS25	T-8
SVQCR/L-1616K11	CS25	T-8
SVQCR/L-2020K11	CS25	T-8
SVQCR/L-1616K16	CS35	T-15
SVQCR/L-2020K16	CS35	T-15
SVQCR/L-2525M16	CS35	T-15

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

SDJC 93°



本图所示为右手刀(R)
Right-Hand Show

规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert ②	在庫 Stock	
	A	B	L	E	F		R	L
SDJCR/L-0808K07	8	8	125	12	10	DC..0702..	●	●
SDJCR/L-1010K07	10	10	125	14	12	DC..0702..	●	●
SDJCR/L-1212K07	12	12	125	18	16	DC..0702..	●	●
SDJCR/L-1212K11	12	12	125	18	16	DC..11T3..	●	●
SDJCR/L-1616K11	16	16	125	30	20	DC..11T3..	●	●
SDJCR/L-2020K11	20	20	125	22	25	DC..11T3..	●	●
SDJCR/L-2525M11	25	25	150	22	32	DC..11T3..	●	●

- 订货示例: 1 件 SDJCR-0808K07
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC SDJCR-0808K07
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

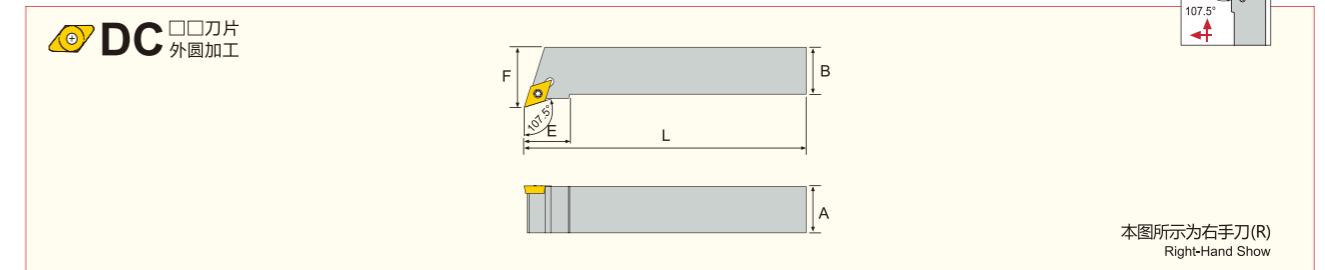


规格型号 Designation	螺钉 Screw	扳手 Wrench
SDJCR/L-0808K07	CS25	T-8
SDJCR/L-1010K07	CS25	T-8
SDJCR/L-1212K07	CS25	T-8
SDJCR/L-1212K11	CS35	T-15
SDJCR/L-1616K11	CS35	T-15
SDJCR/L-2020K11	CS35	T-15
SDJCR/L-2525M11	CS35	T-15

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

SDQC 107.5°



本图所示为右手刀(R)
Right-Hand Show

规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert ②	在庫 Stock	
	A	B	L	E	F		R	L
SDQCR/L-1010K07	10	10	125	14	12	DC..0702..	●	●
SDQCR/L-1212K07	12	12	125	18	16	DC..0702..	●	●
SDQCR/L-1212K11	12	12	125	18	16	DC..11T3..	●	●
SDQCR/L-1616K11	16	16	125	30	20	DC..11T3..	●	●
SDQCR/L-2020K11	20	20	125	30	25	DC..11T3..	●	●
SDQCR/L-2525M11	25	25	150	30	32	DC..11T3..	●	●

- 订货示例: 1 件 SDQCR-1010K07
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC SDQCR-1010K07
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

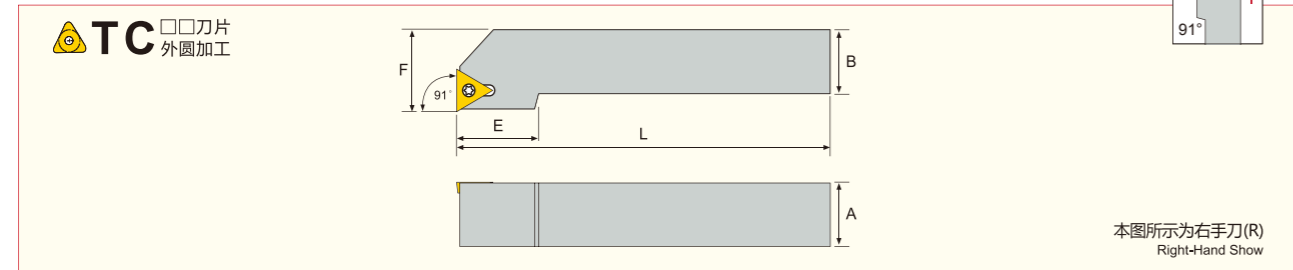


规格型号 Designation	螺钉 Screw	扳手 Wrench
SDQCR/L-1010K07	CS25	T-8
SDQCR/L-1212K07	CS25	T-8
SDQCR/L-1212K11	CS35	T-15
SDQCR/L-1616K11	CS35	T-15
SDQCR/L-2020K11	CS35	T-15
SDQCR/L-2525M11	CS35	T-15

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

STFC 91°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在库 Stock	
	A	B	L	E	F		R	L
STFCR/L-1212K11	12	12	125	14	16	TC..1102..	●	●
STFCR/L-1616K11	16	16	125	14	20	TC..1102..	●	●
STFCR/L-2020K16	20	20	125	30	25	TC..16T3..	●	●
STFCR/L-2525M16	25	25	150	30	32	TC..16T3..	●	●

- 订货示例: 1 件 STFCR/L-1212K11
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC STFCR/L-1212K11
- Insert should be ordered separately, please see page [F105-F114](#)

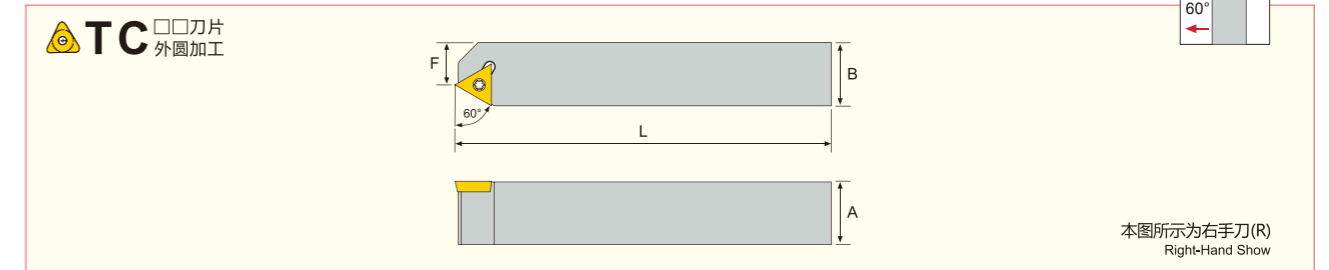
备件

Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
STFCR/L-1212K11	CS25	T-8
STFCR/L-1616K11	CS25	T-8
STFCR/L-2020K16	CS40	T-15
STFCR/L-2525M16	CS40	T-15

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

STEC 60°



规格型号 Designation	尺寸 Dimensions(mm)				刀片 Insert	在库 Stock	
	A	B	L	F		R	L
STECR/L-2020K11	20	20	125	14.5	TC..1102..	●	●
STECR/L-2525M11	25	25	150	19.5	TC..1102..	●	●
STECR/L-2020K16	20	20	125	12	TC..16T3..	●	●
STECR/L-2525M16	25	25	150	17	TC..16T3..	●	●

- 订货示例: 1 件 STECR/L-2020K11
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC STECR/L-2020K11
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
STECR/L-2020K11	CS25	T-8
STECR/L-2525M11	CS25	T-8
STECR/L-2020K16	CS40	T-15
STECR/L-2525M16	CS40	T-15

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

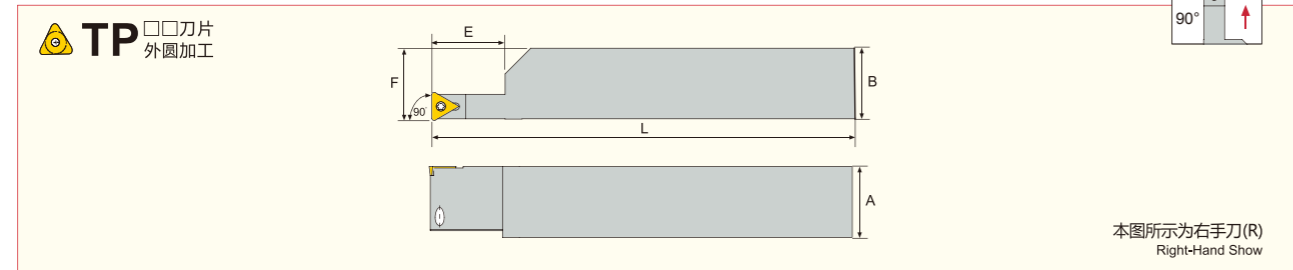
● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

STFP 90°



本图所示为右手刀(R)
Right-Hand Show

规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock	
	A	B	L	E	F		R	L
STFPR/L-2525M09-R40	25	25	150	25	26	TP..0902..	●	●
STFPR/L-2525M11-R40	25	25	150	25	26	TP..1103..	●	●
STFPR/L-3232P11-R40	32	32	170	25	31	TP..1103..	●	●

- 订货示例: 1 件 STFPR/L-2525M09-R40
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC STFPR/L-2525M09-R40
- Insert should be ordered separately, please see page [F105-F114](#)

备件

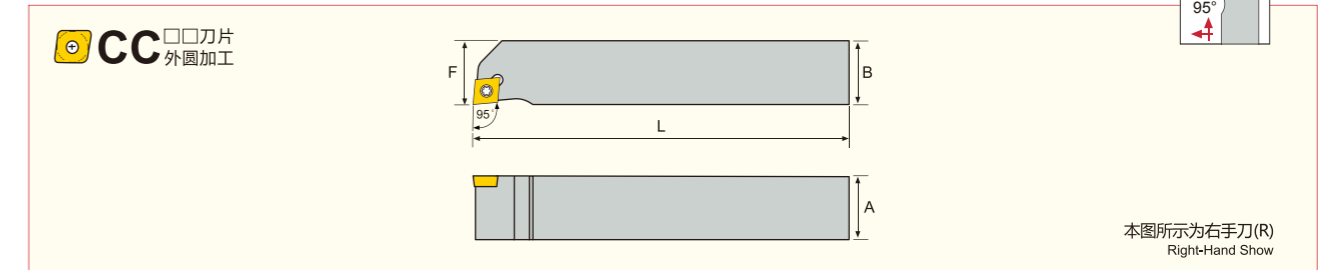
Spare Parts



规格型号 Designation	螺钉 Screw	扳手 Wrench
STFPR/L-2525M09-R40	CS25	T-8
STFPR/L-2525M11-R40	CS30	T-10
STFPR/L-3232P11-R40	CS30	T-10

EXTERNAL TURNING TOOL FOR SWISS TYPE MACHINE TOOL 走心式外圆车削刀具

SCLC-N 95°



本图所示为右手刀(R)
Right-Hand Show

规格型号 Designation	尺寸 Dimensions(mm)				刀片 Insert	在庫 Stock	
	A	B	L	F		R	L
SCLCR/L-0808K06N	8	8	125	8	CC..0602..	●	●
SCLCR/L-1010K06N	10	10	125	10	CC..0602..	●	●
SCLCR/L-1212K09N	12	12	125	12	CC..09T3..	●	●
SCLCR/L-1616K09N	16	16	125	16	CC..09T3..	●	●

- 订货示例: 1 件 SCLCR/L-0808K06N
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC SCLCR/L-0808K06N
- Insert should be ordered separately, please see page [F105-F114](#)

备件

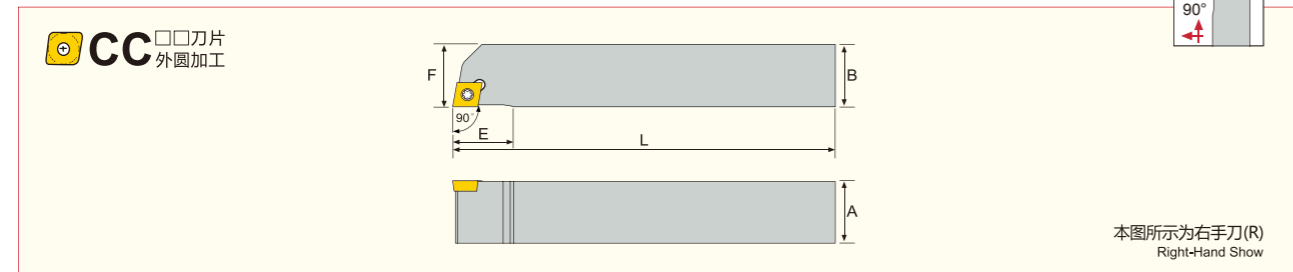
Spare Parts



规格型号 Designation	螺钉 Screw	扳手 Wrench
SCLCR/L-0808K06N	CS25	T-8
SCLCR/L-1010K06N	CS25	T-8
SCLCR/L-1212K09N	CS35	T-15
SCLCR/L-1616K09N	CS35	T-15

EXTERNAL TURNING TOOL FOR SWISS TYPE MACHINE TOOL 走心式外圆车削刀具

SCAC-N 90°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock	
	A	B	L	E	F		R	L
SCACR/L-0808K06N	8	8	125	14	8	CC..0602..	●	●
SCACR/L-1010K06N	10	10	125	10	10	CC..0602..	●	●
SCACR/L-1212K09N	12	12	125	13	12	CC..09T3..	●	●

- 订货示例: 1 件 SCACR/L-0808K06N
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC SCACR/L-0808K06N
- Insert should be ordered separately, please see page [F105-F114](#)

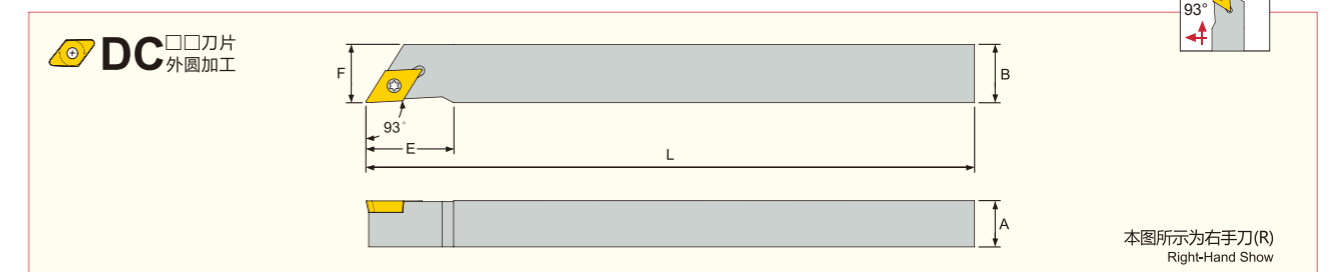
备件

Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
SCACR/L-0808K06N	CS25	T-8
SCACR/L-1010K06N	CS25	T-8
SCACR/L-1212K09N	CS35	T-15

EXTERNAL TURNING TOOL FOR SWISS TYPE MACHINE TOOL 走心式外圆车削刀具

SDJC-N 93°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock	
	A	B	L	E	F		R	L
SDJCR/L-1010K07N	10	10	125	14	10	DC..0702..	●	●
SDJCR/L-1212K07N	12	12	125	18	12	DC..0702..	●	●
SDJCR/L-1212K11N	12	12	125	18	12	DC..11T3..	●	●
SDJCR/L-1616K11N	16	16	125	30	16	DC..11T3..	●	●

- 订货示例: 1 件 SDJCR/L-1010K07N
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC SDJCR/L-1010K07N
- Insert should be ordered separately, please see page [F105-F114](#)

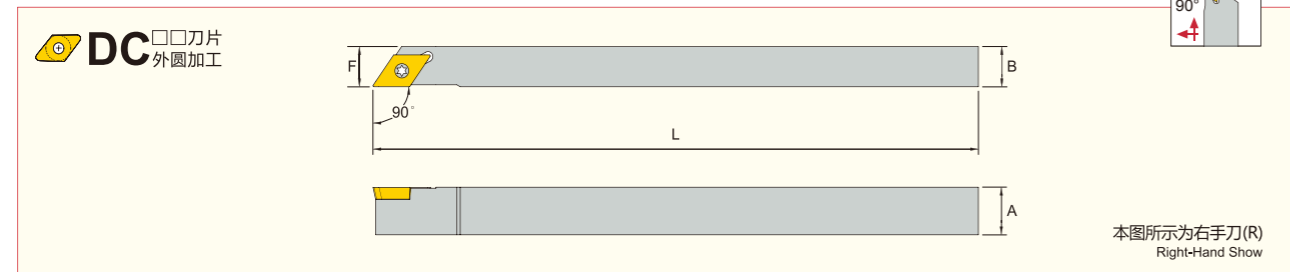
备件

Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
SDJCR/L-1010K07N	CS25	T-8
SDJCR/L-1212K07N	CS25	T-8
SDJCR/L-1212K11N	CS35	T-15
SDJCR/L-1616K11N	CS35	T-15

EXTERNAL TURNING TOOL FOR SWISS TYPE MACHINE TOOL 走心式外圆车削刀具

SDAC-N 90°



规格型号 Designation	尺寸 Dimensions(mm)				刀片 Insert	在庫 Stock	
	A	B	L	F		R	L
SDACR/L-0808K07N	8	8	125	8	DC..0702..	●	●
SDACR/L-1010K07N	10	10	125	10	DC..0702..	●	●
SDACR/L-1212K07N	12	12	125	12	DC..0702..	●	●
SDACR/L-1212K11N	12	12	125	12	DC..11T3..	●	●
SDACR/L-1616K11N	16	16	125	16	DC..11T3..	●	●

- 订货示例: 1 件 SDACR/L-0808K07N
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC SDACR/L-0808K07N
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts



规格型号 Designation	螺钉 Screw	扳手 Wrench
SDACR/L-0808K07N	CS25	T-8
SDACR/L-1010K07N	CS25	T-8
SDACR/L-1212K07N	CS25	T-8
SDACR/L-1212K11N	CS35	T-15
SDACR/L-1616K11N	CS35	T-15

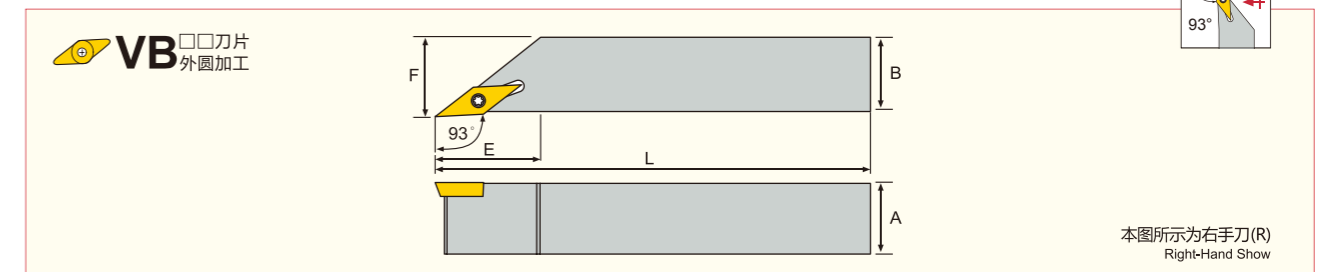
● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL FOR SWISS TYPE MACHINE TOOL 走心式外圆车削刀具

SVJB-N 93°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock	
	A	B	L	E	F		R	L
SVJBR/L-1010K11N	10	10	125	18	10	VB..1103..	●	●
SVJBR/L-1212K11N	12	12	125	18	12	VB..1103..	●	●
SVJBR/L-1616K11N	16	16	125	30	16	VB..1103..	●	●
SVJBR/L-1616K16N	16	16	125	30	16	VB..1604..	●	●

- 订货示例: 1 件 SVJBR/L-1010K11N
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC SVJBR/L-1010K11N
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts



规格型号 Designation	螺钉 Screw	扳手 Wrench
SVJBR/L-1010K11N	CS25	T-8
SVJBR/L-1212K11N	CS25	T-8
SVJBR/L-1616K11N	CS25	T-8
SVJBR/L-1616K16N	CS35	T-15

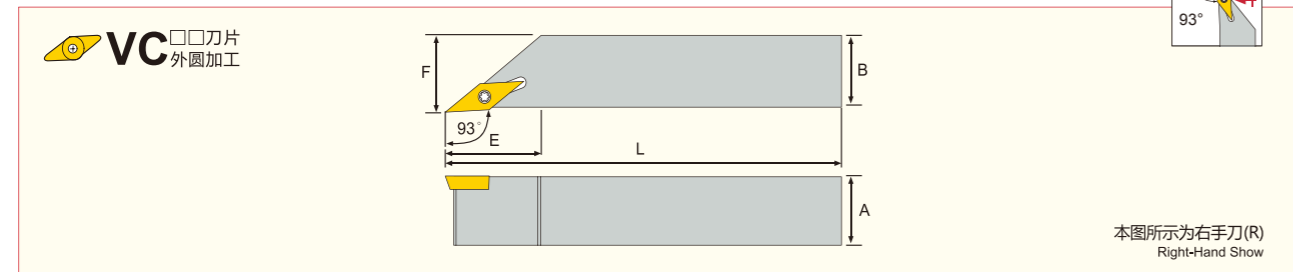
● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL FOR SWISS TYPE MACHINE TOOL 走心式外圆车削刀具

SVJC-N 93°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在库 Stock	
	A	B	L	E	F		R	L
SVJCR/L-1010K11N	10	10	125	18	10	VC..1103..	●	●
SVJCR/L-1212K11N	12	12	125	18	12	VC..1103..	●	●
SVJCR/L-1616K11N	16	16	125	30	16	VC..1103..	●	●
SVJCR/L-1616K16N	16	16	125	30	16	VC..1604..	●	●
SVJCR/L-2020K16N	20	20	125	30	25	VC..1604..	●	●

- 订货示例: 1 件 SVJCR/L-1010K11N
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC SVJCR/L-1010K11N
- Insert should be ordered separately, please see page [F105-F114](#)

备件

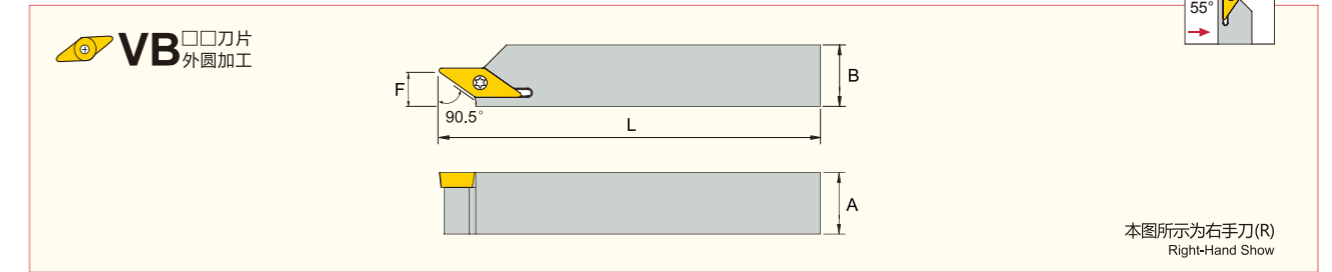
Spare Parts



规格型号 Designation	螺钉 Screw	扳手 Wrench
SVJCR/L-1010K11N	CS25	T-8
SVJCR/L-1212K11N	CS25	T-8
SVJCR/L-1616K11N	CS25	T-8
SVJCR/L-1616K16N	CS35	T-15
SVJCR/L-2020K16N	CS35	T-15

EXTERNAL TURNING TOOL FOR SWISS TYPE MACHINE TOOL 走心式外圆车削刀具

SVKB-N 55°



规格型号 Designation	尺寸 Dimensions(mm)				刀片 Insert	在库 Stock	
	A	B	L	F		R	L
SVKBR/L-1212K11	12	12	125	9	VB..1103..	●	●
SVKBR/L-1616K11	16	16	125	9	VB..1103..	●	●

- 订货示例: 1 件 SVKBR/L-1212K11
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC SVKBR/L-1212K11
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts



规格型号 Designation	螺钉 Screw	扳手 Wrench
SVKBR/L-1212K11	CS25	T-8
SVKBR/L-1616K11	CS25	T-8

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

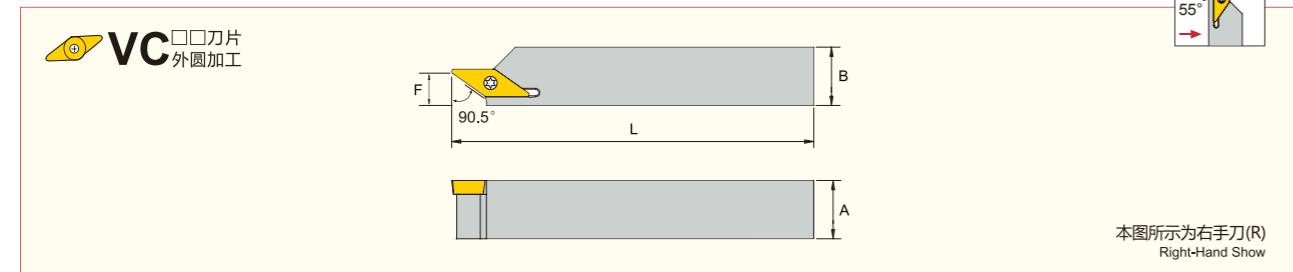
● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL FOR SWISS TYPE MACHINE TOOL 走心式外圆车削刀具

SVKC-N 55°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock	
	A	B	L	E	F		R	L
SVKCR/L-1212K11	12	12	125	15	9	VC..1103..	•	•
SVKCR/L-1616K11	16	16	125	15	9	VC..1103..	•	•

- 订货示例: 1 件 SVKCR/L-1212K11
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC SVKCR/L-1212K11
- Insert should be ordered separately, please see page F105-F114

备件

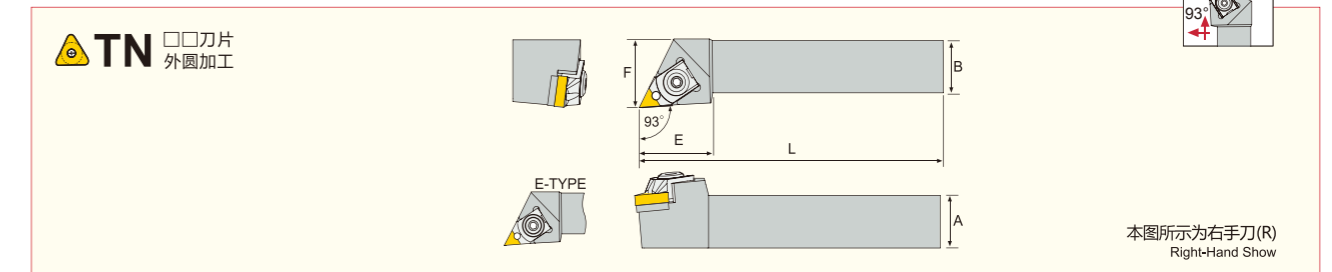
Spare Parts



规格型号 Designation	螺钉 Screw	扳手 Wrench
SVKCR/L-1212K11	CS25	T-8
SVKCR/L-1616K11	CS25	T-8

EXTERNAL TURNING TOOL FOR SWISS TYPE MACHINE TOOL 走心式外圆车削刀具

ETJN 93°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock	
	A	B	L	E	F		R	L
ETJNR/L-1616K16	16	16	125	32	20	TN..1604..	•	•

- 订货示例: 1 件 ETJNR/L-1616K16
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC ETJNR/L-1616K16
- Insert should be ordered separately, please see page F105-F114

备件

Spare Parts



规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
ETJNR/L-1616K16	SMT-322	LT-4	TN16-2	CS60E	C-5	LW025 LW030

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

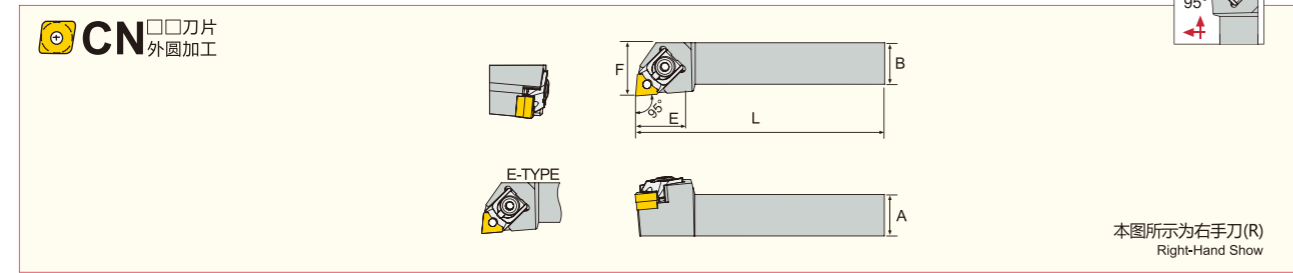
● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

ECLN 95°

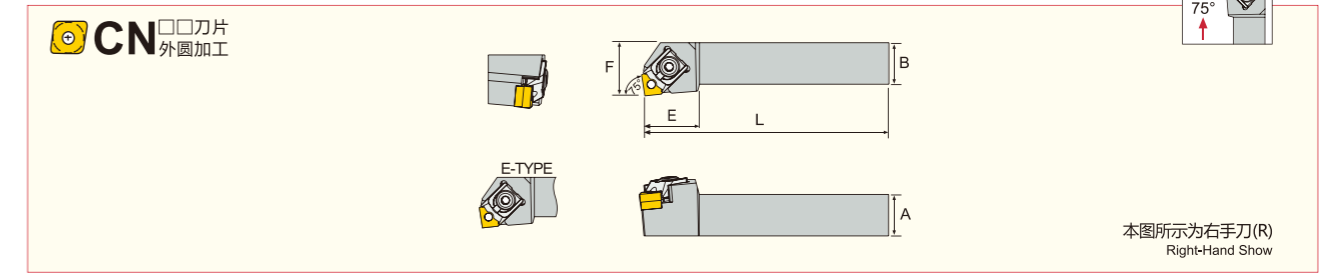


规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert ③	在庫 Stock	
	A	B	L	E	F		R	L
ECLNR/L-2020K12	20	20	125	32	25	CN..1204..	●	●
ECLNR/L-2525M12	25	25	150	32	32	CN..1204..	●	●
ECLNR/L-3232P12	32	32	170	32	40	CN..1204..	●	●
ECLNR/L-2525M16	25	25	150	44	32	CN..1606..	●	●
ECLNR/L-3232P16	32	32	170	32	40	CN..1606..	●	●

- 订货示例: 1 件 ECLNR-2020K12
- 刀片需单独订购, 请参照: ③ F105-F114 页
- Ordering sample: 1 PC ECLNR-2020K12
- Insert should be ordered separately, please see page F105-F114

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

ECKN 75°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert ④	在庫 Stock	
	A	B	L	E	F		R	L
ECKNR/L-2020K12	20	20	125	32	25	CN..1204..	●	●
ECKNR/L-2525M12	25	25	150	32	32	CN..1204..	●	●
ECKNR/L-3232P12	32	32	170	32	40	CN..1204..	●	●

- 订货示例: 1 件 ECKNR-2020K12
- 刀片需单独订购, 请参照: ④ F105-F114 页
- Ordering sample: 1 PC ECKNR-2020K12
- Insert should be ordered separately, please see page F105-F114

备件

Spare Parts

规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
ECLNR/L-2020K12	SMC-432	LW-4	CN12-2	CS80	C-6	LW030 LW040
ECLNR/L-2525M12	SMC-432	LW-4	CN12-2	CS80	C-6	LW030 LW040
ECLNR/L-3232P12	SMC-432	LW-4	CN12-2	CS80	C-6	LW030 LW040
ECLNR/L-2525M16	SMC-416	LW-5	CN12-2	CS80	C-6	LW040
ECLNR/L-3232P16	SMC-416	LW-5	CN12-2	CS80	C-6	LW040

备件

Spare Parts

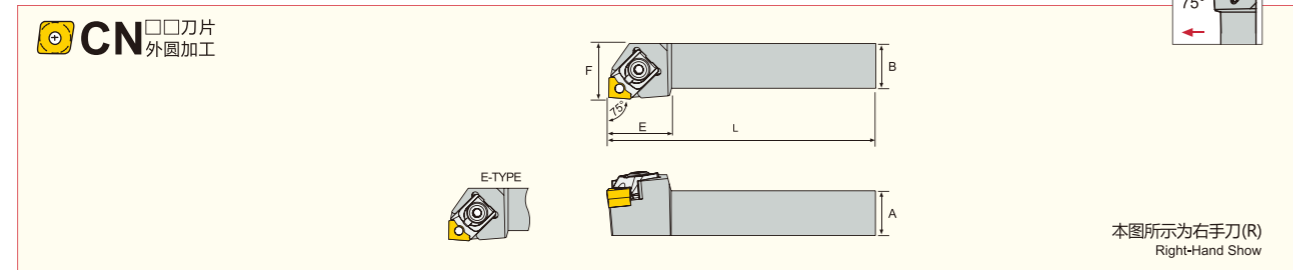
规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
ECKNR/L-2020K12	SMC-432	LW-4	CN12-4	CS80	C-6	LW030 LW040
ECKNR/L-2525M12	SMC-432	LW-4	CN12-4	CS80	C-6	LW030 LW040
ECKNR/L-3232P12	SMC-432	LW-4	CN12-4	CS80	C-6	LW030 LW040

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

ECRN 75°

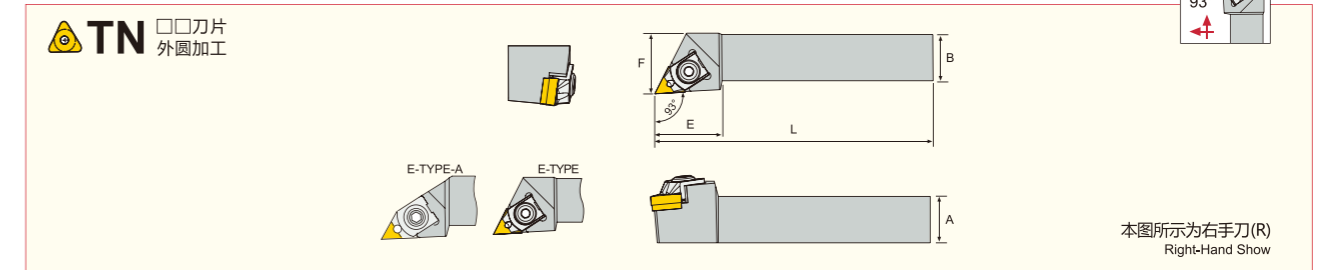


规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock	
	A	B	L	E	F		R	L
ECRNR/L-2020K12	20	20	125	32	25	CN..1204..	●	●
ECRNR/L-2525M12	25	25	150	32	32	CN..1204..	●	●
ECRNR/L-3232P12	32	32	170	32	40	CN..1204..	●	●

- 订货示例: 1 件 ECRNR-2020K12
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC ECRNR-2020K12
- Insert should be ordered separately, please see page [F105-F114](#)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

ETJN 93°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock	
	A	B	L	E	F		R	L
ETJNR/L-1616K16	16	16	125	32	20	TN..1604..	●	●
ETJNR/L-2020K16	20	20	125	32	25	TN..1604..	●	●
ETJNR/L-2525M16	25	25	125	32	32	TN..1604..	●	●
ETJNR/L-3232P16	32	32	170	32	40	TN..1604..	●	●
ETJNR/L-2020K16A	20	20	125	32	25	TN..1604..	●	●
ETJNR/L-2525M16A	25	25	150	32	32	TN..1604..	●	●
ETJNR/L-3232P16A	32	32	170	32	40	TN..1604..	●	●

- 订货示例: 1 件 ETJNR-1616K16
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC ETJNR-1616K16
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
ECRNR/L-2020K12	SMC-432	LW-4	CN12-4	CS80	C-6	LW030 LW040
ECRNR/L-2525M12	SMC-432	LW-4	CN12-4	CS80	C-6	LW030 LW040
ECRNR/L-3232P12	SMC-432	LW-4	CN12-4	CS80	C-6	LW030 LW040

备件

Spare Parts

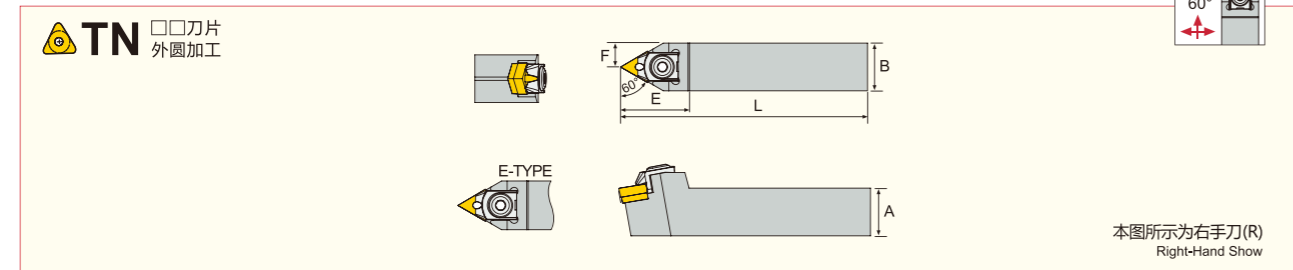
规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
ETJNR/L-1616K16	SMT-322	LT-4	TN16-2	CS60E	C-5	LW025 LW030
ETJNR/L-2020K16	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040
ETJNR/L-2525M16	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040
ETJNR/L-3232P16	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040
ETJNR/L-2020K16A	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040
ETJNR/L-2525M16A	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040
ETJNR/L-3232P16A	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

ETEN 60°



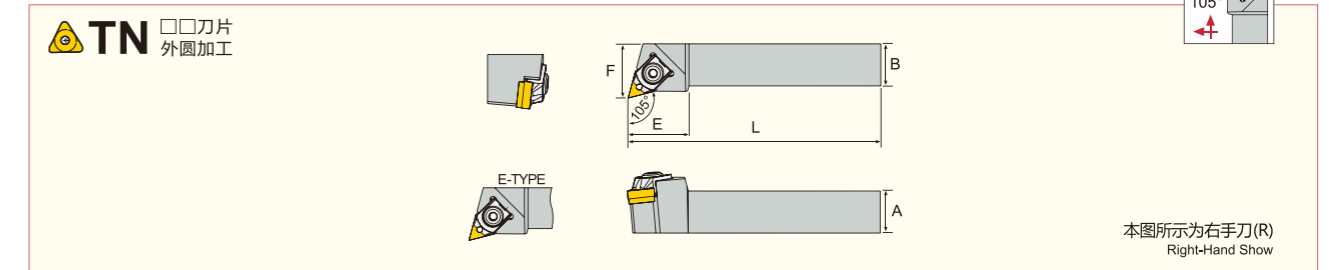
本图所示为右手刀(R)
Right-Hand Show

规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert △	在库 Stock	
	A	B	L	E	F		R	L
ETENN-2020K16	20	20	125	32	10	TN..1604..	●	
ETENN-2525M16	25	25	150	42	12.5	TN..1604..	●	

- 订货示例: 1 件 ETENN-2020K16
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC ETENN-2020K16
- Insert should be ordered separately, please see page [F105-F114](#)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

ETQN 105°



本图所示为右手刀(R)
Right-Hand Show

规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert △	在库 Stock	
	A	B	L	E	F		R	L
ETQNR/L-2020K16	20	20	125	32	25	TN..1604..	●	●
ETQNR/L-2525M16	25	25	150	32	32	TN..1604..	●	●
ETQNR/L-3232P16	32	32	170	32	40	TN..1604..	●	●

- 订货示例: 1 件 ETQNR-2020K16
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC ETQNR-2020K16
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts



规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
ETENN-2020K16	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040
ETENN-2525M16	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040

备件

Spare Parts



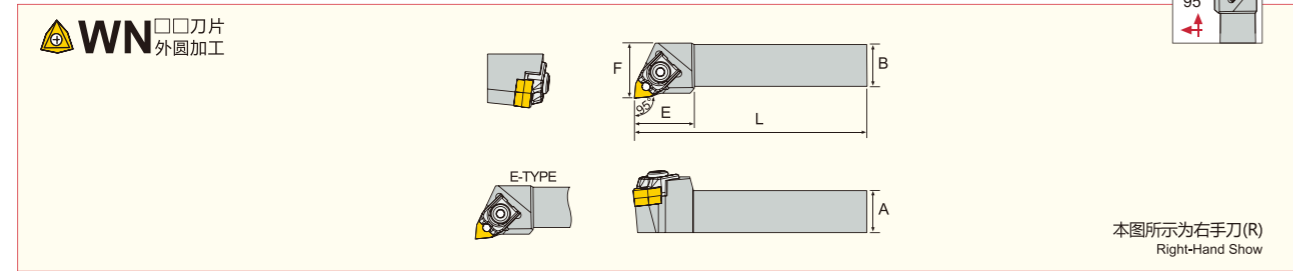
规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
ETQNR/L-2020K16	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040
ETQNR/L-2525M16	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040
ETQNR/L-3232P16	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

EWLN 95°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock	
	A	B	L	E	F		R	L
EWLNR/L-2020K06	20	20	125	32	25	WN..0604..	●	●
EWLNR/L-2525M06	25	25	150	32	32	WN..0604..	●	●
EWLNR/L-2020K08	20	20	125	32	25	WN..0804..	●	●
EWLNR/L-2525M08	25	25	150	32	32	WN..0804..	●	●
EWLNR/L-3232P08	32	32	170	32	40	WN..0804..	●	●

- 订货示例: 1 件 EWLNR-2020K06
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC EWLNR-2020K06
- Insert should be ordered separately, please see page [F105-F114](#)

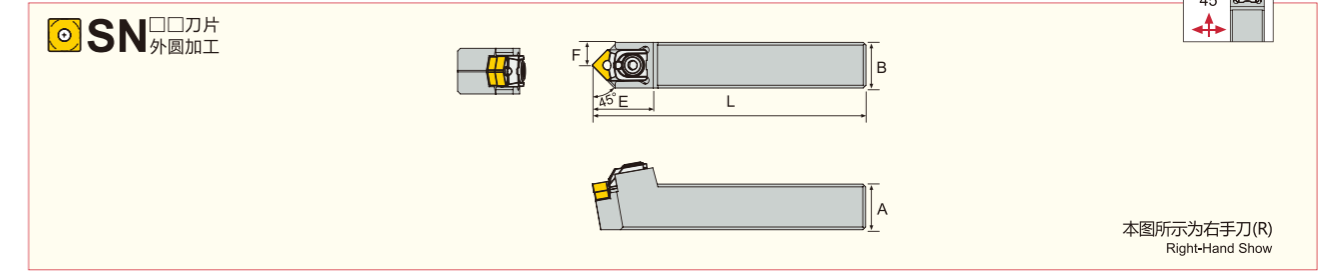
备件

Spare Parts

规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
EWLNR/L-2020K06	SMW-406	LT-3	WN06-2	CS60E	C-5	LW025 LW030
EWLNR/L-2525M06	SMW-406	LT-3	WN06-2	CS60E	C-5	LW025 LW030
EWLNR/L-2020K08	SMW-422	LW-4	WN08-4	CS80	C-6	LW030 LW040
EWLNR/L-2525M08	SMW-422	LW-4	WN08-4	CS80	C-6	LW030 LW040
EWLNR/L-3232P08	SMW-422	LW-4	WN08-4	CS80	C-6	LW030 LW040

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

ESDN 45°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock
	A	B	L	E	F		
ESDNN-2020K12	20	20	125	48	10	SN..1204..	●
ESDNN-2525M12	25	25	150	48	12.5	SN..1204..	●
ESDNN-3232P12	32	32	170	48	16	SN..1204..	●

- 订货示例: 1 件 ESDNN-2020K12
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC ESDNN-2020K12
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

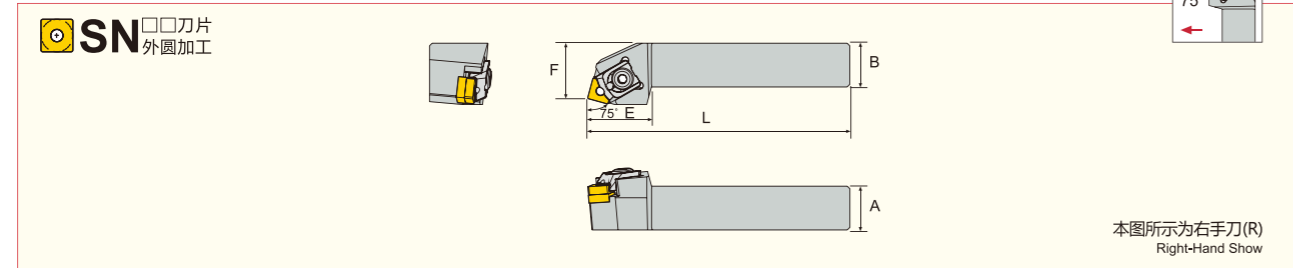
规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
ESDNN-2020K12	SMS-432	LW-4	SN12	CS80	C-6	LW030 LW040
ESDNN-2525M12	SMS-432	LW-4	SN12	CS80	C-6	LW030 LW040
ESDNN-3232P12	SMS-432	LW-4	SN12	CS80	C-6	LW030 LW040

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

ESBN 75°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock	
	A	B	L	E	F		R	L
ESBNR/L-2020K12	20	20	125	32	25	SN..1204..	●	●
ESBNR/L-2525M12	25	25	150	32	32	SN..1204..	●	●
ESBNR/L-3232P12	32	32	170	32	40	SN..1204..	●	●

- 订货示例: 1 件 ESBNR-2020K12
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC ESBNR-2020K12
- Insert should be ordered separately, please see page [F105-F114](#)

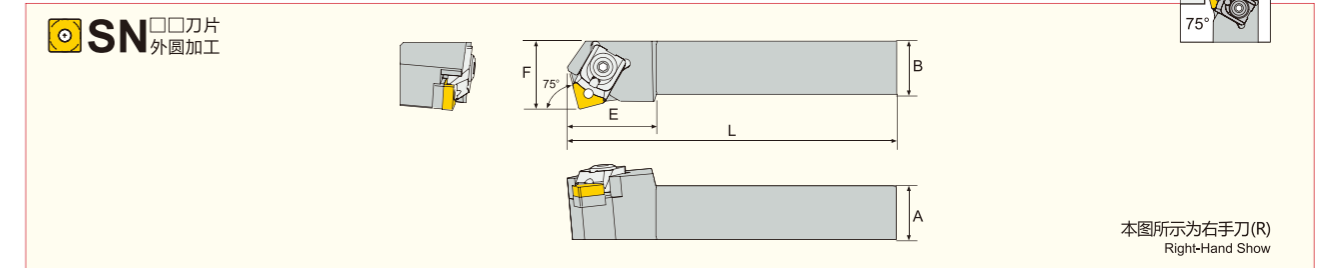
备件

Spare Parts

规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
ESBNR/L-2020K12	SMS-432	LW-4	SN12	CS80	C-6	LW030 LW040
ESBNR/L-2525M12	SMS-432	LW-4	SN12	CS80	C-6	LW030 LW040
ESBNR/L-3232P12	SMS-432	LW-4	SN12	CS80	C-6	LW030 LW040

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

ESKN 75°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock	
	A	B	L	E	F		R	L
ESKNR/L-2020K12	20	20	125	32	25	SN..1204..	●	●
ESKNR/L-2525M12	25	25	150	32	32	SN..1204..	●	●
ESKNR/L-3232P12	32	32	170	32	40	SN..1204..	●	●

- 订货示例: 1 件 ESKNR/L-2020K12
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC ESKNR/L-2020K12
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

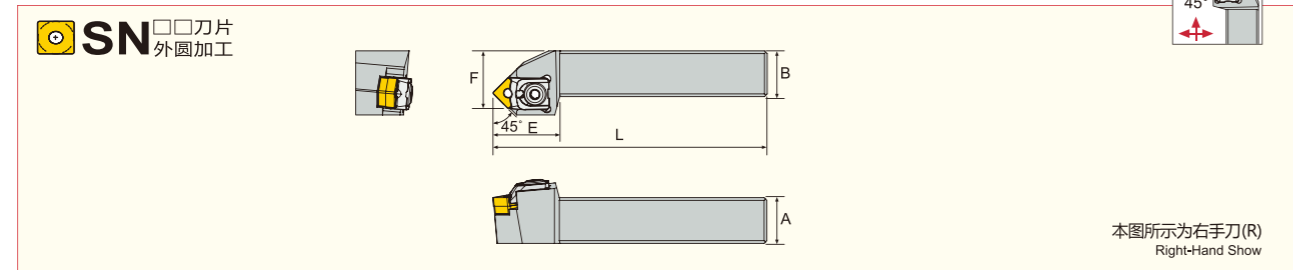
规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
ESKNR/L-2020K12	SMS-432	LW-4	SN12	CS80	C-6	LW030 LW040
ESKNR/L-2525M12	SMS-432	LW-4	SN12	CS80	C-6	LW030 LW040
ESKNR/L-3232P12	SMS-432	LW-4	SN12	CS80	C-6	LW030 LW040

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

ESSN 45°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert ☉	在庫 Stock	
	A	B	L	E	F		R	L
ESSNR/L-2020K12	20	20	125	32	25	SN..1204..	●	●
ESSNR/L-2525M12	25	25	150	32	32	SN..1204..	●	●
ESSNR/L-3232P12	32	32	170	32	40	SN..1204..	●	●

- 订货示例: 1 件 ESSNR-2020K12
- 刀片需单独订购, 请参照: ☉ F105-F114 页
- Ordering sample: 1 PC ESSNR-2020K12
- Insert siKlud be ordered separately, please see page F105-F114

备件

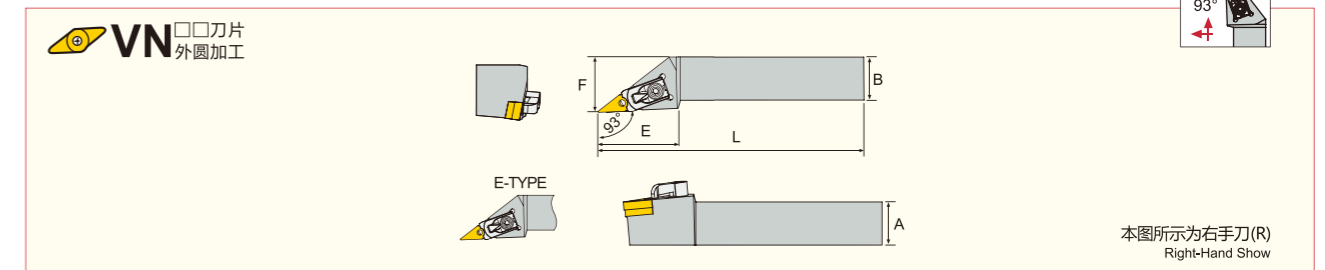
Spare Parts



规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
ESSNR/L-2020K12	SMS-432	LW-4	SN12	CS80	C-6	LW030 LW040
ESSNR/L-2525M12	SMS-432	LW-4	SN12	CS80	C-6	LW030 LW040
ESSNR/L-3232P12	SMS-432	LW-4	SN12	CS80	C-6	LW030 LW040

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

EVJN 93°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert ☉	在庫 Stock	
	A	B	L	E	F		R	L
EVJNR/L-2020K12	20	20	125	44	25	VN..12T3..	●	●
EVJNR/L-2525M12	25	25	150	44	32	VN..12T3..	●	●
EVJNR/L-2020K16	20	20	125	44	25	VN..1604..	●	●
EVJNR/L-2525M16	25	25	150	44	32	VN..1604..	●	●
EVJNR/L-3232P16	32	32	170	47	40	VN..1604..	●	●

- 订货示例: 1 件 EVJNR-2020K12
- 刀片需单独订购, 请参照: ☉ F105-F114 页
- Ordering sample: 1 PC EVJNR-2020K12
- Insert should be ordered separately, please see page F105-F114

备件

Spare Parts



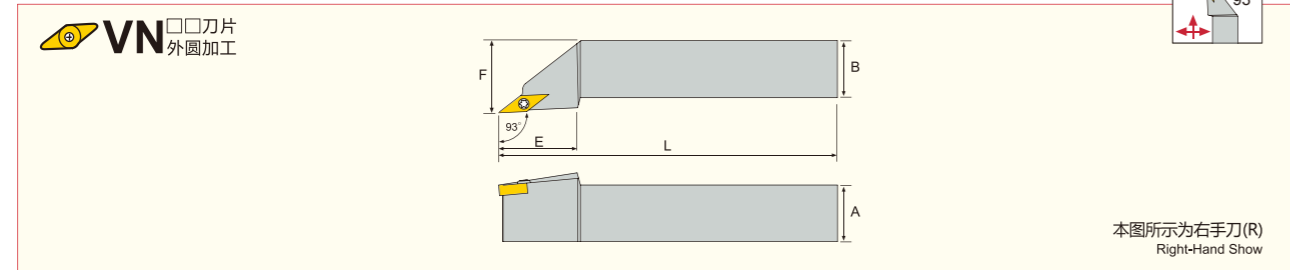
规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
EVJNR/L-2020K12	-	LT-1	VN12	CS60E	C-5	LW025 LW030
EVJNR/L-2525M12	-	LT-1	VN12	CS60E	C-5	LW025 LW030
EVJNR/L-2020K16	SMV-322	LW-3	VN16	CS60E	C-5	LW025 LW030
EVJNR/L-2525M16	SMV-322	LW-3	VN16	CS60E	C-5	LW025 LW030
EVJNR/L-3232P16	SMV-322	LW-3	VN16	CS60E	C-5	LW025 LW030

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

SVJN 93°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock	
	A	B	L	E	F		R	L
SVJNR/L-2020K12	20	20	125	37	25	VN..12T3..	●	●
SVJNR/L-2525M12	25	25	150	37	32	VN..12T3..	●	●

- 订货示例: 1 件 SVJNR-2020K12
- 刀片需单独订购, 请参照: F105-F114 页
- Ordering sample: 1 PC SVJNR-2020K12
- Insert should be ordered separately, please see page F105-F114

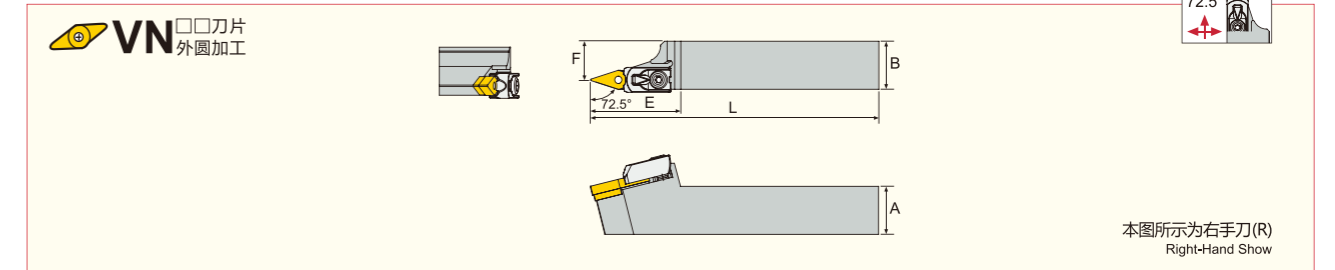
备件

Spare Parts

规格型号 Designation	螺钉 Screw	扳手 wrench
SVJNR/L-2020K12	CS30	T-10
SVJNR/L-2525M12	CS30	T-10

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

EVVN 72.5°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock	
	A	B	L	E	F		R	L
EVVNR/L-2020K16	20	20	125	48	25	VN..1604..	●	●
EVVNR/L-2525M16	25	25	150	48	32	VN..1604..	●	●

- 订货示例: 1 件 EVVNR/L-2020K12
- 刀片需单独订购, 请参照: F105-F114 页
- Ordering sample: 1 PC EVVNR/L-2020K12
- Insert should be ordered separately, please see page F105-F114

备件

Spare Parts

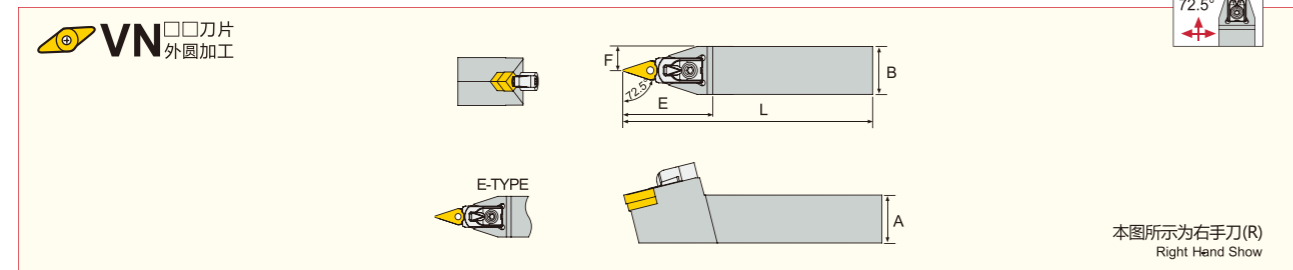
规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
EVVNR-2020K16	SMV-322	LT-3	VN16	CS60E	C-5	LW025 LW030
EVVNR-2525M16	SMV-322	LT-3	VN16	CS60E	C-5	LW025 LW030

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

EVVN 72.5°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在库 Stock	
	A	B	L	E	F		R	L
EVVNN-2020K16	20	20	125	48	10	VN..1604..	●	
EVVNN-2525M16	25	25	150	48	12.5	VN..1604..	●	
EVVNN-3232P16	32	32	170	48	16	VN..1604..	●	

- 订货示例: 1 件 EVVNN-2020K16
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC EVVNN-2020K16
- Insert should be ordered separately, please see page [F105-F114](#)

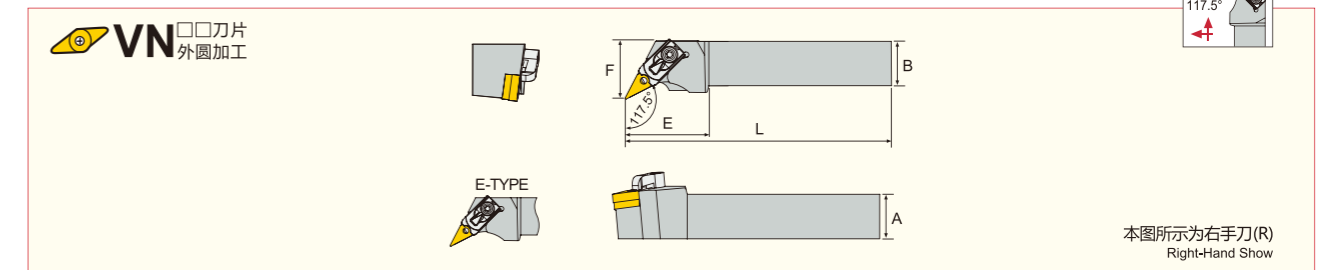
备件

Spare Parts

规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
EVVNN-2020K16	SMV-322	LT-3	VN16	CS60E	C-5	LW025 LW030
EVVNN-2525M16	SMV-322	LT-3	VN16	CS60E	C-5	LW025 LW030
EVVNN-3232P16	SMV-322	LT-3	VN16	CS60E	C-5	LW025 LW030

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

EVQN 117.5°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在库 Stock	
	A	B	L	E	F		R	L
EVQNR/L-2525M16	25	25	150	44	32	VN..1604..	●	●
EVQNR/L-3232P16	32	32	170	44	40	VN..1604..	●	●

- 订货示例: 1 件 EVQNR-2525M16
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC EVQNR-2525M16
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
EVQNR/L-2525M16	SMV-322	LT-3	VN16	CS60E	C-5	LW025 LW030
EVQNR/L-3232P16	SMV-322	LT-3	VN16	CS60E	C-5	LW025 LW030

● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

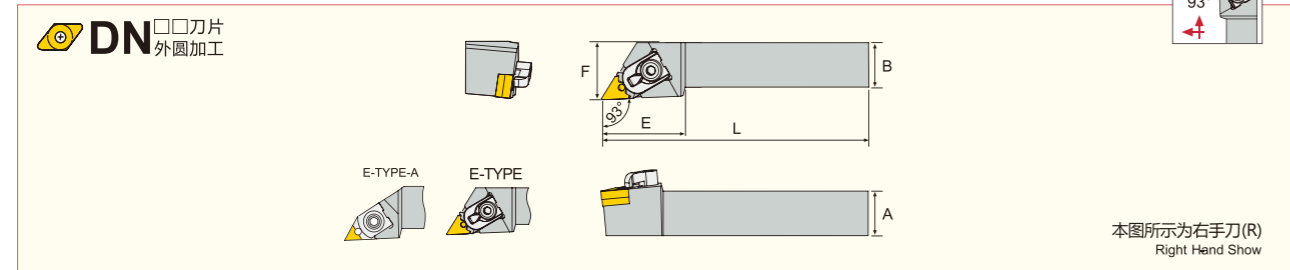
● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

EDJN 93°

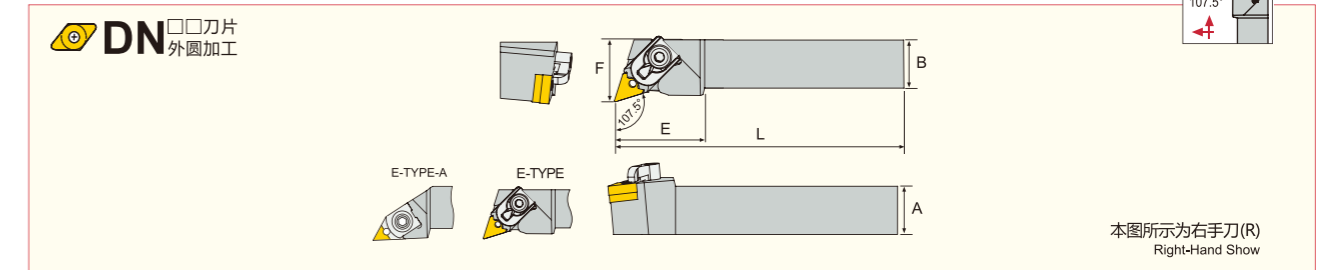


规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在库 Stock	
	A	B	L	E	F		R	L
EDJNR/L-2020K11	20	20	125	36	25	DN..1104..	●	●
EDJNR/L-2525M11	25	25	150	36	32	DN..1104..	●	●
EDJNR/L-2020K15	20	20	125	44	25	DN..1504..	●	●
EDJNR/L-2525M15	25	25	150	44	32	DN..1504..	●	●
EDJNR/L-3232P15	32	32	170	44	40	DN..1504..	●	●
EDJNR/L-2020K15A	20	20	125	44	25	DN..1506..	●	●
EDJNR/L-2525M15A	25	25	150	44	32	DN..1506..	●	●
EDJNR/L-3232P15A	32	32	170	44	40	DN..1506..	●	●

- 订货示例: 1 件 EDJNR-2020K11
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC EDJNR-2020K11
- Insert should be ordered separately, please see page [F105-F114](#)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

EDQN 107.5°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在库 Stock	
	A	B	L	E	F		R	L
EDQNR/L-2020K11	20	20	125	36	25	DN..1104..	●	●
EDQNR/L-2525M11	25	25	150	36	32	DN..1104..	●	●
EDQNR/L-2525M15	25	25	150	44	32	DN..1504..	●	●
EDQNR/L-3232P15	32	32	170	44	40	DN..1504..	●	●
EDQNR/L-2525M15A	25	25	150	44	32	DN..1506..	●	●
EDQNR/L-3232P15A	32	32	170	36	40	DN..1506..	●	●

- 订货示例: 1 件 EDQNR/L-2020K11
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC EDQNR/L-2020K11
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
EDJNR/L-2020K11	SMD-363	LT-3	DN11	CS60E	C-5	LW025 LW030
EDJNR/L-2525M11	SMD-363	LT-3	DN11	CS60E	C-5	LW025 LW030
EDJNR/L-2020K15	SMD-463	LD-1	DN15	CS80	C-6	LW025 LW040
EDJNR/L-2525M15	SMD-463	LD-1	DN15	CS80	C-6	LW025 LW040
EDJNR/L-3232P15	SMD-463	LD-1	DN15	CS80	C-6	LW025 LW040
EDJNR/L-2020K15A	SMD-466	LW-4	DN15	CS80	C-6	LW025 LW040
EDJNR/L-2525M15A	SMD-466	LW-4	DN15	CS80	C-6	LW025 LW040
EDJNR/L-3232P15A	SMD-466	LW-4	DN15	CS80	C-6	LW025 LW040

备件

Spare Parts

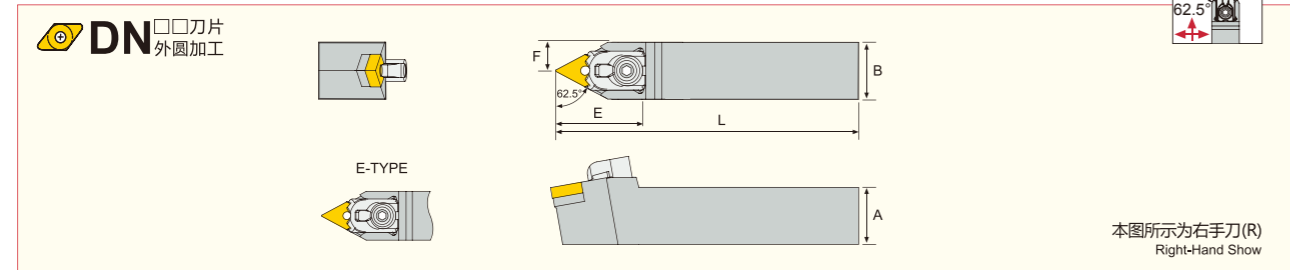
规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
EDQNR/L-2020K11	SMD-363	LT-3	DN11	CS60E	C-5	LW025 LW030
EDQNR/L-2525M11	SMD-363	LT-3	DN11	CS60E	C-5	LW025 LW030
EDQNR/L-2525M15	SMD-463	LD-1	DN15	CS80	C-6	LW030 LW040
EDQNR/L-3232P15	SMD-463	LD-1	DN15	CS80	C-6	LW030 LW040
EDQNR/L-2525M15A	SMD-466	LW-4	DN15	CS80	C-6	LW030 LW040
EDQNR/L-3232P15A	SMD-466	LW-4	DN15	CS80	C-6	LW030 LW040

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL TURNING TOOL SERIES 外圆车削刀具

EDNN 62.5°



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock	
	A	B	L	E	F		R	L
EDNNN-2020K15	20	20	125	48	10	DN..1504..	•	•
EDNNN-2525M15	25	25	150	48	12.5	DN..1504..	•	•
EDNNN-3232P15	32	32	170	48	16	DN..1504..	•	•
EDNNN-2020K15A	20	20	125	48	10	DN..1506..	•	•
EDNNN-2525M15A	25	25	150	48	12.5	DN..1506..	•	•
EDNNN-3232P15A	32	32	170	48	16	DN..1506..	•	•

- 订货示例: 1 件 EDNNN-2020K15
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC EDNNN-2020K15
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

规格型号 Designation	垫片 Shim	中心销 Screw of shim	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
EDNNN-2020K15	SMD-463	LD-1	DN15	CS80	C-6	LW030 LW040
EDNNN-2525M15	SMD-463	LD-1	DN15	CS80	C-6	LW030 LW040
EDNNN-3232P15	SMD-463	LD-1	DN15	CS80	C-6	LW030 LW040
EDNNN-2020K15A	SMD-466	LW-4	DN15	CS80	C-6	LW030 LW040
EDNNN-2525M15A	SMD-466	LW-4	DN15	CS80	C-6	LW030 LW040
EDNNN-3232P15A	SMD-466	LW-4	DN15	CS80	C-6	LW030 LW040

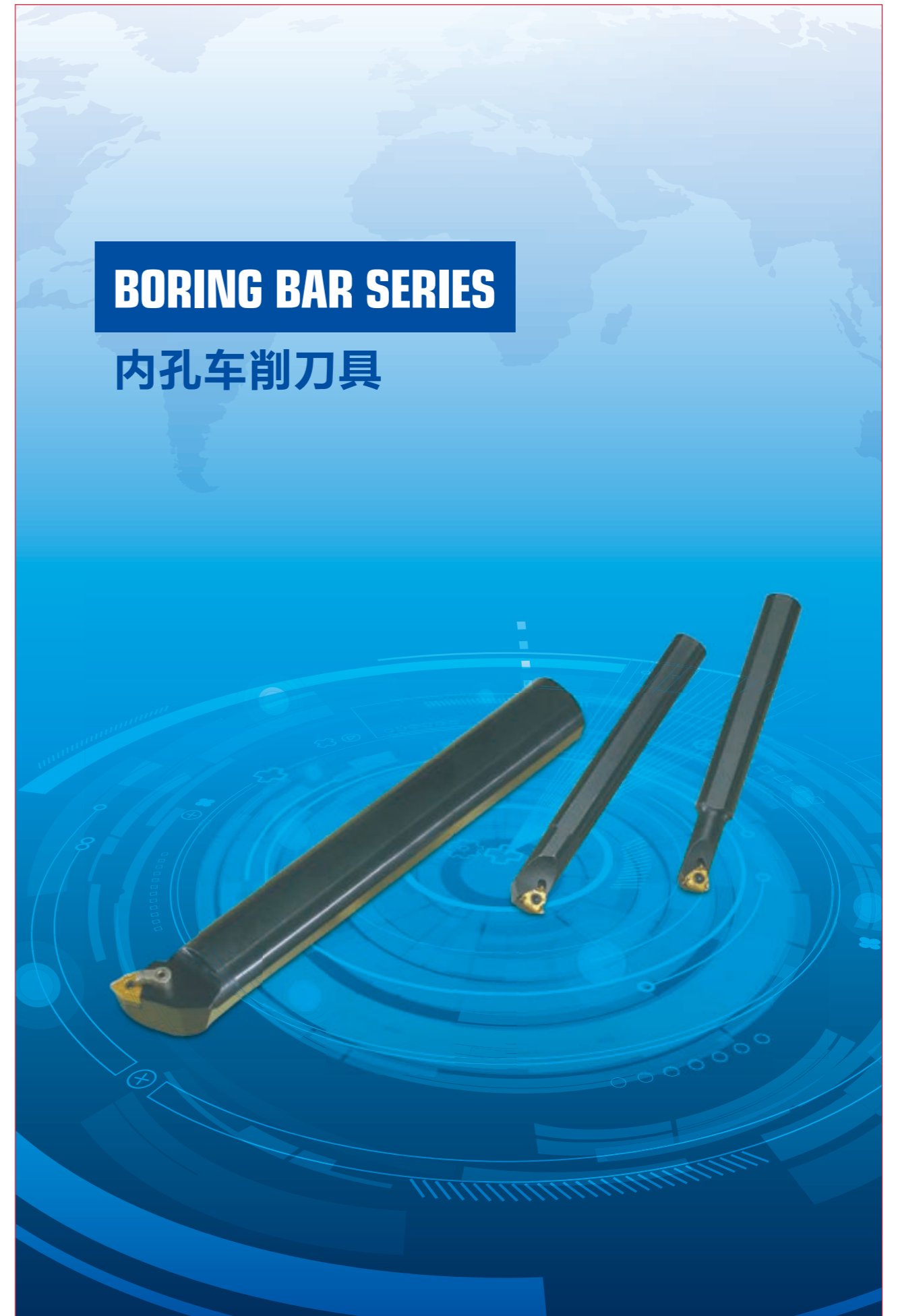
● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES

内孔车削刀具

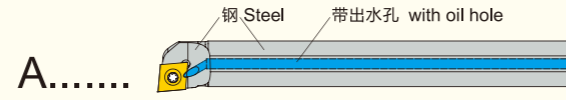


BORING BAR SERIES 内孔车削刀具

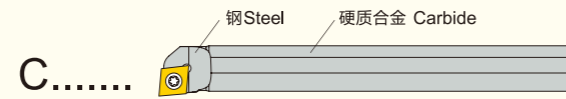
BORING BAR SERIES 内孔车削刀具

内孔刀杆 Boring bar

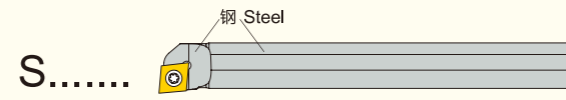
钢制刀杆 (带内冷出水)
Steel shank with coolant supply



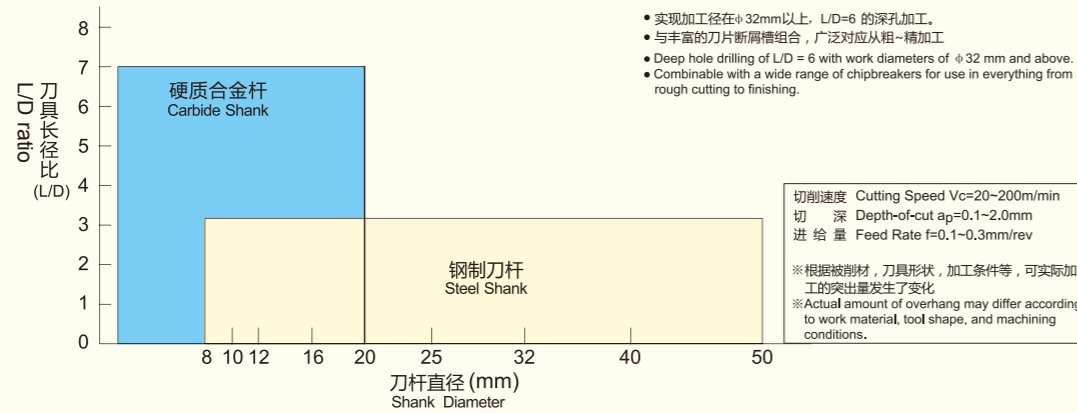
硬质合金杆
Carbide shank



钢制刀杆
Steel shank



刀杆类型选择推荐 Recommended Shank Type Selection

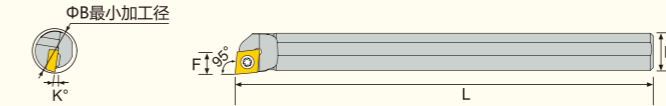


刀具材质选定 Shank Material Selection

加工方法 Application		镗刀种类 Type	钢制刀杆 Steel Shank	硬质合金刀杆 Carbide Shank
一般钢 Steel	浅孔加工 (L/D<3) Short hole		◎ (经济性) ◎ (More economical)	
	深孔加工 (L/D>3) Deep hole			◎
利用修光刀片的高效率加工 Using wiper insert for high performance machining				◎
淬火钢, 高硬度材的加工 Hardened Steel				◎
高精度加工 Precision boring				◎

SCLC 95°

CC 内圆加工



本图所示为右手刀(R)
Right-Hand Show

材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在库 Stock		
		ΦB	D	F	L	K°		R	L	
钢 Steel	S08K-SCLCR/L06-09	9	8	4.5	125	15	CC..0602..	•	•	
	S08K-SCLCR/L06-10	10	8	5.5	125	9	CC..0602..	•	•	
	S10K-SCLCR/L06-12	12	10	6	125	12	CC..0602..	•	•	
	S12M-SCLCR/L06-14	14	12	7	150	12	CC..0602..	•	•	
	S16Q-SCLCR/L06-18	18	16	9	180	7	CC..0602..	•	•	
	S12M-SCLCR/L09-14	14	12	7	150	7	CC..09T3..	•	•	
	S12M-SCLCR/L09-16	16	12	8.5	150	13	CC..09T3..	•	•	
	S14M-SCLCR/L09-16	16	14	8	150	7	CC..09T3..	•	•	
	S16Q-SCLCR/L09-18	18	16	9	180	9	CC..09T3..	•	•	
	S18Q-SCLCR/L09-20	20	18	10	180	7	CC..09T3..	•	•	
	S20R-SCLCR/L09-22	22	20	11	200	10	CC..09T3..	•	•	
	S25R-SCLCR/L09	32	25	17	200	7	CC..09T3..	•	•	
	S32S-SCLCR/L09	39	32	18	250	6	CC..09T3..	•	•	
	S40T-SCLCR/L09	42	40	22	300	4	CC..09T3..	•	•	
	S20R-SCLCR/L12-22	22	20	12	200	8	CC..1204..	•	•	
	S25R-SCLCR/L12	32	25	14	200	8	CC..1204..	•	•	
	S32S-SCLCR/L12	39	32	18	250	6	CC..1204..	•	•	
	S40T-SCLCR/L12	44	40	22	300	4	CC..1204..	•	•	
	钢 (带出水孔) Steel (with oil hole)	A08K-SCLCR/L06-10	10	8	5.5	125	9	CC..0602..	•	○
		A10K-SCLCR/L06-12	12	10	6	125	12	CC..0602..	•	○
A12M-SCLCR/L06-14		14	12	7	150	12	CC..0602..	•	○	
A16Q-SCLCR/L09-18		18	16	9	180	9	CC..09T3..	•	○	
A20R-SCLCR/L09-22		22	20	11	200	10	CC..09T3..	•	○	
硬质合金 Carbide	A25R-SCLCR/L09	32	25	17	200	7	CC..09T3..	•	○	
	C08K-SCLCR06-09	9	8	4.3	125	13	CC..0602..	•	○	
	C08K-SCLCR/L06-10	10	8	5.5	125	9	CC..0602..	•	○	
	C10M-SCLCR/L06-12	12	10	6	150	12	CC..0602..	•	○	
	C12Q-SCLCR/L06-14	14	12	7	180	12	CC..0602..	•	○	
	C12Q-SCLCR/L09-16	16	12	7	180	6	CC..09T3..	•	○	
	C16R-SCLCR/L09-18	18	16	9	200	9	CC..09T3..	•	○	
	C20S-SCLCR/L09-22	22	20	11	250	10	CC..09T3..	•	○	
	C25T-SCLCR/L09	32	25	17	300	7	CC..09T3..	•	○	

- 订货示例: 1件 S08K-SCLCR/L06-09
- 刀片需单独订购, 请参照: ㊦ F105-F114 页
- Ordering sample: 1 PC S08K-SCLCR/L06-09
- Insert should be ordered separately, please see page F105-F114

备件

Spare Parts

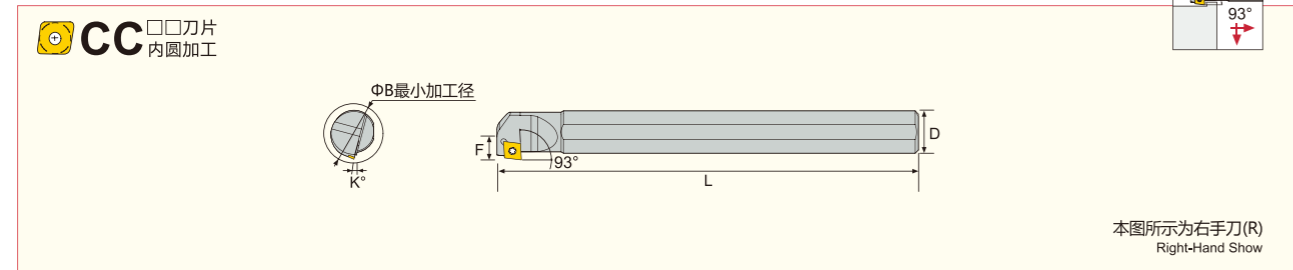
规格型号 Designation	螺钉 Screw	扳手 Wrench
S08K-SCLCR/L06-09	CS25	T-8
S08K-SCLCR/L06-10	CS25	T-8
S10K-SCLCR/L06-12	CS25	T-8
S12M-SCLCR/L06-14	CS25	T-8
S16Q-SCLCR/L06-18	CS25	T-8
S12M-SCLCR/L09-14	CS35	T-15
S12M-SCLCR/L09-16	CS35	T-15
S14M-SCLCR/L09-16	CS35	T-15
S16Q-SCLCR/L09-18	CS35	T-15
S18Q-SCLCR/L09-20	CS35	T-15
S20R-SCLCR/L09-22	CS35	T-15
S25R-SCLCR/L09	CS35	T-15
S32S-SCLCR/L09	CS35	T-15
S40T-SCLCR/L09	CS35	T-15
S20R-SCLCR/L12-22	CS45	T-15
S25R-SCLCR/L12	CS45	T-15
S32S-SCLCR/L12	CS45	T-15
S40T-SCLCR/L12	CS45	T-15

规格型号 Designation	螺钉 Screw	扳手 Wrench
A08K-SCLCR/L06-10	CS25	T-8
A10K-SCLCR/L06-12	CS25	T-8
A12M-SCLCR/L06-14	CS25	T-8
A16Q-SCLCR/L09-18	CS35	T-15
A20R-SCLCR/L09-22	CS35	T-15
A25R-SCLCR/L09	CS35	T-15
C08K-SCLCR06-09	CS25	T-8
C08K-SCLCR/L06-10	CS25	T-8
C10M-SCLCR/L06-12	CS25	T-8
C12Q-SCLCR/L06-14	CS25	T-8
C12Q-SCLCR/L09-16	CS35	T-15
C16R-SCLCR/L09-18	CS35	T-15
C20S-SCLCR/L09-22	CS35	T-15
C25T-SCLCR/L09	CS35	T-15

- 标准库存 Item in stock
- 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SCZC 93°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在庫 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S08K-SCZCR/L06	12	8	6.5	125	13	CC..0602..	●	●
	S10K-SCZCR/L06	14	10	7.5	125	12	CC..0602..	●	●
	S12M-SCZCR/L06	16	12	8.5	150	10	CC..0602..	●	●
	S16Q-SCZCR/L09	21	16	11.5	180	10	CC..09T3..	●	●
	S20R-SCZCR/L09	25	20	13.5	200	8	CC..09T3..	●	●
S25R-SCZCR/L09	32	25	16	200	6	CC..09T3..	●	●	

- 订货示例: 1 件 S08K-SCZCR06
- 刀片需单独订购, 请参照: [☞ F105-F114 页](#)
- Ordering sample: 1 PC S08K-SCZCR06
- Insert should be ordered separately, please see page [F105-F114](#)

备件

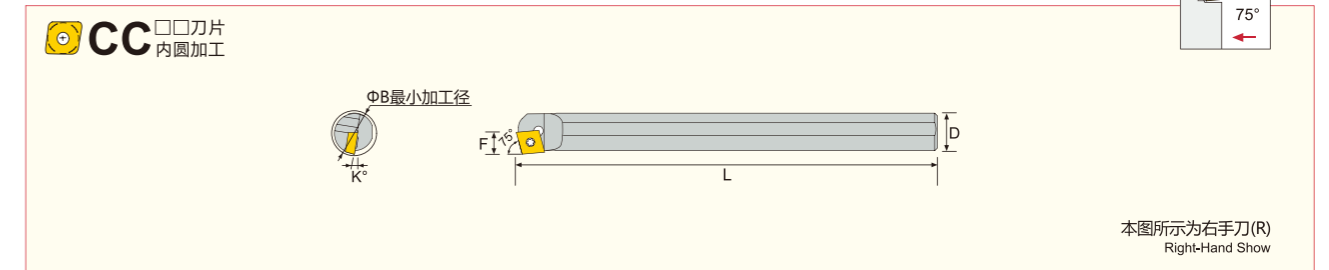
Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
S08K-SCZCR/L06	CS25	T-8
S10K-SCZCR/L06	CS25	T-8
S12M-SCZCR/L06	CS25	T-8
S16Q-SCZCR/L09	CS35	T-15
S20R-SCZCR/L09	CS35	T-15
S25R-SCZCR/L09	CS35	T-15

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SCKC 75°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在庫 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S08K-SCKCR/L06-10	10	8	5	125	15	CC..0602..	●	●
	S10K-SCKCR/L06-12	12	10	6	125	13	CC..0602..	●	●
	S12M-SCKCR/L06-14	14	12	8	150	10	CC..0602..	●	●
	S16Q-SCKCR/L06-18	18	16	10	180	7	CC..0602..	●	●
	S12M-SCKCR/L09-16	16	12	8	150	12	CC..09T3..	●	●
	S16Q-SCKCR/L09-18	18	16	9	180	7	CC..09T3..	●	●
	S20R-SCKCR/L09-22	22	20	11	200	8	CC..09T3..	●	●
	S25R-SCKCR/L09	31	25	14	200	8	CC..09T3..	●	●

- 订货示例: 1 件 S08K-SCKCR06-10
- 刀片需单独订购, 请参照: [☞ F105-F114 页](#)
- Ordering sample: 1 PC S08K-SCKCR06-10
- Insert should be ordered separately, please see page [F105-F114](#)

备件

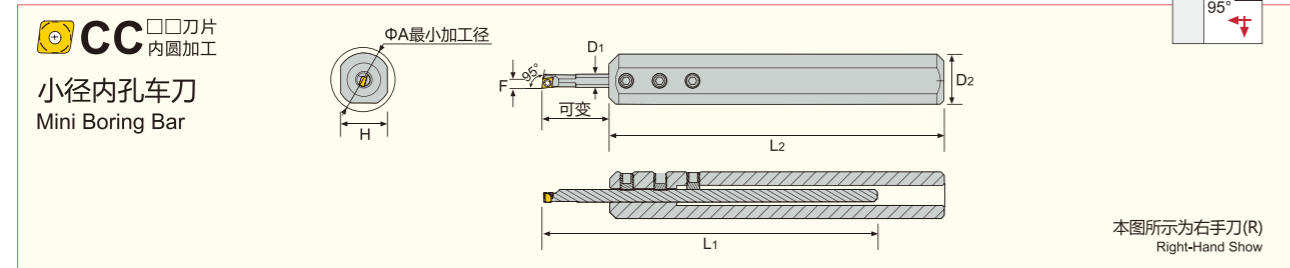
Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
S08K-SCKCR/L06-10	CS25	T-8
S10K-SCKCR/L06-12	CS25	T-8
S12M-SCKCR/L06-14	CS25	T-8
S16Q-SCKCR/L06-18	CS25	T-8
S12M-SCKCR/L09-16	CS35	T-15
S16Q-SCKCR/L09-18	CS35	T-15
S20R-SCKCR/L09-22	CS35	T-15
S25R-SCKCR/L09	CS35	T-15

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SCLC 95°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)					刀片 Insert	在库 Stock	
		ΦA	D ₁	H	L ₁	L ₂	F	D ₂		R	L
硬质合金 Carbide	C04G-SCLCR/L03-05	5	4	15	90	100	2.5	16	CC..0301..	●	●
	C05H-SCLCR/L03-06	6	5	15	100	100	3	16	CC..0301..	●	●
	C06J-SCLCR/L04-07	7	6	15	110	100	3.5	16	CC..0401..	●	●

- 订货示例: 1 件 C04G-SCLCR03-05
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- 套筒需另购, 请参照: [F103-F104](#) 页
- Ordering sample: 1 PC C04G-SCLCR03-05
- Insert should be ordered separately, please see page [F105-F114](#)
- Sleeve please see Page [F103-F104](#)

备件

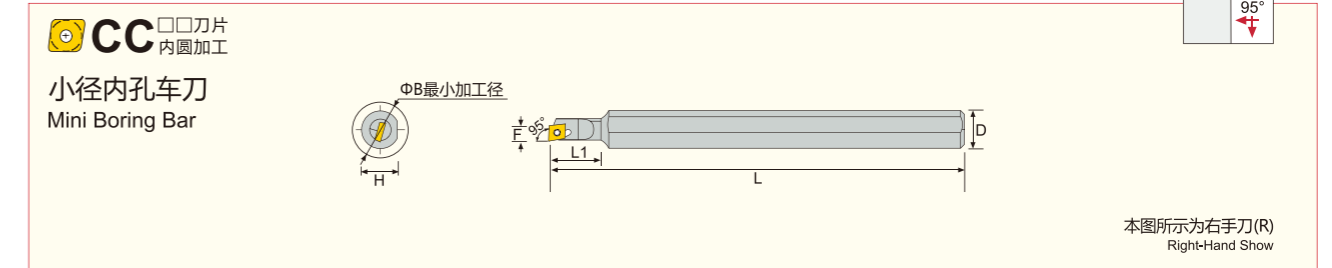
Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
C04G-SCLCR/L03-05	CS18	T-6
C05H-SCLCR/L03-06	CS18	T-6
C06J-SCLCR/L04-07	CS22	T-7

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SCLC 95°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)					刀片 Insert	在库 Stock	
		ΦB	D	L	L ₁	H	F	R		L	
钢 Steel	S0807K-SCLCR/L06	8	8	125	27	7	4	CC..0602..	●	○	
	S1004K-SCLCR/L03	5	10	125	12	10	2.4	CC..0301..	●	○	
	S1204H-SCLCR/L03	5	12	100	9	11	2.5	CC..0301..	●	○	
	S1206K-SCLCR/L04	7	12	125	15	11	3.5	CC..0401..	●	○	
	S1607K-SCLCR/L06-08	8	16	125	15	15	4	CC..0602..	●	○	
	S1608K-SCLCR/L06-09	9	16	125	15	15	4.5	CC..0602..	●	○	
	S1609K-SCLCR/L06-10	10	16	125	15	15	5	CC..0602..	●	○	
	S1610K-SCLCR/L06-12	12	16	125	15	15	6	CC..0602..	●	○	

- 订货示例: 1 件 S1004K-SCLCR03
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC S1004K-SCLCR03
- Insert should be ordered separately, please see page [F105-F114](#)

备件

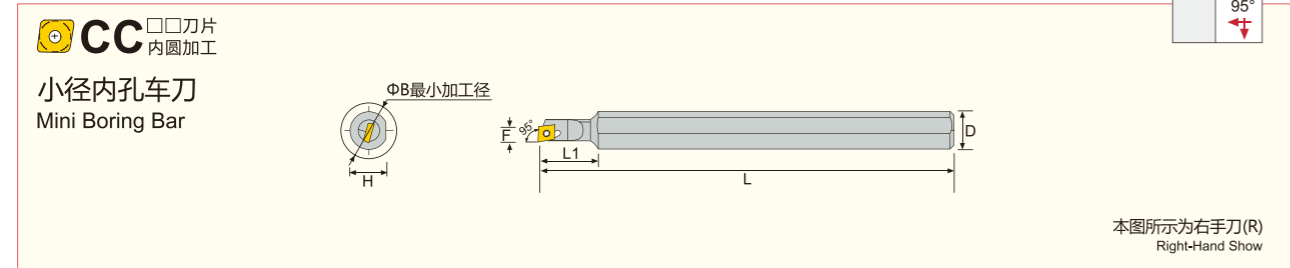
Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
S0807K-SCLCR/L06	CS25	T-8
S1004K-SCLCR/L03	CS18	T-6
S1204H-SCLCR/L03	CS18	T-6
S1206K-SCLCR/L04	CS22	T-7
S1607K-SCLCR/L06-08	CS25	T-8
S1608K-SCLCR/L06-09	CS25	T-8
S1609K-SCLCR/L06-10	CS25	T-8
S1610K-SCLCR/L06-12	CS25	T-8

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SET-SCLC 95°

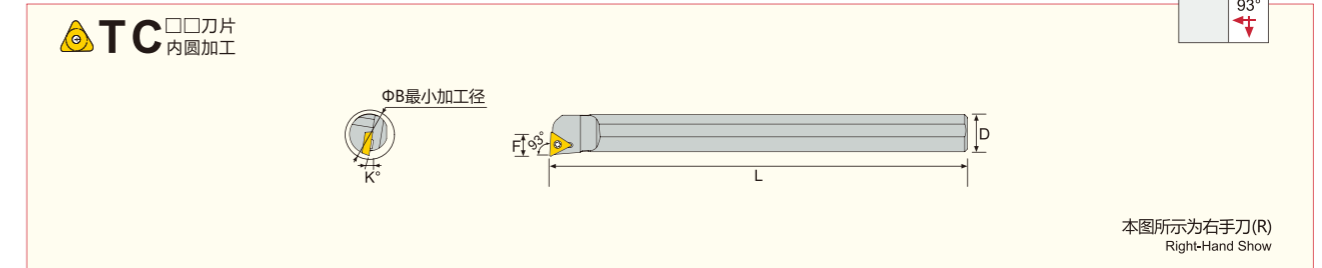


材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.			尺寸 Dimensions(mm)				刀片 Insert		在庫 Stock	
		ΦB	D	d	L	L ₁	F	H	⑤	R	L	
钢 (带出水孔) Steel (with oil hole)	A0608H-SCLCR/L06	10	8	6	100	25	4	7	CC..0602..	•	•	
	A0810J-SCLCR/L06	12	10	8	110	32	6	9	CC..0602..	•	•	
	A1012K-SCLCR/L06	14	12	10	125	38	7	11	CC..0602..	•	•	
	A1216M-SCLCR/L06	18	16	12	150	50	9	15	CC..0602..	•	•	

- 订货示例: 1 件 A0608H-SCLCR06
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- 规格型号后带有*, 为组合套装
- Ordering sample: 1 PC A0608H-SCLCR06
- Insert should be ordered separately, please see page [F105-F114](#)

BORING BAR SERIES 内孔车削刀具

STUC 93°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.			尺寸 Dimensions(mm)				刀片 Insert		在庫 Stock	
		ΦB	D	F	L	K°	⑤	R	L			
钢 Steel	S08K-STUCR/L09-10	10	8	5.5	125	12	TC..0902..	•	•			
	S10K-STUCR/L09-12	12	10	6	125	15	TC..0902..	•	•			
	S10K-STUCR/L11-12	12	10	6	125	15	TC..1102..	•	•			
	S12M-STUCR/L11-14	14	12	7	150	10	TC..1102..	•	•			
	S14M-STUCR/L11-16	16	14	8	150	8	TC..1102..	•	•			
	S16Q-STUCR/L11-18	18	16	9	180	6	TC..1102..	•	•			
	S20R-STUCR/L11-22	22	20	11	200	3	TC..1102..	•	•			
	S20R-STUCR/L16-22	22	20	11	200	8	TC..16T3..	•	•			
	S25R-STUCR/L16	32	25	17	200	6	TC..16T3..	•	•			
	S32S-STUCR/L16	39	32	17.5	250	4	TC..16T3..	•	•			
硬质合金 carbide	C08K-STUCR/L09-10	10	8	5.5	125	12	TC..0902..	•	○			
	C10M-STUCR/L09-12	12	10	6	150	15	TC..0902..	•	○			
	C10M-STUCR/L11-12	12	10	6	150	15	TC..1102..	•	○			
	C12Q-STUCR/L11-14	14	12	7	180	10	TC..1102..	•	○			
	C16R-STUCR/L11-18	18	16	9	200	6	TC..1102..	•	○			
	C20S-STUCR/L11-22	22	20	11	250	3	TC..1102..	•	○			

- 订货示例: 1 件 S08K-STUCR09-10
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC S08K-STUCR09-10
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
A0608H-SCLCR/L06	CS25	T-8
A0810J-SCLCR/L06	CS25	T-8
A1012K-SCLCR/L06	CS25	T-8
A1216M-SCLCR/L06	CS25	T-8

备件

Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
S08K-STUCR/L09-10	CS22	T-7
S10K-STUCR/L09-12	CS22	T-7
S10K-STUCR/L11-12	CS25	T-8
S12M-STUCR/L11-14	CS25	T-8
S14M-STUCR/L11-16	CS25	T-8
S16Q-STUCR/L11-18	CS25	T-8
S20R-STUCR/L11-22	CS25	T-8
S20R-STUCR/L16-22	CS35	T-15
S25R-STUCR/L16	CS35	T-15
S32S-STUCR/L16	CS35	T-15
C08K-STUCR/L09-10	CS22	T-7
C10M-STUCR/L09-12	CS22	T-7
C10M-STUCR/L11-12	CS25	T-8
C12Q-STUCR/L11-14	CS25	T-8
C16R-STUCR/L11-18	CS25	T-8
C20S-STUCR/L11-22	CS25	T-8

● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

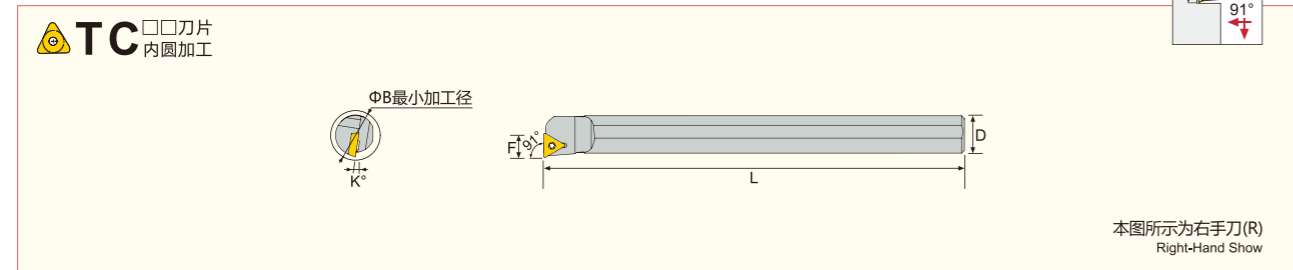
● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

STFC 91°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在库 Stock		
		ΦB	D	F	L	K°		R	L	
钢 Steel	S08K-STFCR/L09-10	10	8	5.5	125	12	TC..0902..	●	●	
	S10K-STFCR/L09-12	12	10	6	125	15	TC..0902..	●	●	
	S12M-STFCR/L09-14	14	12	7	150	10	TC..0902..	●	●	
	S10K-STFCR/L11-12	12	10	6	125	12	TC..1102..	●	●	
	S12M-STFCR/L11-14	14	12	7	150	10	TC..1102..	●	●	
	S16Q-STFCR/L11-18	18	16	9	180	6	TC..1102..	●	●	
	S20R-STFCR/L11-22	22	20	11	200	3	TC..1102..	●	●	
	S20R-STFCR/L16-22	22	20	11	200	3	TC.16T3..	●	●	
	S25R-STFCR/L16	32	25	16	200	2	TC..16T3..	●	●	
硬质合金 carbide	C08K-STFCR/L09-10	10	8	5.5	125	12	TC..0902..	●	○	
	C10M-STFCR/L09-12	12	10	6	150	15	TC..0902..	●	○	
	C12Q-STFCR/L09-14	14	12	7	180	10	TC..0902..	●	○	
	C12Q-STFCR/L11-14	14	12	7	180	10	TC..1102..	●	○	
	C16R-STFCR/L11-18	18	16	9	200	6	TC..1102..	●	○	
钢 (带出水孔) Steel with oil hole	C20S-STFCR/L11-22	22	20	11	250	3	TC..1102..	●	○	
	A08K-STFCR/L09-10	10	8	5.5	125	12	TC..0902..	●	○	
	A10K-STFCR/L11-12	12	10	6	125	12	TC..1102..	●	○	
	A12M-STFCR/L11-14	14	12	7	150	10	TC..1102..	●	○	
	A16Q-STFCR/L11-18	18	16	9	180	6	TC..1102..	●	○	

- 订货示例: 1件 S08K-STFCR09-10
- 刀片需单独订购, 请参照: F105-F114 页
- Ordering sample: 1 PC S08K-STFCR09-10
- Insert should be ordered separately, please see page F105-F114

备件

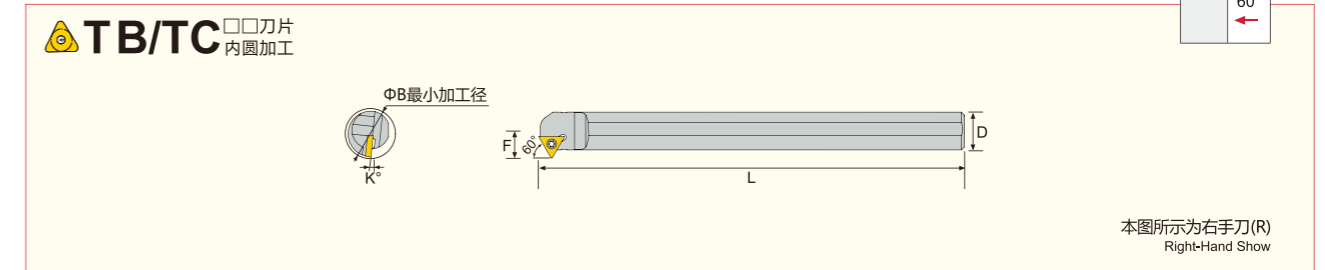
Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
S08K-STFCR/L09-10	CS22	T-7
S10K-STFCR/L09-12	CS22	T-7
S12M-STFCR/L09-14	CS22	T-7
S10K-STFCR/L11-12	CS25	T-8
S12M-STFCR/L11-14	CS25	T-8
S16Q-STFCR/L11-18	CS25	T-8
S20R-STFCR/L11-22	CS25	T-8
S20R-STFCR/L16-22	CS35	T-15
S25R-STFCR/L16	CS35	T-15
C08K-STFCR/L09-10	CS22	T-7
C10M-STFCR/L09-12	CS22	T-7
C12Q-STFCR/L09-14	CS22	T-7
C12Q-STFCR/L11-14	CS25	T-8
C16R-STFCR/L11-18	CS25	T-8
C20S-STFCR/L11-22	CS25	T-8
A08K-STFCR/L09-10	CS22	T-7
A10K-STFCR/L11-12	CS25	T-8
A12M-STFCR/L11-14	CS25	T-8
A16Q-STFCR/L11-18	CS25	T-8

- 标准库存 Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

STWC 60°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在库 Stock		
		ΦB	D	F	L	K°		R	L	
钢 Steel	S0806K-STWBR/L06	7	8	10	125	7	TB..0601..	●	●	
	S08K-STWCR/09	11	8	6.5	125	15	TC..0902..	●	●	
	S10K-STWCR/09	12	10	6	125	15	TC..0902..	●	●	
	S10K-STWCR/11	12	10	7.5	125	15	TC..1102..	●	●	
	S12M-STWCR/11	16	12	7	150	13	TC..1102..	●	●	
	S16Q-STWCR/11	20	16	9	180	10	TC..1102..	●	●	
	S20R-STWCR/11	25	20	13	200	7	TC..1102..	●	●	
	S25R-STWCR/16	30	25	17	200	7	TC.16T3..	●	●	
	S32S-STWCR/16	40	32	20	250	6	TC..16T3..	●	●	
	S40T-STWCR/16	48	40	24	300	0	TC.16T3..	●	●	

- 订货示例: 1件 S0806K-STWBR06
- 刀片需单独订购, 请参照: F105-F114 页
- Ordering sample: 1 PC S0806K-STWBR06
- Insert should be ordered separately, please see page F105-F114

备件

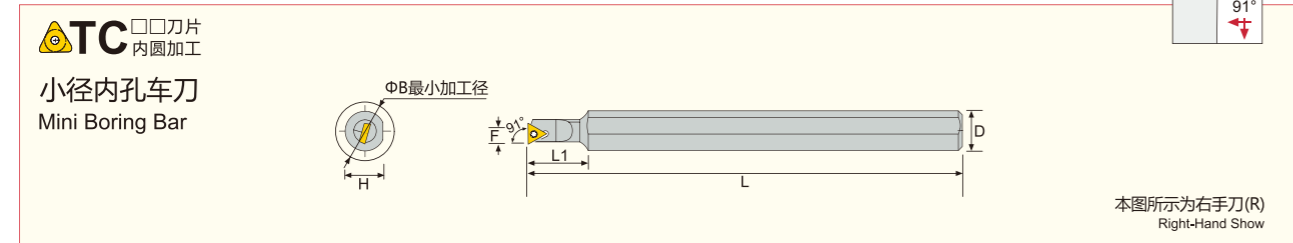
Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
S0806K-STWBR/L06	CS20	T-6
S08K-STWCR/09	CS22	T-7
S10K-STWCR/09	CS22	T-7
S10K-STWCR/11	CS25	T-8
S12M-STWCR/11	CS25	T-8
S16Q-STWCR/11	CS25	T-8
S20R-STWCR/11	CS25	T-8
S25R-STWCR/16	CS35	T-15
S32S-STWCR/16	CS35	T-15
S40T-STWCR/16	CS35	T-15

- 标准库存 Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SET-STFC 91°



材质 Shark	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)					刀片 Insert	在库 Stock	
		ΦB	D	d	L	L1	F	H		R	L
钢 (带出水孔) Steel (with oil hole)	A0810J-STFCR/L11	14	7	8	110	32	7	9	TC..1102..	●	●
	A1012K-STFCR/L11	18	9	10	125	38	9	11	TC..1102..	●	●
	A1216M-STFCR/L11	22	11	12	150	50	11	15	TC..1102..	●	●
	A1016SET-STFCR/L*	A0810J-STFCR11*1, A1012K-STFCR11*1, A1216M-STFCR11*1							CS25*6, T-8*1		

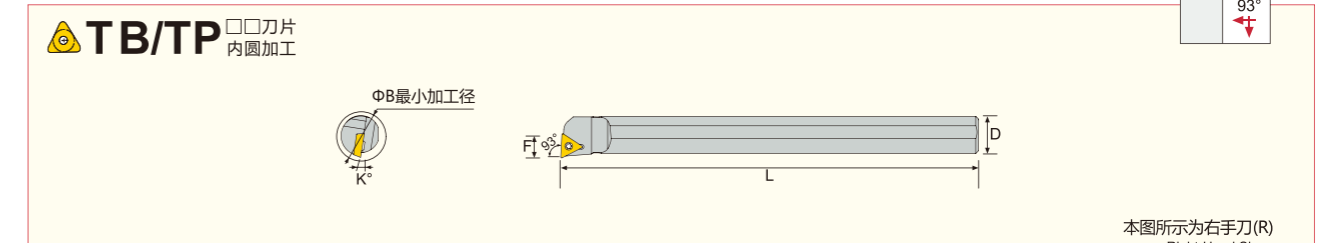
- 订货示例: 1 件 A0810J-STFCR11
- 刀片需单独订购, 请参照: F105-F114 页
- 规格型号后带有*, 为组合套装
- Ordering sample: 1 PC A0810J-STFCR11
- Insert should be ordered separately, please see page F105-F114

备件

规格型号 Designation	螺钉 Screw	扳手 Wrench
A0810J-STFCR/L11	CS25	T-8
A1012K-STFCR/L11	CS25	T-8
A1216M-STFCR/L11	CS25	T-8

BORING BAR SERIES 内孔车削刀具

STUP 93°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)					刀片 Insert	在库 Stock	
		ΦB	D	F	L	K°	R	L			
钢 Steel	S08K-STUBR/L06-08	8	8	4	125	12	TB..0601..	●	●		
	S08K-STUBR/L06-09	9	8	4.5	125	15	TB..0601..	●	○		
	S08K-STUPR/L08-10	10	8	5.5	125	10	TP..0802..	●	○		
	S08K-STUPR/L09-10	10	8	5.5	125	10	TP..0902..	●	●		
	S10K-STUPR/L09-12	12	10	6	125	8	TP..0902..	●	●		
	S12M-STUPR/L09-14	14	12	7	150	5	TP..0902..	●	●		
	S10K-STUPR/L11-12	12	10	6	125	8	TP..1103..	●	●		
	S12M-STUPR/L11-14	14	12	7	150	7	TP..1103..	●	●		
	S14M-STUPR/L11-16	16	14	8.5	150	6	TP..1103..	●	●		
	S16Q-STUPR/L11-18	18	16	9	180	4	TP..1103..	●	●		
	S18Q-STUPR/L11-20	20	18	10	180	4	TP..1103..	●	●		
	S20R-STUPR/L11-22	22	20	11	200	2	TP..1103..	●	●		
	S25R-STUPR/L11-28	28	25	14	200	5	TP..1103..	●	●		
	硬质合金 Carbide	C08K-STUPR/L08-10	10	8	5.5	125	10	TP..0802..	●	○	
C08K-STUPR/L09-10		10	8	5.5	125	10	TP..0902..	●	○		
C10M-STUPR/L09-12		12	10	6	150	15	TP..0902..	●	○		
C12Q-STUPR/L09-14		14	12	7	180	15	TP..0902..	●	○		
C10M-STUPR/L11-12		12	10	6	150	15	TP..1103..	●	○		
C12Q-STUPR/L11-14		14	12	7	180	10	TP..1103..	●	○		
钢 (带出水孔) Steel (with oil hole)	A08K-STUPR/L09-10	10	8	5.5	125	10	TP..0902..	●	●		
	A10K-STUPR/L09-12	12	10	6	125	8	TP..0902..	●	○		
	A12M-STUPR/L09-14	14	12	7	150	5	TP..0902..	●	●		
	A12M-STUPR/L11-14	14	12	7	150	7	TP..1103..	●	●		
	A16Q-STUPR/L11-18	18	16	9	180	4	TP..1103..	●	●		
	A20R-STUPR/L11-22	22	20	11	200	2	TP..1103..	●	●		

- 订货示例: 1 件 S08K-STUBR/L06-08
- 刀片需单独订购, 请参照: F105-F114 页
- Ordering sample: 1 PC S08K-STUBR/L06-08
- Insert should be ordered separately, please see page F105-F114

备件

规格型号 Designation	螺钉 Screw	扳手 Wrench
S08K-STUBR/L06-08	CS20	T-6
S08K-STUBR/L06-09	CS20	T-6
S08K-STUPR/L08-10	CS22	T-7
S08K-STUPR/L09-10	CS25	T-8
S10K-STUPR/L09-12	CS25	T-8
S12M-STUPR/L09-14	CS25	T-8
S10K-STUPR/L11-12	CS30	T-10
S12M-STUPR/L11-14	CS30	T-10
S14M-STUPR/L11-16	CS30	T-10
S16Q-STUPR/L11-18	CS30	T-10
S18Q-STUPR/L11-20	CS30	T-10
S20R-STUPR/L11-22	CS30	T-10
S25R-STUPR/L11-28	CS30	T-10

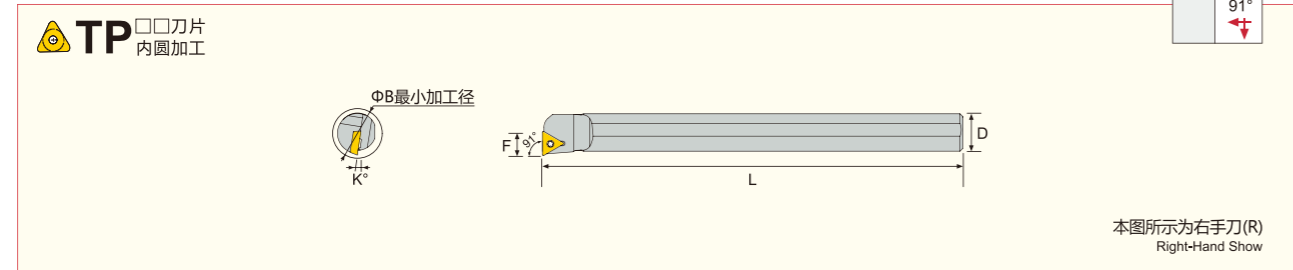
规格型号 Designation	螺钉 Screw	扳手 Wrench
C08K-STUPR/L08-10	CS22	T-7
C08K-STUPR/L09-10	CS25	T-8
C10M-STUPR/L09-12	CS25	T-8
C12Q-STUPR/L09-14	CS25	T-8
C10M-STUPR/L11-12	CS30	T-10
C12Q-STUPR/L11-14	CS30	T-10
C16R-STUPR/L11-18	CS30	T-10
C20S-STUPR/L11-22	CS30	T-10
A08K-STUPR/L09-10	CS25	T-8
A10K-STUPR/L09-12	CS25	T-8
A12M-STUPR/L09-14	CS25	T-8
A12M-STUPR/L11-14	CS30	T-10
A16Q-STUPR/L11-18	CS30	T-10
A20R-STUPR/L11-22	CS30	T-10

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

STFP 91°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions (mm)			刀片 Insert	在庫 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S10K-STFPR/L09-12	12	10	6	125	8	TP..0902..	●	●
	S10K-STFPR/L11-12	12	10	6	125	7	TP..1103..	●	●
	S12M-STFPR/L11-14	14	12	7	150	6	TP..1103..	●	●
	S16Q-STFPR/L11-18	18	16	9	180	4	TP..1103..	●	●
	S20R-STFPR/L11-22	22	20	11	200	4	TP..1103..	●	●
硬质合金 Carbide	C08K-STFPR/L09-10	10	8	5	125	8	TP..0902..	●	○
	C10M-STFPR/L11-12	12	10	6	150	9	TP..1103..	●	○
	C12Q-STFPR/L11-14	14	12	7	180	8	TP..1103..	●	○

- 订货示例: 1 件 S10K-STFPR/L09-12
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC S10K-STFPR/L09-12
- Insert should be ordered separately, please see page [F105-F114](#)

备件

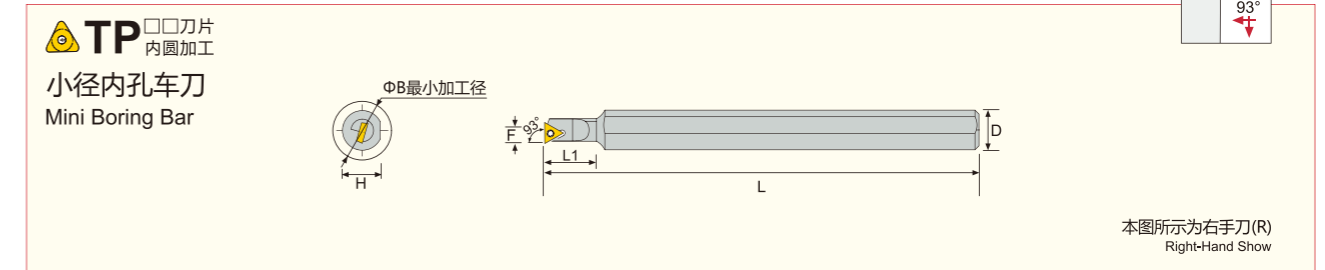
Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
S10K-STFPR/L09-12	CS25	T-8
S10K-STFPR/L11-12	CS30	T-10
S12M-STFPR/L11-14	CS30	T-10
S16Q-STFPR/L11-18	CS30	T-10
S20R-STFPR/L11-22	CS30	T-10
C08K-STFPR/L09-10	CS25	T-8
C10M-STFPR/L11-12	CS30	T-10
C12Q-STFPR/L11-14	CS30	T-10

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

STUP 93°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions (mm)					刀片 Insert	在庫 Stock	
		ΦB	D	F	L	L1	H	R		L	
钢 Steel	S1609J-STUPR/L08-10	10	16	5	110	15	15	TP..0802..	●	●	
	S1610K-STUPR/L11-12	12	16	6	120	15	15	TP..1103..	●	●	

- 订货示例: 1 件 S1609J-STUPR/L08-10
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC S1609J-STUPR/L08-10
- Insert should be ordered separately, please see page [F105-F114](#)

备件

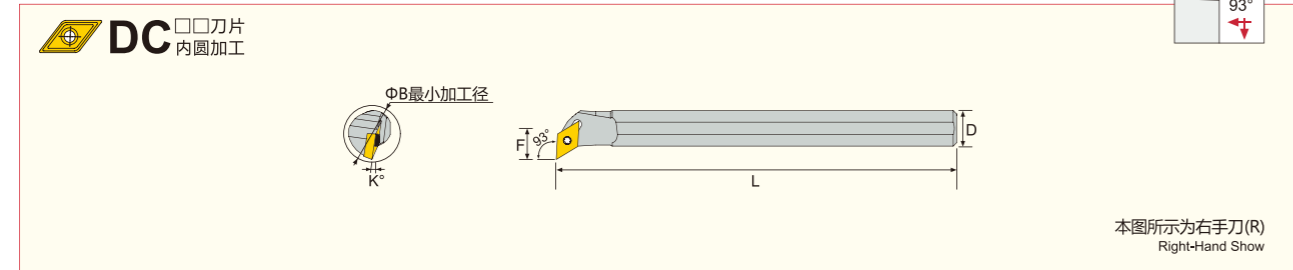
Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
S1609J-STUPR/L08-10	CS22	T-7
S1610K-STUPR/L11-12	CS30	T-10

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SDUC 93°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在库 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S10K-SDUCR/L07	13	10	7	125	9	DC..0702..	●	●
	S12M-SDUCR/L07	16	12	9	150	8	DC..0702..	●	●
	S16Q-SDUCR/L07	20	16	11	180	6	DC..0702..	●	●
	S16Q-SDUCR/L11	20	16	11	180	6	DC..11T3..	●	●
	S20R-SDUCR/L11	25	20	13	200	8	DC..11T3..	●	●
	S25R-SDUCR/L11	32	25	17	200	6	DC..11T3..	●	●
	S32S-SDUCR/L11	39	32	20	250	4	DC..11T3..	●	●
	S40T-SDUCR/L11	45	40	24	300	2	DC..11T3..	●	●
硬质合金 Carbide	S50U-SDUCR/L11	64	50	32	350	6	DC..11T3..	●	●
	C10M-SDUCR/L07	13	10	7	150	9	DC..0702..	●	○
	C12Q-SDUCR/L07	16	12	9	180	8	DC..0702..	●	○
	C16R-SDUCR/L07	20	16	11	200	6	DC..0702..	●	○
	C20S-SDUCR/L11	25	20	13	250	8	DC..11T3..	●	○
钢 (带出水孔) Steel with oil hole	C25T-SDUCR/L11	32	25	17	300	4	DC..11T3..	●	○
	A10K-SDUCR/L07	13	10	7	125	10	DC..0702..	●	○
	A12M-SDUCR/L07	16	12	9	150	8	DC..0702..	●	○
	A16Q-SDUCR/L07	20	16	11	180	6	DC..0702..	●	○
	A20R-SDUCR/L11	25	20	13	200	8	DC..11T3..	●	○

- 订货示例: 1件 S10K-SDUCR/L07
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC S10K-SDUCR/L07
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
S10K-SDUCR/L07	CS25	T-8
S12M-SDUCR/L07	CS25	T-8
S16Q-SDUCR/L07	CS25	T-8
S16Q-SDUCR/L11	CS35	T-15
S20R-SDUCR/L11	CS35	T-15
S25R-SDUCR/L11	CS35	T-15
S32S-SDUCR/L11	CS35	T-15
S40T-SDUCR/L11	CS35	T-15
S50U-SDUCR/L11	CS35	T-15
C10M-SDUCR/L07	CS25	T-8
C12Q-SDUCR/L07	CS25	T-8
C16R-SDUCR/L07	CS25	T-8
C20S-SDUCR/L11	CS35	T-15
C25T-SDUCR/L11	CS35	T-15
A10K-SDUCR/L07	CS25	T-8
A12M-SDUCR/L07	CS25	T-8
A16Q-SDUCR/L07	CS25	T-8
A16Q-SDUCR/L11	CS35	T-15
A20R-SDUCR/L11	CS35	T-15

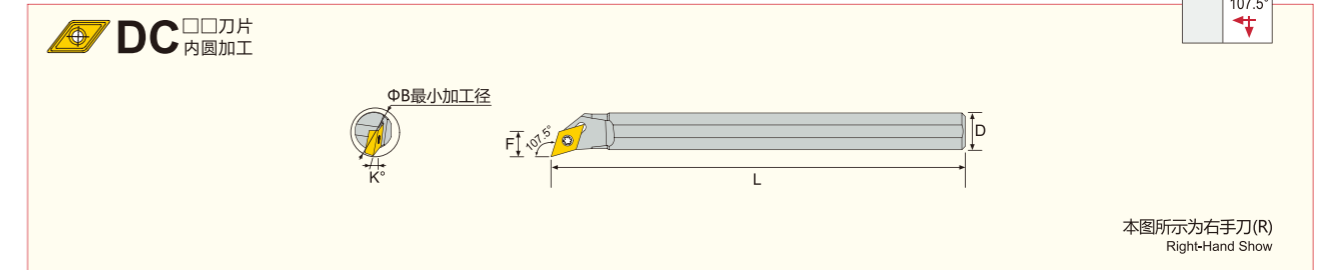
● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SDQC 107.5°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在库 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S10K-SDQCR/L07	13	10	7	125	10	DC..0702..	●	●
	S12M-SDQCR/L07	16	12	9	150	8	DC..0702..	●	●
	S16Q-SDQCR/L07	20	16	11	180	5	DC..0702..	●	●
	S16Q-SDQCR/L11	20	16	11	180	6	DC..11T3..	●	●
	S20R-SDQCR/L11	25	20	13	200	8	DC..11T3..	●	●
	S25R-SDQCR/L11	32	25	17	200	4	DC..11T3..	●	●
	S32S-SDQCR/L11	39	32	20	250	4	DC..11T3..	●	●
	硬质合金 Carbide	C10M-SDQCR/L07	13	10	7	150	10	DC..0702..	●
C12Q-SDQCR/L07		16	12	9	180	8	DC..0702..	●	○
C16R-SDQCR/L11		20	16	11	200	6	DC..11T3..	●	●
C20S-SDQCR/L11		25	20	13	250	8	DC..11T3..	●	○
钢 (带出水孔) Steel with oil hole	A10K-SDQCR/L07	13	10	7	125	10	DC..0702..	●	○
	A12M-SDQCR/L07	16	12	9	150	8	DC..0702..	●	○
	A16Q-SDQCR/L07	20	16	11	180	6	DC..0702..	●	○
	A16Q-SDQCR/L11	20	16	11	180	6	DC..11T3..	●	○

- 订货示例: 1件 S10K-SDQCR/L07
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC S10K-SDQCR/L07
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
S10K-SDQCR/L07	CS25	T-8
S12M-SDQCR/L07	CS25	T-8
S16Q-SDQCR/L07	CS25	T-8
S16Q-SDQCR/L11	CS35	T-15
S20R-SDQCR/L11	CS35	T-15
S25R-SDQCR/L11	CS35	T-15
S32S-SDQCR/L11	CS35	T-15
C10M-SDQCR/L07	CS25	T-8
C12Q-SDQCR/L07	CS25	T-8
C16R-SDQCR/L07	CS25	T-8
C16R-SDQCR/L11	CS35	T-15
C20S-SDQCR/L11	CS35	T-15
A10K-SDQCR/L07	CS25	T-8
A12M-SDQCR/L07	CS25	T-8
A16Q-SDQCR/L07	CS25	T-8
A16Q-SDQCR/L11	CS35	T-15

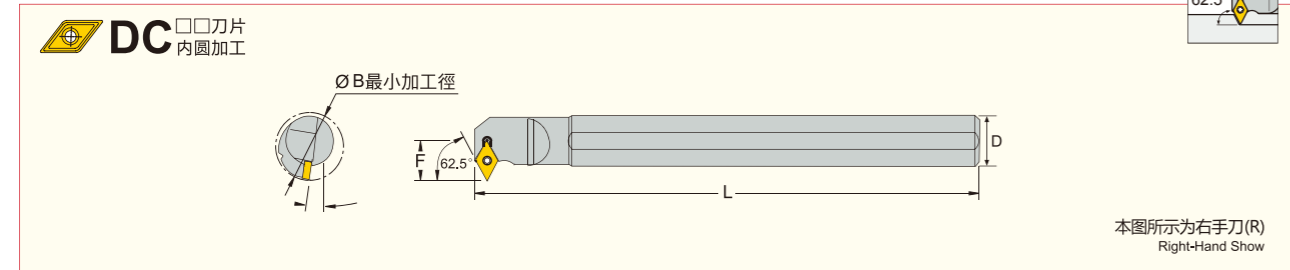
● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SDWC 62.5°

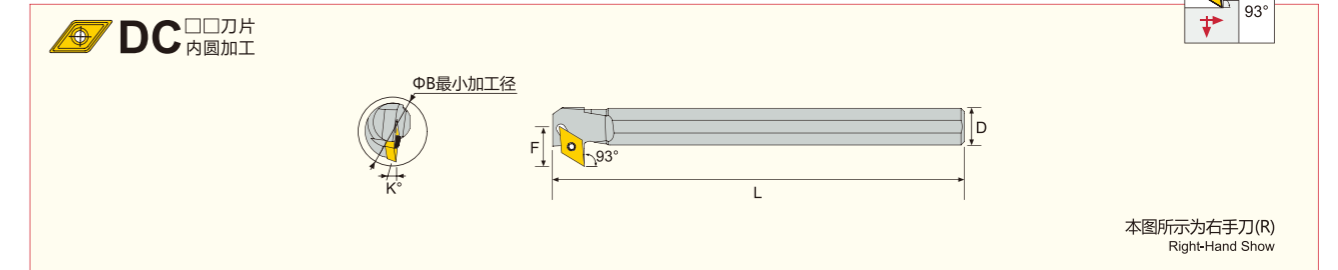


材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在库 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S12M-SDWCR/L07	19	12	10.5	150	10	DC..0702..	●	●
	S16Q-SDWCR/L07	23	16	12.5	180	8	DC..0702..	●	●
	S20R-SDWCR/L07	27	20	14.5	200	6	DC..0702..	●	●
	S20R-SDWCR/L11	27	20	14.5	200	6	DC..11T3..	●	●
	S25R-SDWCR/L11	32	25	17	200	4	DC..11T3..	●	●
	S32S-SDWCR/L11	40	32	20	250	2	DC..11T3..	●	●

- 订货示例: 1 件 S12M-SDWCR/L07
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC S12M-SDWCR/L07
- Insert should be ordered separately, please see page [F105-F114](#)

BORING BAR SERIES 内孔车削刀具

SDZC 93°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在库 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S10K-SDZCR/L07	15	10	8.5	125	12	DC..0702..	●	●
	S12M-SDZCR/L07	17	12	10.5	150	9	DC..0702..	●	●
	S16Q-SDZCR/L07	21	16	12.5	180	8	DC..0702..	●	●
	S20R-SDZCR/L11	26	20	16.5	200	8	DC..11T3..	●	●
	S25R-SDZCR/L11	32	25	19	200	6	DC..11T3..	●	●
	S32S-SDZCR/L11	39	32	22.5	250	4	DC..11T3..	●	●
	S40T-SDZCR/L11	47	40	26.5	300	4	DC..11T3..	●	●

- 订货示例: 1 件 S10K-SDZCR/L07
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC S10K-SDZCR/L07
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts



规格型号 Designation	螺钉 Screw	扳手 Wrench
S12M-SDWCR/L07	CS25	T-8
S16Q-SDWCR/L07	CS25	T-8
S20R-SDWCR/L07	CS25	T-8
S20R-SDWCR/L11	CS35	T-15
S25R-SDWCR/L11	CS35	T-15
S32S-SDWCR/L11	CS35	T-15

备件

Spare Parts



规格型号 Designation	螺钉 Screw	扳手 Wrench
S10K-SDZCR/L07	CS25	T-8
S12M-SDZCR/L07	CS25	T-8
S16Q-SDZCR/L07	CS25	T-8
S20R-SDZCR/L11	CS35	T-15
S25R-SDZCR/L11	CS35	T-15
S32S-SDZCR/L11	CS35	T-15
S40T-SDZCR/L11	CS35	T-15

● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

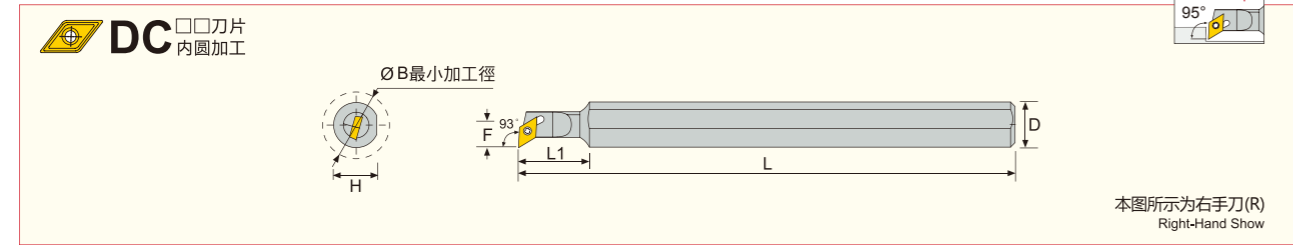
● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SDUC 95°



材质 Shark	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)						刀片 Insert	在庫 Stock	
		ΦB	D	d	L	L1	F	H	R		L	
钢 (带出水孔) Steel (with oil hole)	A0810J-SDUCR/L07	12.5	10	8	110	22	5	9	DC..0702..	•	•	
	A1012K-SDUCR/L07	15.5	12	10	125	28	9	11	DC..0702..	•	•	
	A1216M-SDUCR/L07	19.5	16	12	150	36	5	15	DC..0702..	•	•	
	A1016SET-SDUCR/L	A0810J-SDUCR07*1, A1012K-SDUCR07*1, A1216M-SDUCR07*1, CS25*6, T-8*1										

- 订货示例: 1件 A0810J-SDUCR/L07
- A1016SET-SDUCR/L 为组合套装
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC A0810J-SDUCR/L07
- Insert should be ordered separately, please see page [F105-F114](#)

备件

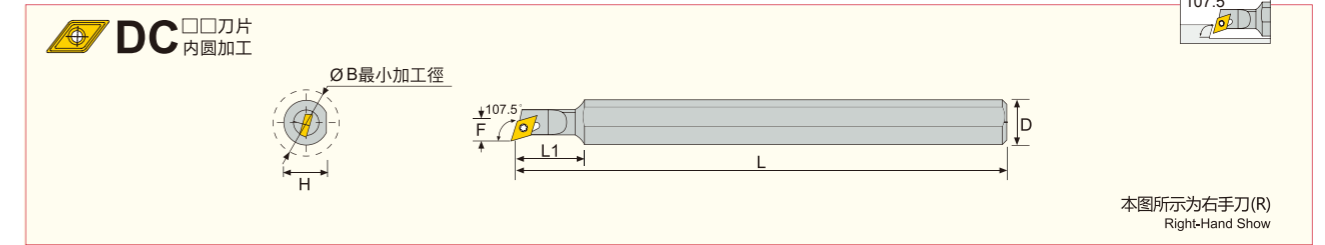
Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
A0810J-SDUCR/L07	CS25	T-8
A1012K-SDUCR/L07	CS25	T-8
A1216M-SDUCR/L07	CS25	T-8

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SDQC 107.5°



材质 Shark	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)						刀片 Insert	在庫 Stock	
		ΦB	D	d	L	L1	F	H	R		L	
钢 (带出水孔) Steel (with oil hole)	A0810J-SDQCR/L07	14	10	8	110	22	7	9	DC..0702..	•	•	
	A1012K-SDQCR/L07	18	12	10	125	28	9	11	DC..0702..	•	•	
	A1216M-SDQCR/L07	22	16	12	150	36	11	15	DC..0702..	•	•	
	A1016SET-SDQCR/L	A0810J-SDQCR07*1, A1012K-SDQCR07*1, A1216M-SDQCR07*1, CS25*6, T-8*1										

- 订货示例: 1件 A0810J-SDQCR/L07
- A1016SET-SDQCR/L 为组合套装
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC A0810J-SDQCR/L07
- Insert should be ordered separately, please see page [F105-F114](#)

备件

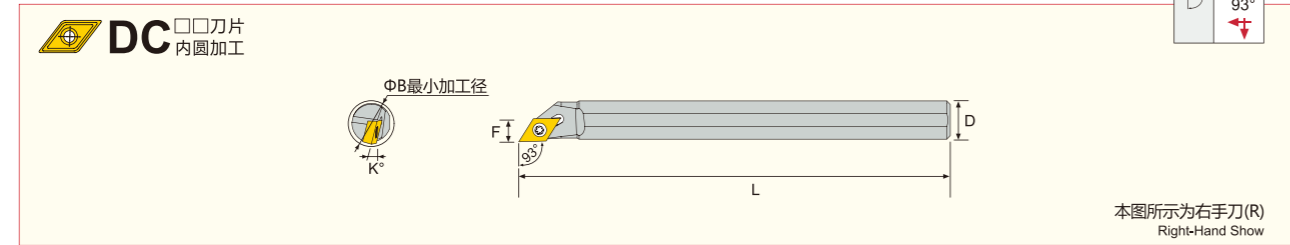
Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
A0810J-SDQCR/L07	CS25	T-8
A1012K-SDQCR/L07	CS25	T-8
A1216M-SDQCR/L07	CS25	T-8

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SDJC 93°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在庫 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S08K-SDJCR/L07	10	8	5	125	10	DC..0702..	•	•
	S10K-SDJCR/L07	12	10	6	125	13	DC..0702..	•	•
	S12M-SDJCR/L07	14	12	7	150	12	DC..0702..	•	•
	S16Q-SDJCR/L07	19	16	9	180	12	DC..0702..	•	•
	S16Q-SDJCR/L11	19	16	9	180	12	DC..11T3..	•	•
	S20R-SDJCR/L11	24	20	10.5	200	10	DC..11T3..	•	•
S25R-SDJCR/L11	30	25	13.5	200	8	DC..11T3..	•	•	

- 订货示例: 1 件 S08K-SDJCR07
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC S08K-SDJCR07
- Insert should be ordered separately, please see page [F105-F114](#)

备件

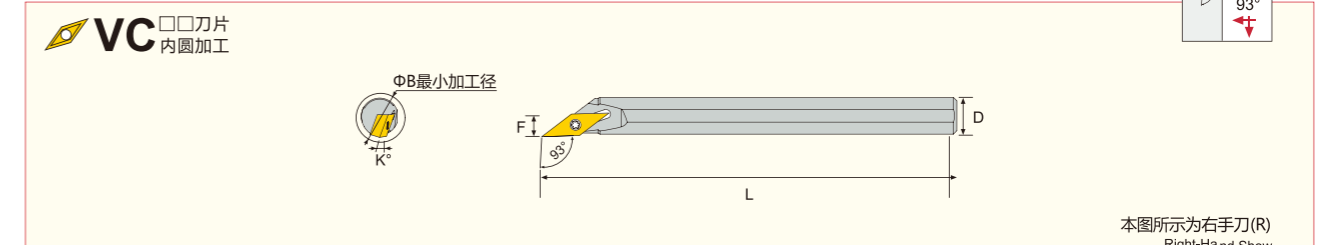
Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
S08K-SDJCR/L07	CS25	T-8
S10K-SDJCR/L07	CS25	T-8
S12M-SDJCR/L07	CS25	T-8
S16Q-SDJCR/L07	CS25	T-8
S16Q-SDJCR/L11	CS35	T-15
S20R-SDJCR/L11	CS35	T-15
S25R-SDJCR/L11	CS35	T-15

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SVJC 93°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在庫 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S10K-SVJCR/L11	12	10	6	125	13	VC..1103..	•	•
	S12M-SVJCR/L11	14	12	7	150	15	VC..1103..	•	•
	S16Q-SVJCR/L11	18	16	9	180	14	VC..1103..	•	•
	S20R-SVJCR/L11	25	20	10.5	180	10	VC..1103..	•	•
	S16Q-SVJCR/L16	18	16	9	180	14	VC..1604..	•	•
	S20R-SVJCR/L16	25	20	10.5	200	10	VC..1604..	•	•
	S25R-SVJCR/L16	32	25	13.5	200	7	VC..1604..	•	•
	S32S-SVJCR/L16	40	32	17	250	7	VC..1604..	•	•
	S40T-SVJCR/L16	47	40	23.5	300	8	VC..1604..	•	•

- 订货示例: 1 件 S10K-SVJCR11
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC S10K-SVJCR11
- Insert should be ordered separately, please see page [F105-F114](#)

备件

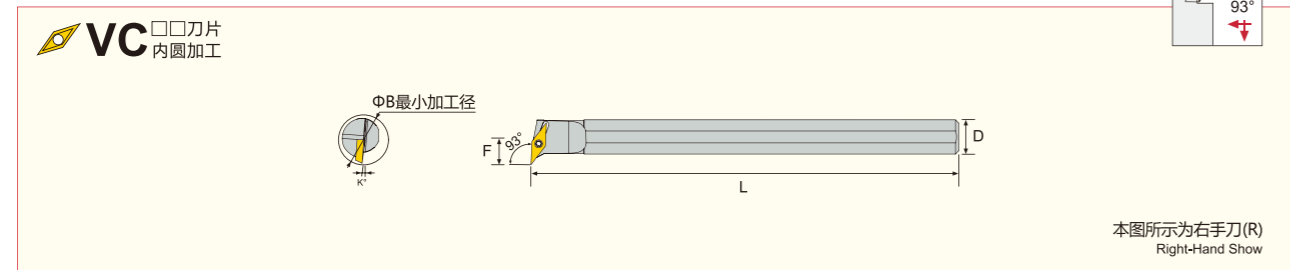
Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
S10K-SVJCR/L11	CS25	T-8
S12M-SVJCR/L11	CS25	T-8
S16Q-SVJCR/L11	CS25	T-8
S20R-SVJCR/L11	CS25	T-8
S16Q-SVJCR/L16	CS35	T-15
S20R-SVJCR/L16	CS35	T-15
S25R-SVJCR/L16	CS35	T-15
S32S-SVJCR/L16	CS35	T-15
S40T-SVJCR/L16	CS35	T-15

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SVUC 93°

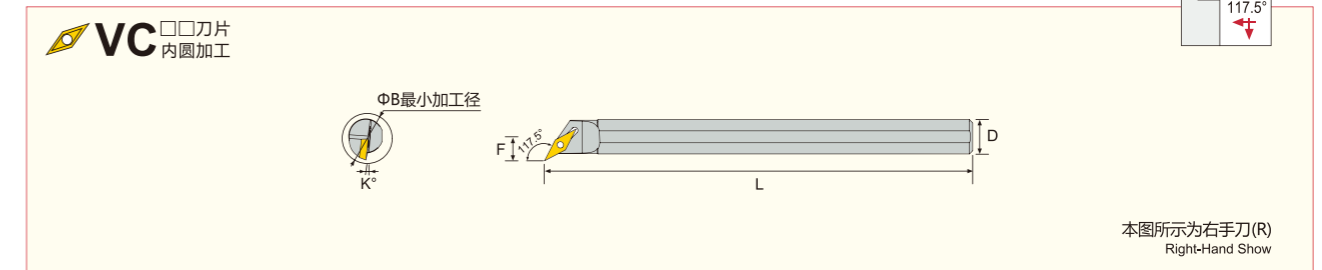


材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions (mm)			刀片 Insert	在庫 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S16Q-SVUCR/L11	22	16	13	180	10	VC..1103..	•	•
	S20R-SVUCR/L11	27	20	15	200	10	VC..1103..	•	•
	S25R-SVUCR/L11	33	25	17	200	8	VC..1103..	•	•
	S25R-SVUCR/L16	33	25	20	200	8	VC..1604..	•	•
	S32S-SVUCR/L16	44	32	22	250	10	VC..1604..	•	•
	S32T-SVUCR/L16	44	32	22	300	10	VC..1604..	•	•
S40T-SVUCR/L16	54	40	27	300	8	VC..1604..	•	•	

- 订货示例: 1 件 S16Q-SVUCR11
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC S16Q-SVUCR11
- Insert should be ordered separately, please see page [F105-F114](#)

BORING BAR SERIES 内孔车削刀具

SVQC 117.5°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions (mm)			刀片 Insert	在庫 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S16Q-SVQCR/L11	20	16	11	180	10	VC..1103..	•	•
	S20R-SVQCR/L11	25	20	13	200	7	VC..1103..	•	•
	S25R-SVQCR/L11	32	25	17	200	5	VC..1103..	•	•
	S25R-SVQCR/L16	32	25	17	200	5	VC..1604..	•	•
	S32S-SVQCR/L16	40	32	14	250	5	VC..1604..	•	•
	S40T-SVQCR/L16	54	40	27	300	7	VC..1604..	•	•

- 订货示例: 1 件 S16Q-SVQCR11
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC S16Q-SVQCR11
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts



规格型号 Designation	螺钉 Screw	扳手 Wrench
S16Q-SVUCR/L11	CS25	T-8
S20R-SVUCR/L11	CS25	T-8
S25R-SVUCR/L11	CS25	T-8
S25R-SVUCR/L16	CS35	T-15
S32S-SVUCR/L16	CS35	T-15
S32T-SVUCR/L16	CS35	T-15
S40T-SVUCR/L16	CS35	T-15

备件

Spare Parts



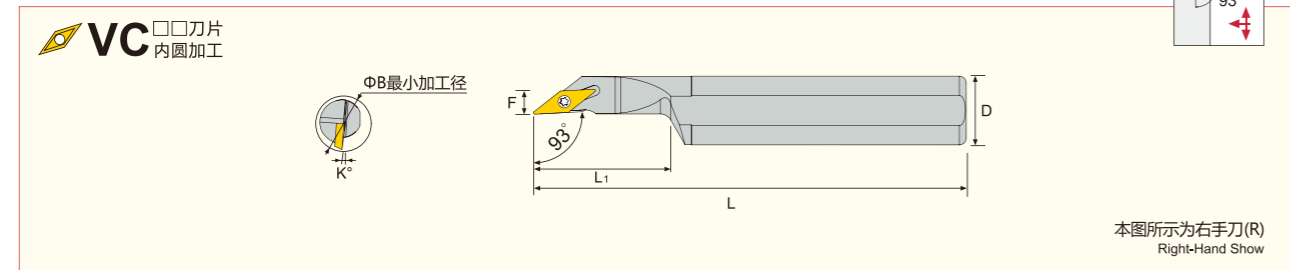
规格型号 Designation	螺钉 Screw	扳手 Wrench
S16Q-SVQCR/L11	CS25	T-8
S20R-SVQCR/L11	CS25	T-8
S25R-SVQCR/L11	CS25	T-8
S25R-SVQCR/L16	CS35	T-15
S32S-SVQCR/L16	CS35	T-15
S40T-SVQCR/L16	CS35	T-15

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

FSVJC 93°



本图所示为右手刀(R)
Right-Hand Show

材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)				刀片 Insert	在庫 Stock	
		ΦB	D	F	L	L ₁	K°		R	L
钢 Steel	S16K-FSVJCR/L11	20	16	2.0	125	36	5	VC..1103..	•	•
	S20M-FSVJCR/L11	25	20	2.0	150	37.5	5	VC..1103..	•	•
	S25M-FSVJCR/L11	30	25	3.5	150	45	5	VC..1103..	•	•

- 订货示例: 1 件 S16K-FSVJCR11
- 刀片需单独订购, 请参照: □ F105-F114 页
- Ordering sample: 1 PC S16K-FSVJCR11
- Insert should be ordered separately, please see page F105-F114

备件

Spare Parts

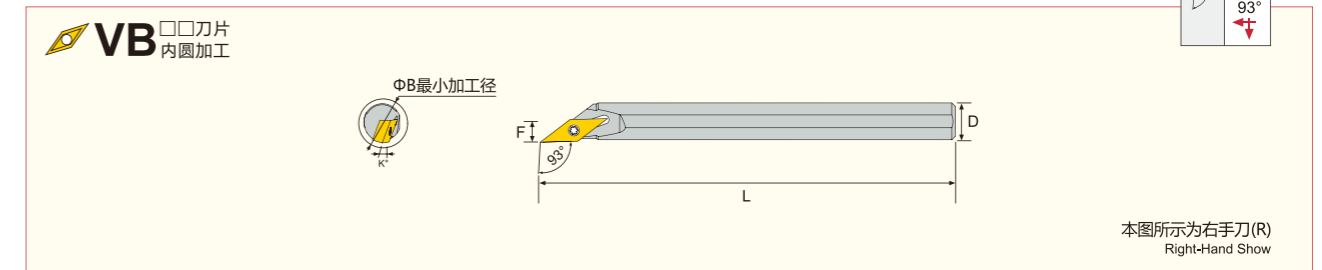


规格型号 Designation	螺钉 Screw	扳手 Wrench
S16K-FSVJCR/L11	CS25	T-8
S20M-FSVJCR/L11	CS25	T-8
S25M-FSVJCR/L11	CS25	T-8

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SVJB 93°



本图所示为右手刀(R)
Right-Hand Show

材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在庫 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S10K-SVJBR/L11	12	10	6	125	10	VB..1103..	•	•
	S12M-SVJBR/L11	14	12	7	150	10	VB..1103..	•	•
	S16Q-SVJBR/L11	18	16	9	180	14	VB..1103..	•	•
	S20R-SVJBR/L11	25	20	10.5	200	10	VB..1103..	•	•
	S16Q-SVJBR/L16	18	16	9	180	7	VB..1604..	•	•
	S20R-SVJBR/L16	25	20	9	200	7	VB..1604..	•	•
	S25R-SVJBR/L16	32	25	11	200	7	VB..1604..	•	•
	S32S-SVJBR/L16	40	32	14	250	5	VB..1604..	•	•
	S40T-SVJBR/L16	57	40	28.5	300	8	VB..1604..	•	•

- 订货示例: 1 件 S10K-SVJBR11
- 刀片需单独订购, 请参照: □ F105-F114 页
- Ordering sample: 1 PC S10K-SVJBR11
- Insert should be ordered separately, please see page F105-F114

备件

Spare Parts

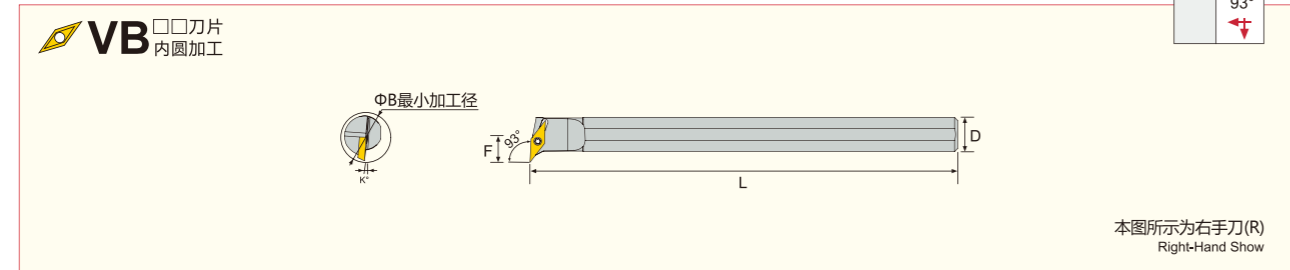


规格型号 Designation	螺钉 Screw	扳手 Wrench
S10K-SVJBR/L11	CS25	T-8
S12M-SVJBR/L11	CS25	T-8
S16Q-SVJBR/L11	CS25	T-8
S20R-SVJBR/L11	CS25	T-8
S16Q-SVJBR/L16	CS35	T-15
S20R-SVJBR/L16	CS35	T-15
S25R-SVJBR/L16	CS35	T-15
S32S-SVJBR/L16	CS35	T-15
S40T-SVJBR/L16	CS35	T-15

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SVUB 93°



本图所示为右手刀(R)
Right-Hand Show

材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在庫 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S16Q-SVUBR/L11	22	16	13	180	10	VB..1103..	●	●
	S20R-SVUBR/L11	27	20	15	200	10	VB..1103..	●	●
	S25R-SVUBR/L11	33	25	20	200	8	VB..1103..	●	●
	S25R-SVUBR/L16	33	25	17	200	5	VB..1604..	●	●
	S32S-SVUBR/L16	44	32	22	250	10	VB..1604..	●	●
	S40T-SVUBR/L16	51	40	27	300	8	VB..1604..	●	●

- 订货示例: 1 件 S16Q-SVUBR11
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC S16Q-SVUBR11
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

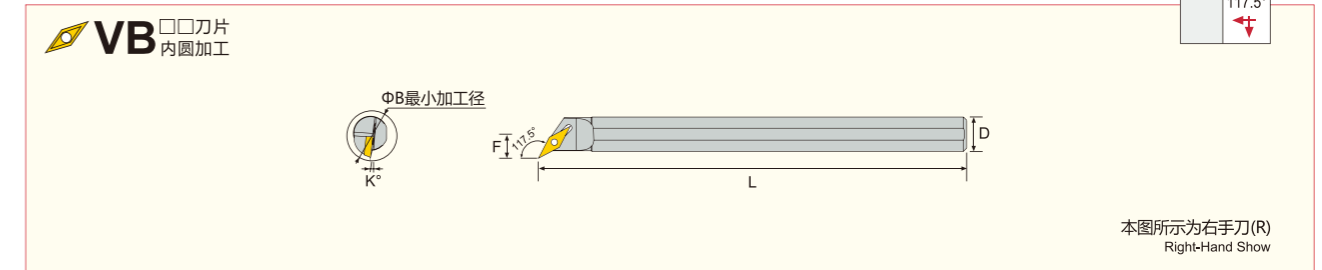


规格型号 Designation	螺钉 Screw	扳手 Wrench
S16Q-SVUBR/L11	CS25	T-8
S20R-SVUBR/L11	CS25	T-8
S25R-SVUBR/L11	CS25	T-8
S25R-SVUBR/L16	CS35	T-15
S32S-SVUBR/L16	CS35	T-15
S40T-SVUBR/L16	CS35	T-15

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SVQB 117.5°



本图所示为右手刀(R)
Right-Hand Show

材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在庫 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S16Q-SVQBR/L11	20	16	11	180	7	VB..1103..	●	●
	S20R-SVQBR/L11	25	20	13	200	7	VB..1103..	●	●
	S25R-SVQBR/L11	32	25	17	200	5	VB..1103..	●	●
	S25R-SVQBR/L16	32	25	17	200	5	VB..1604..	●	●
	S32S-SVQBR/L16	40	32	14	250	5	VB..1604..	●	●
	S40T-SVQBR/L16	54	40	27	300	7	VB..1604..	●	●

- 订货示例: 1 件 S16Q-SVQBR11
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC S16Q-SVQBR11
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

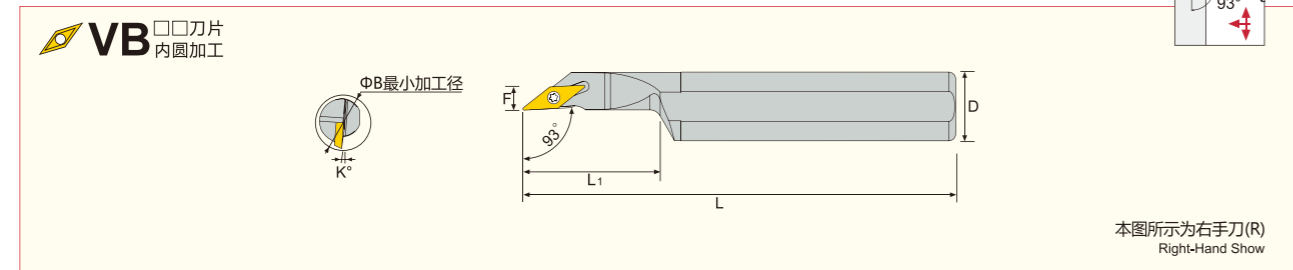


规格型号 Designation	螺钉 Screw	扳手 Wrench
S16Q-SVQBR/L11	CS25	T-8
S20R-SVQBR/L11	CS25	T-8
S25R-SVQBR/L11	CS25	T-8
S25R-SVQBR/L16	CS35	T-15
S32S-SVQBR/L16	CS35	T-15
S40T-SVQBR/L16	CS35	T-15

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

FSVJB 93°

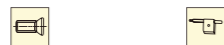


材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)				刀片 Insert	在庫 Stock	
		ΦB	D	F	L	L ₁	K°		R	L
钢 Steel	S16K-FSVJBR/L11	20	16	2	125	36	5	VB..1103..	●	●
	S20M-FSVJBR/L11	25	20	2	150	37.5	5	VB..1103..	●	●
	S25M-FSVJBR/L11	30	25	3.5	150	45	5	VB..1103..	●	●

- 订货示例: 1 件 S16K-FSVJBR11
- 刀片需单独订购, 请参照: [☞ F105-F114 页](#)
- Ordering sample: 1 PC S16K-FSVJBR11
- Insert should be ordered separately, please see page [F105-F114](#)

备件

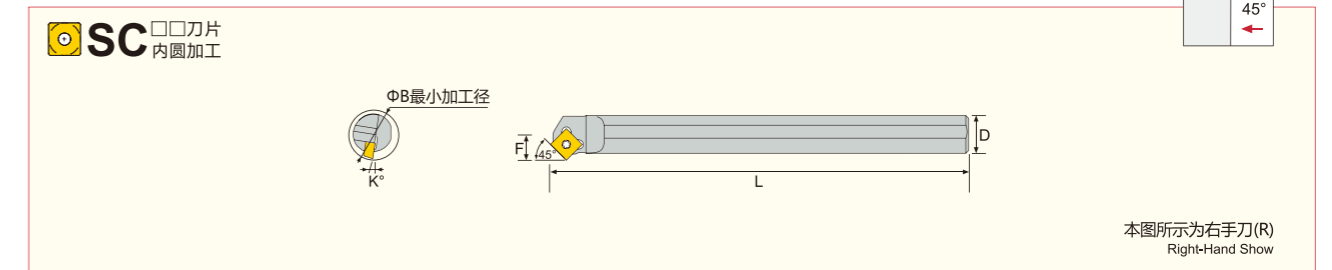
Spare Parts



规格型号 Designation	螺钉 Screw	扳手 Wrench
S16K-FSVJBR/L11	CS25	T-8
S20M-FSVJBR/L11	CS25	T-8
S25M-FSVJBR/L11	CS25	T-8

BORING BAR SERIES 内孔车削刀具

SSSC 45°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)				刀片 Insert	在庫 Stock	
		ΦB	D	F	L	K°	R		L	
钢 Steel	S12M-SSSCR/L09	16	12	9.5	150	12		SC..09T3..	●	●
	S16Q-SSSCR/L09	22	16	12.5	180	10		SC..09T3..	●	●
	S20R-SSSCR/L09	26	20	14.5	200	8		SC..09T3..	●	●
	S25R-SSSCR/L09	31	25	17	200	6		SC..09T3..	●	●
	S32S-SSSCR/L09	37	32	20.5	250	4		SC..09T3..	●	●

- 订货示例: 1 件 S12M-SSSCR09
- 刀片需单独订购, 请参照: [☞ F105-F114 页](#)
- Ordering sample: 1 PC S12M-SSSCR09
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts



规格型号 Designation	螺钉 Screw	扳手 Wrench
S12M-SSSCR/L09	CS35	T-15
S16Q-SSSCR/L09	CS35	T-15
S20R-SSSCR/L09	CS35	T-15
S25R-SSSCR/L09	CS35	T-15
S32S-SSSCR/L09	CS35	T-15

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

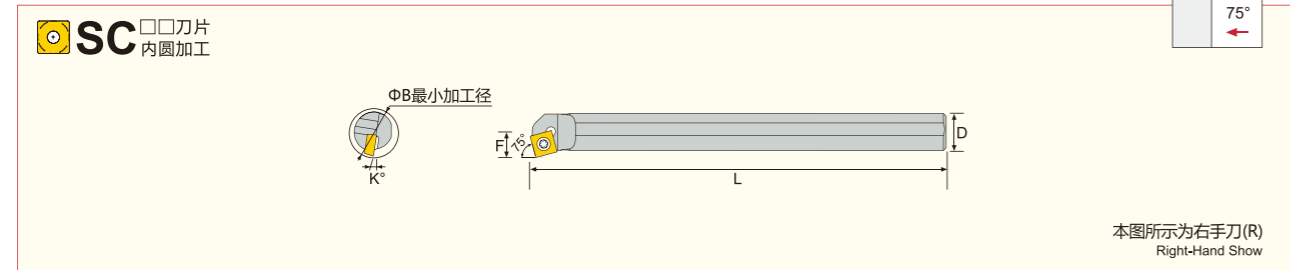
● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SSKC 75°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)				刀片 Insert		在库 Stock	
		ΦB	D	F	L	K°	☐	R	L		
钢 Steel	S12M-SSKCR/L09	16	12	8.5	150	12	SC..09T3..	•	•		
	S16N-SSKCR/L09	20	16	10.5	160	10	SC..09T3..	•	•		
	S16Q-SSKCR/L09	20	16	10.5	180	10	SC..09T3..	•	•		
	S20R-SSKCR/L09	24	20	12.5	200	8	SC..09T3..	•	•		
	S25R-SSKCR/L09	31	25	17	200	6	SC..09T3..	•	•		

- 订货示例: 1 件 S12M-SSKCR09
- 刀片需单独订购, 请参照: ☐ F105-F114 页
- Ordering sample: 1 PC S12M-SSKCR09
- Insert should be ordered separately, please see page F105-F114

备件

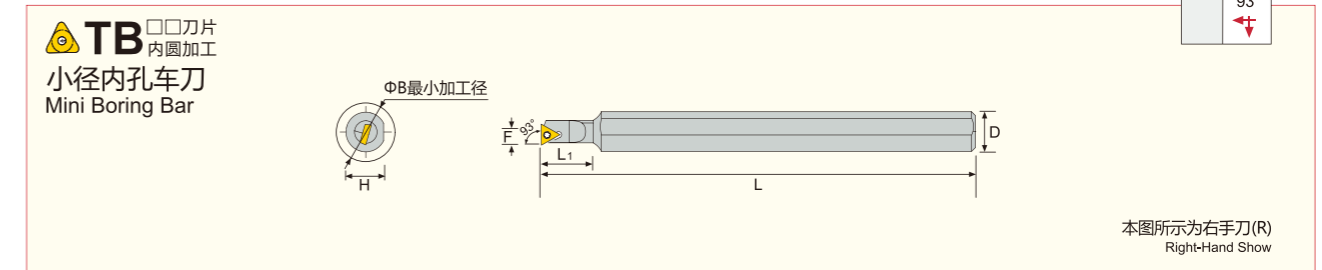
Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
S12M-SSKCR/L09	CS35	T-15
S16N-SSKCR/L09	CS35	T-15
S16Q-SSKCR/L09	CS35	T-15
S20R-SSKCR/L09	CS35	T-15
S25R-SSKCR/L09	CS35	T-15

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

STUB 93°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)					刀片 Insert		在库 Stock	
		ΦB	D	L	L ₁	H	F	☐	R	L		
钢 Steel	S0806K-STUBR/L06-07	7	8	125	20	7	3.5	TB..0601..	•	○		
	S1606J-STUBR/L06-07	7	16	110	15	15	3.5	TB..0601..	•	○		
	S1607J-STUBR/L06-08	8	16	110	15	15	4	TB..0601..	•	○		
	S1608J-STUBR/L06-09	9	16	110	15	15	4.5	TB..0601..	•	○		
	S1609J-STUBR/L06-10	10	16	110	15	15	5	TB..0601..	•	○		

- 订货示例: 1 件 S0806K-STUBR06-07
- 刀片需单独订购, 请参照: ☐ F105-F114 页
- Ordering sample: 1 PC S0806K-STUBR06-07
- Insert should be ordered separately, please see page F105-F114

备件

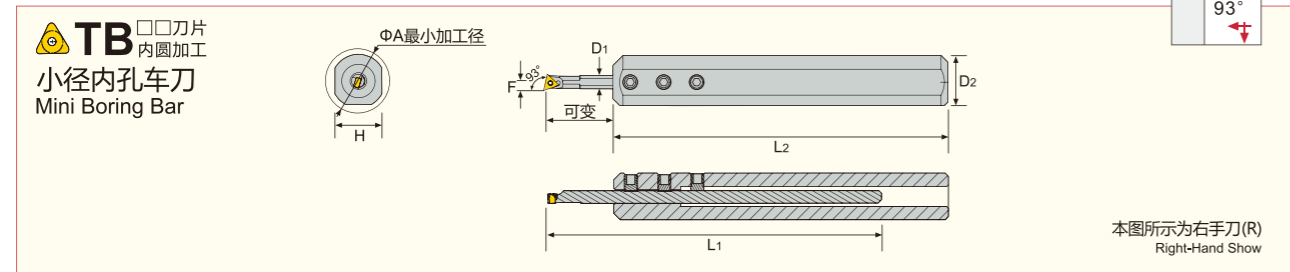
Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
S0806K-STUBR/L06-07	CS20	T-6
S1606J-STUBR/L06-07	CS20	T-6
S1607J-STUBR/L06-08	CS20	T-6
S1608J-STUBR/L06-09	CS20	T-6
S1609J-STUBR/L06-10	CS20	T-6

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

STUB 93°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock		
		ΦA	D ₁	H	L	L ₁	F	D ₂		R	L	
钢 Steel	S06J-STUBR06-08	8	8	15	110	100	4	16	TB..0601..	●	●	
硬质合金 Carbide	C06J-STUBR/L06-07	7	7	15	110	100	3.5	16	TB..0601..	●	●	
	C0807K-STUBR/L06-08	6	6	7.4	125	100	4	20	TB..0601..	●	●	

- 订货示例: 1 件 C06J-STUBR06-07
- 刀片需单独订购, 请参照: F105-F114 页
- 套筒需另购, 请参照: F103-F104 页
- Ordering sample: 1 PC C06J-STUBR06-07
- Insert should be ordered separately, please see page F105-F114
- Sleeve please see Page F103-F104

备件

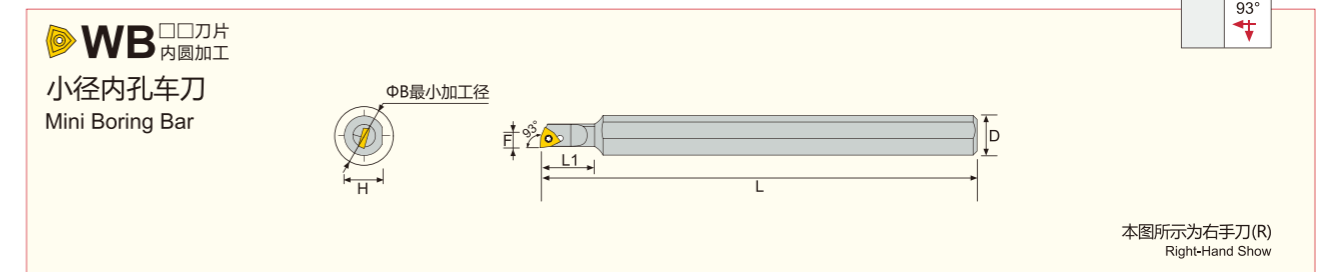
Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
S06J-STUBR06-08	CS20	T-6
C06J-STUBR/L06-07	CS20	T-6
C0807K-STUBR/L06-08	CS20	T-6

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SWUB 93°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock		
		ΦB	D	L	L ₁	H	F	R		L		
钢 Steel	S1005J-SWUBR/L06-06	6	10	110	15	9	3	WB..0601..	●	○		
	S1006J-SWUBR/L06-07	7	10	110	15	9	3.5	WB..0601..	●	○		
	S1205J-SWUBR/L06-06	6	12	110	15	11	3	WB..0601..	●	○		
	S1605J-SWUBR/L06-06	6	16	110	15	15	3	WB..0601..	●	○		
	S1606J-SWUBR/L06-07	7	16	110	15	15	3.5	WB..0601..	●	○		
	S1607J-SWUBR/L06-08	8	16	110	15	15	4	WB..0601..	●	○		
	S1608J-SWUBR/L06-09	9	16	110	15	15	4.5	WB..0601..	●	○		

- 订货示例: 1 件 S1005J-SWUBR06-06
- 刀片需单独订购, 请参照: F105-F114 页
- Ordering sample: 1 PC S1005J-SWUBR06-06
- Insert should be ordered separately, please see page F105-F114

备件

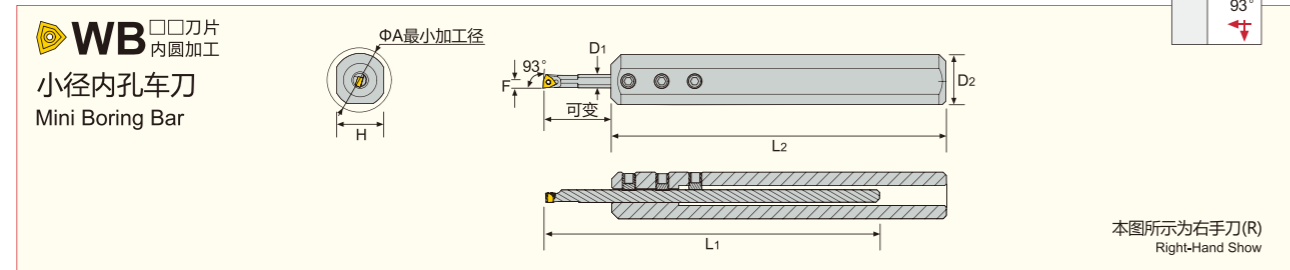
Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
S1005J-SWUBR/L06-06	CS20	T-6
S1006J-SWUBR/L06-07	CS20	T-6
S1205J-SWUBR/L06-06	CS20	T-6
S1605J-SWUBR/L06-06	CS20	T-6
S1606J-SWUBR/L06-07	CS20	T-6
S1607J-SWUBR/L06-08	CS20	T-6
S1608J-SWUBR/L06-09	CS20	T-6

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

SWUB 93°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)					刀片 Insert	在庫 Stock	
		ΦA	D ₁	H	L ₁	L ₂	F	D ₂		R	L
硬质合金 Carbide	C05H-SWUBR/L06-06	6	5	15	100	100	2.75	16	WB..0601..	●	○
	C06J-SWUBR/L06-07	7	6	15	110	100	3.5	16	WB..0601..	●	○
	C0807K-SWUBR/L06-08	8	7	15	125	100	4	16	WB..0601..	●	○

- 订货示例: 1 件 C05H-SWUBR06-06
- 刀片需单独订购, 请参照: F105-F114 页
- 套筒需另购, 请参照: F103-F104 页
- Ordering sample: 1 PC C05H-SWUBR06-06
- Insert should be ordered separately, please see page F105-F114
- Sleeve please see Page F103-F104

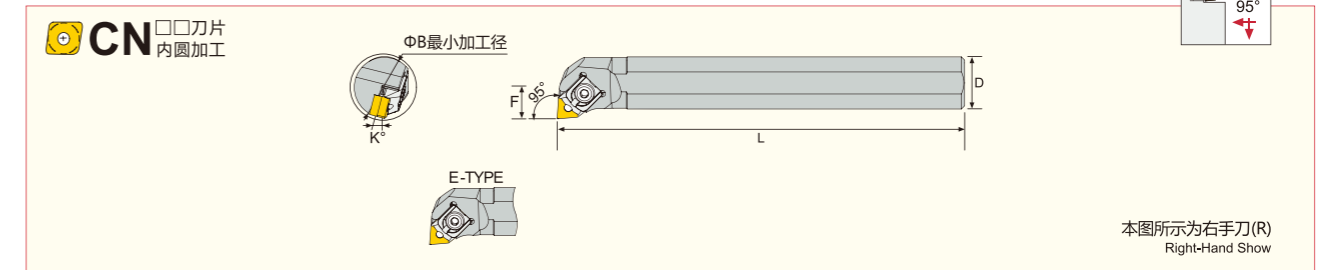
备件

Spare Parts

规格型号 Designation	螺钉 Screw	扳手 Wrench
C05H-SWUBR/L06-06	CS20	T-6
C06J-SWUBR/L06-07	CS20	T-6
C0807K-SWUBR/L06-08	CS20	T-6

BORING BAR SERIES 内孔车削刀具

ECLN 95°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在庫 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S32S-ECLNR/L12	40	32	22	250	14	CN..1204..	●	●
	S32U-ECLNR/L12	40	32	22	350	14	CN..1204..	●	●
	S40T-ECLNR/L12	50	40	27	300	12	CN..1204..	●	●
	S40W-ECLNR/L12	50	40	27	450	12	CN..1204..	●	●
	S50U-ECLNR/L12	63	50	35	350	12	CN..1204..	●	●
	S50Y-ECLNR/L12	63	50	35	500	12	CN..1204..	●	●
	S60V-ECLNR/L12	72	60	36	400	10	CN..1204..	●	●
	S60X-ECLNR/L12	72	60	36	600	10	CN..1204..	●	●
S63Y-ECLNR/L12	76	63	38	500	10	CN..1204..	●	●	

- 订货示例: 1 件 S32S-ECLNR12
- 刀片需单独订购, 请参照: F105-F114 页
- Ordering sample: 1 PC S32S-ECLNR12
- Insert should be ordered separately, please see page F105-F114

备件

Spare Parts

规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
S32S-ECLNR/L12	SMC-432	LW-4B	CN12-2	CS80	C-6	LW030 LW040
S32U-ECLNR/L12	SMC-432	LW-4B	CN12-2	CS80	C-6	LW030 LW040
S40T-ECLNR/L12	SMC-432	LW-4B	CN12-2	CS80	C-6	LW030 LW040
S40W-ECLNR/L12	SMC-432	LW-4B	CN12-2	CS80	C-6	LW030 LW040
S50U-ECLNR/L12	SMC-432	LW-4B	CN12-2	CS80	C-6	LW030 LW040
S50Y-ECLNR/L12	SMC-432	LW-4B	CN12-2	CS80	C-6	LW030 LW040
S60V-ECLNR/L12	SMC-432	LW-4	CN12-2	CS80	C-6	LW030 LW040
S60X-ECLNR/L12	SMC-432	LW-4	CN12-2	CS80	C-6	LW030 LW040
S63Y-ECLNR/L12	SMC-432	LW-4	CN12-2	CS80	C-6	LW030 LW040

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

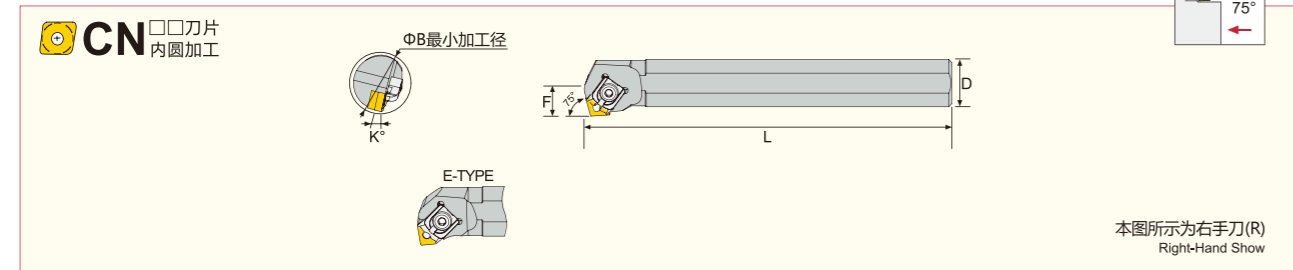
● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

ECKN 75°

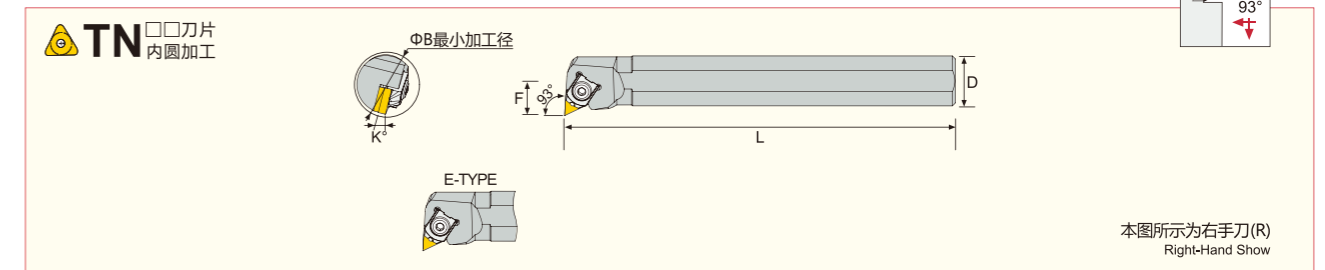


材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在库 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S32S-ECKNR/L12	40	32	22	250	14	CN..1204..	●	●
	S40T-ECKNR/L12	50	40	27	300	12	CN..1204..	●	●
	S50U-ECKNR/L12	63	50	35	350	12	CN..1204..	●	●

- 订货示例: 1 件 S32S-ECKNR12
- 刀片需单独订购, 请参照: □ F105-F114 页
- Ordering sample: 1 PC S32S-ECKNR12
- Insert should be ordered separately, please see page F105-F114

BORING BAR SERIES 内孔车削刀具

ETUN 93°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在库 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S25R-ETUNR/L16	32	25	17	200	12	TN..1604..	●	●
	S25T-ETUNR/L16	32	25	17	300	12	TN..1604..	●	●
	S32S-ETUNR/L16	40	32	22	250	10	TN..1604..	●	●
	S32U-ETUNR/L16	40	32	22	350	10	TN..1604..	●	●
	S40T-ETUNR/L16	50	40	27	300	10	TN..1604..	●	●
	S40W-ETUNR/L16	50	40	27	450	10	TN..1604..	●	●
	S50U-ETUNR/L16	63	50	35	350	8	TN..1604..	●	●
	S50Y-ETUNR/L16	63	50	35	500	8	TN..1604..	●	●
	S60V-ETUNR/L16	72	60	36	400	10	TN..1604..	●	●
	S60X-ETUNR/L16	76	63	36	600	10	TN..1604..	●	●
S63Y-ETUNR/L16	76	63	38	500	10	TN..1604..	●	●	

- 订货示例: 1 件 S25R-ETUNR16
- 刀片需单独订购, 请参照: □ F105-F114 页
- Ordering sample: 1 PC S25R-ETUNR16
- Insert should be ordered separately, please see page F105-F114

备件

Spare Parts

规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
S32S-ECKNR/L12	SMC-432	LW-4B	CN12-4	CS80	C-6	LW030 LW040
S40T-ECKNR/L12	SMC-432	LW-4B	CN12-4	CS80	C-6	LW030 LW040
S50U-ECKNR/L12	SMC-432	LW-4B	CN12-4	CS80	C-6	LW030 LW040

备件

Spare Parts

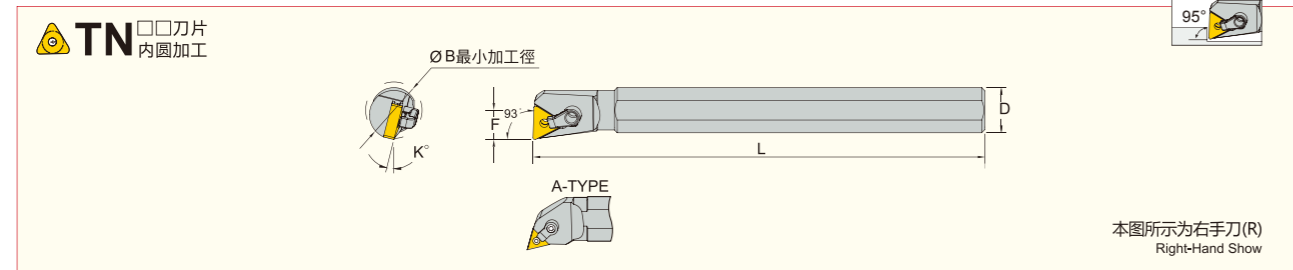
规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
S25R-ETUNR/L16	-	LT-2	TN16-2	CS60E	C-5	LW025 LW030
S25T-ETUNR/L16	-	LT-2	TN16-2	CS60E	C-5	LW025 LW030
S32S-ETUNR/L16	SMT-322	LT-4	TN16-3	CS80	C-6	LW025 LW040
S32U-ETUNR/L16	SMT-322	LT-4	TN16-3	CS80	C-6	LW025 LW040
S40T-ETUNR/L16	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040
S40W-ETUNR/L16	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040
S50U-ETUNR/L16	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040
S50Y-ETUNR/L16	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040
S60V-ETUNR/L16	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040
S60X-ETUNR/L16	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040
S63Y-ETUNR/L16	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

MTUN 93°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在库 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S16Q-MTUNR/L16	22	16	11	180	17	TN..1604..	●	●
	S20R-MTUNR/L16	25	20	13	200	17	TN..1604..	●	●
	S20R-MTUNR/L16A	25	20	13	200	17	TN..1604..	●	●
	S25R-MTUNR/L16	32	25	17	200	12	TN..1604..	●	●
	S25R-MTUNR/L16A	32	25	17	200	12	TN..1604..	●	●
	S32S-MTUNR/L16A	40	32	22	250	10	TN..1604..	●	●
	S40T-MTUNR/L16A	50	40	27	300	10	TN..1604..	●	●
S50U-MTUNR/L16A	63	50	35	350	8	TN..1604..	●	●	

- 订货示例: 1 件 S16Q-MTUNR/L16
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC S16Q-MTUNR/L16
- Insert should be ordered separately, please see page [F105-F114](#)

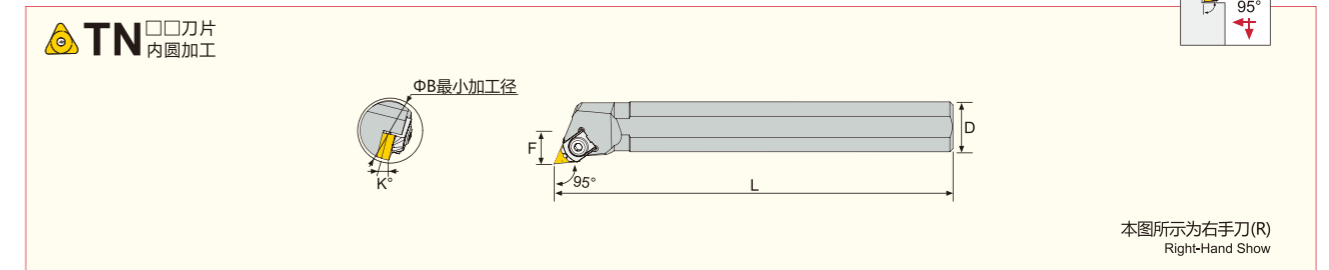
备件

Spare Parts

规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	双头螺钉 Screw	L 型扳手 Allen key
S16Q-MTUNR/L16	-	LCS-510	CP50-21	CS70-20	LW020 LW025
S20R-MTUNR/L16	-	LCS-510	CP50-21	CS70-20	LW020 LW025
S20R-MTUNR/L16A	-	LCS-510	CP50-21	CS70-20	LW020 LW025
S25R-MTUNR/L16	-	LCS-510	CP50-22	CS70-21	LW020 LW030
S25R-MTUNR/L16A	-	LCS-510	CP50-22	CS70-21	LW020 LW030
S32S-MTUNR/L16A	SMT-322	LCS-513	CP50-22	CS70-21	LW020 LW030
S40T-MTUNR/L16A	SMT-322	LCS-513	CP50-22	CS70-22	LW020 LW030
S50U-MTUNR/L16A	SMT-322	LCS-513	CP50-22	CS70-22	LW020 LW030

BORING BAR SERIES 内孔车削刀具

ETIN 95°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在库 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S20R-ETLNR/L16	25	20	13	200	17	TN..1604..	●	●
	S25R-ETLNR/L16	32	25	17	200	12	TN..1604..	●	●

- 订货示例: 1 件 S20R-ETLNR/L16
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC S20R-ETLNR/L16
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

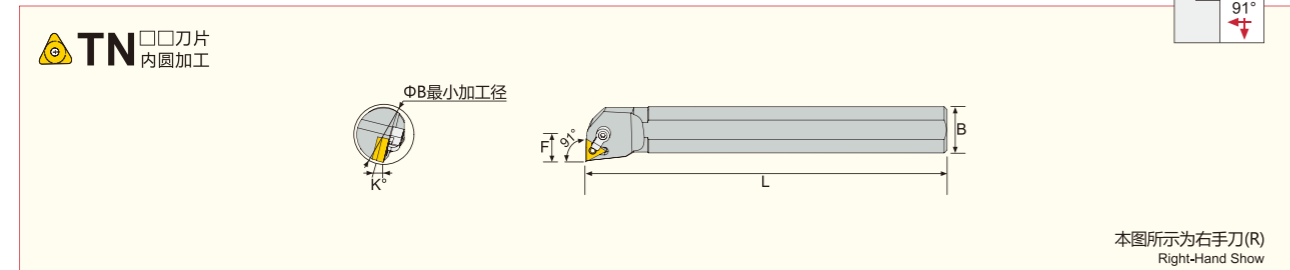
规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
S20R-ETLNR/L16	-	LT-2	TN16-2	CS60E	C-5	LW025 LW030
S25R-ETLNR/L16	-	LT-2	TN16-2	CS60E	C-5	LW025 LW030

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

MTFN 91°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在库 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S20R-MTFNR/L16	25	20	13	200	17	TN..1604..	●	●
	S25R-MTFNR/L16	32	25	17	200	12	TN..1604..	●	●
	S32S-MTFNR/L16	40	32	22	250	10	TN..1604..	●	●
	S40T-MTFNR/L16	50	40	27	300	10	TN..1604..	●	●
	S50U-MTFNR/L16	63	50	35	350	8	TN..1604..	●	●

- 订货示例: 1件 S20R-MTFNR16
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC S20R-MTFNR16
- Insert should be ordered separately, please see page [F105-F114](#)

备件

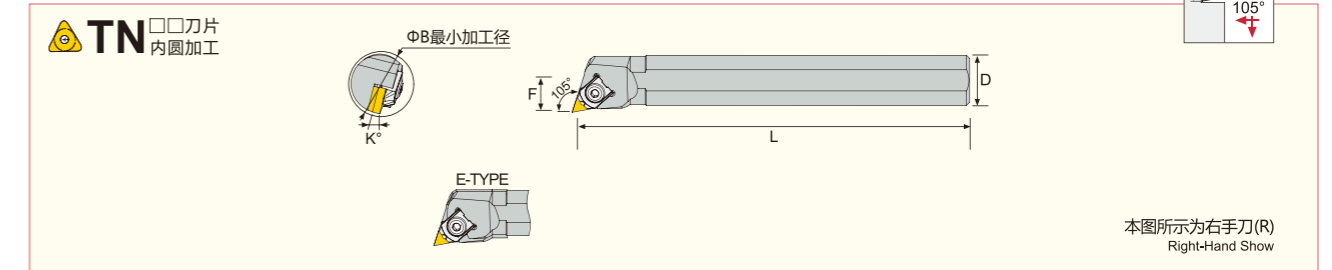
Spare Parts



规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	双头螺钉 Screw	L型扳手 Allen key
S20R-MTFNR/L16	-	LCS-510	CP50-21	CS70-20	LW020 LW025
S25R-MTFNR/L16	-	LCS-510	CP50-22	CS70-21	LW020 LW030
S32S-MTFNR/L16	SMC-322	LCS-513	CP50-22	CS70-21	LW020 LW030
S40T-MTFNR/L16	SMC-322	LCS-513	CP50-22	CS70-22	LW020 LW030
S50U-MTFNR/L16	SMC-322	LCS-513	CP50-22	CS70-22	LW020 LW030

BORING BAR SERIES 内孔车削刀具

ETQN 105°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在库 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S20R-ETQNR/L16	25	20	13	200	17	TN..1604..	●	●
	S25R-ETQNR/L16	32	25	17	200	12	TN..1604..	●	●
	S32S-ETQNR/L16	40	32	22	250	10	TN..1604..	●	●
	S40T-ETQNR/L16	50	40	27	300	10	TN..1604..	●	●
	S50U-ETQNR/L16	63	50	35	350	8	TN..1604..	●	●

- 订货示例: 1件 S20R-ETQNR16
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC S20R-ETQNR16
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts



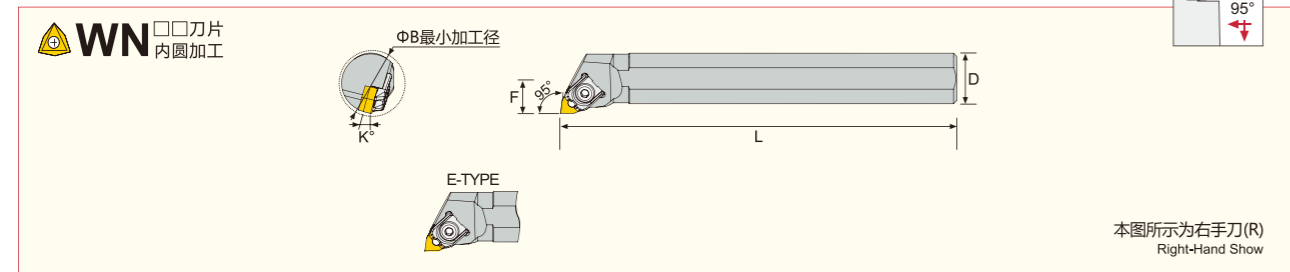
规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	螺钉 Screw	C扣环 Clasp	L型扳手 Allen key
S20R-ETQNR/L16	-	LT-2	TN16-2	CS60E	C-5	LW025 LW030
S25T-ETQNR/L16	-	LT-2	TN16-2	CS60E	C-5	LW025 LW030
S32S-ETQNR/L16	SMT-322	LT-4	TN16-3	CS80	C-6	LW025 LW040
S40T-ETQNR/L16	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040
S50U-ETQNR/L16	SMT-322	LT-3	TN16-3	CS80	C-6	LW025 LW040

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

EWLN 95°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在库 Stock		
		ΦB	D	F	L	K°		R	L	
钢 Steel	S20R-EWLNR/L06	25	20	13	200	17	WN..0604..	●	●	
	S25R-EWLNR/L06	32	25	17	200	14	WN..0604..	●	●	
	S25R-EWLNR/L08	32	25	17	200	14	WN..0804..	●	●	
	S25T-EWLNR/L08	32	25	17	300	14	WN..0804..	●	●	
	S32S-EWLNR/L08	40	32	22	250	14	WN..0804..	●	●	
	S32U-EWLNR/L08	40	32	22	350	14	WN..0804..	●	●	
	S40T-EWLNR/L08	50	40	27	300	12	WN..0804..	●	●	
	S40W-EWLNR/L08	50	40	27	450	12	WN..0804..	●	●	
	S50U-EWLNR/L08	63	50	35	350	12	WN..0804..	●	●	
S50Y-EWLNR/L08	63	50	35	500	12	WN..0804..	●	●		

- 订货示例: 1 件 S20R-EWLNR06
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC S20R-EWLNR06
- Insert should be ordered separately, please see page [F105-F114](#)

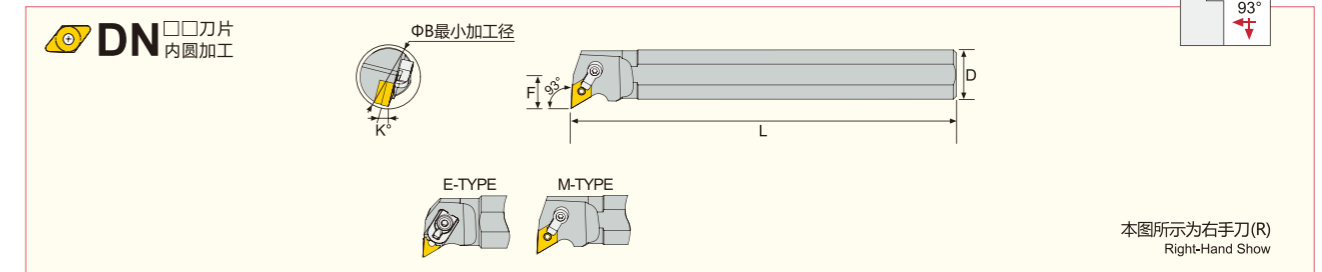
备件

Spare Parts

规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
S20R-EWLNR/L06	-	LT-2	WN06-2	CS60E	C-5	LW025 LW030
S25R-EWLNR/L06	-	LT-2	WN06-2	CS60E	C-5	LW025 LW030
S25R-EWLNR/L08	-	LW-3	WN08-3	CS60E	C-5	LW025 LW030
S25T-EWLNR/L08	-	LW-3	WN08-3	CS60E	C-5	LW025 LW030
S32S-EWLNR/L08	SMW-422	LW-4B	WN08-4	CS80	C-6	LW030 LW040
S32U-EWLNR/L08	SMW-422	LW-4B	WN08-4	CS80	C-6	LW030 LW040
S40T-EWLNR/L08	SMW-422	LW-4B	WN08-4	CS80	C-6	LW030 LW040
S40W-EWLNR/L08	SMW-422	LW-4B	WN08-4	CS80	C-6	LW030 LW040
S50U-EWLNR/L08	SMW-422	LW-4B	WN08-4	CS80	C-6	LW030 LW040
S50Y-EWLNR/L08	SMW-422	LW-4B	WN08-4	CS80	C-6	LW030 LW040

BORING BAR SERIES 内孔车削刀具

EDUN 93°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在库 Stock		
		ΦB	D	F	L	K°		R	L	
钢 Steel	S40T-EDUNR/L15	50	40	27	300	10	DN..1504..	●	●	
	S50U-EDUNR/L15	63	50	35	350	10	DN..1504..	●	●	
	S40T-EDUNR/L15A	50	40	27	300	10	DN..1506..	●	●	
	S50U-EDUNR/L15A	63	50	35	350	10	DN..1506..	●	●	

- 订货示例: 1 件 S40T-EDUNR15
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC S40T-EDUNR15
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
S40T-EDUNR/L15	SMD-463	LD-1	DN15	CS80	C-6	LW030 LW040
S50U-EDUNR/L15	SMD-463	LD-1	DN15	CS80	C-6	LW030 LW040
S40T-EDUNR/L15A	SMD-466	LW-4	DN15	CS80	C-6	LW030 LW040
S50U-EDUNR/L15A	SMD-466	LW-4	DN15	CS80	C-6	LW030 LW040

材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在库 Stock		
		ΦB	D	F	L	K°		R	L	
钢 Steel	S25R-MDUNR/L15	32	25	17	200	12	DN..1504..	●	●	
	S32S-MDUNR/L15	40	32	22	250	10	DN..1504..	●	●	

- 订货示例: 1 件 S25R-MDUNR15
- 刀片需单独订购, 请参照: [F105-F114 页](#)
- Ordering sample: 1 PC S25R-MDUNR15
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts

规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	双头螺钉 Screw	L 型扳手 Allen key
S25R-MDUNR/L15	-	LCS-511	CP50-24	CS70-21	LW025 LW030
S32S-MDUNR/L15	SMD-463	LCS-619	CP50-24	CS70-21	LW030

● 标准库存
Item in stock

○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

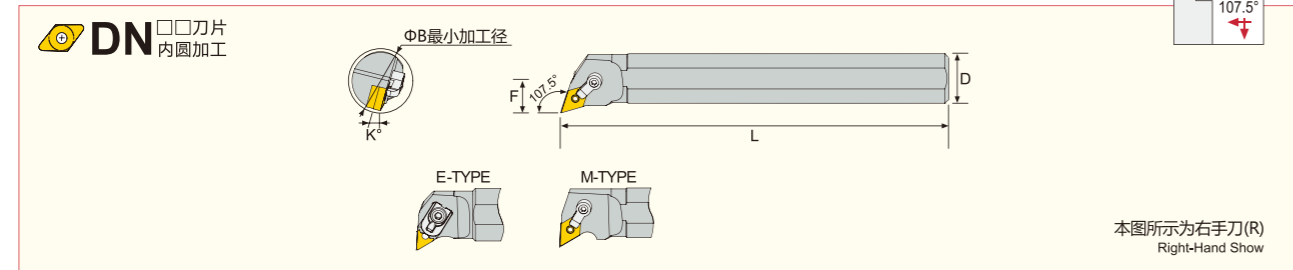
● 标准库存
Item in stock

○ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

EDQN 107.5°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions (mm)			刀片 Insert	在庫 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S40T-EDQNR/L15	50	40	27	300	10	DN..1504..	●	●
	S50Q-EDQNR/L15	63	50	35	350	10	DN..1504..	●	●
	S40T-EDQNR/L15A	50	40	27	300	10	DN..1506..	●	●
	S50U-EDQNR/L15A	63	50	35	350	10	DN..1506..	●	●

- 订货示例: 1 件 S40T-EDQNR15
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC S40T-EDQNR15
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts



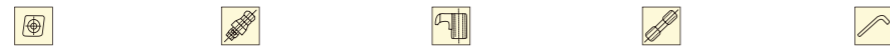
规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
S40T-EDQNR/L15	SMD-463	LD-1	DN15	CS80	C-6	LW030 LW040
S50U-EDQNR/L15	SMD-463	LD-1	DN15	CS80	C-6	LW030 LW040
S40T-EDQNR/L15A	SMD-466	LW-4	DN15	CS80	C-6	LW030 LW040
S50U-EDQNR/L15A	SMD-466	LW-4	DN15	CS80	C-6	LW030 LW040

材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions (mm)			刀片 Insert	在庫 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S25R-MDQNR/L15	32	25	17	200	12	DN..1504..	●	●
	S32S-MDQNR/L15	40	32	22	250	10	DN..1504..	●	●

- 订货示例: 1 件 S25R-MDQNR15
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC S25R-MDQNR15
- Insert should be ordered separately, please see page [F105-F114](#)

备件

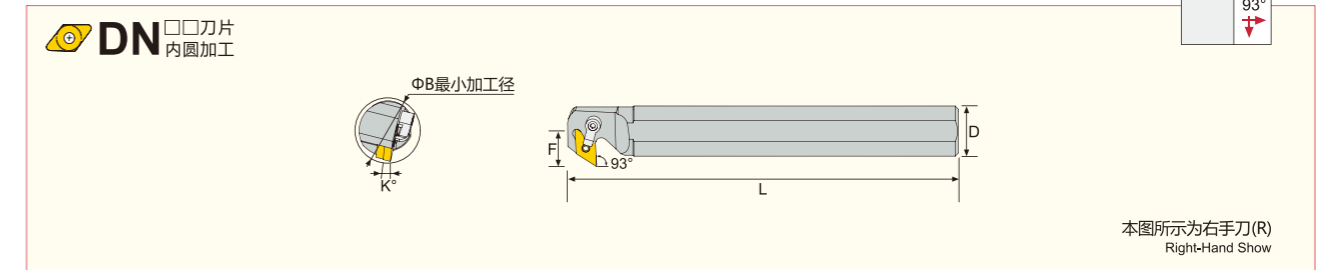
Spare Parts



规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	双头螺钉 Screw	L 型扳手 Allen key
S25R-MDQNR/L15	-	LCS-511	CP50-24	CS70-21	LW025 LW030
S32S-MDQNR/L15	SMD-463	LCS-619	CP50-24	CS70-21	LW030

BORING BAR SERIES 内孔车削刀具

MDZN 93°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions (mm)			刀片 Insert	在庫 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S32S-MDZNR/L15	40	32	23	250	17	DN..1504..	●	●
	S40T-MDZNR/L15	50	40	27	300	15	DN..1504..	●	●
	S50U-MDZNR/L15	63	50	35	350	12	DN..1504..	●	●

- 订货示例: 1 件 S32S-MDZNR15
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC S32S-MDZNR15
- Insert should be ordered separately, please see page [F105-F114](#)

备件

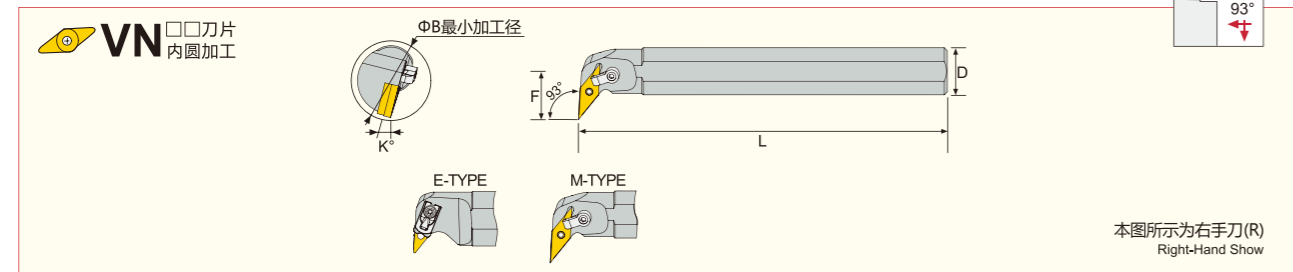
Spare Parts



规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	双头螺钉 Screw	L 型扳手 Allen key
S32S-MDZNR/L15	SMD-463	LCS-619	CP50-24	CS70-21	LW030
S40T-MDZNR/L15	SMD-463	LCS-619	CP50-24	CS70-22	LW030
S50U-MDZNR/L15	SMD-463	LCS-619	CP50-24	CS70-22	LW030

BORING BAR SERIES 内孔车削刀具

EVUN 93°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions (mm)			刀片 Insert	在库 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S40T-EVUNR/L16	50	40	26	300	15	VN..1604..	•	•
	S50U-EVUNR/L16	63	50	32	350	12	VN..1604..	•	•

- 订货示例: 1件 S40T-EVUNR16
- 刀片需单独订购, 请参照: F105-F114 页
- Ordering sample: 1 PC S40T-EVUNR16
- Insert should be ordered separately, please see page F105-F114

备件

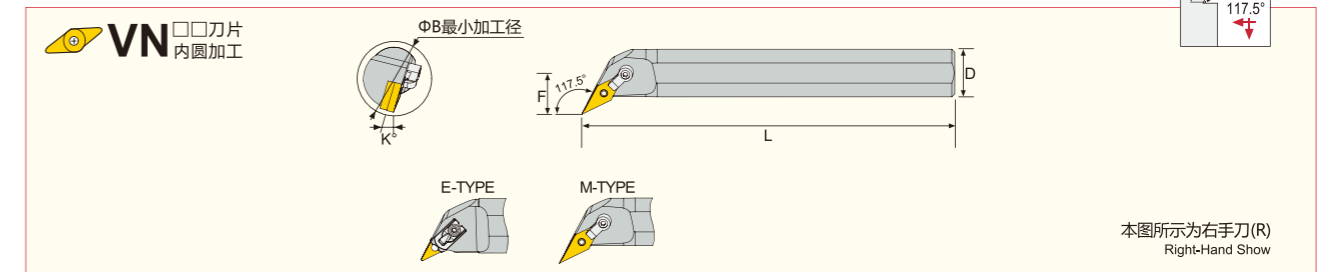
Spare Parts



规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
S40T-EVUNR/L16	SMV-322	LT-3	VN16	CS60E	C-5	LW025 LW030
S50U-EVUNR/L16	SMV-322	LT-3	VN16	CS60E	C-5	LW025 LW030

BORING BAR SERIES 内孔车削刀具

EVQN 117.5°



材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions (mm)			刀片 Insert	在库 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S40T-EVQNR/L16	50	40	26	300	15	VN..1604..	•	•
	S50U-EVQNR/L16	63	50	32	350	12	VN..1604..	•	•

- 订货示例: 1件 S40T-EVQNR16
- 刀片需单独订购, 请参照: F105-F114 页
- Ordering sample: 1 PC S40T-EVQNR16
- Insert should be ordered separately, please see page F105-F114

备件

Spare Parts



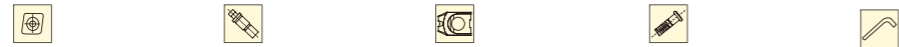
规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
S40T-EVQNR/L16	SMV-322	LT-3	VN16	CS60E	C-5	LW025 LW030
S50U-EVQNR/L16	SMV-322	LT-3	VN16	CS60E	C-5	LW025 LW030

材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions (mm)			刀片 Insert	在库 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S25R-MVUNR/L16	36	25	20	200	12	VN..1604..	•	•
	S32S-MVUNR/L16	42	32	22	250	17	VN..1604..	•	•

- 订货示例: 1件 S25R-MVUNR16
- 刀片需单独订购, 请参照: F105-F114 页
- Ordering sample: 1 PC S25R-MVUNR16
- Insert should be ordered separately, please see page F105-F114

备件

Spare Parts



规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	螺钉 Screw	L 型扳手 Allen key
S25R-MVUNR/L16	SMV-322	LCS-513	CP50-22	CS70-21	LW020 LW030
S32S-MVUNR/L16	SMV-322	LCS-513	CP50-22	CS70-21	LW020 LW030

材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions (mm)			刀片 Insert	在库 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S25R-MVQNR/L16	36	25	20	200	12	VN..1604..	•	•
	S32S-MVQNR/L16	42	32	22	250	17	VN..1604..	•	•

- 订货示例: 1件 S25R-MVQNR16
- 刀片需单独订购, 请参照: F105-F114 页
- Ordering sample: 1 PC S25R-MVQNR16
- Insert should be ordered separately, please see page F105-F114

备件

Spare Parts

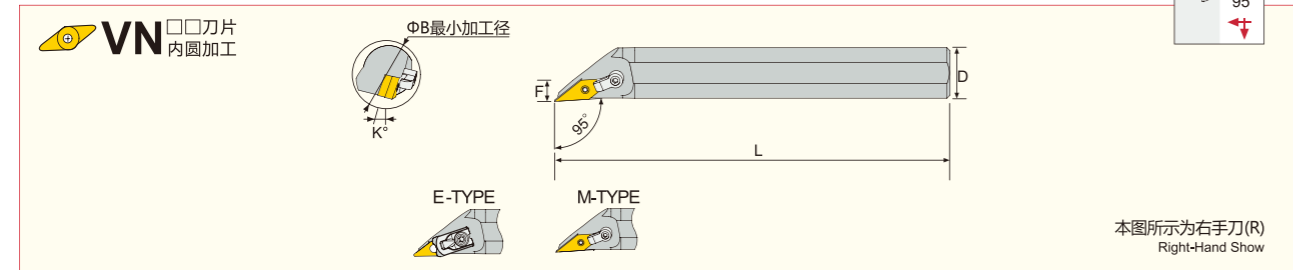


规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	双头螺钉 Screw	L 型扳手 Allen key
S25R-MVUNR/L16	SMV-322	LCS-513	CP50-22	CS70-21	LW020 LW030
S32S-MVUNR/L16	SMV-322	LCS-513	CP50-22	CS70-21	LW020 LW030

- 标准库存 Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

BORING BAR SERIES 内孔车削刀具

EVLN 95°

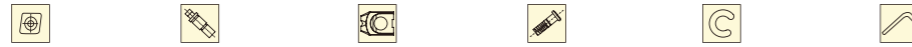


材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在库 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S40T-EVLNR/L16	50	40	26	300	15	VN..1604..	●	●
	S50U-EVLNR/L16	63	50	32	350	12	VN..1604..	●	●

- 订货示例: 1 件 S40T-EVLNR16
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC S40T-EVLNR16
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts



规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	螺钉 Screw	C 扣环 Clasp	L 型扳手 Allen key
S40T-EVLNR/L16	SMV-322	LT-3	VN16	CS60E	C-5	LW025 LW030
S50U-EVLNR/L16	SMV-322	LT-3	VN16	CS60E	C-5	LW025 LW030

材质 Material	规格型号 Designation	加工孔径 Min. Bore Dia.		尺寸 Dimensions(mm)			刀片 Insert	在库 Stock	
		ΦB	D	F	L	K°		R	L
钢 Steel	S25R-MVLNR/L16	36	25	20	200	12	VN..1604..	●	●
	S32S-MVLNR/L16	42	32	22	250	17	VN..1604..	●	●

- 订货示例: 1 件 S25R-MVLNR16
- 刀片需单独订购, 请参照: [F105-F114](#) 页
- Ordering sample: 1 PC S25R-MVLNR16
- Insert should be ordered separately, please see page [F105-F114](#)

备件

Spare Parts



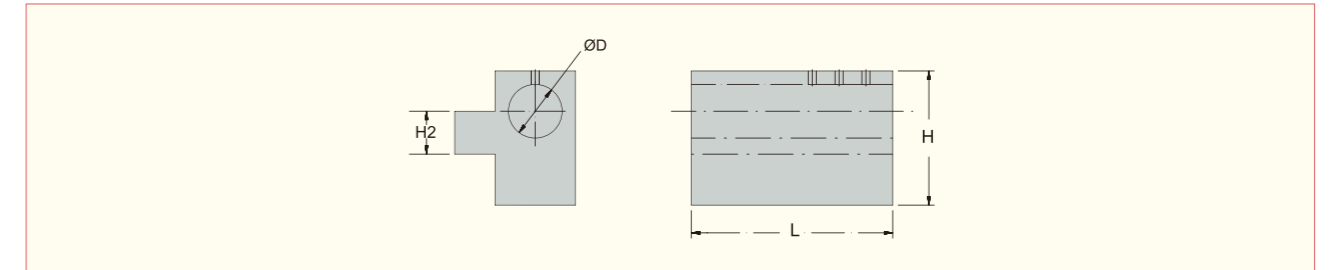
规格型号 Designation	垫片 Shim	中心销 Centre pin	压板 Clamp	双头螺钉 Screw	L 型扳手 Allen key
S25R-MVLNR/L16	SMV-322	LCS-513	CP50-24	CS70-21	LW020 LW030
S32S-MVLNR/L16	SMV-322	LCS-513	CP50-24	CS70-21	LW020 LW030

BORING BAR SERIES 内孔车削刀具

内孔车刀定位座

Center Block Tool Holder

ETHR



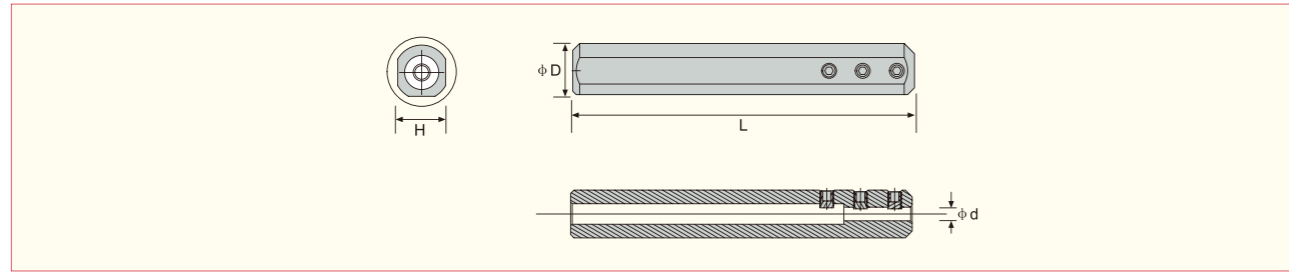
规格型号 Designation	尺寸 Dimensions(mm)				在库 Stock
	D	L	H	H2	
ETHR2032	32	80	64	20	●
ETHR2532	32	80	64	25	●
ETHR2540	40	90	76	25	●
ETHR3240	40	90	76	32	●
ETHR2040	40	90	76	20	●

- 订货示例: 1 件 ETHR2032
- Ordering sample: 1 PC ETHR2032

SLEEVE 套筒

套筒
Sleeve

SHB



材质 Material	规格型号 Designation	尺寸 Dimensions(mm)				适用刀具 Adapted tools	在库 Stock
		ΦD	Φd	L	H		
钢 Steel	SHB-0416	16	4	100	15	C04	●
	SHB-0516	16	5	100	15	C05	●
	SHB-0616	16	6	100	15	C06	●
	SHB-0816	16	8	100	15	C08/S08	●
	SHB-1016	16	10	100	15	C10/S10	●
	SHB-0420	20	4	100	19	C04	●
	SHB-0520	20	5	100	19	C05	●
	SHB-0620	20	6	100	19	C06	●
	SHB-0820	20	8	100	19	C08/S08	●
	SHB-1020	20	10	100	19	C10/S10	●
	SHB-1220	20	12	100	19	C12/S12	●
	SHB-0422	22	4	100	21	C04	●
	SHB-0522	22	5	100	21	C05	●
	SHB-0622	22	6	100	21	C06	●
	SHB-0822	22	8	100	21	C08/S08	●
	SHB-1022	22	10	100	21	C10/S10	●
	SHB-1222	22	12	100	21	C12/S12	●
	SHB-1622	22	16	100	21	C16/S16	●

● 订货示例: 1 件 SHB-0416
● Ordering sample: 1 PC SHB-0416

备件

Spare Parts



规格型号 Designation	螺钉 Screw	L 型扳手 Allen key
SHB-0416	ES404	LW020
SHB-0516	ES404	LW020
SHB-0616	ES404	LW020
SHB-0816	ES606	LW020
SHB-1016	ES606	LW020
SHB-0420	ES404	LW020
SHB-0520	ES406	LW020
SHB-0620	ES406	LW020
SHB-0820	ES606	LW030
SHB-1020	ES606	LW030
SHB-1220	ES606	LW030
SHB-0422	ES406	LW020
SHB-0522	ES404	LW020
SHB-0622	ES406	LW020
SHB-0822	ES606	LW030
SHB-1022	ES606	LW030
SHB-1222	ES606	LW030
SHB-1622	ES606	LW030

● 标准库存
Item in stock

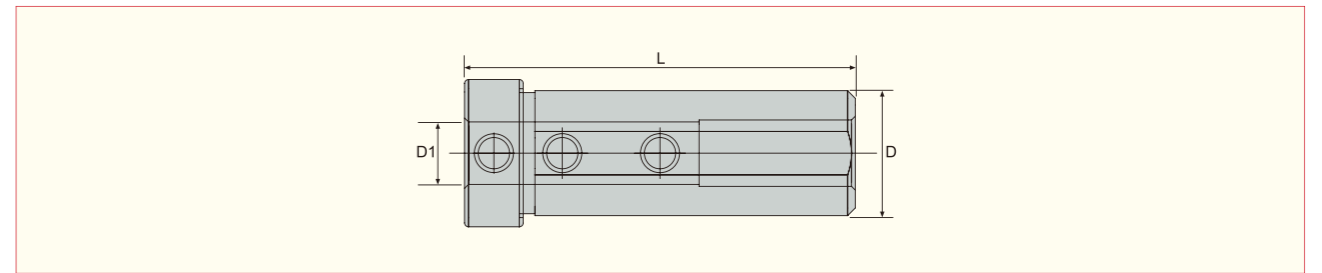
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Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

SLEEVE 套筒

套筒
Sleeve

EHR



材质 Material	规格型号 Designation	尺寸 Dimensions(mm)			在库 Stock
		D1	D	L	
钢 Steel	EHR-0625	6	25	64	●
	EHR-0825	8	25	64	●
	EHR-1025	10	25	64	●
	EHR-1225	12	25	64	●
	EHR-1625	16	25	64	●
	EHR-2025	20	25	64	●
	EHR-0632	6	32	100	●
	EHR-0832	8	32	100	●
	EHR-1032	10	32	100	●
	EHR-1232	12	32	100	●
	EHR-1632	16	32	100	●
	EHR-2032	20	32	100	●
	EHR-2532	25	32	100	●
	EHR-0640	6	40	100	●
	EHR-0840	8	40	100	●
	EHR-1040	10	40	100	●
	EHR-1240	12	40	100	●
	EHR-1440	14	40	100	●
	EHR-1640	16	40	100	●
	EHR-2040	20	40	100	●
	EHR-2540	25	40	100	●
	EHR-3240	32	40	100	●
	EHR-0650	6	50	100	●
	EHR-0850	8	50	100	●
	EHR-1050	10	50	100	●
	EHR-1250	12	50	100	●
	EHR-1650	16	50	100	●
	EHR-2050	20	50	100	●
	EHR-2550	25	50	100	●
	EHR-3250	32	50	100	●
	EHR-4050	40	50	100	●

● 订货示例: 1 件 EHR-0625
● Ordering sample: 1 PC EHR-0625

备件

Spare Parts



规格型号 Designation	螺钉 Screw
EHR-0625	ES606
EHR-0825	ES606
EHR-1025	ES606
EHR-1225	ES606
EHR-1625	-
EHR-2025	-
EHR-0632	ES610
EHR-0832	ES610
EHR-1032	ES810
EHR-1232	ES810
EHR-1632	ES806
EHR-2032	ES810
EHR-2532	ES806
EHR-0640	ES610
EHR-0840	ES610
EHR-1040	ES810



规格型号 Designation	螺钉 Screw
EHR-1240	ES810
EHR-1440	ES810
EHR-1640	ES810
EHR-2040	ES810
EHR-2540	ES806
EHR-3240	ES610
EHR-0650	ES810
EHR-0850	ES810
EHR-1050	ES810
EHR-1250	ES810
EHR-1650	ES810
EHR-2050	ES810
EHR-2550	ES810
EHR-3250	ES808
EHR-4050	ES808

● 标准库存
Item in stock

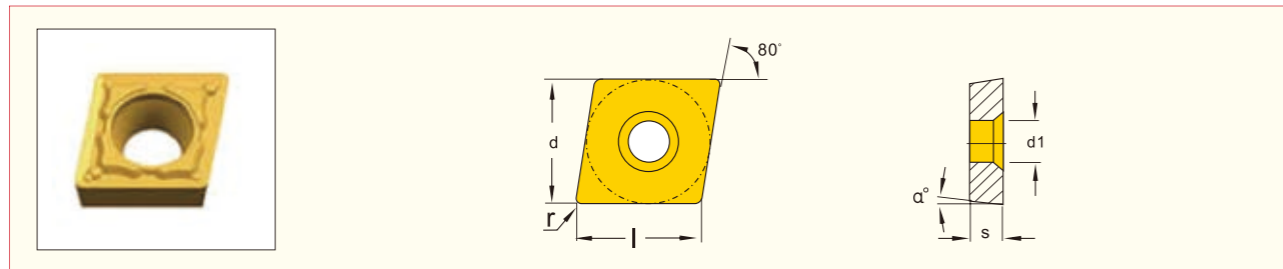
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Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INSERTS FOR TURNING 车削刀片

CC 型刀片

CC..

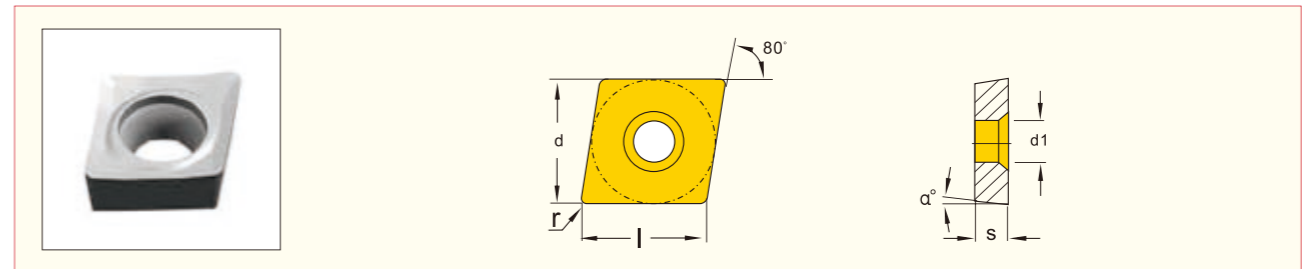


规格型号 Designation	尺寸 Size				加工材质 Material					切削参数推荐 Cutting parameter			
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
CCMT 060204-F2P 1115	6.5	6.35	2.38	0.4	•						150-300	0.20-1.50	0.03-0.20
CCMT 060204-M2P 1115	6.5	6.35	2.38	0.4	•						150-300	0.50-2.50	0.08-0.30
CCMT 060204-M2M 1220	6.5	6.35	2.38	0.4		•					80-180	0.50-2.50	0.08-0.30
CCMT 060204-M2K 1115	6.5	6.35	2.38	0.4		•					200-350	0.50-2.50	0.08-0.30
CCMT 060204-F2S 1215	6.5	6.35	2.38	0.4					•		40-70	0.20-1.50	0.03-0.20
CCMT 060208-M2P 1125	6.5	6.35	2.38	0.8	•						120-280	0.50-2.50	0.08-0.30
CCMT 060208-M2K 1115	6.5	6.35	2.38	0.8		•					200-350	0.50-2.50	0.08-0.30
CCMT 09T304-F2P 1115	9.7	9.525	3.97	0.4	•						150-300	0.20-1.50	0.03-0.20
CCMT 09T304-M2P 1125	9.7	9.525	3.97	0.4	•						180-280	0.50-2.50	0.08-0.30
CCMT 09T304-M2M 1220	9.7	9.525	3.97	0.4		•					120-250	0.50-2.50	0.08-0.30
CCMT 09T304-M2K 1115	9.7	9.525	3.97	0.4		•					200-350	0.50-2.50	0.08-0.30
CCMT 09T304-F2S 1215	9.7	9.525	3.97	0.4					•		40-70	0.20-1.50	0.03-0.20
CCMT 09T308-R1P 1125	9.7	9.525	3.97	0.8	•						120-280	1.00-3.50	0.15-0.40
CCMT 09T308-M2M 1220	9.7	9.525	3.97	0.8		•					80-180	0.50-2.50	0.08-0.30
CCMT 09T308-M2K 1115	9.7	9.525	3.97	0.8		•					200-350	0.50-2.50	0.08-0.30
CCMT 120404-M2P 1125	12.9	12.7	4.76	0.4	•						120-280	0.50-2.50	0.08-0.30
CCMT 120404-M2M 1220	12.9	12.7	4.76	0.4		•					200-300	0.50-2.50	0.08-0.30
CCMT 120404-M2K 1115	12.9	12.7	4.76	0.4		•					200-350	0.50-2.50	0.08-0.30
CCMT 120408-M2P 1125	12.9	12.7	4.76	0.8	•						120-280	0.50-2.50	0.08-0.30
CCMT 120408-R1P 1125	12.9	12.7	4.76	0.8	•						120-280	1.00-3.50	0.15-0.40
CCMT 120408-M2M 1220	12.9	12.7	4.76	0.8		•					120-250	0.50-3.00	0.08-0.30
CCMT 120408-M2K 1115	12.9	12.7	4.76	0.8		•					200-350	0.50-3.00	0.08-0.30

INSERTS FOR TURNING 车削刀片

CC 型刀片

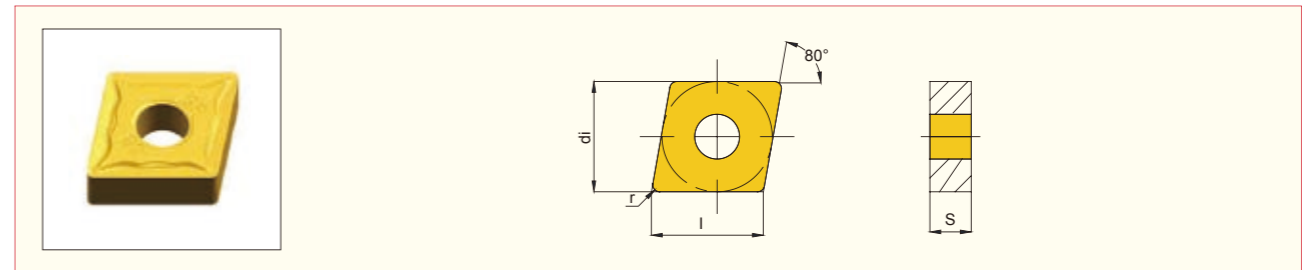
CC..



规格型号 Designation	尺寸 Size				加工材质 Material					切削参数推荐 Cutting parameter			
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
CCGT 060204-F4N 1015	6.5	6.35	2.38	0.4				•			300-1000	0.50-2.00	0.10-0.25
CCGT 060204-F5N 1010	6.5	6.35	2.38	0.4				•			300-1000	0.50-2.00	0.10-0.25
CCGT 09T304-F4N 1015	9.7	9.525	3.97	0.4				•			300-1000	0.50-3.00	0.10-0.25
CCGT 09T304-F5N 1010	9.7	9.525	3.97	0.4				•			300-1000	0.50-3.00	0.10-0.25
CCGT 09T308-F4N 1015	9.7	9.525	3.97	0.8				•			300-1000	0.80-3.50	0.10-0.30
CCGT 09T308-F5N 1010	9.7	9.525	3.97	0.8				•			300-1000	0.80-3.50	0.10-0.30
CCGT 120404-F4N 1015	12.9	12.7	4.76	0.4				•			300-1000	0.50-3.00	0.10-0.25
CCGT 120408-F5N 1010	12.9	12.7	4.76	0.8				•			300-1000	0.50-3.00	0.10-0.25
CCGT 120408-F4N 1015	12.9	12.7	4.76	0.8				•			300-1000	0.80-4.00	0.10-0.30

CN 型刀片

CN..



规格型号 Designation	尺寸 Size				加工材质 Material					切削参数推荐 Cutting parameter			
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
CNMG 120404-M6P 1105	12.9	12.7	4.76	0.4	•						150-380	0.50-3.50	0.15-0.40
CNMG 120404-M6P 1115	12.9	12.7	4.76	0.4	•						150-350	0.30-2.00	0.08-0.30
CNMG 120404-F1P 1115	12.9	12.7	4.76	0.4	•						150-380	0.50-3.00	0.15-0.30
CNMG 120404-M1M 1125	12.9	12.7	4.76	0.4		•					120-250	0.50-3.50	0.15-0.40
CNMG 120404-M4K 1115	12.9	12.7	4.76	0.4			•				150-350	0.50-3.50	0.1-0.40
CNMG 120404-F3S 1215	12.9	12.7	4.76	0.4		•			•		40-70	0.50-2.00	0.05-0.30
CNMG 120408-M6P 1115	12.9	12.7	4.76	0.8	•						150-380	1.20-3.50	0.15-0.35
CNMG 120408-R2P 2125	12.9	12.7	4.76	0.8	•						120-280	1.20-3.50	0.15-0.35
CNMG 120408-M1M 1225	12.9	12.7	4.76	0.8		•					80-180	1.00-4.00	0.15-0.40
CNMG 120408-M1M 1115	12.9	12.7	4.76	0.8		•					120-280	1.00-4.00	0.15-0.40
CNMG 120408-M4K 1115	12.9	12.7	4.76	0.8		•					150-350	0.50-3.50	0.1-0.40
CNMG 120408-F3S 1215	12.9	12.7	4.76	0.8		•			•		40-70	0.50-2.00	0.05-0.30
CNMG 120412-R2P 1125	12.9	12.7	4.76	1.2	•						120-280	2.00-6.50	0.25-0.60
CNMG 160608-M6P 2125	16.1	15.875	6.35	0.8	•						152-280	1.20-3.50	0.15-0.35
CNMG 160612-R2P 2125	16.1	15.875	6.35	1.2	•						120-280	2.00-6.50	0.25-0.60

● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

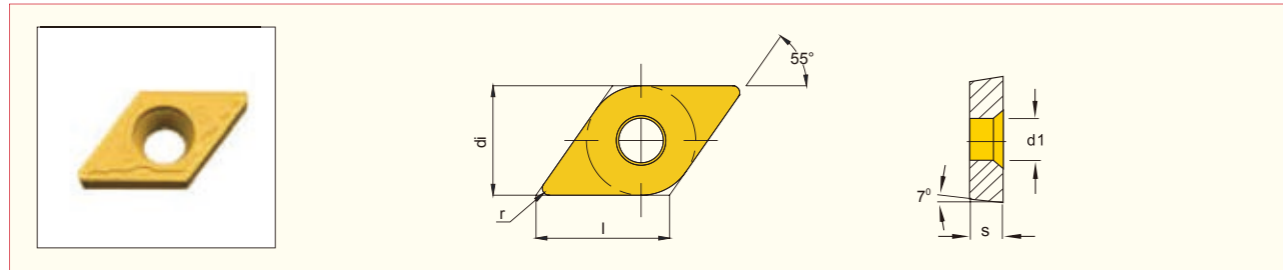
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Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INSERTS FOR TURNING 车削刀片

DC 型刀片

DC..

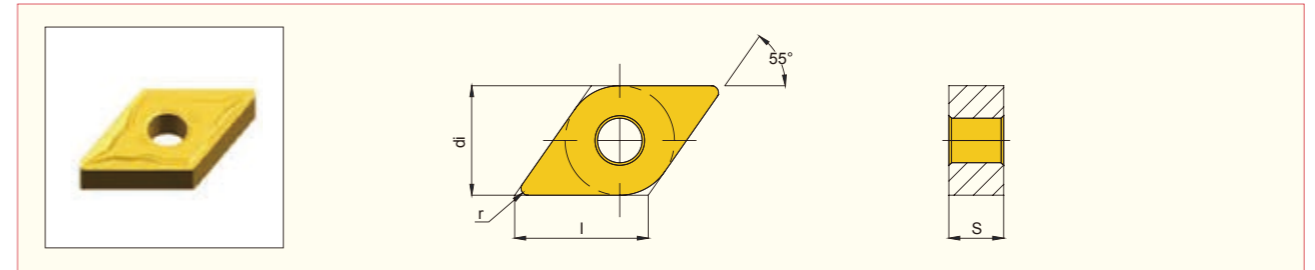


规格型号 Designation	尺寸 Size				加工材质 Material					切削参数推荐 Cutting parameter			
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
DCMT 070204-F2P 1115	7.8	6.35	2.38	0.4	•						150-360	0.30-1.50	0.05-0.20
DCMT 070204-F2M 1115	7.8	6.35	2.38	0.4		•					200-300	0.30-1.50	0.05-0.20
DCMT 11T304-F2P 2125	11.6	9.525	3.97	0.4	•						150-360	0.50-2.50	0.08-0.30
DCMT 11T304-M2M 1115	11.6	9.525	3.97	0.4		•					200-300	0.50-2.50	0.08-0.30
DCMT 11T304-M2K 1115	11.6	9.525	3.97	0.4			•				150-350	0.50-2.50	0.08-0.30
DCMT 11T308-M2P 1115	11.6	9.525	3.97	0.8	•						150-360	0.50-2.50	0.08-0.30
DCMT 11T308-M2M 1115	11.6	9.525	3.97	0.8		•					200-300	0.50-2.50	0.08-0.30

INSERTS FOR TURNING 车削刀片

DN 型刀片

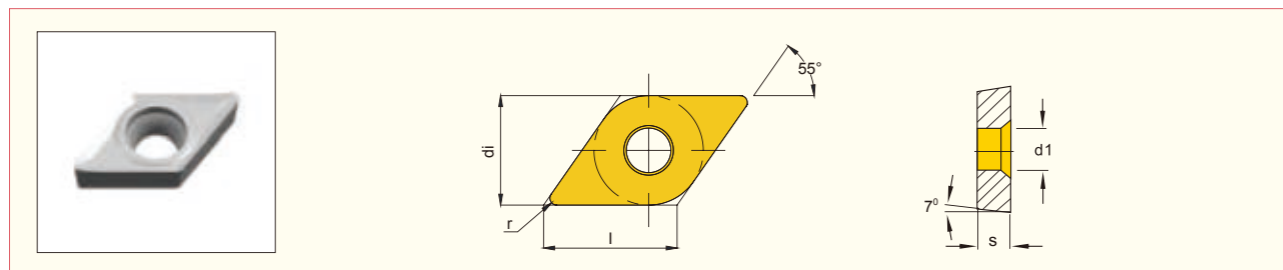
DN..



规格型号 Designation	尺寸 Size				加工材质 Material					切削参数推荐 Cutting parameter			
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
DNMG 110404-M6P 2125	11.6	9.525	4.76	0.4	•						120-280	0.40-2.00	0.08-0.35
DNMG 110404-M1M 1115	11.6	9.525	4.76	0.4		•					120-280	0.50-3.50	0.15-0.40
DNMG 110404-F3S 1215	11.6	9.525	4.76	0.4				•			40-70	0.50-1.20	0.05-0.15
DNMG 150604-F1P 1115	15.5	12.7	6.35	0.4	•						150-350	0.40-2.00	0.08-0.35
DNMG 150604-M6P 1105	15.5	12.7	6.35	0.4		•					150-380	1.00-4.00	0.15-0.40
DNMG 150604-M3M 1125	15.5	12.7	6.35	0.4			•				120-250	0.50-3.50	0.15-0.40
DNMG 150608-M6P 1105	15.5	12.7	6.35	0.8	•						120-280	1.00-4.00	0.15-0.40
DNMG 150608-M3M 1225	15.5	12.7	6.35	0.8			•				80-180	1.00-4.00	0.15-0.40
DNMG 150608-M4K 1115	15.5	12.7	6.35	0.8				•			150-350	0.50-3.50	0.10-0.40
DNMG 150404-F1P 1115	15.5	12.7	4.76	0.4	•						150-350	0.40-2.00	0.08-0.35
DNMG 150404-M3M 1225	15.5	12.7	4.76	0.4			•				80-180	1.00-4.00	0.15-0.40
DNMG 150408-M6P 1115	15.5	12.7	4.76	0.8	•						150-350	1.00-4.00	0.15-0.40
DNMG 150408-M1M 1225	15.5	12.7	4.76	0.8		•					80-180	1.00-4.00	0.15-0.40

DC 型刀片

DC..



规格型号 Designation	尺寸 Size				加工材质 Material					切削参数推荐 Cutting parameter			
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
DCGT 070204-F4N 1020	7.8	6.35	2.38	0.4				•			300-1000	0.50-2.50	0.05-0.40
DCGT 11T304-F4N 1015	11.6	9.525	3.97	0.8				•			300-1000	0.50-3.50	0.05-0.50

● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

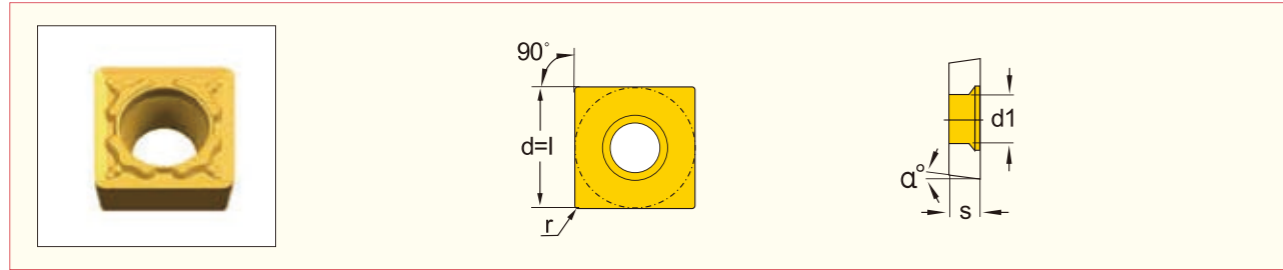
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Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INSERTS FOR TURNING 车削刀片

SC 型刀片

SC..

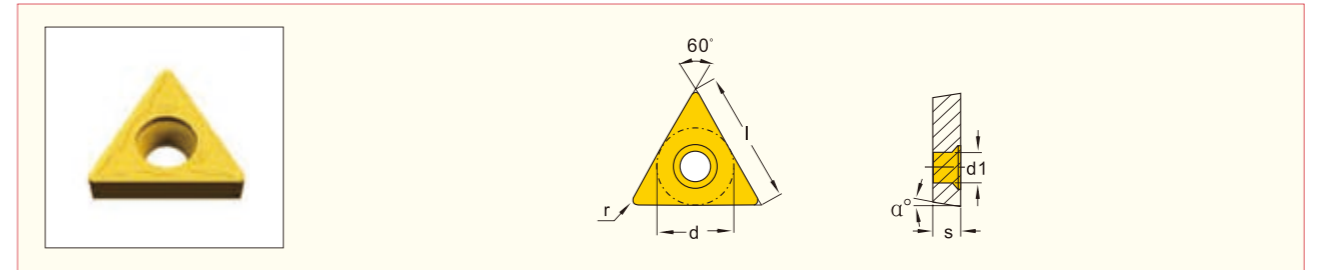


规格型号 Designation	尺寸 Size				加工材质 Material					切削参数推荐 Cutting parameter			
	L	D	S	R	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
SCMT 09T304-M2P 1125	9.525	9.525	3.97	0.4	•						120-280	0.40-2.40	0.08-0.30
SCMT 09T304-M2M 1115	9.525	9.525	3.97	0.4		•					200-300	0.40-2.40	0.08-0.30
SCMT 09T304-M2K 1115	9.525	9.525	3.97	0.4			•				200-300	0.40-2.40	0.08-0.30
SCMT 09T308-M2P 1125	9.525	9.525	3.97	0.8	•						120-280	0.50-2.50	0.10-0.30
SCMT 09T308-M2M 1125	9.525	9.525	3.97	0.8		•					180-280	0.50-2.50	0.10-0.30
SCMT 09T308-M2K 1115	9.525	9.525	3.97	0.8			•				200-300	0.50-2.50	0.10-0.30

INSERTS FOR TURNING 车削刀片

TC 型刀片

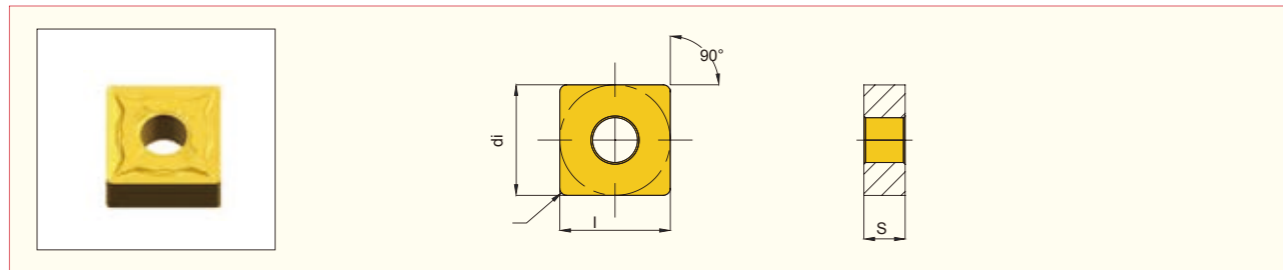
TC..



规格型号 Designation	尺寸 Size				加工材质 ⁴ Material					切削参数推荐 Cutting parameter			
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
TCMT 110204-M2P 1115	11	6.35	2.38	0.4	•						120-300	0.50-2.50	0.08-0.30
TCMT 110204-F2M 1225	11	6.35	2.38	0.4		•					100-220	0.20-1.50	0.03-0.20
TCMT 110204-F2K 1115	11	6.35	2.38	0.4			•				150-350	0.50-2.50	0.08-0.30
TCMT 16T304-M2P 1125	16.5	9.525	3.97	0.4	•						120-280	0.50-2.50	0.08-0.30
TCMT 16T304-M2M 1215	16.5	9.525	3.97	0.4		•					120-300	0.50-2.50	0.08-0.30
TCMT 16T304-M2K 1115	16.5	9.525	3.97	0.4			•				150-350	0.50-2.50	0.08-0.30
TCMT 16T308-M2P 1125	16.5	9.525	3.97	0.8	•						120-280	0.50-2.50	0.10-0.30
TCMT 16T308-M2M 1225	16.5	9.525	3.97	0.8		•					120-280	0.50-2.50	0.10-0.30
TCMT 16T308-M2K 1115	16.5	9.525	3.97	0.8			•				150-350	0.50-2.50	0.10-0.30

SN 型刀片

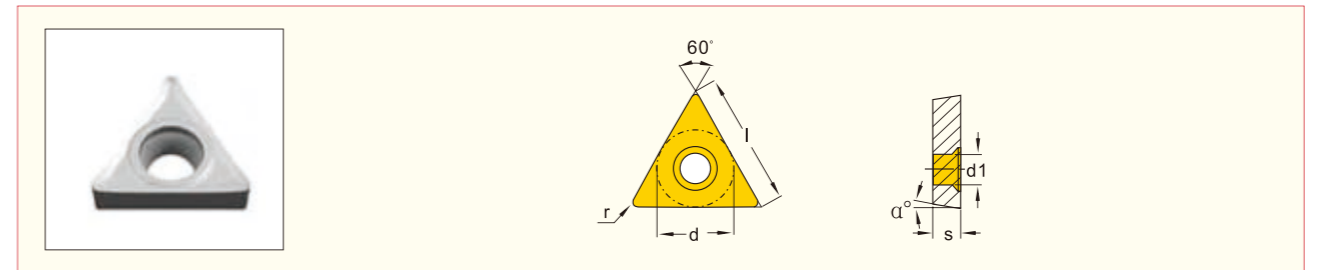
SN..



规格型号 Designation	尺寸 Size				加工材质 Material					切削参数推荐 Cutting parameter			
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
SNMG 120404-F1P 1115	12.7	12.7	4.76	0.4	•						150-350	0.40-2.00	0.08-0.35
SNMG 120404-M1M 1125	12.7	12.7	4.76	0.4		•					120-250	0.50-3.50	0.15-0.40
SNMG 120408-M6P 2125	12.7	12.7	4.76	0.8	•						120-280	0.50-3.50	0.15-0.40
SNMG 120408-M3M 1225	12.7	12.7	4.76	0.8		•					80-180	0.50-3.50	0.15-0.40
SNMG 120408-M4K 1115	12.7	12.7	4.76	0.8			•				150-350	0.50-3.50	0.10-0.40

TC 型刀片

TC..



规格型号 Designation	尺寸 Size				加工材质 Material					切削参数推荐 Cutting parameter			
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
TCGT 110204-F4N 1025	11	6.35	2.38	0.4			•				300-1000	0.20-3.00	0.05-0.30
TCGT 110204-F5N 1010	11	6.35	2.38	0.4			•				300-1000	0.20-3.00	0.05-0.30
TCGT 110208-F5N 1010	11	6.35	2.38	0.8			•				300-1000	0.20-3.00	0.05-0.30
TCGT 16T304-F5N 1010	16.5	9.525	3.97	0.4			•				300-1000	0.50-3.00	0.10-0.30
TCGT 16T304-F4N 1015	16.5	9.525	3.97	0.4			•				300-1000	0.50-3.00	0.10-0.30
TCGT 16T308-F5N 1010	16.5	9.525	3.97	0.8			•				300-1000	0.50-3.00	0.10-0.30

● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

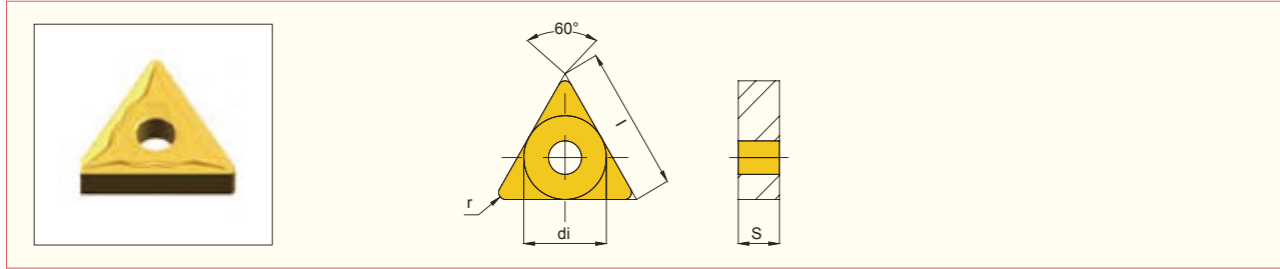
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Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INSERTS FOR TURNING 车削刀片

TN 型刀片

TN..

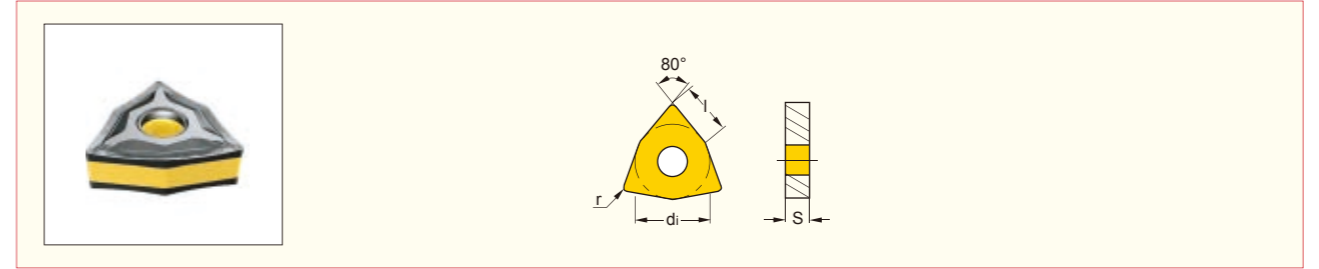


规格型号 Designation	尺寸 Size				加工材质 Material						切削参数推荐 Cutting parameter		
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
TNMG 160404-F3P 1115	16.5	9.525	4.76	0.4	•						150-350	0.40-2.00	0.08-0.35
TNMG 160404-M3M 1125	16.5	9.525	4.76	0.4		•					120-250	0.50-3.50	0.15-0.40
TNMG 160404-M4K 1115	16.5	9.525	4.76	0.4			•				150-350	0.50-3.50	0.10-0.40
TNMG 160408-M5P 1115	16.5	9.525	4.76	0.8	•						150-350	1.00-4.00	0.15-0.40
TNMG 160408-R2P 1125	16.5	9.525	4.76	0.8		•					120-280	2.00-6.00	0.25-0.60
TNMG 160408-M1M 1225	16.5	9.525	4.76	0.8			•				120-250	1.00-4.00	0.15-0.40
TNMG 160408-M4K 1115	16.5	9.525	4.76				•				150-350	0.50-3.50	0.10-0.40

INSERTS FOR TURNING 车削刀片

WN 型刀片

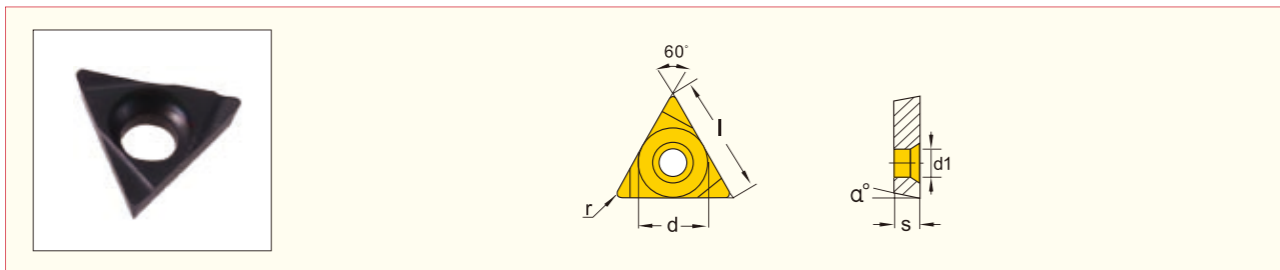
WN..



规格型号 Designation	尺寸 Size				加工材质 Material						切削参数推荐 Cutting parameter		
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
WNMG 080404-F1P 1115	8.7	5.16	4.76	0.4	•						150-360	0.30-2.00	0.08-0.35
WNMG 080404-F3S 1215	8.7	5.16	4.76	0.4		•					40-70	0.50-1.20	0.05-0.15
WNMG 080404-M4K 1115	8.7	5.16	4.76	0.4			•				150-350	0.50-3.50	0.10-0.40
WNMG 080408-R2P 2125	8.7	5.16	4.76	0.8	•						120-280	2.00-6.50	0.25-0.60
WNMG 080408-M1M 1225	8.7	5.16	4.76	0.8			•				80-200	0.80-3.50	0.08-0.40
WNMG 080408-M4K 1115	8.7	5.16	4.76	0.8			•				150-350	0.50-3.50	0.10-0.40

TP 型刀片

TP..

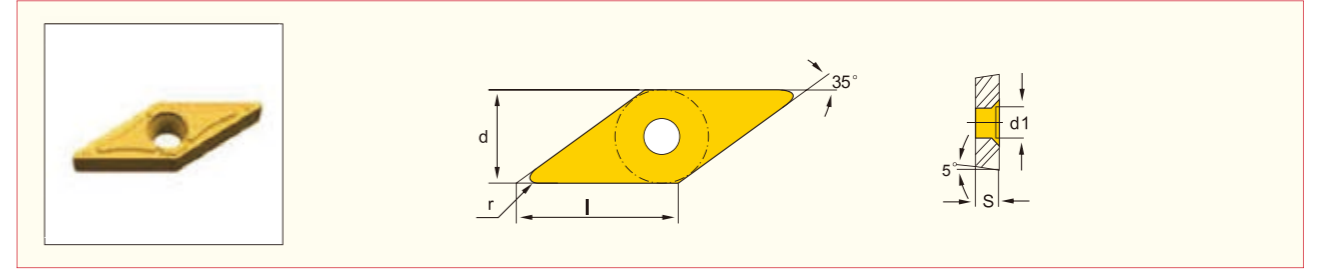


规格型号 Designation	尺寸 Size				加工材质 Material						切削参数推荐 Cutting parameter		
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
TPGX 090202-F6G 1310	9.6	5.56	2.38	0.2	•						120-300	1.00-2.00	0.05-0.12
TPGX 090202-F5S 2125	9.6	5.56	2.38	0.2	•	•					90-300	1.00-2.00	0.05-0.12
TPGX 090204-F6G 1310	9.6	5.56	2.38	0.4	•						120-300	1.00-2.50	0.08-0.15
TPGX 090204-F5K 1115	9.6	5.56	2.38	0.4			•				120-300	1.00-2.50	0.08-0.15
TPGX 090204-F5S 2125	9.6	5.56	2.38	0.4	•	•					120-300	1.00-2.50	0.08-0.15
TPGX 090204-F1N 1010	9.6	5.56	2.38	0.4				•			300-1000	1.00-3.00	0.08-0.15
TPGX 110302-F6G 1310	11	6.35	3.18	0.2	•						120-300	1.00-2.00	0.05-0.12
TPGX 110302-F5S 2125	11	6.35	3.18	0.2	•	•					120-300	1.00-2.00	0.05-0.12
TPGX 110304-F6G 1310	11	6.35	3.18	0.4	•						120-300	1.00-3.00	0.08-0.15
TPGX 110304-F5K 1115	11	6.35	3.18	0.4			•				120-300	1.00-2.00	0.08-0.15
TPGX 110304-F5S 2125	11	6.35	3.18	0.4	•	•					120-300	1.00-3.00	0.08-0.15
TPGX 110304-F1N 1010	11	6.35	3.18	0.4				•			300-1000	1.00-3.00	0.08-0.15
TPGX 090204-C1 CD05 ①	9.6	5.56	2.38	0.4				•			600-2000	1.00-2.50	0.05-0.25
TPGX 110304-C1 CD05 ①	11	6.35	3.18	0.4				•			600-2500	1.00-3.00	0.05-0.30
TPGX 090204-C1 CB05 ②	9.6	5.56	2.38	0.4			•				150-400	1.00-2.50	0.05-0.25
TPGX 110304-C1 CB05 ②	11	6.35	3.18	0.4			•				150-400	1.00-3.00	0.05-0.30

- 带①为 PCD 刀片
- 带②为 CBN 刀片

VB 型刀片

VB..



规格型号 Designation	尺寸 Size				加工材质 Material						切削参数推荐 Cutting parameter		
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
VBMT 160404-F2P 2125	16.6	9.525	4.76	0.4	•						120-280	0.40-1.50	0.05-0.20
VBMT 160404-F2M 1225	16.6	9.525	4.76	0.4		•					120-280	0.40-1.50	0.05-0.20

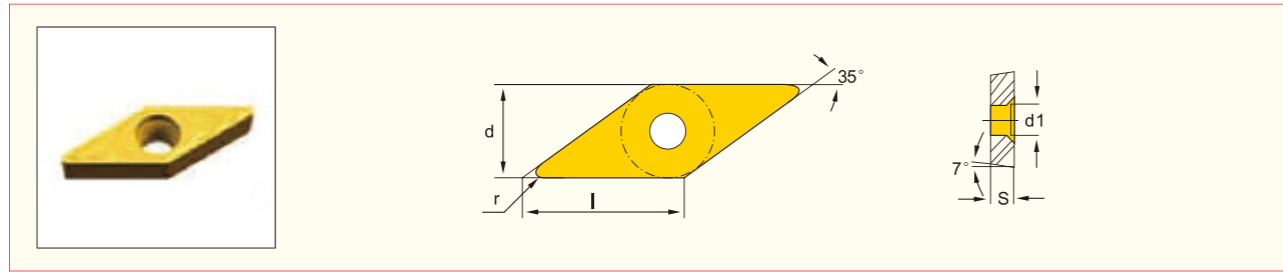
- 标准库存 Item in stock
- 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

- 标准库存 Item in stock
- 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

INSERTS FOR TURNING 车削刀片

VC 型刀片

VC..

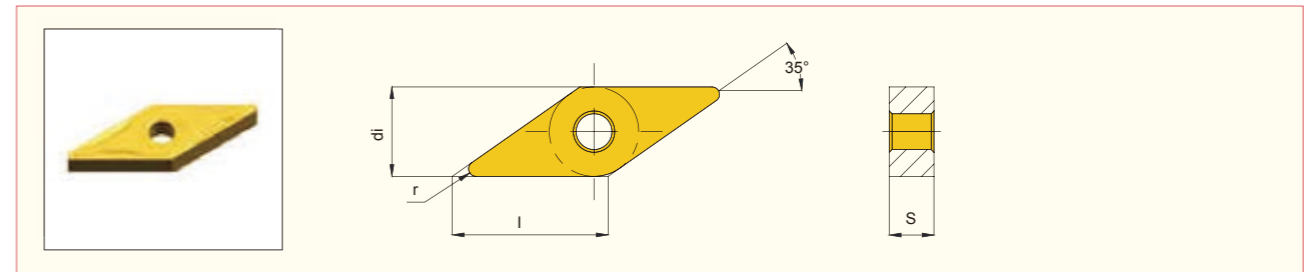


规格型号 Designation	尺寸 Size				加工材质 Material					切削参数推荐 Cutting parameter			
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
VCMT 110304-M2P 1115	11.2	6.35	3.18	0.4	•						125-350	0.50-2.50	0.08-0.30
VCMT 110304-M2M 1125	11.2	6.35	3.18	0.4		•					120-250	0.50-2.50	0.08-0.30
VCMT 160404-M2P 2125	16.6	9.525	4.76	0.4	•						120-280	0.50-2.50	0.10-0.30
VCMT 160404-M2M 1225	16.6	9.525	4.76	0.4		•					80-180	0.50-2.50	0.10-0.30
VCMT 160404-M2K 1115	16.6	9.525	4.76	0.4			•				150-350	0.50-2.50	0.10-0.30
VCMT 160408-M2P 2125	16.6	9.525	4.76	0.8	•						120-280	1.00-3.50	0.15-0.40
VCMT 160408-M2M 1225	16.6	9.525	4.76	0.8		•					80-180	0.50-2.50	0.08-0.30
VCMT 160408-M2K 1115	16.6	9.525	4.76	0.8			•				150-350	0.50-2.50	0.08-0.30

INSERTS FOR TURNING 车削刀片

VN 型刀片

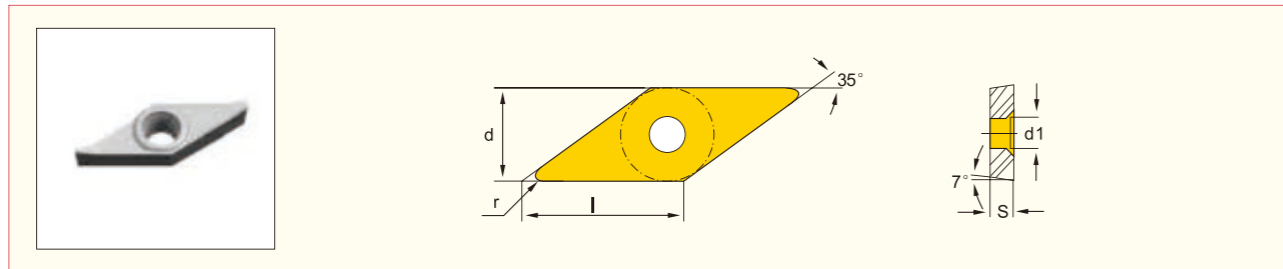
VN..



规格型号 Designation	尺寸 Size				加工材质 Material					切削参数推荐 Cutting parameter			
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
VNMG 160404-F1P 1115	16.6	9.525	4.76	0.4	•						150-350	0.40-2.00	0.08-0.35
VNMG 160404-F3S 1215	16.6	9.525	4.76	0.4		•			•		40-70	0.50-3.50	0.15-0.40
VNMG 160404-M4K 1115	16.6	9.525	4.76	0.4			•				150-350	0.50-3.50	0.10-0.40
VNMG 160408-M6P 2125	16.6	9.525	4.76	0.8	•						100-280	1.00-4.00	0.15-0.40
VNMG 160408-M3M 1225	16.6	9.525	4.76	0.8		•					80-180	1.00-4.00	0.15-0.40
VNMG 160408-M4K 1115	16.6	9.525	4.76	0.8			•				150-350	0.50-3.50	0.10-0.40

VC 型刀片

VC..



规格型号 Designation	尺寸 Size				加工材质 Material					切削参数推荐 Cutting parameter			
	l	di	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	f(mm/rev)
VCGT 110304-F5N 1010	11.2	6.35	3.18	0.4				•			300-1000	0.5-3.00	0.05-0.25
VCGT 160404-F5N 1010	16.6	9.525	4.76	0.4				•			300-1000	0.5-3.00	0.05-0.25
VCGT 160408-F5N 1010	16.6	9.525	4.76	0.8				•			300-1000	0.5-3.00	0.10-0.25

● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

THREADING TURNING

螺纹车削




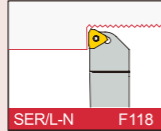
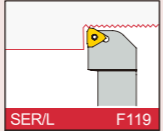

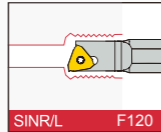
F

车削刀具 TURNING TOOLS

螺纹车削 Threading Turning

外螺纹车刀	F117
External Threading Turning Tool	
内螺纹车刀	F120
Internal Threading Turning Tool	

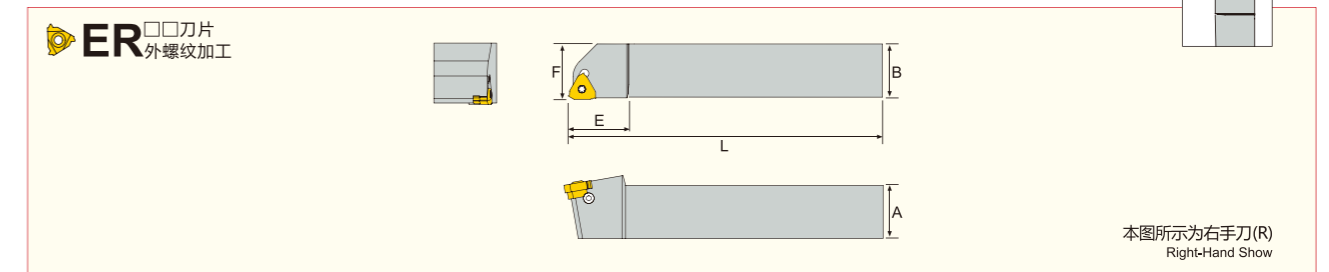
THREADING TURNING TOOL SERIES 螺纹车削刀具索引

刀片类型 Insert	压紧方式 Clamping	加工方式 Tooling
ER/EL  外螺纹刀片 External thread insert	螺丝锁紧式 Screw clamping	 
IR/IL  内螺纹刀片 Internal thread insert	螺丝锁紧式 Screw clamping	

EXTERNAL THREADING TURNING TOOL 外螺纹车刀

SERIL-N (外螺纹刀)

External Threading Turning Tool



规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在库 Stock	
	A	B	L	E	F		R	L
SER/L-1212K11N	12	12	125	20	12	11ER/L..	•	•
SER/L-1010K16N	10	10	125	20	10	16ER/L..	•	•
SER/L-1212K16N	12	12	125	20	12	16ER/L..	•	•
SER/L-1616K16N	16	16	125	20	16	16ER/L..	•	•

- 16ER: 右手刀片 16EL: 左手刀片
- 订货示例: 1 件 SER-1212K11N
- 刀片需单独订购
- 此螺纹刀为走心式螺纹车刀杆
- 16ER: right-hand Insert 16EL: left-hand insert
- Ordering sample: 1 PC SER-1212K11N
- Insert should be ordered separately

备件

Spare Parts

规格型号 Designation	垫片(右) Shim(right)	垫片(左) Shim(left)	刀片螺钉 Screw	垫片螺钉 Screw	旗型扳手 Wrench	L型扳手 Allen key
SER/L-1212K11N	-	-	CS30	-	T-10	-
SER/L-1010K16N	-	-	CS35	-	T-15	-
SER/L-1212K16N	-	-	CS35	-	T-15	-
SER/L-1616K16N	AE16	AI16	CS35115	CS6-0306	T-15	LW025

● 标准库存
Item in stock

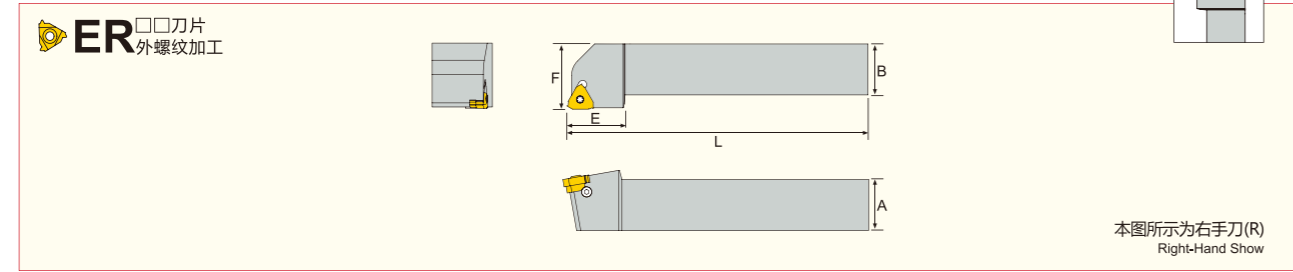
◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

EXTERNAL THREADING TURNING TOOL 外螺纹车刀

SER/L (外螺纹刀)

External Threading Turning Tool



本图所示为右手刀(R)
Right-Hand Show

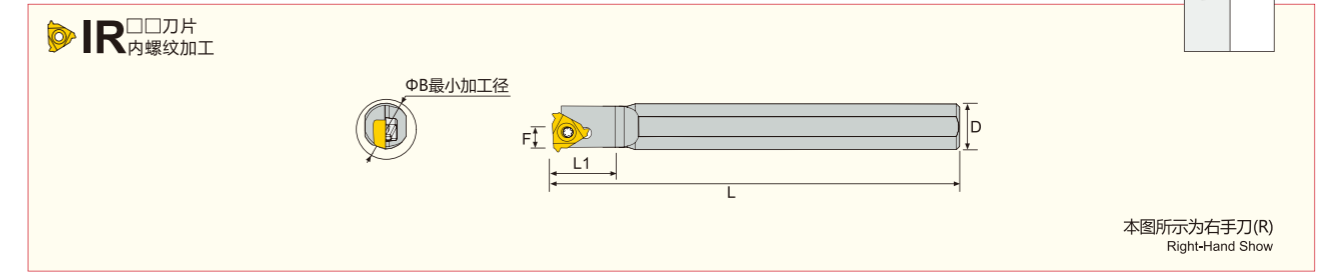
规格型号 Designation	尺寸 Dimensions(mm)					刀片 Insert	在库 Stock		
	A	B	L	E	F		R	L	
SER/L-1010K16	10	10	125	20	14	16ER/L..	•	•	
SER/L-1212K11	12	12	125	20	16	16ER/L..	•	•	
SER/L-1212K16	12	12	125	20	16	16ER/L..	•	•	
SER/L-1616K16	16	16	125	25	20	16ER/L..	•	•	
SER/L-2020K16	20	20	125	25	25	16ER/L..	•	•	
SER/L-2525M16	25	25	150	27	32	16ER/L..	•	•	
SER/L-3232P16	32	32	170	27	40	16ER/L..	•	•	
SER/L-2525M22	25	25	150	27	32	22ER/L..	•	•	
SER/L-3232P22	32	32	170	27	40	22ER/L..	•	•	

- 16ER: 右手刀片 16EL: 左手刀片
- 订货示例: 1 件 SER-1010K16
- 刀片需单独订购
- 16ER: right-hand insert 16EL: left-hand insert
- Ordering sample: 1 PC SER-1010K16
- Insert should be ordered separately

INTERNAL THREADING TURNING TOOL 内螺纹车刀

SINR/L (内螺纹刀)

Internal Threading Turning Tool



本图所示为右手刀(R)
Right-Hand Show

材质 Material	规格型号 Designation	加工孔径 Min.Bore Dia.	尺寸 Dimensions(mm)				刀片 Insert	在库 Stock		
			D	F	L	L1		R	L	
钢 Steel	SNR0005H-06	Φ6	12	3.2	100	10	06IR..	•	○	
	SNR0008K-08	9	16	4.2	125	15	08IR..	•	○	
	SINR/L-1012-11	10	12	5.8	150	25	11IR/L..	•	•	
	SINR/L-1210-11	12	10	6	150	25	11IR/L..	•	•	
	SINR/L-1216-11	12	16	6	150	25	11IR/L..	•	•	
	SINR/L-1516-11	15	16	7.5	150	30	11IR/L..	•	•	
	SINR/L-1616-16	16	16	8	150	20	16IR/L..	•	•	
	SINR/L-2016-16	20	16	10	150	20	16IR/L..	•	•	
	SINR/L-2420S-16	24	20	22.3	180	40	16IR/L..	•	•	
	SINR/L-3025S-16	30	25	27.6	200	40	16IR/L..	•	•	
	SINR/L-3732S-16	37	32	34.5	250	45	16IR/L..	•	•	
	SINR/L-3025S-22	30	25	28.7	200	40	22IR/L..	•	•	
	SINR/L-3732S-22	37	32	35	250	45	22IR/L..	•	•	
	SINR/L-0012-11-125	15	12	8	125	-	11IR/L..	•	•	
	SINR/L-0016-16-150	19	16	10.9	150	-	16IR/L..	•	•	
硬质合金 Carbide	CINR/L--0010-11	12	10	7	150	-	11IR/L..	•	•	
	CINR/L-0012-11	15	12	8	150	-	11IR/L..	•	•	
	CINR/L-0016-16	15	16	10.9	150	-	16IR/L..	•	•	

- IR: 右手刀片 IL: 左手刀片
- 订货示例: 1 件 SNR0005H-06
- 刀片需单独订购
- 16IR: right-hand insert 16IL: left-hand insert
- Ordering sample: 1 PC SNR0005H-06
- Insert should be ordered separately

备件

Spare Parts

规格型号 Designation	垫片(右) Shim(right)	垫片(左) Shim(left)	刀片螺钉 Screw	垫片螺钉 Screw	旗型扳手 Wrench	L型扳手 Allen key
SER/L-1010K16	-	-	CS35	-	T-15	-
SER/L-1212K11	-	-	CS30	-	T-10	-
SER/L-1212K16	-	-	CS35	-	T-15	LW025
SER/L-1616K16	AE16	AI16	CS35115	CS6-0306	T-15	LW025
SER/L-2020K16	AE16	AI16	CS35115	CS6-0306	T-15	LW025
SER/L-2525M16	AE16	AI16	CS35115	CS6-0306	T-15	LW025
SER/L-3232P16	AE16	AI16	CS35115	CS6-0306	T-15	LW025
SER/L-2525M22	AE22	AI22	CS45115	CS6-0406	T-15	LW030
SER/L-3232P22	AE22	AI22	CS45115	CS6-0406	T-15	LW030

备件

Spare Parts

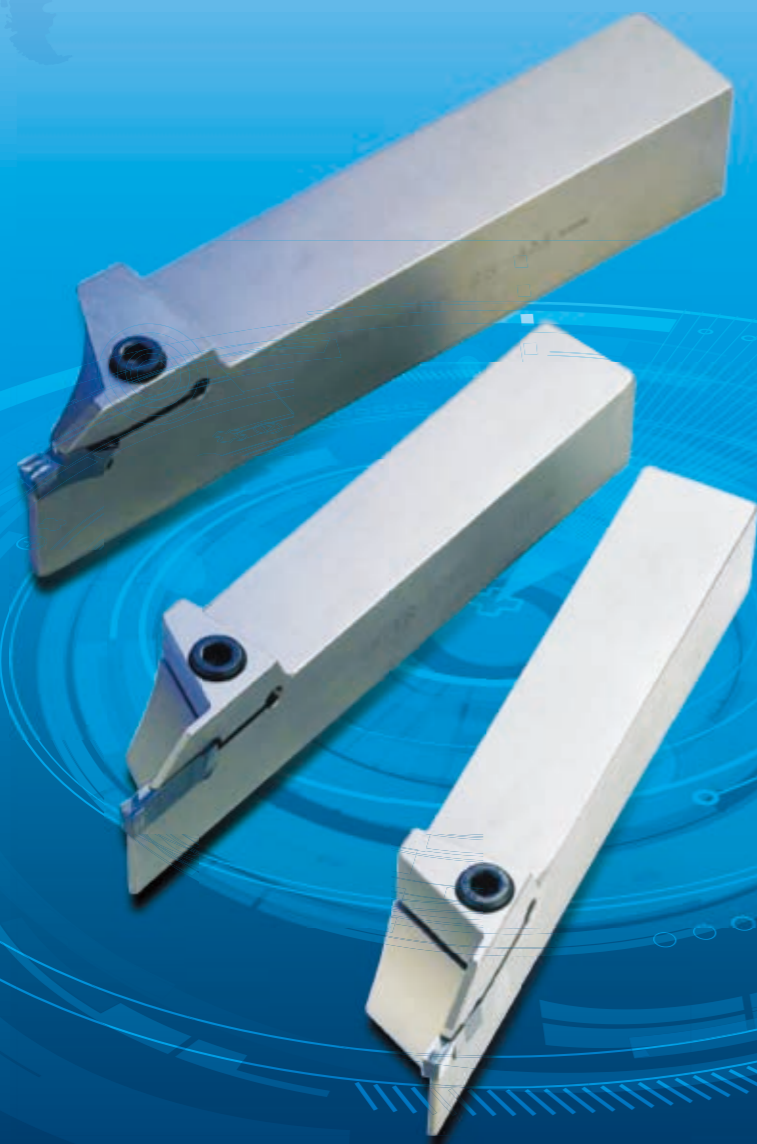
规格型号 Designation	垫片(右) Shim(right)	垫片(左) Shim(left)	刀片螺钉 Screw for insert	垫片螺钉 Screw for shim	旗型扳手 Wrench	L型扳手 Allen key
SNR0005H-06	-	-	CS20	-	T-6	-
SNR0008K-08	-	-	CS22	-	T-7	-
SINR/L-1012-11	-	-	CS30	-	T-10	-
SINR/L-1210-11	-	-	CS30	-	T-10	-
SINR/L-1216-11	-	-	CS30	-	T-10	-
SINR/L-1516-11	-	-	CS30	-	T-10	-
SINR/L-1616-16	-	-	CS35	-	T-15	-
SINR/L-2016-16	-	-	CS35	-	T-15	-
SINR/L-2420S-16	AI16	AE16	CS35115	CS6-0306	T-15	LW025
SINR/L-3025S-16	AI16	AE16	CS35115	CS6-0306	T-15	LW025
SINR/L-3732S-16	AI16	AE16	CS35115	CS6-0306	T-15	LW025
SINR/L-3025S-22	AI22	AE22	CS45115	CS6-0406	T-15	LW030
SINR/L-3732S-22	AI22	AE22	CS45115	CS6-0406	T-15	LW030
SINR/L-0012-11-125	-	-	CS30	-	T-10	-
SINR/L-0016-16-150	-	-	CS35	-	T-15	-
CINR/L--0010-11	-	-	CS30	-	T-10	-
CINR/L-0012-11	-	-	CS30	-	T-10	-
CINR/L-0016-16	-	-	CS35	-	T-15	-

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

GROOVING TURNING TOOL

切槽刀



F

车削刀具 TURNING TOOLS

切槽刀 Grooving Turning Tool

外圆切槽刀	F123
External Grooving Turning Tool	
内孔切槽刀	F129
Internal Grooving Turning Tool	
端面切槽刀	F132
Axial Grooving Tool	

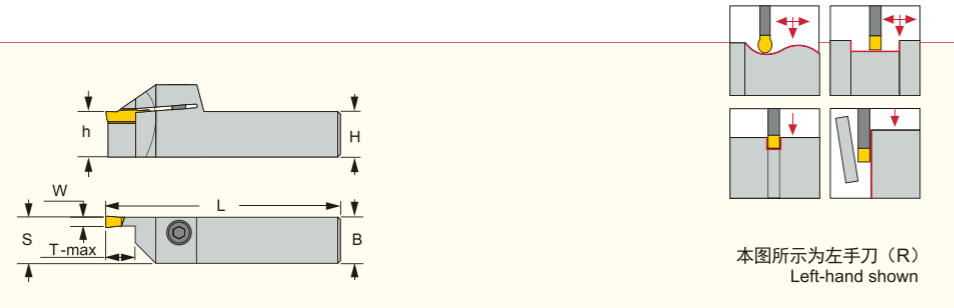
GROOVING TOOLS SERIES 切槽刀

外圆切槽刀

External Grooving Turning Tool

外圆切断切槽刀杆

External Parting and Grooving Tool



规格型号 Designation	尺寸 Dimensions(mm)						刀片 Insert	在庫 Stock	
	W	T-max	H=h	B	L	S		R	L
HAER/L1616-2T14	2	14	16	16	100	17	HA20..	●	●
HAER/L2020-2T14	2	14	20	20	125	21	HA20..	●	●
HAER/L2525-2T14	2	14	25	25	150	26	HA20..	●	●
HAER/L1616-2.5T16	2.5	16	16	16	100	17	HA25..	●	●
HAER/L2020-2.5T16	2.5	16	20	20	125	21	HA25..	●	●
HAER/L2525-2.5T16	2.5	16	25	25	150	26	HA25..	●	●

- 16ER: 右手刀片 16EL: 左手刀片
- 订货示例: 1 件 HAER/L1616-2T14
- 刀片需单独订购
- 16ER: right-hand insert 16EL: left-hand insert
- Ordering sample: 1 PC HAER/L1616-2T14
- Insert should be ordered separately

备件

Spare Parts



规格型号 Designation	锁紧螺钉 Screw	扳手 Allen key
HAER/L1616-2T14	SCAM5x12	TH40L
HAER/L2020-2T14	SCAM5x20	TH40L
HAER/L2525-2T14	SCAM6x20	TH50L
HAER/L1616-2.5T16	SCAM5x12	TH40L
HAER/L2020-2.5T16	SCAM5x20	TH40L
HAER/L2525-2.5T16	SCAM6x20	TH50L

M3G 外圆切槽刀片

with T Insert

规格型号 Designation	尺寸 Dimensions(mm)					切削参数推荐 Cutting parameter VC(m/min)
	W	R	L	D	S	
HA2002C2-M3G 1230	2.0	0.2	16.0	1.2	3.5	110
HA2502C2-M3G 1230	2.5	0.2	18.5	2.0	3.9	110

- 标准库存 Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

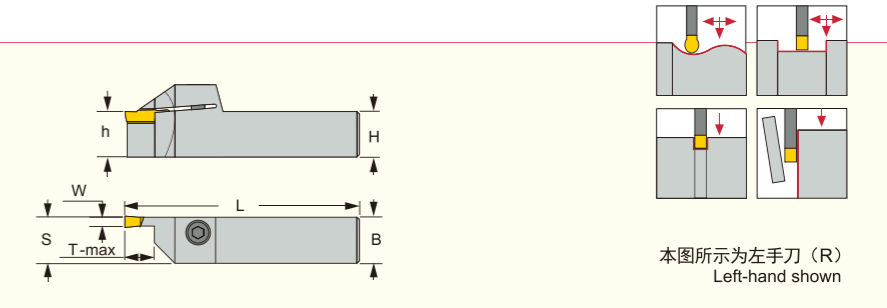
GROOVING TOOLS SERIES 切槽刀

外圆切槽刀

External Grooving Turning Tool

外圆切断切槽刀杆

External Parting and Grooving Tool



规格型号 Designation	尺寸 Dimensions(mm)						刀片 Insert	在庫 Stock	
	W	T-max	H=h	B	L	S		R	L
HAER/L1616-3T18	3	18	16	16	100	17	HA30..	●	●
HAER/L2020-3T18	3	18	20	20	125	21	HA30..	●	●
HAER/L2525-3T18	3	18	25	25	150	26	HA30..	●	●
HAER/L3225-3T18	3	18	32	25	170	26	HA30..	●	●
HAER/L3232-3T18	3	18	32	32	170	33	HA30..	●	●
HAER/L2020-4T18	4	18	20	20	125	21	HA40..	●	●
HAER/L2525-4T18	4	18	25	25	150	26	HA40..	●	●
HAER/L3225-4T18	4	18	32	25	170	26	HA40..	●	●
HAER/L3232-4T18	4	18	32	32	170	33	HA40..	●	●

- 16ER: 右手刀片 16EL: 左手刀片
- 订货示例: 1 件 HAER/L1616-3T18
- 刀片需单独订购
- 16ER: right-hand insert 16EL: left-hand insert
- Ordering sample: 1 PC HAER/L1616-3T18
- Insert should be ordered separately

备件

Spare Parts



规格型号 Designation	锁紧螺钉 Screw	扳手 Allen key
HAER/L1616-3T18	SCAM5x12	TH40L
HAER/L2020-3T18	SCAM5x20	TH40L
HAER/L2525-3T18	SCAM6x20	TH50L
HAER/L3225-3T18	SCAM6x20	TH50L
HAER/L3232-3T18	SCAM6x20	TH50L
HAER/L2020-4T18	SCAM5x20	TH40L
HAER/L2525-4T18	SCAM6x20	TH50L
HAER/L3225-4T18	SCAM6x20	TH50L
HAER/L3232-4T18	SCAM6x20	TH50L

M3G 外圆切槽刀片

with T Insert

规格型号 Designation	尺寸 Dimensions(mm)					切削参数推荐 Cutting parameter VC(m/min)
	W	R	L	D	S	
HA3004C2-M3G 1230	3.0	0.4	21.2	2.35	4.8	110
HA4004C2-M3G 1230	4.0	0.4	21.0	3.3	4.8	110

- 标准库存 Item in stock
- ◐ 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

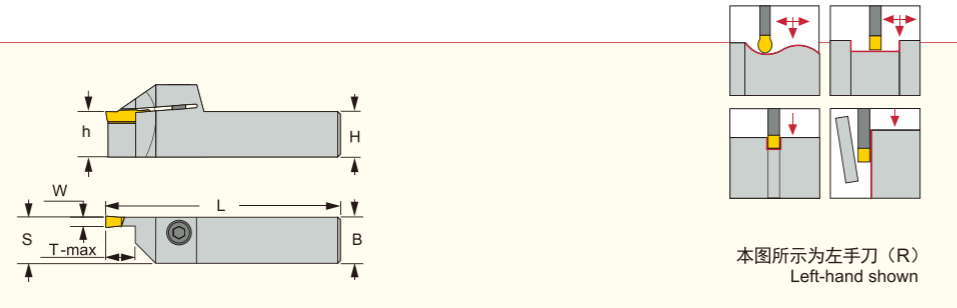
GROOVING TOOLS SERIES 切槽刀

外圆切槽刀

External Grooving Turning Tool

外圆切断切槽刀杆

External Parting and Grooving Tool



本图所示为左手刀 (R)
Left-hand shown

规格型号 Designation	尺寸 Dimensions(mm)						刀片 Insert	在库 Stock	
	W	T-max	H=h	B	L	S		R	L
HAER/L2020-5T23	5	23	20	20	125	21	HA50..	●	●
HAER/L2525-5T23	5	23	25	25	150	26	HA50..	●	●
HAER/L3225-5T23	5	23	32	25	170	26	HA50..	●	●
HAER/L3232-5T23	5	23	32	32	170	33	HA50..	●	●
HAER/L2020-6T23	6	23	20	20	125	21	HA60..	●	●
HAER/L2525-6T23	6	23	25	25	150	26	HA60..	●	●
HAER/L3225-6T23	6	23	32	25	170	26	HA60..	●	●
HAER/L3232-6T23	6	23	32	32	170	33	HA60..	●	●
HAER/L2525-8T28	8	28	25	25	150	26.5	HA80..	●	●
HAER/L3232-8T28	8	28	32	32	170	33.5	HA80..	●	●

- 16ER: 右手刀片 16EL: 左手刀片
- 订货示例: 1 件 HAER/L2020-5T23
- 刀片需单独订购
- 16ER: right-hand insert 16EL: left-hand insert
- Ordering sample: 1 PC HAER/L2020-5T23
- Insert should be ordered separately

备件

Spare Parts



规格型号 Designation	锁紧螺钉 Screw	扳手 Allen key
HAER/L2020-5T23	SCAM5x20	TH40L
HAER/L2525-5T23	SCAM6x20	TH50L
HAER/L3225-5T23	SCAM6x20	TH50L
HAER/L3232-5T23	SCAM6x20	TH50L
HAER/L2020-6T23	SCAM5x20	TH40L
HAER/L2525-6T23	SCAM6x20	TH50L
HAER/L3225-6T23	SCAM6x20	TH50L
HAER/L3232-6T23	SCAM6x20	TH50L
HAER/L2525-8T28	SCAM6x20	TH50L
HAER/L3232-8T28	SCAM6x20	TH50L

M3G 外圆切槽刀片

with T Insert

规格型号 Designation	尺寸 Dimensions(mm)						切削参数推荐 Cutting parameter VC(m/min)
	W	R	L	D	S		
HA5004C2-M3G 1230	5.0	0.4	26.0	4.1	5.8	110	
HA5008C2-M3G 1230	5.0	0.8	26.0	4.1	5.8	110	
HA6004C2-M3G 1230	6.0	0.4	26.0	5.0	5.8	110	
HA6008C2-M3G 1230	6.0	0.8	26.0	5.0	5.8	110	
HA8008C2-M3G 1230	8.0	0.8	31.0	6.0	6.5	110	

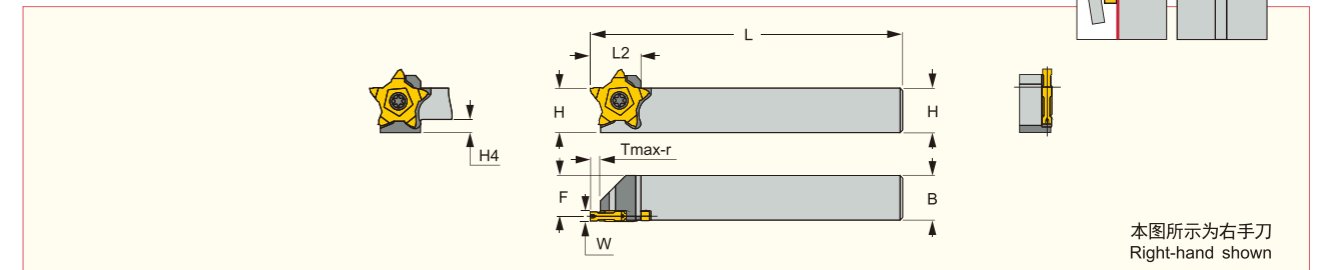
- 标准库存 Item in stock
- 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

GROOVING TOOLS SERIES 切槽刀

外圆切槽刀

External Grooving Turning Tool

PCHRIL



本图所示为右手刀
Right-hand shown

规格型号 Designation	HxB	F	L	L2	h4	适用刀片 Insert	在库 Stock
PCHR/L 10-24	10x10	8.5	120	19.5	7	PENTA24...	●
PCHR/L 12-24	12x12	10.5	120	19.5	5	PENTA24...	●
PCHR/L 16-24	16x16	14.5	120	19.5	-	PENTA24...	●
PCHR/L 20-24	20x20	18.5	120	19.5	-	PENTA24...	●
PCHR/L 25-24	25x25	23.5	135	19.5	-	PENTA24...	●

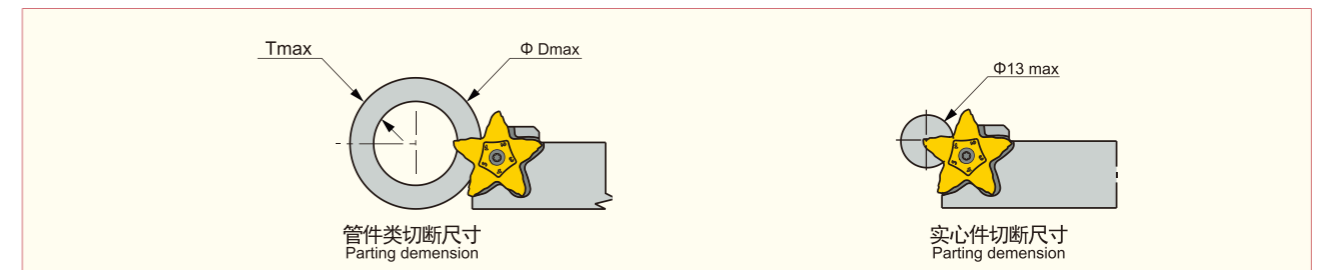
- 订货示例: 1 件 PCHR 10-24
- Ordering sample: 1 PC PCHR 10-24

备件

Spare Parts



规格型号 Designation	锁紧螺钉 Screw	扳手 Allen key
PCHR/L 10-24	SR 16-212-01397 SR 16-212-01397L	T2010/5
PCHR/L 12-24	SR 16-212-01397 SR 16-212-01397L	T2010/5
PCHR/L 16-24	SR 16-212-01397 SR 16-212-01397L	T2010/5
PCHR/L 20-24	SR 16-212-01397 SR 16-212-01397L	T2010/5
PCHR/L 25-24	SR 16-212-01397 SR 16-212-01397L	T2010/5



管件类最大切断直径与最大壁厚对应值								
Tmax	3.0	3.5	4.0	4.5	5.0	5.5	6	6.5
Dmax	NO limit	470	210	135	100	80	67	58

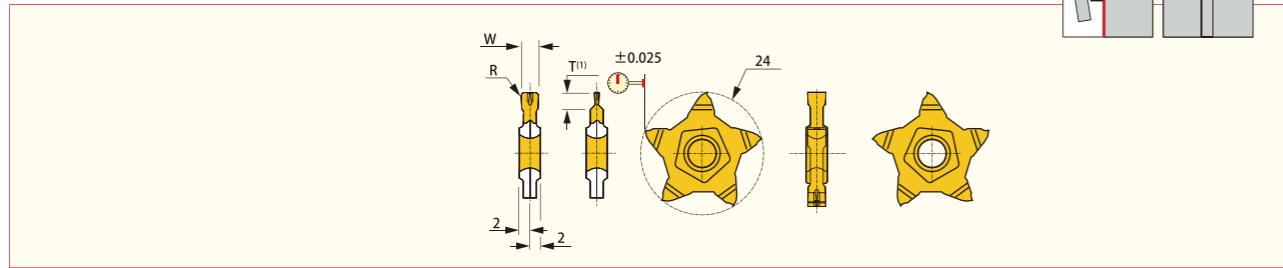
- 标准库存 Item in stock
- 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

GROOVING TOOLS SERIES 切槽刀

外圆切槽刀片

Insert for External Grooving Turning Tool

PENTA-24N-J



规格型号 Designation	W ^{±0.02}	R	Tmax	在库 Stock
PENTA24N050J000	0.50	0.00	1.0	●
PENTA24N050J004	0.50	0.04	2.5	●
PENTA24N080J000	0.80	0.00	1.6	●
PENTA24N100J006	1.00	0.06	3.5	●
PENTA24N104J000	1.04	0.00	2.0	●
PENTA24N120J000	1.20	0.00	2.0	●
PENTA24N140J000	1.40	0.00	2.0	●
PENTA24N147J000	1.47	0.00	2.5	●
PENTA24N150J010	1.50	0.10	5.0	●
PENTA24N157J015	1.57	0.15	3.0	●
PENTA24N170J010	1.70	0.10	3.0	●
PENTA24N178J018	1.78	0.18	3.0	●
PENTA24N196J015	1.96	0.15	3.0	●
PENTA24N200J020	2.00	0.20	6.0	●
PENTA24N222J015	2.22	0.15	3.5	●
PENTA24N230J020	2.30	0.20	3.5	●
PENTA24N239J015	2.39	0.15	5.0	●
PENTA24N247J020	2.47	0.20	5.0	●
PENTA24N270J010	2.70	0.10	5.0	●
PENTA24N287J020	2.87	0.20	6.5	●
PENTA24N300J000	3.00	0.00	6.5	●
PENTA24N300J020	3.00	0.20	6.5	●
PENTA24N300J040	3.00	0.40	6.5	●
PENTA24N315J015	3.15	0.15	6.5	●
PENTA24N318J020	3.18	0.20	6.5	●

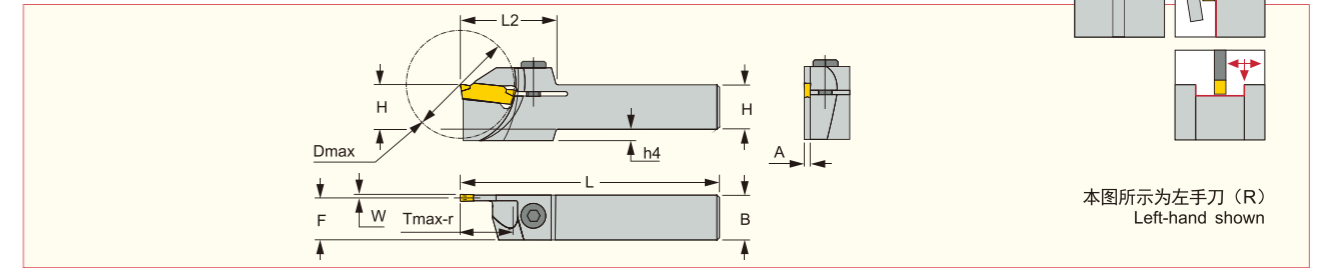
- (1) 当刀片 ≥ 2.39 时, 方能精整车
- 订货示例: 1 件 PENTA24N050 J004 IC1008
- (1) it can be finish turning if the insert width ≥ 2.39
- Ordering sample: 1 PC PENTA24N050 J004 IC1008

GROOVING TOOLS SERIES 切槽刀

外圆切槽刀

External Grooving Turning Tool

ETGDR



规格型号 Designation	尺寸 Dimensions(mm)						刀片 Insert	在库 Stock	
	H	B	L	E	W	F		R	L
ETGDR/L-16-3M	16	16	125	16	3	16	TGMF..	●	●
ETGDR/L-20-3M	20	20	125	18	3	20	TGMF..	●	●
ETGDR/L-20-4M	20	20	125	18	4-5	20	TGMF..	●	●
ETGDR/L-25-3M	25	25	150	18	3	25	TGMF..	●	●
ETGDR/L-25-4M	25	25	150	18	4-5	25	TGMF..	●	●
ETGDR/L-25-5M	25	25	150	18	5-6.4	25	TGMF..	●	●

备件

Spare Parts

规格型号 Designation	锁紧螺钉 Screw	扳手 Allen key
ETGDR/L-16-3M	CS6-50	LW040
ETGDR/L-20-3M	CS6-60	LW050
ETGDR/L-20-4M	CS6-60	LW050
ETGDR/L-25-3M	CS6-60	LW050
ETGDR/L-25-4M	CS6-60	LW050
ETGDR/L-25-5M	CS6-60	LW050

- 订货示例: 1 件 ETGDR/L-16-3M
- 刀片订购请与销售工程师联系
- Ordering sample: ETGDR/L-16-3M
- Insert should be ordered separately

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

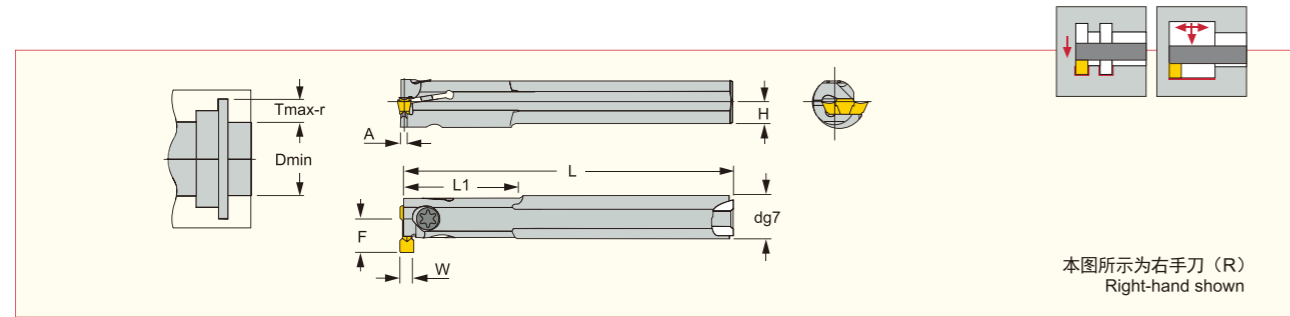
● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

GROOVING TOOLS SERIES 切槽刀

内孔切槽刀

Internal Grooving Turning Tool



规格型号 Designation	尺寸 Dimensions(mm)								刀片 Insert	在庫 Stock	
	W	T-max	ØDmin	Ød	S	L	L1	H		R	L
HAIR/L2016-2T04	2	4	20	16	12	125	35	15	HA20..	●	●
HAIR/L2520-2T05	2	5	25	20	14.5	150	45	18	HA20..	●	●
HAIR/L2925-2T05	2	5	29	25	17	200	45	23	HA20..	●	●
HAIR/L2520-2.5T05	2.5	5	25	20	14.5	150	45	18	HA25..	●	●
HAIR/L2925-2.5T05	2.5	5	29	25	17	200	45	23	HA25..	●	●
HAIR/L2520-3T06	3	6	25	20	15.5	150	45	18	HA30..	●	●
HAIR/L3125-3T06	3	6	31	25	18.5	200	45	23	HA30..	●	●
HAIR/L3732-3T06	3	6	37	32	21.5	250	65	30	HA30..	●	●
HAIR/L2520-4T06	4	6	25	20	15.5	150	45	18	HA40..	●	●
HAIR/L3125-4T06	4	6	31	25	18.5	200	45	23	HA40..	●	●
HAIR/L3732-4T06	4	6	37	32	21.5	250	65	30	HA40..	●	●

- 16ER: 右手刀片 16EL: 左手刀片
- 订货示例: 1 件 HAIR/L2016-2T04
- 刀片需单独订购
- 16ER: right-hand insert 16EL: left-hand insert
- Ordering sample: 1 PC HAIR/L2016-2T04
- Insert should be ordered separately

备件

Spare Parts

规格型号 Designation	锁紧螺钉 Screw	扳手 Allen key
HAIR/L2016-2T04	SCAM4x12	TH30L
HAIR/L2520-2T05	SCAM4x12	TH30L
HAIR/L2925-2T05	SCAM5x12	TH40L
HAIR/L2520-2.5T05	SCAM4x12	TH30L
HAIR/L2925-2.5T05	SCAM5x12	TH40L
HAIR/L2520-3T06	SCAM4x12	TH30L
HAIR/L3125-3T06	SCAM5x12	TH40L
HAIR/L3732-3T06	SCAM5x20	TH40L
HAIR/L2520-4T06	SCAM4x12	TH30L
HAIR/L3125-4T06	SCAM5x12	TH40L
HAIR/L3732-4T06	SCAM5x20	TH40L

M3G 内孔切槽刀片

with T Insert

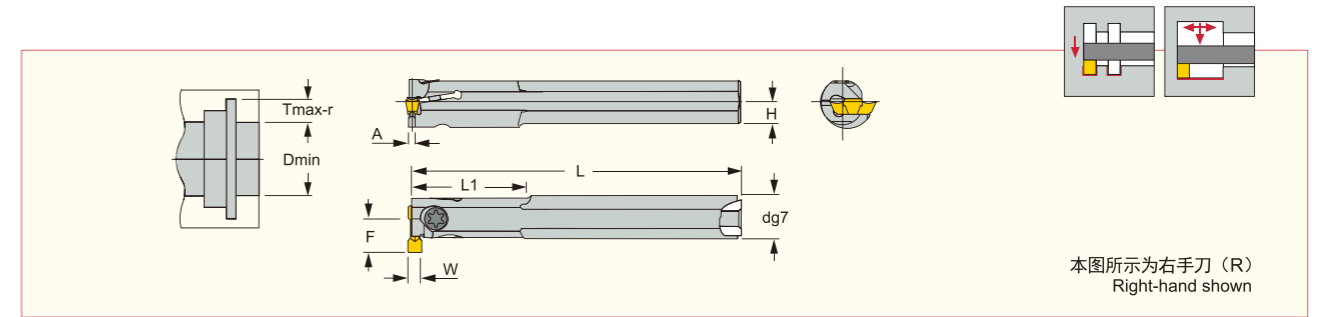
规格型号 Designation	尺寸 Dimensions(mm)					切削参数推荐 Cutting parameter VC(m/min)
	W	R	L	D	S	
HA2002C2-M3G 1230	2.0	0.2	16.0	1.2	3.5	110
HA2502C2-M3G 1230	2.5	0.2	18.5	2.0	3.9	110
HA3004C2-M3G 1230	3.0	0.4	21.2	2.35	4.8	110
HA4004C2-M3G 1230	4.0	0.4	21.0	3.3	4.8	110

- 标准库存 Item in stock
- 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

GROOVING TOOLS SERIES 切槽刀

内孔切槽刀

Internal Grooving Turning Tool



规格型号 Designation	尺寸 Dimensions(mm)								刀片 Insert	在庫 Stock	
	W	T-max	ØDmin	Ød	S	L	L1	H		R	L
HAIR/L3125-5T08	5	8	31	25	19.5	200	45	23	HA50..	●	●
HAIR/L3732-5T08	5	8	37	32	21.5	250	65	30	HA50..	●	●
HAIR/L3125-6T08	6	8	31	25	19.5	200	45	23	HA60..	●	●
HAIR/L3732-6T08	6	8	37	32	21.5	250	65	30	HA60..	●	●
HAIR/L3732-8T10	8	10	37	32	23.4	250	65	30	HA80..	●	●
HAIR/L4540-8T10	8	10	45	40	27.2	300	70	37	HA80..	●	●

- 16ER: 右手刀片 16EL: 左手刀片
- 订货示例: 1 件 HAIR/L2016-2T04
- 刀片需单独订购
- 16ER: right-hand insert 16EL: left-hand insert
- Ordering sample: 1 PC HAIR/L2016-2T04
- Insert should be ordered separately

备件

Spare Parts

规格型号 Designation	锁紧螺钉 Screw	扳手 Allen key
HAIR/L3125-5T08	SCAM5x12	TH40L
HAIR/L3732-5T08	SCAM5x20	TH40L
HAIR/L3125-6T08	SCAM5x12	TH40L
HAIR/L3732-6T08	SCAM5x20	TH40L
HAIR/L3732-8T10	SCAM5x20	TH40L
HAIR/L4540-8T10	SCAM5x20	TH40L

M3G 内孔切槽刀片

with T Insert

规格型号 Designation	尺寸 Dimensions(mm)					切削参数推荐 Cutting parameter VC(m/min)
	W	R	L	D	S	
HA5004C2-M3G 1230	5.0	0.4	26.0	4.1	5.8	110
HA5008C2-M3G 1230	5.0	0.8	26.0	4.1	5.8	110
HA6004C2-M3G 1230	6.0	0.4	26.0	5.0	5.8	110
HA6008C2-M3G 1230	6.0	0.8	26.0	5.0	5.8	110
HA8008C2-M3G 1230	8.0	0.8	31.0	6.0	6.5	110

- 标准库存 Item in stock
- 半标准库存 (订货时, 请确认交货期) Item of short delivery time (please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期) Order on demand (please confirm delivery time when ordering it)

GROOVING TOOLS SERIES 切槽刀

切削速度推荐值

Recommended Cutting Speed

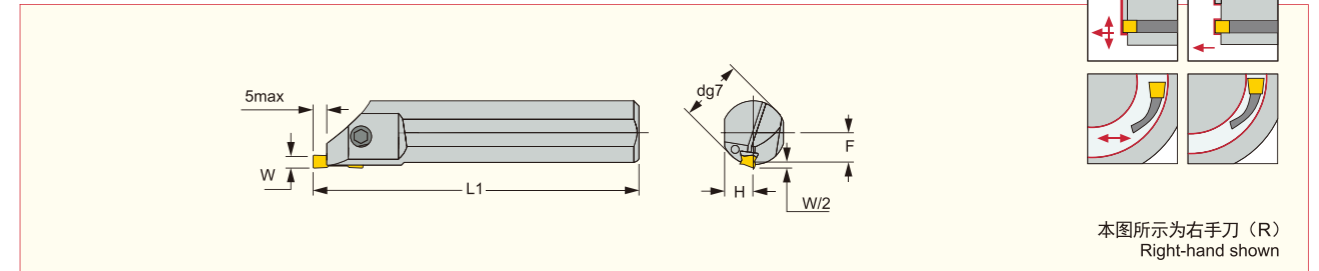
	工件材质 Workpiece material	硬度 (HB) Hardness	切削速度 Vc (m/min) Cutting speed
P	低碳钢 Soft steel	80 – 170	110 (70-180)
	高碳钢 High-carbon steel	170 – 250	110 (70-150)
	低合金钢 Low alloy steel	140– 260	110 (40-150)
	高合金钢 High alloy steel	180– 300	110 (40-150)
	铸钢 Cast steel	180– 300	110 (40-150)
M	铁素体 / 马氏体 Ferritic/ martensitic	150– 270	110 (40-180)
	奥氏体 Austenitic	150– 270	110 (40-180)
K	可锻铸铁 Malleable cast iron	150– 230	110 (50-180)
	灰口铸铁 Grey cast iron	150– 230	110 (50-180)
	球墨铸铁 Ductile cast iron	160– 260	100 (50-150)

GROOVING TOOLS SERIES 切槽刀

端面切槽刀

Axial Grooving Tool

HFIR/L-MC



规格型号 Designation	Wmax	HxB	L	F±0.1	H	Tmax-a	适用刀片 Insert	在库 Stock
HFIR/L 25MC	3-6	25	200	11.14	11.5	5	HFPR/L	●
HFIR/L 32MC	3-6	32	250	16.68	14.5	5	HFPR/L	●
HFIR/L 40MC	3-6	40	300	18.73	18.0	5	HFPR/L	●

- 订货示例: 1 件 HFIR 25MC 1 件 HFIL 32MC
- 刀片订购请与我们的销售工程师联系
- Ordering sample: 1 PC HFIR 25MC 1 PC HFIL 32MC
- Insert should be ordered separately

备件

Spare Parts

规格型号 Designation	锁紧螺钉 Screw	扳手 Allen key
HFIR/L 25MC	SR M5x16	HW4
HFIR/L 32MC	SR M6x20	HW5
HFIR/L 40MC	SR M6x25	HW5

扩孔加工
Boring

$B \text{ Min.} = f + d/2 + W/2 + W2 + 2G$

内孔端面切槽加工
Internal Axial Grooving

$D \text{ Min.} = 2F + d + W + B + 2G$

内孔端面切槽带扩孔加工
Internal Axial Grooving/Boring

$P \text{ Min.} = 2F + d - W - B + 2G \quad G1 = 0.5MM$

端面槽首切直径范围直径范围

The beginning dia. of Grooving

W	Min	Max
3	24	60
4	23	90
5	21	300
6	20	∞

● 标准库存
Item in stock

◐ 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

ACCESSORIES

附件



G

附件 ACCESSORIES

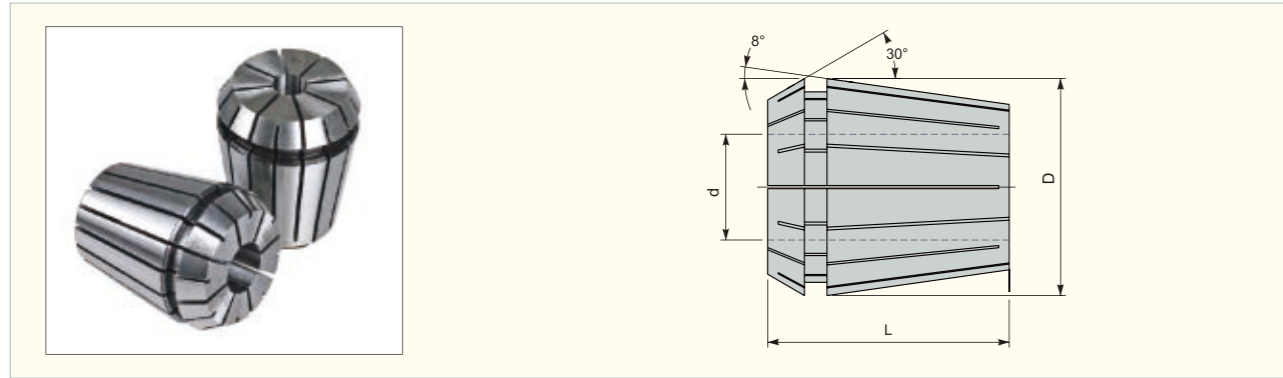
附件 Accessories

ER 筒夹	G3
ER Collet	
螺帽	G10
Nut	
丝锥快换夹头	G12
Quick Change Chuck	
强力刀柄直筒夹	G14
Straight Collet for Power Chuck Adaptor	
液压刀柄变径套	G15
Reduction Sleeve for Hydraulic Chuck Adaptor	
大圆头螺钉	G17
Truss Head Screw	
扳手	G18
Wrench	
方头螺栓	G19
Coach Bolt	
ER 刀柄后定位螺钉	G20
Backstop Screw for ER Collet Chuck	
轴向调节螺钉	G20
Axial adjusting screw	
HSK-A 型冷却管	G21
HSK Type A Coolant Tube	
HSK-A 型冷却管扳手	G21
Wrench for HSK Type A Coolant Tube	
拉钉	G22
Pull Stud	
标准测量棒	G26
Standard Measuring Bar	
寻边器	G27
Edge Sensor	
Z 轴设定器	G28
Z-Axial Setter	
主轴清洁棒	G29
Spindle Taper Cleaner	
ER 扳手	G29
ER Wrench	
强力夹头刀柄专用钩形扳手	G30
Wrench for Power Chuck Adaptor	
立卧两用锁刀座	G30
Assembly Device	
刀具管理车	G30
Trolley for Tools	

ACCESSORIES 附件

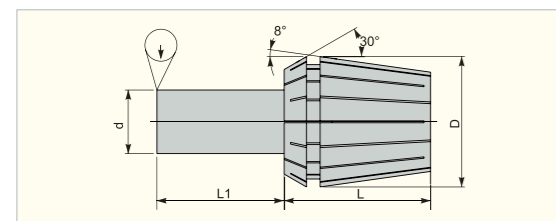
标准 ER 筒夹

Standard ER Collet



ER16		ER20		ER25		ER32		ER40	
规格型号 Designation	夹持范围 Clamping range	规格型号 Designation	夹持范围 Clamping range	规格型号 Designation	夹持范围 Clamping range	规格型号 Designation	夹持范围 Clamping range	规格型号 Designation	夹持范围 Clamping range
ER16-D1	1-0.5	ER20-D2	2-1.5	ER25-D2	2-1.5	ER32-D3	3-2	ER40-4	4-3
ER16-D1.5	1.5-1	ER20-D2.5	2.5-2	ER25-D2.5	2.5-2	ER32-D4	4-3	ER40-5	5-4
ER16-D2	2-1.5	ER20-D3	3-2	ER25-D3	3-2	ER32-D5	5-4	ER40-6	6-5
ER16-D2.5	2.5-2	ER20-D4	4-3	ER25-D4	4-3	ER32-D6	6-5	ER40-7	7-6
ER16-D3	3-2	ER20-D5	5-4	ER25-D5	5-4	ER32-D7	7-6	ER40-8	8-7
ER16-D4	4-3	ER20-D6	6-5	ER25-D6	6-5	ER32-D8	8-7	ER40-9	9-8
ER16-D5	5-4	ER20-D7	7-6	ER25-D7	7-6	ER32-D9	9-8	ER40-10	10-9
ER16-D6	6-5	ER20-D8	8-7	ER25-D8	8-7	ER32-D10	10-9	ER40-11	11-10
ER16-D7	7-6	ER20-D9	9-8	ER25-D9	9-8	ER32-D11	11-10	ER40-12	12-11
ER16-D8	8-7	ER20-D10	10-9	ER25-D10	10-9	ER32-D12	12-11	ER40-13	13-12
ER16-D9	9-8	ER20-D11	11-10	ER25-D11	11-10	ER32-D13	13-12	ER40-14	14-13
ER16-D10	10-9	ER20-D12	12-11	ER25-D12	12-11	ER32-D14	14-13	ER40-15	15-14
-	-	ER20-D13	13-12	ER25-D13	13-12	ER32-D15	15-14	ER40-16	16-15
-	-	-	-	ER25-D14	14-13	ER32-D16	16-15	ER40-17	17-16
-	-	-	-	ER25-D15	15-14	ER32-D17	17-16	ER40-18	18-17
-	-	-	-	ER25-D16	16-15	ER32-D18	18-17	ER40-19	19-18
-	-	-	-	-	-	ER32-D19	19-18	ER40-20	20-19
-	-	-	-	-	-	ER32-D20	20-19	ER40-21	21-20
-	-	-	-	-	-	-	-	ER40-22	22-21
-	-	-	-	-	-	-	-	ER40-23	23-22
-	-	-	-	-	-	-	-	ER40-24	24-23
-	-	-	-	-	-	-	-	ER40-25	25-24
-	-	-	-	-	-	-	-	ER40-26	26-25

- 标准 ER 筒夹分普通 ER 筒夹和高精度 ER 筒夹；
- 高精度 ER 筒夹在规格型号后加 "AA"；
- 订购示例：1 件 ER16-D10；5 件 ER32-D8 AA。
- There are two styles of standard ER collet, one is general and the other is with high precision.
- There is "AA" at the end of the model# shows that it is high precision ER collet.
- Ordering sample: 1 PC ER16-D10; 5 PCS ER32-D8 AA.

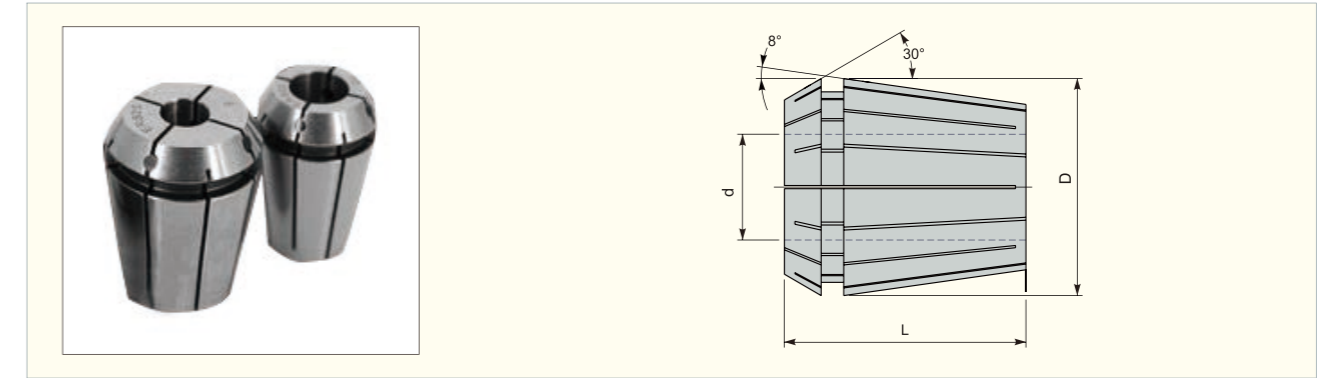


规格型号 Designation	D	d	L	L1	跳动 Run-out	
					普通 ER 筒夹 General ER collet	高精度 ER 筒夹 High accuracy ER collet
ER16	17	1.6-3.0	27	10	0.015	0.01
ER20	21	3.0-6.0	31	16	0.015	0.005
ER25	26	6.0-10.0	35	25	0.015	0.005
ER32	33	10.0-18.0	40	40	0.015	0.005
ER40	40	18.0-26.0	46	50	0.015	0.005

ACCESSORIES 附件

内冷式 ER 筒夹

ER Collet with Coolant



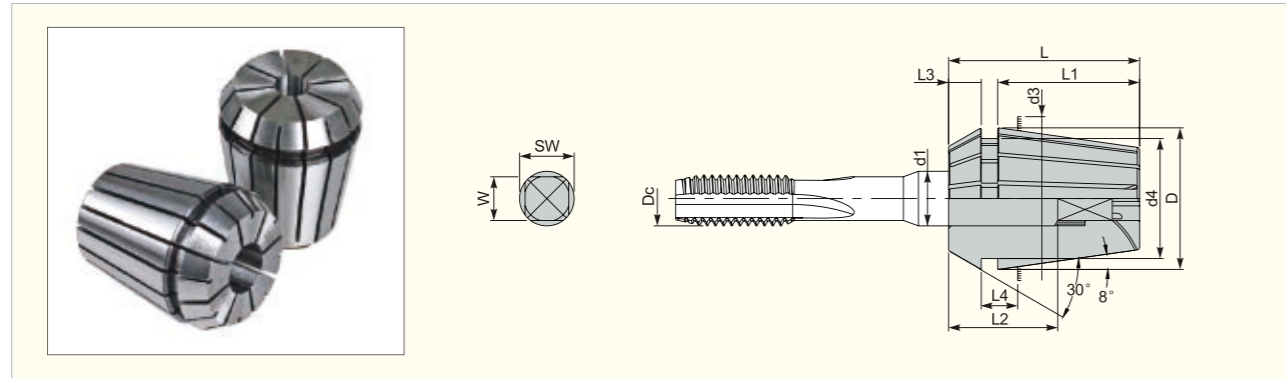
ER16C		ER20C		ER25C		ER32C		ER40C	
规格型号 Designation	夹持范围 Clamping range	规格型号 Designation	夹持范围 Clamping range	规格型号 Designation	夹持范围 Clamping range	规格型号 Designation	夹持范围 Clamping range	规格型号 Designation	夹持范围 Clamping range
ER16-D3.C	3-2.9	ER20-D3.C	3-2.9	ER25-D3.C	3-2.9	ER32-D3.C	3-2.9	ER40-D4.C	4-3.9
ER16-D4.C	4-3.9	ER20-D4.C	4-3.9	ER25-D4.C	4-3.9	ER32-D4.C	4-3.9	ER40-D5.C	5-4.9
ER16-D5.C	5-4.9	ER20-D5.C	5-4.9	ER25-D5.C	5-4.9	ER32-D5.C	5-4.9	ER40-D6.C	6-5.9
ER16-D6.C	6-5.5	ER20-D6.C	6-5.5	ER25-D6.C	6-5.5	ER32-D6.C	6-5.9	ER40-D7.C	7-6.9
ER16-D7.C	7-6.5	ER20-D7.C	7-6.5	ER25-D7.C	7-6.5	ER32-D7.C	7-6.9	ER40-D8.C	8-7.9
ER16-D8.C	8-7.5	ER20-D8.C	8-7.5	ER25-D8.C	8-7.5	ER32-D8.C	8-7.5	ER40-D9.C	9-8.9
ER16-D9.C	9-8.5	ER20-D9.C	9-8.5	ER25-D9.C	9-8.5	ER32-D9.C	9-8.5	ER40-D10.C	10-9.5
ER16-D10.C	10-9.5	ER20-D10.C	10-9.5	ER25-D10.C	10-9.5	ER32-D10.C	10-9.5	ER40-D11.C	11-10.5
-	-	ER20-D11.C	11-10.5	ER25-D11.C	11-10.5	ER32-D11.C	11-10.5	ER40-D12.C	12-11.5
-	-	ER20-D12.C	12-11.5	ER25-D12.C	12-11.5	ER32-D12.C	12-11.5	ER40-D13.C	13-12.5
-	-	ER20-D13.C	13-12.5	ER25-D13.C	13-12.5	ER32-D13.C	13-12.5	ER40-D14.C	14-13.5
-	-	-	-	ER25-D14.C	14-13.5	ER32-D14.C	14-13.5	ER40-D15.C	15-14.5
-	-	-	-	ER25-D15.C	15-14.5	ER32-D15.C	15-14.5	ER40-D16.C	16-15.5
-	-	-	-	ER25-D16.C	16-15.5	ER32-D16.C	16-15.5	ER40-D17.C	17-16.5
-	-	-	-	-	-	ER32-D17.C	17-16.5	ER40-D18.C	18-17.5
-	-	-	-	-	-	ER32-D18.C	18-17.5	ER40-D19.C	19-18.5
-	-	-	-	-	-	ER32-D19.C	19-18.5	ER40-D20.C	20-19.5
-	-	-	-	-	-	ER32-D20.C	20-19.5	ER40-D21.C	21-20.5
-	-	-	-	-	-	-	-	ER40-D22.C	22-21.5
-	-	-	-	-	-	-	-	ER40-D23.C	23-22.5
-	-	-	-	-	-	-	-	ER40-D24.C	24-23.5
-	-	-	-	-	-	-	-	ER40-D25.C	25-24.5
-	-	-	-	-	-	-	-	ER40-D26.C	26-25.5

- 标准 ER 筒夹分普通 ER 筒夹和高精度 ER 筒夹；
- 高精度 ER 筒夹在规格型号后加 "AA"；
- 订购示例：1 件 ER16-D10.C；5 件 ER32-D8.C AA。
- 利用沟槽差异，达到周围止水，仅中心出水的功能；
- 适用于夹持有中心出水孔的刀具；
- 可承受水压 7Mpa。
- There are two styles of standard ER collet, one is general and the other is with high precision.
- There is "AA" at the end of the model# shows that it is high precision ER collet.
- Ordering sample: 1 PC ER16-D10.C; 5 PCS ER32-D8.C AA.
- Differences in the use of grooves to reach around the sealing.
- Central water feature only applies to folders to hold the water hold tool.
- Can withstand water pressure 7Mpa.

ACCESSORIES 附件

攻丝 ER 筒夹

ER Collet for Tapping Chuck



规格型号 Designation	D	d3	d4	L	L1	L3	L4	Capacity	Kg
ER16-G	16.74	16	13.8	27.5	20.8	4	6.26	M3-M10	0.03
ER20-G	20.74	20	17.4	31.5	23.9	4.8	6.36	M3-M17	0.04
ER25-G	25.74	25	22	34	25.9	5	6.66	M3-M22	0.06
ER32-G	32.74	32	29.2	40	31.8	5.5	7.16	M3-M27	0.10
ER40-G	40.74	40	36.2	46	35.5	7	7.66	M3-M27	0.25

ER16-G

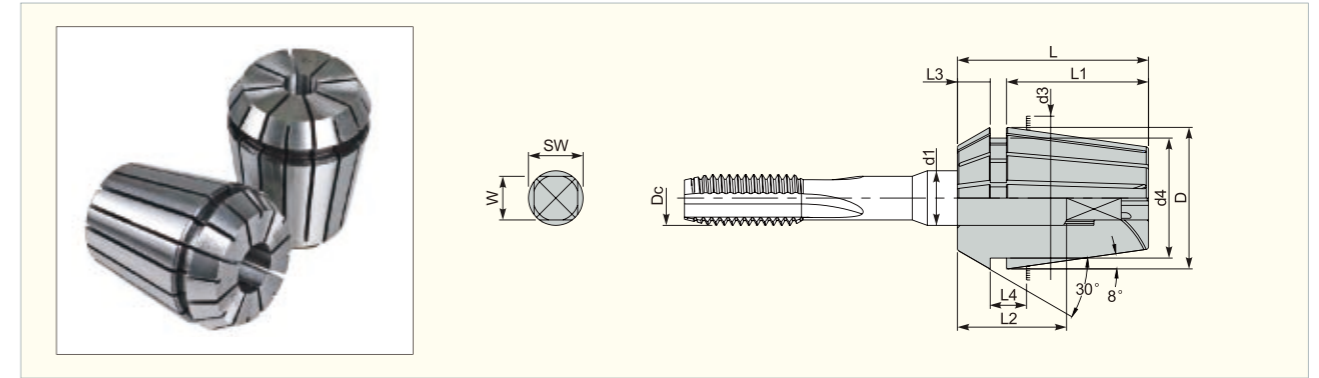
规格型号 Designation	d1	SW	W	通用标准 Dc General Standard				L2	在庫 Stock
				ISO	JIS	DIN371	DIN376		
ER16-G2.24	2.24	2	1.8	M3	-	-	-	15	○
ER16-G2.5	2.5	2.2	2.1	-	-	-	M3.5	15	○
	2.5	2.2	2	M3.5	-	-	-	15	○
ER16-G2.8	2.8	2.6	2.1	-	-	-	M4	15	○
ER16-G3	3	2.8	2.5	-	M2	-	-	18	○
ER16-G3.15	3.15	2.9	2.5	M3,M4	-	-	-	18	○
ER16-G3.5	3.5	3.3	2.7	-	-	M3	M5	18	○
ER16-G3.55	3.55	3.3	2.8	M3.5,M4.5	-	-	-	18	○
ER16-G4	4	3.8	3	-	-	M3.5	-	18	○
	4	3.8	3.1	-	M3	-	-	18	○
ER16-G4.5	4.5	4.3	3.4	-	-	M4	M6	18	○
	4.5	4.3	3.55	M6	-	-	-	18	○
ER16-G5	5	4.7	4	M5	M4,M4.5	-	-	18	○
ER16-G5.5	5.5	4.37	4.3	-	-	-	M7	18	○
	5.5	4.37	4.5	-	M5	-	-	18	○
ER16-G6	6	5.09	4.5	-	M6	-	-	18	○
	6	5.09	4.9	-	-	M5,M6	M8	18	○
ER16-G6.2	6.2	5.21	5	-	M7,M8	-	-	18	○
ER16-G6.3	6.3	5.21	5	M6,M8	-	-	-	18	○
ER16-G7	7	5.84	5.5	-	M9,M10	-	M10	18	○
ER16-G8	8	6.88	6	-	M11	-	-	22	○
	8	6.88	6.2	-	-	M8	M11	22	○
ER16-8.5	8.5	6.88	6.3	M8,M10	-	-	-	22	○
	8.5	7.14	6.5	-	M12	-	-	22	○
ER16-G9	9	7.95	7	-	-	-	M12	22	○
	9	7.95	7.1	M12	-	-	-	22	○
ER16-G10	10	9.16	8	M10	-	M10	-	25	○

- 请根据 D,d1,W 尺寸选择相对应的攻丝 ER 筒夹
- 订货示例: 1 件 ER16-G2.24 ISO
- Select the proper ER collet for tapping chuck according to the size of D,d1,W
- Ordering sample: 1 PC ER16-G2.24 ISO

ACCESSORIES 附件

攻丝 ER 筒夹

ER Collet for Tapping Chuck



ER20-G

规格型号 Designation	d1	SW	W	通用标准 Dc General Standard				L2	在庫 Stock
				ISO	JIS	DIN371	DIN376		
ER20-G2.24	2.24	2	1.8	M3	-	-	-	15	○
ER20-G2.5	2.5	2.2	2.1	-	-	-	M3.5	15	○
	2.5	2.2	2	M3.5	-	-	-	15	○
ER20-G2.8	2.8	2.6	2.1	-	-	-	M4	15	○
ER20-G3	3	2.8	2.5	-	M2	-	-	18	○
ER20-G3.15	3.15	2.9	2.5	M3,M4	-	-	-	18	○
ER20-G3.5	3.5	3.3	2.7	-	-	M3	M5	18	○
ER20-G3.55	3.55	3.3	2.8	M3.5,M4.5	-	-	-	18	○
ER20-G4	4	3.8	3	-	-	M3.5	-	18	○
	4	3.8	3.1	-	M3	-	-	18	○
ER20-G4.5	4.5	4.3	3.4	-	-	M4	M6	18	○
	4.5	4.3	3.55	M6	-	-	-	18	○
ER20-G5	5	4.7	4	M5	M4,M4.5	-	-	18	○
ER20-G5.5	5.5	4.37	4.3	-	-	-	M7	18	○
	5.5	4.37	4.5	-	M5	-	-	18	○
ER20-G6	6	5.09	4.5	-	M6	-	-	18	○
	6	5.09	4.9	-	-	M5,M6	M8	18	○
ER20-G6.2	6.2	5.21	5	-	M7,M8	-	-	18	○
ER20-G6.3	6.3	5.21	5	M6,M8	-	-	-	18	○
ER20-G7	7	5.84	5.5	-	M9,M10	-	M10	18	○
ER20-G8	8	6.88	6	-	M11	-	-	22	○
	8	6.88	6.2	-	-	M8	-	22	○
ER20-8.5	8.5	6.88	6.3	M8,M10	-	-	-	22	○
	8.5	7.14	6.5	-	M12	-	-	22	○
ER20-G9	9	7.95	7	-	-	-	M12	22	○
	9	7.95	7.1	M12	-	-	-	22	○
ER20-G10	10	9.16	8	M10	-	M10	-	25	○
ER20-G10.5	10.5	9.16	8	-	M14,M15	-	-	25	○
ER20-G11	11	10.53	9	-	-	-	M14	25	○
ER20-G11.2	11.2	10.53	9	M14	-	-	-	25	○
ER20-G12	12	10.53	9	-	-	-	M16	25	○
ER20-G12.5	12.5	11.91	10	M16	M16	-	-	25	○
ER20-G13	13	11.91	10	-	M17	-	-	25	○

- 请根据 D,d1,W 尺寸选择相对应的攻丝 ER 筒夹
- 订货示例: 1 件 ER16-G2.24 ISO
- Select the proper ER collet for tapping chuck according to the size of D, d1, W
- Ordering sample: 1 PC ER16-G2.24 ISO

● 标准库存
Item in stock

● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

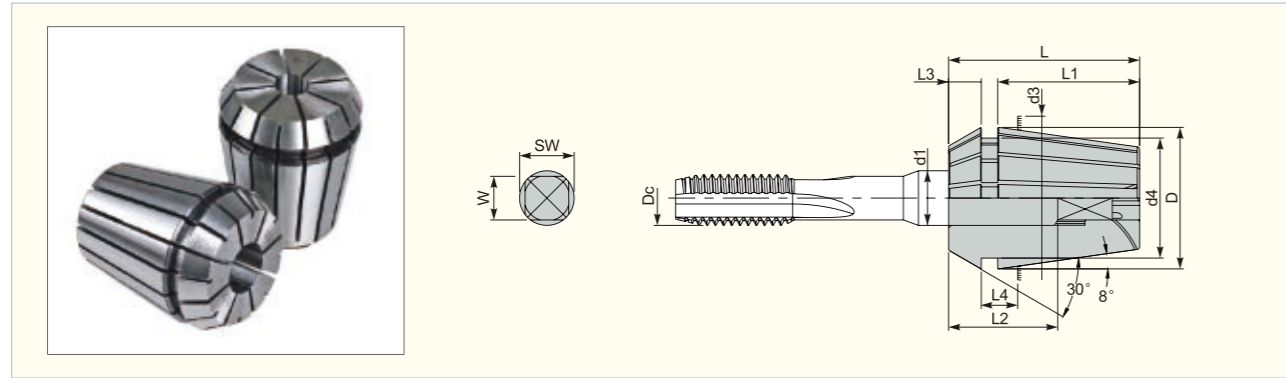
● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

ACCESSORIES 附件

攻丝 ER 筒夹

ER Collet for Tapping Chuck



ER25-G

规格型号 Designation	d1	SW	W	通用标准 Dc General Standard				L2	在庫 Stock
				ISO	JIS	DIN371	DIN376		
ER25-G2.24	2.24	2	1.8	M3	-	-	-	15	○
ER25-G2.5	2.5	2.2	2.1	-	-	-	M3.5	15	○
ER25-G2.8	2.5	2.2	2	M3.5	-	-	-	15	○
ER25-G2.8	2.8	2.6	2.1	-	-	-	M4	15	○
ER25-G3	3	2.8	2.5	-	M2	-	-	18	○
ER25-G3.15	3.15	2.9	2.5	M3,M4	-	-	-	18	○
ER25-G3.5	3.5	3.3	2.7	-	-	M3	M5	18	○
ER25-G3.55	3.55	3.3	2.8	M3.5,M4.5	-	-	-	18	○
ER25-G4	4	3.8	3	-	-	M3.5	-	18	○
ER25-G4	4	3.8	3.1	-	M3	-	-	18	○
ER25-G4	4	3.8	3.15	M4,M5	-	-	-	18	○
ER25-G4.5	4.5	4.3	3.4	-	-	M4	M6	18	○
ER25-G4.5	4.5	4.3	3.55	M6	-	-	-	18	○
ER25-G5	5	4.7	4	M5	M4,M4.5	-	-	18	○
ER25-G5.5	5.5	4.37	4.3	-	-	-	M7	18	○
ER25-G5.5	5.5	4.37	4.5	-	M5	-	-	18	○
ER25-G6	6	5.09	4.5	-	M6	-	-	18	○
ER25-G6	6	5.09	4.9	-	-	M5,M6	M8	18	○
ER25-G6.2	6.2	5.21	5	-	M7,M8	-	-	18	○
ER25-G6.3	6.3	5.21	5	M6,M8	-	-	-	18	○
ER25-G7	7	5.84	5.5	-	M9,M10	-	M10	18	○
ER25-G8	8	6.88	6	-	M11	-	-	22	○
ER25-G8	8	6.88	6.2	-	-	M8	-	22	○
ER25-G8	8	6.88	6.3	M8,M10	-	-	-	22	○
ER25-8.5	8.5	7.14	6.5	-	M12	-	-	22	○
ER25-G9	9	7.95	7	-	-	-	M12	22	○
ER25-G9	9	7.95	7.1	M12	-	-	-	22	○
ER25-G10	10	9.16	8	M10	-	M10	-	25	○
ER25-G10.5	10.5	9.16	8	-	M14,M15	-	-	25	○
ER25-G11	11	10.53	9	-	-	-	M14	25	○
ER25-G11.2	11.2	10.53	9	M14	-	-	-	25	○
ER25-G12	12	10.53	9	-	-	-	M16	25	○
ER25-G12.5	12.5	11.91	10	M16	M16	-	-	25	○
ER25-G13	13	11.91	10	-	M17	-	-	25	○
ER25-G14	14	12.97	11	-	M18	-	M18	28	○
ER25-G14	14	12.97	11.2	M18,M20	-	-	-	28	○
ER25-G15	15	14.06	12	-	M20	-	-	28	○
ER25-G16	16	14.06	12	-	-	-	M20	28	○
ER25-G16	16	14.06	12.5	M22	-	-	-	28	○

- 请根据 D,d1,W 尺寸选择相对应的攻丝 ER 筒夹
- 订货示例: 1 件 ER25-G2.24 ISO
- Select the proper ER collet for tapping chuck according to the size of D, d1, W
- Ordering sample: 1 PC ER25-G2.24 ISO

● 标准库存
Item in stock

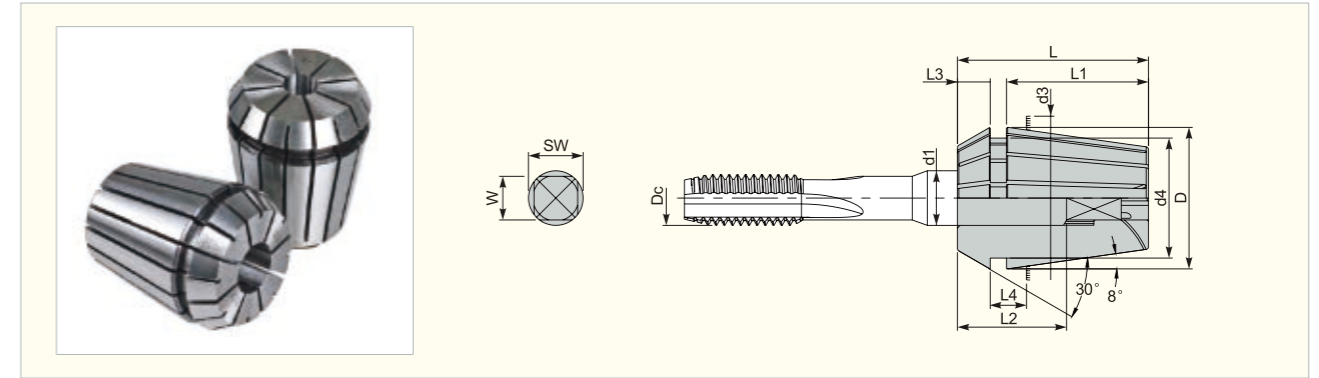
● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

ACCESSORIES 附件

攻丝 ER 筒夹

ER Collet for Tapping Chuck



ER32-G

规格型号 Designation	d1	SW	W	通用标准 Dc General Standard				L2	在庫 Stock
				ISO	JIS	DIN371	DIN376		
ER32-G2.24	2.24	2	1.8	M3	-	-	-	15	○
ER32-G2.5	2.5	2.2	2.1	-	-	-	M3.5	15	○
ER32-G2.5	2.5	2.2	2	M3.5	-	-	-	15	○
ER32-G2.8	2.8	2.6	2.1	-	-	-	M4	15	○
ER32-G3	3	2.8	2.5	-	M2	-	-	18	○
ER32-G3.15	3.15	2.9	2.5	M3,M4	-	-	-	18	○
ER32-G3.5	3.5	3.3	2.7	-	-	M3	M5	18	○
ER32-G3.55	3.55	3.3	2.8	M3.5,M4.5	-	-	-	18	○
ER32-G4	4	3.8	3	-	-	M3.5	-	18	○
ER32-G4	4	3.8	3.1	-	M3	-	-	18	○
ER32-G4	4	3.8	3.15	M4,M5	-	-	-	18	○
ER32-G4.5	4.5	4.3	3.4	-	-	M4	M6	18	○
ER32-G4.5	4.5	4.3	3.55	M6	-	-	-	18	○
ER32-G5	5	4.7	4	M5	M4,M4.5	-	-	18	○
ER32-G5.5	5.5	4.37	4.3	-	-	-	M7	18	○
ER32-G5.5	5.5	4.37	4.5	-	M5	-	-	18	○
ER32-G6	6	5.09	4.5	-	M6	-	-	18	○
ER32-G6	6	5.09	4.9	-	-	M5,M6	M8	18	○
ER32-G6.2	6.2	5.21	5	-	M7,M8	-	-	18	○
ER32-G6.3	6.3	5.21	5	M6,M8	-	-	-	18	○
ER32-G7	7	5.84	5.5	-	M9,M10	-	M10	18	○
ER32-G8	8	6.88	6	-	M11	-	-	22	○
ER32-G8	8	6.88	6.2	-	-	M8	-	22	○
ER32-G8	8	6.88	6.3	M8,M10	-	-	-	22	○
ER32-8.5	8.5	7.14	6.5	-	M12	-	-	22	○
ER32-G9	9	7.95	7	-	-	-	M12	22	○
ER32-G9	9	7.95	7.1	M12	-	-	-	22	○
ER32-G10	10	9.16	8	M10	-	M10	-	25	○
ER32-G10.5	10.5	9.16	8	-	M14,M15	-	-	25	○
ER32-G11	11	10.53	9	-	-	-	M14	25	○
ER32-G11.2	11.2	10.53	9	M14	-	-	-	25	○
ER32-G12	12	10.53	9	-	-	-	M16	25	○
ER32-G12.5	12.5	11.91	10	M16	M16	-	-	25	○
ER32-G13	13	11.91	10	-	M17	-	-	25	○
ER32-G14	14	12.97	11	-	M18	-	M18	28	○
ER32-G14	14	12.97	11.2	M18,M20	-	-	-	28	○
ER32-G15	15	14.06	12	-	M20	-	-	28	○
ER32-G16	16	14.06	12	-	-	-	M20	28	○
ER32-G16	16	14.06	12.5	M22	-	-	-	28	○
ER32-G17	17	15.44	13	-	M22	-	-	33	○
ER32-G18	18	17.52	14.5	-	-	-	M22,M24	33	○
ER32-G18	18	17.52	14	M24	-	-	-	33	○
ER32-G19	19	18.22	15	-	M24,M25	-	-	33	○
ER32-G20	20	19.61	15	-	M26,M27	-	-	33	○

- 请根据 D,d1,W 尺寸选择相对应的攻丝 ER 筒夹
- 订货示例: 1 件 ER32-G2.24 ISO
- Select the proper ER collet for tapping chuck according to the size of D, d1, W
- Ordering sample: 1 PC ER32-G2.24 ISO

● 标准库存
Item in stock

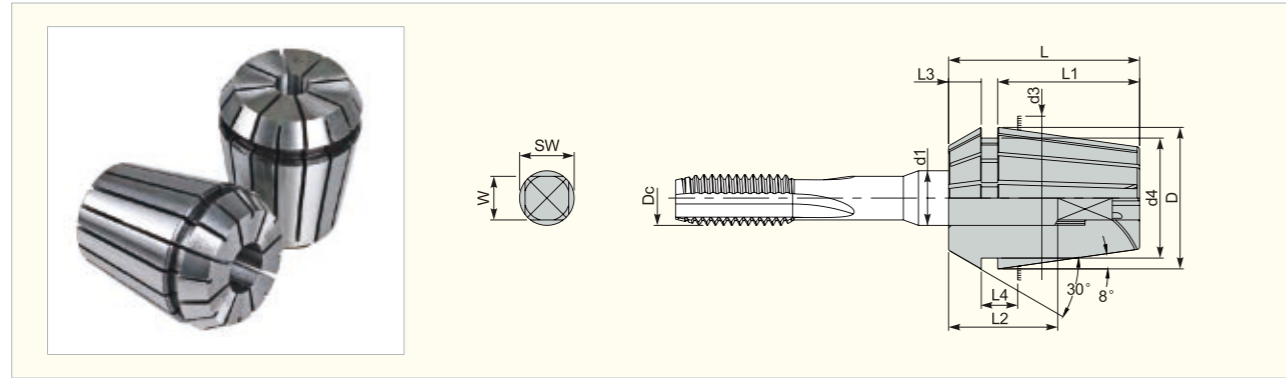
● 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

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Order on demand
(please confirm delivery time when ordering it)

ACCESSORIES 附件

攻丝 ER 筒夹

ER Collet for Tapping Chuck



ER40-G

规格型号 Designation	d1	SW	W	通用标准 Dc General Standard				L2	在庫 Stock
				ISO	JIS	DIN371	DIN376		
ER40-G2.24	2.24	2	1.8	M3	-	-	-	15	○
ER40-G2.5	2.5	2.2	2.1	-	-	-	M3.5	15	○
ER40-G2.8	2.8	2.6	2.1	-	-	-	M4	15	○
ER40-G3	3	2.8	2.5	-	M2	-	-	18	○
ER40-G3.15	3.15	2.9	2.5	M3,M4	-	-	-	18	○
ER40-G3.5	3.5	3.3	2.7	-	-	M3	M5	18	○
ER40-G3.55	3.55	3.3	2.8	M3.5,M4.5	-	-	-	18	○
ER40-G4	4	3.8	3	-	-	M3.5	-	18	○
	4	3.8	3.1	-	M3	-	-	18	○
ER40-G4.5	4.5	4.3	3.4	-	-	M4	M6	18	○
	4.5	4.3	3.55	M6	-	-	-	18	○
ER40-G5	5	4.7	4	M5	M4,M4.5	-	-	18	○
ER40-G5.5	5.5	4.37	4.3	-	-	-	M7	18	○
	5.5	4.37	4.5	-	M5	-	-	18	○
ER40-G6	6	5.09	4.5	-	M6	-	-	18	○
	6	5.09	4.9	-	-	M5,M6	M8	18	○
ER40-G6.2	6.2	5.21	5	-	M7,M8	-	-	18	○
ER40-G6.3	6.3	5.21	5	M6,M8	-	-	-	18	○
ER40-G7	7	5.84	5.5	-	M9,M10	-	M10	18	○
ER40-G8	8	6.88	6	-	M11	-	-	22	○
	8	6.88	6.2	-	-	M8	-	22	○
ER40-8.5	8	6.88	6.3	M8,M10	-	-	-	22	○
	8.5	7.14	6.5	-	M12	-	-	22	○
ER40-G9	9	7.95	7	-	-	-	M12	22	○
	9	7.95	7.1	M12	-	-	-	22	○
ER40-G10	10	9.16	8	M10	-	M10	-	25	○
ER40-G10.5	10.5	9.16	8	-	M14,M15	-	-	25	○
ER40-G11	11	10.53	9	-	-	-	M14	25	○
ER40-G11.2	11.2	10.53	9	M14	-	-	-	25	○
ER40-G12	12	10.53	9	-	-	-	M16	25	○
ER40-G12.5	12.5	11.91	10	M16	M16	-	-	25	○
ER40-G13	13	11.91	10	-	M17	-	-	25	○
ER40-G14	14	12.97	11	-	M18	-	M18	28	○
	14	12.97	11.2	M18,M20	-	-	-	28	○
ER40-G15	15	14.06	12	-	M20	-	-	28	○
ER40-G16	16	14.06	12	-	-	-	M20	28	○
	16	14.06	12.5	M22	-	-	-	28	○

- 请根据 D,d1,W 尺寸选择相对应的攻丝 ER 筒夹
- 订货示例: 1 件 ER40-G2.24 ISO
- Select the proper ER collet for tapping chuck according to the size of D, d1, W
- Ordering sample: 1 PC ER40-G2.24 ISO

● 标准库存
Item in stock

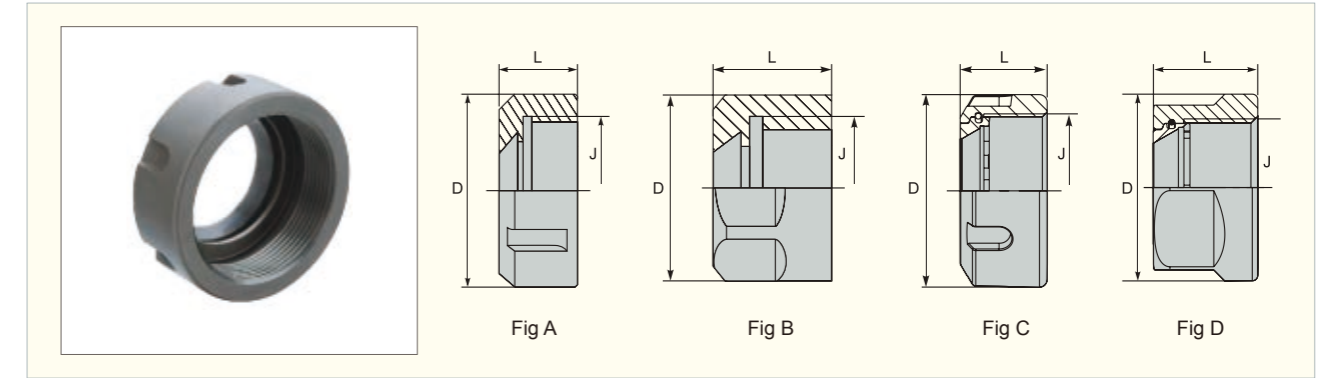
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ACCESSORIES 附件

ER 螺帽

ER NUT



形式 Style	规格型号 Designation	D	L	J	Fig	
普通型 General style (Standard style & Hexagon style)	六角型 Hex style	NUT ER16	28	17.5	M22x1.5	B
		NUT ER20	34	19	M25x1.5	
	标准型 Standard style	NUT ER25	42	20	M32x1.5	A
		NUT ER32	50	22.5	M40x1.5	
高精度型 High precision (Standard style & Hexagon style)	六角型 Hex style	NUT ER40	63	25.5	M50x1.5	D
		NUT ER16.TOP	28	17.5	M22x1.5	
	标准型 Standard style	NUT ER20.TOP	34	19	M25x1.5	C
		NUT ER25.TOP	42	20	M32x1.5	
		NUT ER32.TOP	50	22.5	M40x1.5	
		NUT ER40.TOP	63	25.5	M50x1.5	

- TOP 螺帽不推荐装夹攻丝 ER 筒夹
- Select the proper ER collet for tapping chuck according to the size

小径 ER 螺母

ER Nut with Small Diameter

形式 Style	规格型号 Designation	D	L	J	Fig	
普通型 General style (Standard style & Hexagon style)	标准型 Hex style	NUT ER16-M	22	18	M19x1.0	A
		NUT ER20-M	28	19	M24x1.0	
	标准型 Standard style	NUT ER25-M	35	20	M30x1.0	A

ACCESSORIES 附件

高精度型 ER 螺帽

High Precision ER Nut

螺帽说明 Description

摩擦轴承 ER 螺帽具有独特的双摩擦结构的设计，可实现径向和角度方向的自定心功能。
Friction bearing ER nut with a unique two piece exclusive friction mechanism, combining radial and angular self-centering movements.

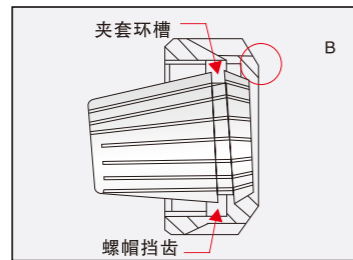
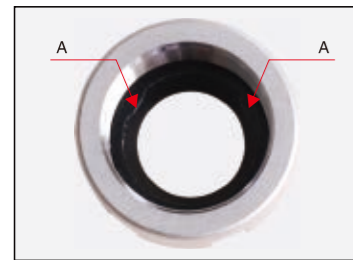
特征 Features

- 独特的双摩擦轴承；
- 径向和角度的浮动设计，可获得更好的同心度；
- 独特的摩擦轴承结构可获得具有更高的夹持力，对比于标准 ER 螺帽其夹持力可增加 50-100%；
- 螺帽内端面其独特的挡齿设计，在高的转速下保持更好的平稳性；
- 紧凑结构设计—与标准螺帽一致的尺寸规格；
- 可装夹密封型筒夹；
- Unique two-piece friction bearing.
- Radial and angular float for better concentricity.
- Powerful gripping force, 50-100% higher than the standard ER nut, due to the friction bearing mechanism.
- Balanced for higher spindle spin due to unique extractor teeth design.
- Compact design-general dimensions and size range are the same as the standard nut.
- Designed for use with sealed collets.

装夹顺序 Insertion Procedure

- 将筒夹倾斜插入螺帽内，并使螺帽的挡齿 (A) 卡在筒夹的环槽 (B) 内。
- 将上述两者部件一起放置在清洁、水平的工作台上。
- 用拇指向下压筒夹直到卡入螺帽内 (C)。
- Insert the collet at an angle, fitting the two extractor teeth which picture (A) into the collet's groove (B).
- Place the two parts on a clean and horizontal work surface.
- Press down with your thumb on the back end of the collet until it clicks into place (C).

螺帽必须先装入筒夹后，再安装在弹簧夹头刀柄上
Always assemble the collet into the nut before mounting onto the collet chuck.

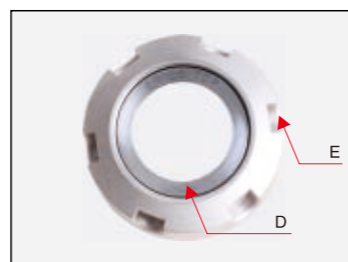


注意 Notes

- 禁止将筒夹平行装入螺帽。否则将造成螺帽挡齿的破损。
- 当松开螺帽时，通过螺帽上的挡齿作用，筒夹可自动与刀柄联结的内锥孔分离。
- Never insert the collet parallel to the extractor ring. Doing this will chip or break the extractor's teeth.
- When unclamping the nut, the collet will self-release from the chuck by means of extractor teeth.

拆卸顺序 Extraction procedure

- 旋转螺帽，使螺帽的任意锁紧槽 (E) 对准筒夹端面上的菱形图标；
- 将此时的螺帽、筒夹扣放在水平、洁净的工作台上；
- 将螺丝刀对正图示 (D) 菱形图标位置，垂直插入螺帽和筒夹之间；
- 将螺丝刀向外扳，同时沿内侧方向 (F) 按住筒夹后端，卸开筒夹。
- Align the engraved diamond shape which is on the silver ring (D), with any of the key slots (E) of the nut.
- Place the nut with the collet facing down on a clean and horizontal work surface.
- Insert a screwdriver vertically between the nut slots and the collet on the reverse side of the engraved diamond shape (D).
- Tilt the screwdriver outwards, while helping the extraction by pushing the collet's back end in the opposite direction (F).



推荐扭矩 - 对于标准弹簧夹头 (标准筒夹与前端螺帽)

Recommended clamping torque for standard ER & ER-top clamping nut.

注释 Remarks

- 为达到最佳性能，在使用前，螺帽的螺纹和筒夹锥面需洁净，并涂上润滑油。
- For maximum performance the clamping nut thread and collet taper must be cleaned and oiled before use.

规格型号 Designation	Kg.m
ER16	7
ER20	12
ER25	20
ER32	22
ER40	25

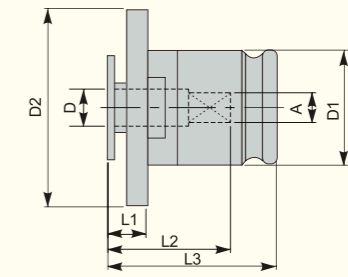
注意 Important

- 推荐的扭矩值是安装夹最大柄径 (每夹套规格) 计算，如装夹较小柄径时，扭矩需相应减少。
- This torque is calculated with the maximum diameter capacity per collet which should be gradually reduced when used with a smaller shank size.

ACCESSORIES 附件

丝锥快换夹头—不带过载保护

Quick Change Chuck without Overload Protection



规格型号 Designation	D	A	D1	D2	L1	L2	L3	Kg						在库 Stock
									ISO529	ISO529/ISO2283	JISNB4430	DIN371	DIN374/DIN376	
TPR412 D2.8x2.1	2.8	2.1	19	36	11	25	33	0.1	-	-	-	M2-M2.5	M4	o
TPR412 D3.15x2.5	3.15	2.5	19	36	12	26	34	0.1	M3	M4	-	-	-	o
TPR412 D3.55x2.8	3.55	2.8	19	36	12	26	34	0.1	M3.5	M4.5	-	M3	M4.5-M5	o
TPR412 D4x3.15	4	3.15	19	36	12	27	34	0.1	M4	M5	-	M3.5	-	o
TPR412 D4.5x3.55	4.5	3.55	19	36	12	27	34	0.1	M4.5	M6	-	M4	M6	o
TPR412 D5x4	5	4	19	36	12	28	34	0.1	M5	-	M4-M4.5	-	-	o
TPR412 D5.5x4.5	5.5	4.5	19	36	11	27	34	0.1	-	-	M5	-	-	o
TPR412 D6x4.5	6	4.5	19	36	12	28	34	0.1	-	-	M6	-	-	o
TPR412 D6x4.9	6	4.9	19	36	12	29	34	0.1	-	-	-	M4.5-M6	M8	o
TPR412 D6.3x5	6.3	5	19	36	12	29	34	0.1	M6	M8	M7-M8	-	-	o
TPR412 D7x5.5	7	5.5	19	36	12	29	34	0.1	-	-	M9-M10	M7	M10	o
TPR412 D8x6.3	8	6.3	19	36	12	30	34	0.1	M8	M10-M11	-	M8	-	o
TPR412 D8.5x6.5	8.5	6.5	19	36	12	30	34	0.1	-	-	M12	-	-	o
TPR412 D9x7.1	9	7.1	19	36	12	30	34	0.1	M9	M12	-	-	M12	o
TPR412 D10x8	10	8	19	36	12	33	34	0.1	M10	-	-	M10	-	o
TPR820 D6x4.9	6	4.9	31	53.5	10	30	46	0.2	-	-	-	M4.5-M6	M8	o
TPR820 D6.3x5	6.3	5	31	53.5	11	31	46	0.2	M6	M8	M7-M8	-	-	o
TPR820 D7x5.5	7	5.5	31	53.5	10	30	46	0.2	-	-	M9-M10	M7	M10	o
TPR820 D8x6.3	8	6.3	31	53.5	10	31	46	0.2	M8	M10-M11	-	M8	-	o
TPR820 D8.5x6.5	8.5	6.5	31	53.5	10	31	46	0.2	-	-	M12	-	-	o
TPR820 D9x7.1	9	7.1	31	53.5	11	32	46	0.2	M9	M12	-	-	M12	o
TPR820 D10x8	10	8	31	53.5	10	33	46	0.2	M10	-	-	M10	-	o
TPR820 D10.5x8	10.5	8	31	53.5	11	43	46	0.2	-	-	M14	-	-	o
TPR820 D11.2x9	11.2	9	31	53.5	11	43	46	0.2	-	M13-M15	-	-	M14	o
TPR820 D12x9	12	9	31	53.5	11	45	46	0.2	-	-	-	-	M16	o
TPR820 D12.5x10	12.5	10	31	53.5	11	45	46	0.2	-	M16-M17	M16	-	-	o
TPR820 D14x11.2	14	11.2	31	53.5	11	45	46	0.2	-	M18-M21	M18	-	M18	o
TPR820 D15x12	15	12	31	53.5	11	45	46	0.2	-	-	M20	-	-	o
TPR820 D16x12	16	12	31	53.5	11	45	46	0.2	-	-	-	-	M20	o
TPR1433 D10.5x8	10.5	8	48	78	11	43	67	0.8	-	-	M14	-	-	o
TPR1433 D11.2x9	11.2	9	48	78	11	43	67	0.8	-	M13-M15	-	-	M14	o
TPR1433 D12x9	12	9	48	78	11	43	67	0.8	-	-	-	-	M16	o
TPR1433 D12.5x10	12.5	10	48	78	11	44	67	0.8	-	M16-M17	M16	-	-	o
TPR1433 D14x11.2	14	11.2	48	78	11	45	67	0.8	-	M18-M21	M18	-	M18	o
TPR1433 D15x12	15	12	48	78	11	46	67	0.8	-	-	M20	-	-	o
TPR1433 D16x12	16	12	48	78	11	46	67	0.8	-	-	-	-	M20	o
TPR1433 D16x12.5	16	12.5	48	78	11	52	67	0.8	-	M22-M23	-	-	-	o
TPR1433 D17x13	17	13	48	78	11	53	67	0.8	-	-	M22	-	-	o
TPR1433 D18x14	18	14	48	78	11	56	67	0.8	-	M24-M26	-	-	-	o
TPR1433 D18x14.5	18	14.5	48	78	11	52	67	0.8	-	-	-	-	M22-M26	o
TPR1433 D19x15	19	15	48	78	11	56	67	0.8	-	-	M22	-	-	o
TPR1433 D20x15	20	15	48	78	11	56	67	0.8	-	-	M27	-	-	o
TPR1433 D20x16	20	16	48	78	11	57	67	0.8	-	M27-M30	-	-	M27	o
TPR1433 D22.4x18	22.4	18	48	78	11	58	67	0.7	-	M31-M33	-	-	M29-M32	o
TPR1433 D23x17	23	17	48	78	11	57	67	0.7	-	-	M30	-	-	o
TPR1433 D25x19	25	19	48	78	11	58	67	0.7	-	-	M33	-	-	o
TPR1433 D25x20	25	20	48	78	11	60	67	0.7	-	-	-	-	M33	o

● 标准库存
Item in stock

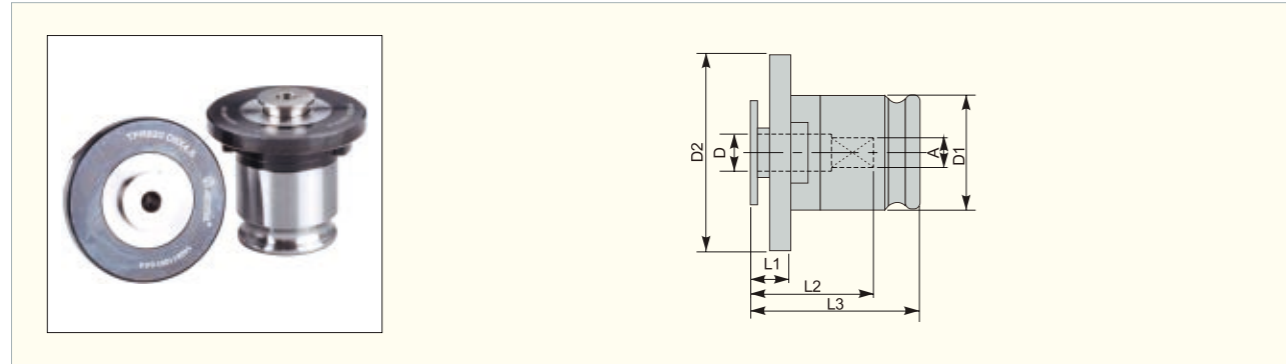
● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

ACCESSORIES 附件

丝锥快换夹头—不带过载保护

Quick Change Chuck without Overload Protection



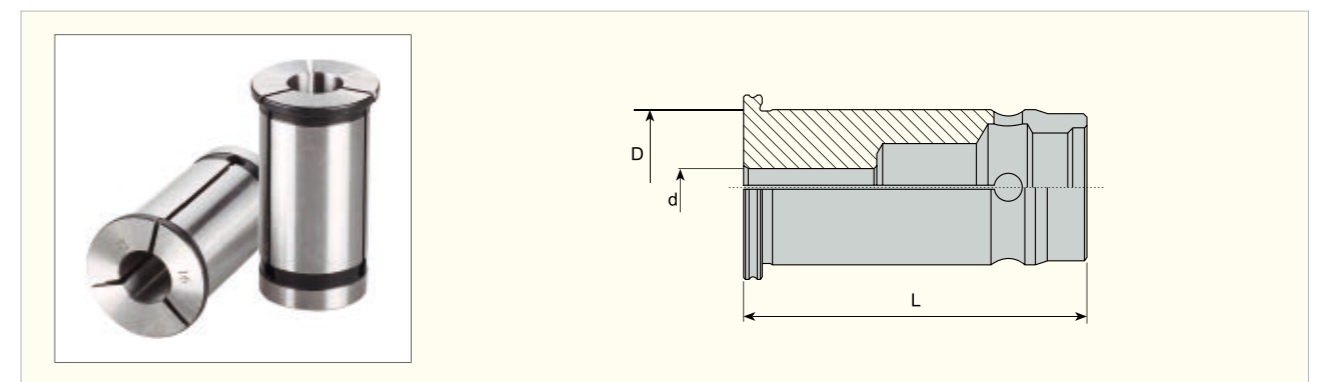
规格型号 Designation	D	A	D1	D2	L1	L2	L3	Kg						在库 Stock	
									A	B	C	D	E		
									ISO529	ISO529/ISO2283	JISNB4430	DIN371	DIN374/DIN376		
TPR2248 D16x12.5	16	12.5	60	96	16	53	80	1.6	-	M22-M23	-	-	-	-	○
TPR2248 D17x13	17	13	60	96	16	53	80	1.6	-	-	M22	-	-	-	○
TPR2248 D18x14	18	14	60	96	16	53	80	1.6	-	M24-M26	-	-	-	-	○
TPR2248 D18x14.5	18	14.5	60	96	16	54	80	1.6	-	-	-	-	M22-M26	-	○
TPR2248 D19x15	19	15	60	96	16	54	80	1.5	-	-	M24	-	-	-	○
TPR2248 D20x15	20	15	60	96	16	54	80	1.5	-	-	M27	-	-	-	○
TPR2248 D20x16	20	16	60	96	16	57	80	1.6	-	M27-M30	-	-	M27	-	○
TPR2248 D22.4x18	22.4	18	60	96	16	58	80	1.5	-	M31-M33	-	-	M29-M32	-	○
TPR2248 D23x17	23	17	60	96	16	56	80	1.5	-	-	M30	-	-	-	○
TPR2248 D25x19	25	19	60	96	16	59	80	1.5	-	-	M33	-	-	-	○
TPR2248 D25x20	25	20	60	96	16	60	80	1.5	-	-	-	-	M33	-	○
TPR2248 D28x21	28	21	60	96	22	73	86	1.5	-	-	M36	-	-	-	○
TPR2248 D28x22	28	22	60	96	22	74	86	1.5	-	-	-	-	M34-M38	-	○
TPR2248 D28x22.4	28	22.4	60	96	22	75	86	1.5	-	M37-M42	-	-	-	-	○
TPR2248 D30x23	30	23	60	96	22	75	86	1.5	-	-	M39	-	-	-	○
TPR2248 D31.5x25	31.5	25	60	96	22	77	86	1.5	-	M44-M50	-	-	-	-	○
TPR2248 D32x24	32	24	60	96	22	76	86	1.5	-	-	-	-	M39-M42	-	○
TPR2248 D32x26	32	26	60	96	22	79	86	1.5	-	-	M42	-	-	-	○
TPR2248 D35x26	35	26	60	96	22	79	86	1.5	-	-	M45	-	-	-	○
TPR2248 D36x29	36	29	60	96	22	81	86	1.5	-	-	-	-	M44-M50	-	○
TPR2248 D38x29	38	29	60	96	22	81	86	1.5	-	-	M48	-	-	-	○

- 每个尺寸的丝锥都需要一个快换件，按照 D,A 订购；
- 订货示例：1 件 TPR820 D9x7.1
- A,D 为粗柄普通螺纹丝锥；
- B,E 为细柄普通粗牙螺纹丝锥；
- C 为等径普通粗牙螺纹丝锥。
- Each tap has its own corresponded quick change chuck, please refer to order as figure D, A
- Ordering sample: 1 PC TPR820 D9x7.1
- A, D The taps with ordinary pitch and thick shank
- B, E The taps with ordinary coarse pitch and thin shank
- C The taps with ordinary coarse pitch and equal dia.

ACCESSORIES 附件

强力刀柄直筒夹

Straight Collet for Power Chuck Chuck Adaptor

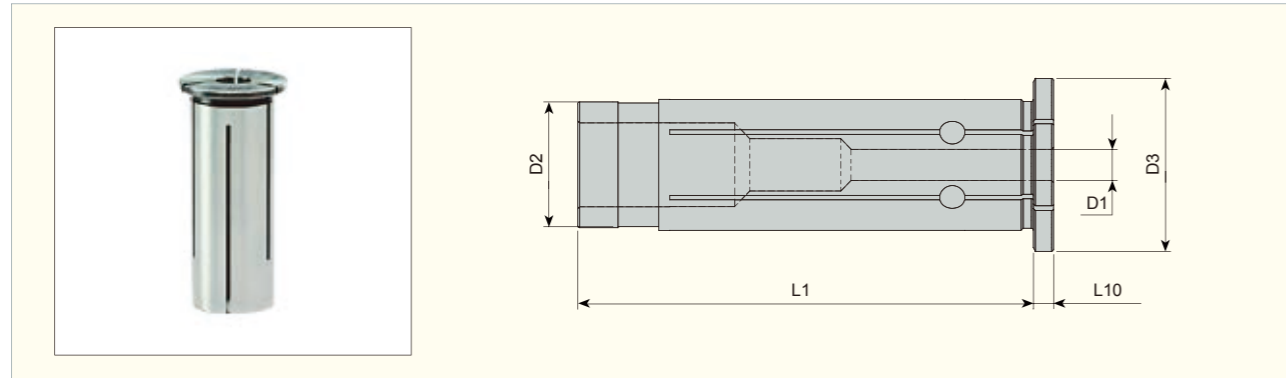


规格型号 Designation	D	d	L
C32-D4	32	4	70
C32-D6	32	6	70
C32-D8	32	8	70
C32-D10	32	10	70
C32-D12	32	12	70
C32-D15	32	15	70
C32-D16	32	16	70
C32-D19	32	19	70
C32-D20	32	20	70
C32-D22	32	22	70
C32-D24	32	24	70
C32-D25	32	25	70

ACCESSORIES 附件

液压刀柄变径套

Reduction Sleeve for Hydraulic Chuck Adaptor

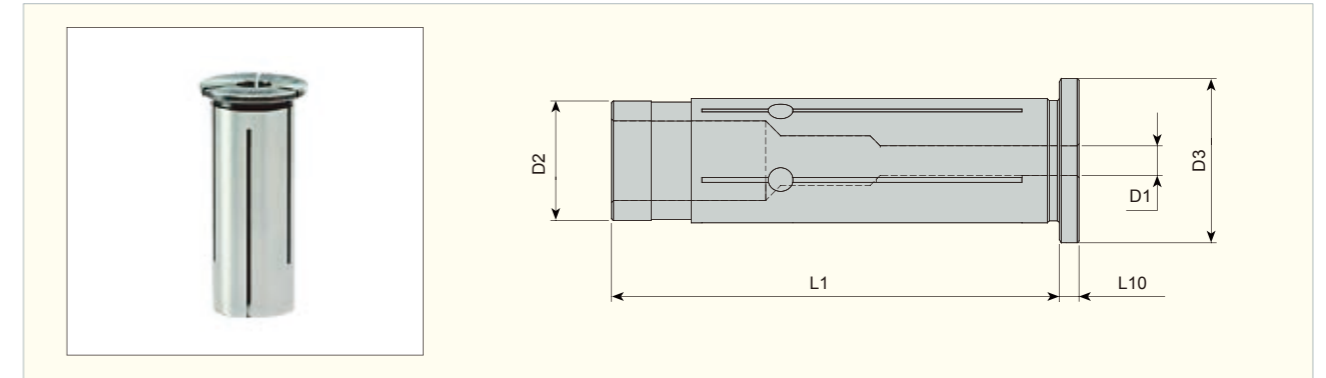


规格型号 Designation	D1	D2	D3	L1	L10	kg
HC12-3	3	12	16.5	45	2	0.1
HC12-4	4	12	16.5	45	2	0.1
HC12-5	5	12	16.5	45	2	0.1
HC12-6	6	12	16.5	45	2	0.1
HC12-8	8	12	16.5	45	2	0.1
HC20-3	3	20	24.5	50.5	2	0.1
HC20-4	4	20	24.5	50.5	2	0.1
HC20-5	5	20	24.5	50.5	2	0.1
HC20-6	6	20	24.5	50.5	2	0.1
HC20-7	7	20	24.5	50.5	2	0.1
HC20-8	8	20	24.5	50.5	2	0.1
HC20-9	9	20	24.5	50.5	2	0.1
HC20-10	10	20	24.5	50.5	2	0.1
HC20-11	11	20	24.5	50.5	2	0.1
HC20-12	12	20	24.5	50.5	2	0.1
HC20-13	13	20	24.5	50.5	2	0.1
HC20-14	14	20	24.5	50.5	2	0.1
HC20-15	15	20	24.5	50.5	2	0.1
HC20-16	16	20	24.5	50.5	2	0.1
HC32-6	6	32	36.5	60.5	3	0.3
HC32-8	8	32	36.5	60.5	3	0.3
HC32-10	10	32	36.5	60.5	3	0.3
HC32-12	12	32	36.5	60.5	3	0.3
HC32-14	14	32	36.5	60.5	3	0.3
HC32-16	16	32	36.5	60.5	3	0.3
HC32-18	18	32	36.5	60.5	3	0.3
HC32-20	20	32	36.5	60.5	3	0.3
HC32-25	25	32	36.5	60.5	3	0.3

ACCESSORIES 附件

液压刀柄变径套 – 内冷型

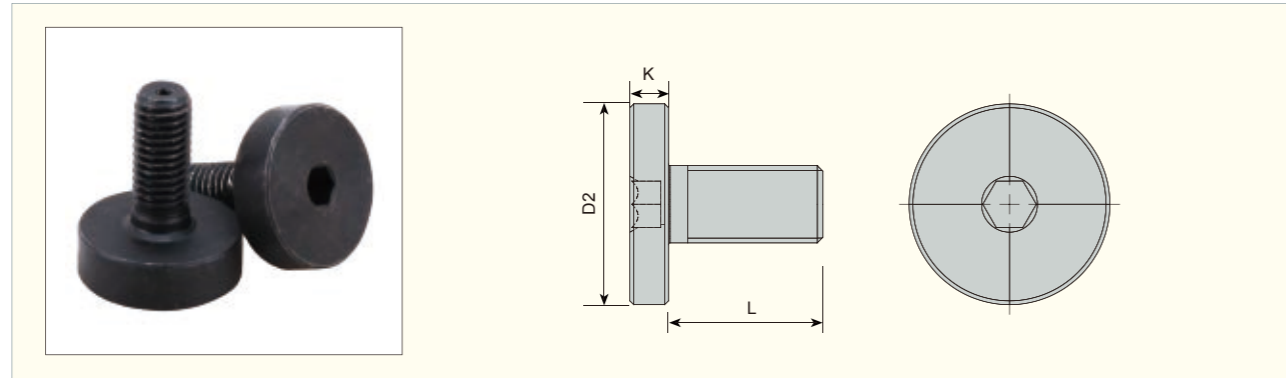
Reduction Sleeve with Coolant for Hydraulic Chuck Adaptor



规格型号 Designation	D1	D2	D3	L1	L10	kg
HC12-3.C	3	12	16.5	45	2	0.1
HC12-4.C	4	12	16.5	45	2	0.1
HC12-5.C	5	12	16.5	45	2	0.1
HC12-6.C	6	12	16.5	45	2	0.1
HC12-8.C	8	12	16.5	45	2	0.1
HC20-3.C	3	20	24.5	50.5	2	0.1
HC20-4.C	4	20	24.5	50.5	2	0.1
HC20-5.C	5	20	24.5	50.5	2	0.1
HC20-6.C	6	20	24.5	50.5	2	0.1
HC20-7.C	7	20	24.5	50.5	2	0.1
HC20-8.C	8	20	24.5	50.5	2	0.1
HC20-9.C	9	20	24.5	50.5	2	0.1
HC20-10.C	10	20	24.5	50.5	2	0.1
HC20-11.C	11	20	24.5	50.5	2	0.1
HC20-12.C	12	20	24.5	50.5	2	0.1
HC20-13.C	13	20	24.5	50.5	2	0.1
HC20-14.C	14	20	24.5	50.5	2	0.1
HC20-15.C	15	20	24.5	50.5	2	0.1
HC20-16.C	16	20	24.5	50.5	2	0.1
HC32-6.C	6	32	36.5	60.5	3	0.3
HC32-8.C	8	32	36.5	60.5	3	0.3
HC32-10.C	10	32	36.5	60.5	3	0.3
HC32-12.C	12	32	36.5	60.5	3	0.3
HC32-14.C	14	32	36.5	60.5	3	0.3
HC32-16.C	16	32	36.5	60.5	3	0.3
HC32-18.C	18	32	36.5	60.5	3	0.3
HC32-20.C	20	32	36.5	60.5	3	0.3
HC32-25.C	25	32	36.5	60.5	3	0.3

ACCESSORIES 附件

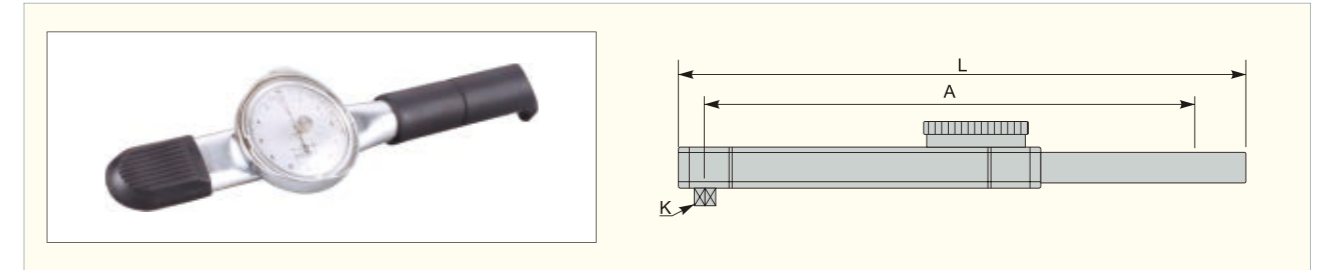
大圆头螺钉 Truss Head Screw



规格型号 Designation	D1	D2	K	L
SRB22-M10	M10	28	9	25
SRB27-M12	M12	35	10	30
SRB32-M16	M16	42	11	35
SRB40-M20	M20	52	12	40

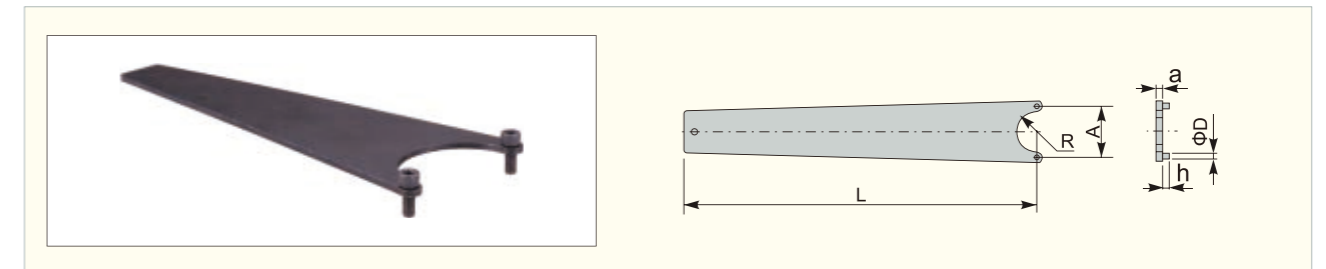
ACCESSORIES 附件

单臂扭矩扳手 Torque Wrench



规格型号 Designation	扭矩 (N.M) Torque	测量范围 Range	K	L	A	附带转换套筒 Sleeve
KEY50 N12	1-12	M4-M6	6.3	305	260	S6-6.3A 型
KEY50 N50	5-50	M8-M12	9.5	355	290	S10-10A 型
KEY50 N200	20-200	M14-M22	12.5	495	420	S18-12.5A 型
KEY50 N1000	100-1000	M24-M48	25.4	1330	1260	S27-25/S34-25

调节扳手 Adjustable Wrench

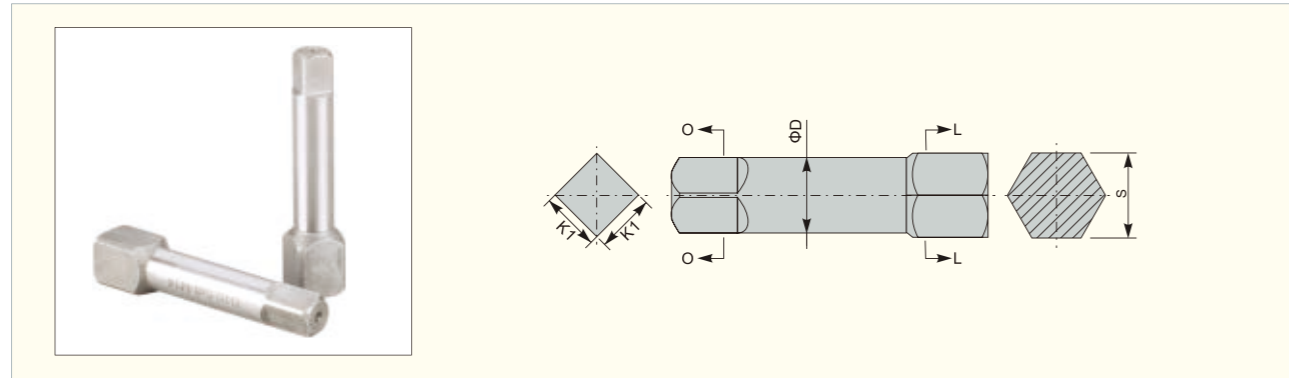


规格型号 Designation	R mm	ΦD mm	A mm	L mm	a mm	h mm	用于快换件 Quick change chuck	重量 kg
KEY51 A412	9	3	23	200	5	5	TPS412	0.18
KEY51 A820	14.5	4	37	260	5	5	TPS820	0.36
KEY51 A1433	22	5	55	260	5	5	TPS1433	0.45
KEY51 A2248	30	6	72	260	5	5	TPS2248	0.53

ACCESSORIES 附件

方头螺栓

Coach Bolt

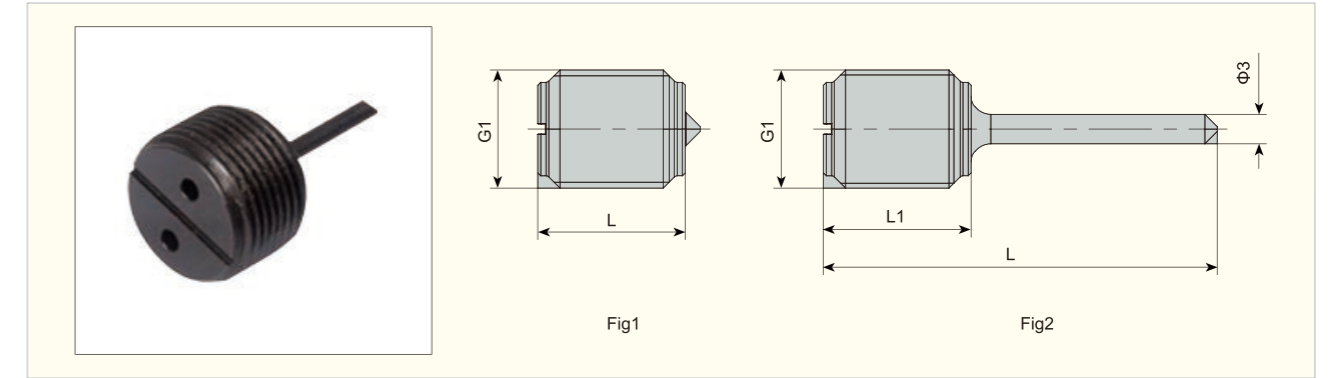


规格型号 Designation	适用扭矩扳手 Torque wrench	适用转换套筒 Sleeve	S	D	K1
KEY52 D2.8x2.1	KEY50 N12	S6-6.3	6	2.8	2.1
KEY52 D3.15x2.5	KEY50 N12	S6-6.3	6	3.15	2.5
KEY52 D3.55x2.8	KEY50 N12	S6-6.3	6	3.55	2.8
KEY52 D4x3.15	KEY50 N12	S6-6.3	6	4	3.15
KEY52 D4.5x3.55	KEY50 N12	S6-6.3	6	4.5	3.55
KEY52 D5x4	KEY50 N12	S6-6.3	6	5	4
KEY52 D5.5x4.5	KEY50 N12	S6-6.3	6	5.5	4.5
KEY52 D6x4.5	KEY50 N12	S6-6.3	6	6	4.5
KEY52 D6.4.9	KEY50 N12	S6-6.3	6	6	4.9
KEY52 D6.3x5	KEY50 N50	S10-10	10	6.3	5
KEY52 D7x5.5	KEY50 N50	S10-10	10	7	5.5
KEY52 D8x6.3	KEY50 N50	S10-10	10	8	6.3
KEY52 D8.5x6.5	KEY50 N50	S10-10	10	8.5	6.5
KEY52 D9x7.1	KEY50 N50	S10-10	10	9	7.1
KEY52 D10x8	KEY50 N50	S10-10	10	10	8
KEY52 D10.5x8	KEY50 N200	S18-12.5	18	10.5	8
KEY52 D11.2x9	KEY50 N200	S18-12.5	18	11.2	9
KEY52 D12x9	KEY50 N200	S18-12.5	18	12	9
KEY52 D12.5x10	KEY50 N200	S18-12.5	18	12.5	10
KEY52 D15x12	KEY50 N200	S18-12.5	18	15	12
KEY52 D16x12	KEY50 N200	S18-12.5	18	16	12
KEY52 D16x12.5	KEY50 N200	S18-12.5	18	16	12.5
KEY52 D17x13	KEY50 N200	S18-12.5	18	17	13
KEY52 D18x14.5	KEY50 N200	S18-12.5	18	18	14.5
KEY52 D18x14	KEY50 N1000	S27-25	27	19	14
KEY52 D19x15	KEY50 N1000	S27-25	27	20	15
KEY52 D20x15	KEY50 N1000	S27-25	27	20	15
KEY52 D20x16	KEY50 N1000	S27-25	27	22.4	16
KEY52 D22.4x18	KEY50 N1000	S27-25	27	23	18
KEY52 D23x17	KEY50 N1000	S27-25	27	25	17
KEY52 D25x19	KEY50 N1000	S27-25	27	25	19
KEY52 D25x20	KEY50 N1000	S27-25	27	28	20
KEY52 D28x21	KEY50 N1000	S34-25	34	28	21
KEY52 D28x22	KEY50 N1000	S34-25	34	28	22
KEY52 D28x22.4	KEY50 N1000	S34-25	34	28	22.4
KEY52 D30x23	KEY50 N1000	S34-25	34	30	23
KEY52 D31.5x25	KEY50 N1000	S34-25	34	31.5	25
KEY52 D32x24	KEY50 N1000	S34-25	34	32	24
KEY52 D32x26	KEY50 N1000	S34-25	34	32	26
KEY52 D35x26	KEY50 N1000	S34-25	34	35	26
KEY52 D36x29	KEY50 N1000	S34-25	34	36	29
KEY52 D38x29	KEY50 N1000	S34-25	34	38	29

ACCESSORIES 附件

ER 刀柄后定位螺钉

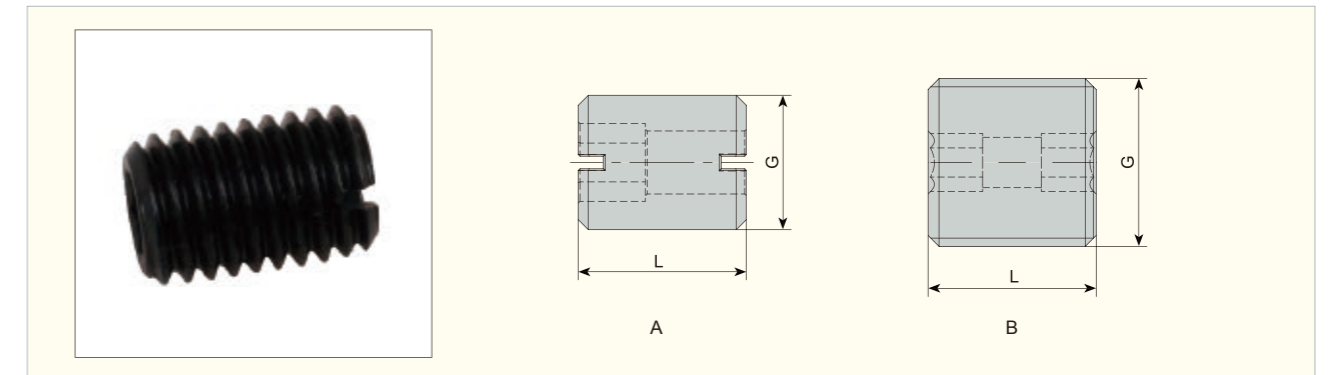
Backstop Screw for ER Collet Chuck



规格型号 Designation	G1	L	G	Fig
SRB ER-M8	M8	15	-	Fig1
SRB ER-M10	M10	15	-	Fig1
SRB ER-M12	M12	15	-	Fig1
SRB ER-M12L	M12	40	15	Fig2
SRB ER-M16	M16	15	-	Fig1
SRB ER-M16L	M16	40	15	Fig2
SRB ER-M18x1.5	M18x1.5	15	-	Fig1
SRB ER-M18x1.5L	M18x1.5	40	15	Fig2
SRB ER-M22x1.5	M22x1.5	15	-	Fig1
SRB ER-M22x1.5L	M22x1.5	40	15	Fig2
SRB ER-M28x1.5	M28x1.5	15	-	Fig1

轴向调节螺钉

Axial adjusting screw

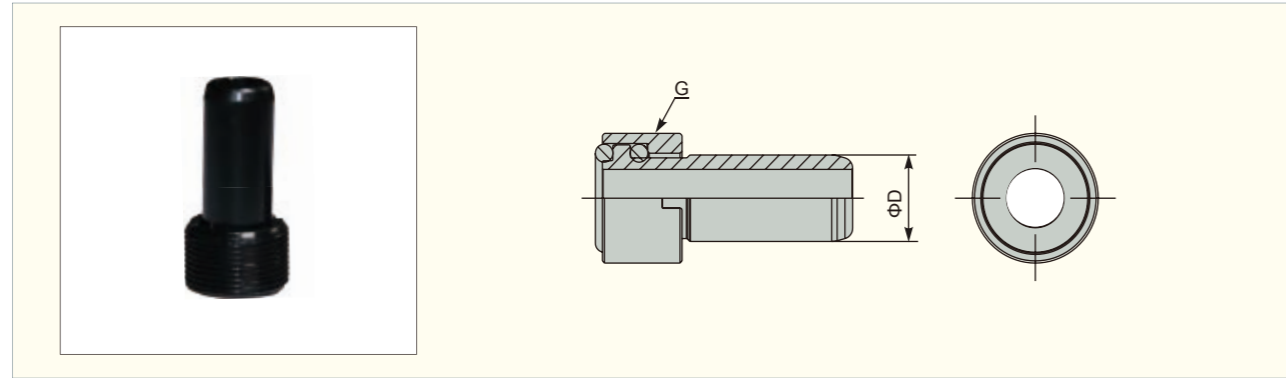


规格型号 Designation	G	L	适配扳手 Wrench	Fig
SR50 M12X18.BC	M12	18	KEY01 M6	A
SR50 M16X20.BC	M16	20	KEY01 M8	A
SR50 M20X20-X.BC	M20X2	20	KEY01 M6	B

ACCESSORIES 附件

HSK-A 型冷却管

HSK Type A Coolant Tube

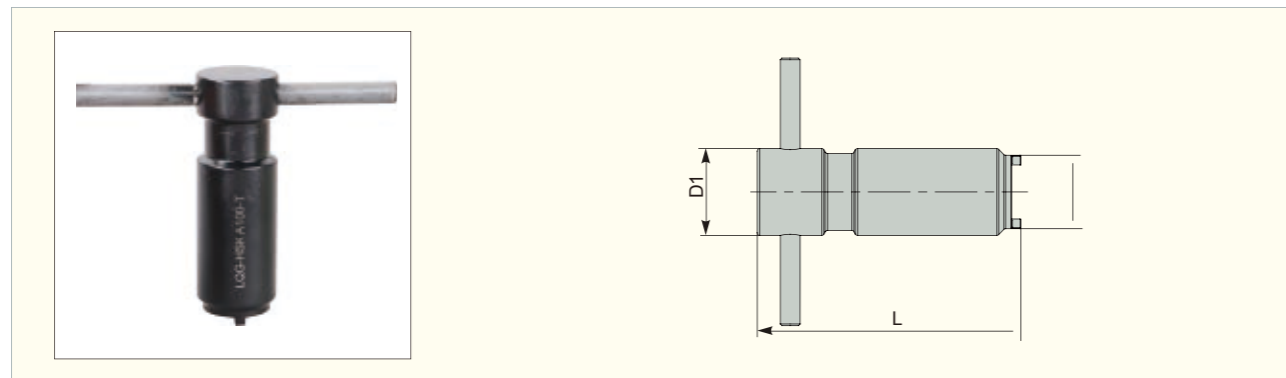


规格型号 Designation	D	G	O 型圈 (内径 x 线径) Size
LQG-HSK A63	12	M18x1	FT91 D10x2.5
LQG-HSK A100	16	M24x1.5	FT91 D15x3

- 订货示例: 1 件 LQG-HSK A63
- Ordering sample: 1 PC LQG-HSK A63-T

HSK-A 型冷却管扳手

Allen key for HSK Type A Coolant Tube



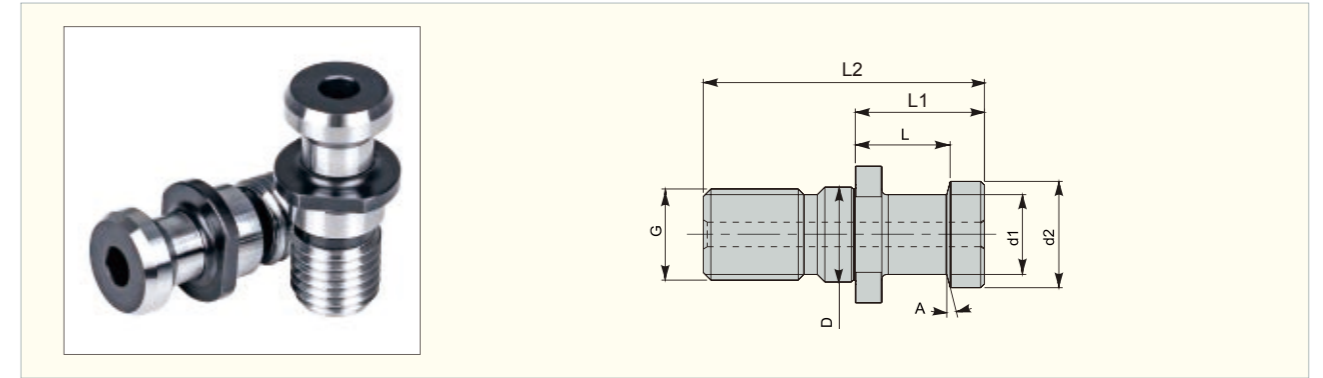
规格型号 Designation	D	D1	L
LQG-HSK A63-T	16.5	20	70
LQG-HSK A100-T	22	26	80

- 订货示例: 1 件 LQG-HSK A63-T
- Ordering sample: 1 PC LQG-HSK A63-T

ACCESSORIES 附件

ISO7388/2 A 型 / GB10945 A 型

1507388/2 A style /GB10945 A style

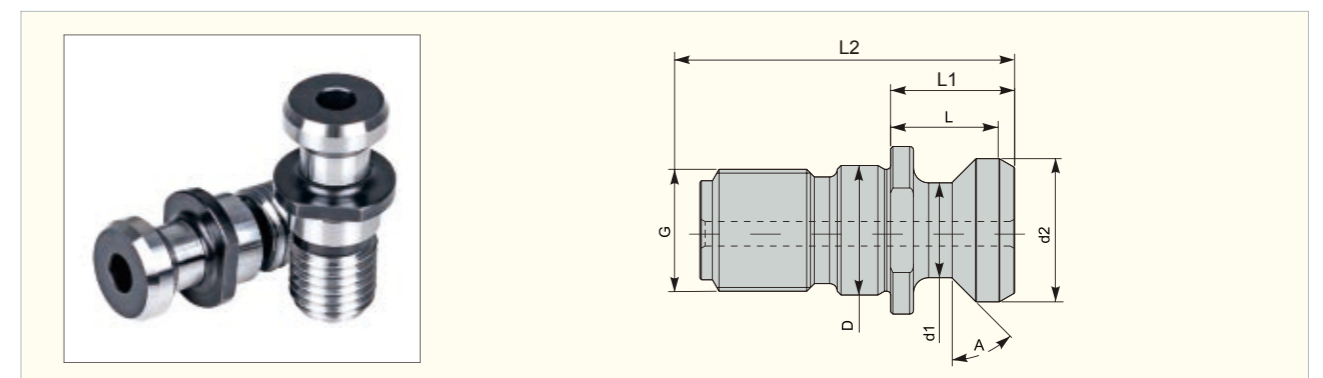


规格型号 Designation	尺寸 (mm) Dimension								重量 (kg) Weight
	G	D	d1	d2	L	L1	L2	A	
PS SK30 15 ISO7388-A.C	M12	13	8	12	19	24	44	15°	0.04
PS SK40 15 ISO7388-A.C	M16	17	14	19	20	26	54	15°	0.08
PS SK50 15 ISO7388-A.C	M24	25	21	28	25	34	74	15°	0.25

- 型号尾部带有 .C 字样的表示带有冷孔。
- Code 'C' at the end of designation indicates internal coolant hole with pull stud

ISO7388/2 B 型 / GB10945 B 型

1507388/2 B style /GN10945 B style

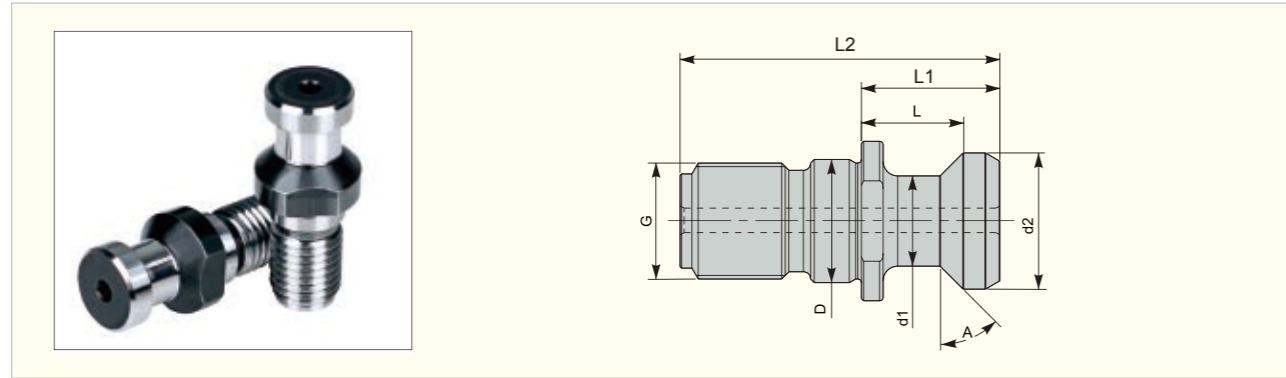


规格型号 Designation	尺寸 (mm) Dimension								重量 (kg) Weight
	G	D	d1	d2	L	L1	L2	A	
PS SK30 45 ISO7388-B.C	M12	13	9.3	13.3	8.15	11.8	27	45°	0.04
PS SK40 45 ISO7388-B.C	M16	17	12.95	18.95	11.15	16.4	44.5	45°	0.07
PS SK50 45 ISO7388-B.C	M24	25	19.6	29.1	17.95	25.55	65.5	45°	0.22

- 型号尾部带有 .C 字样的表示带有冷孔。
- Code 'C' at the end of designation indicates internal coolant hole with pull stud

ACCESSORIES 附件

MAZAK-BTIJIS 6339

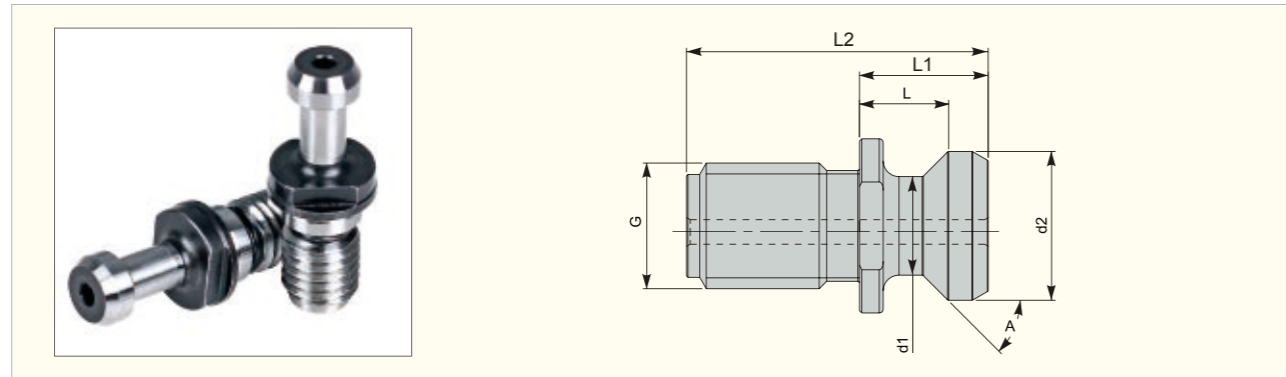


规格型号 Designation	尺寸 (mm) Dimension								重量 (kg) Weight
	G	D	d1	d2	L	L1	L2	A	
PS BT40 45 MAZAK.C	M16	17	12.45	18.8	14.02	19.1	44.1	45°	0.05
PS BT50 45 MAZAK.C	M24	25	20.83	29	17.7	25.2	65.2	45°	0.19
PS BT30 15 JIS B	M12	12.5	8	12	18.4	23.4	43	15°	0.04
PS BT40 15 JIS B	M16	17	14	19	23	29	54	15°	0.08
PS BT50 15 JIS B	M24	25	21	28	25	34	74	15°	0.25

- 型号尾部带有 .C 字样的表示带有冷孔
- Code 'C' at the end of designation indicates internal coolant hole with pull stu

ANSI B5.50 标准

ANSI B5.50 Standard



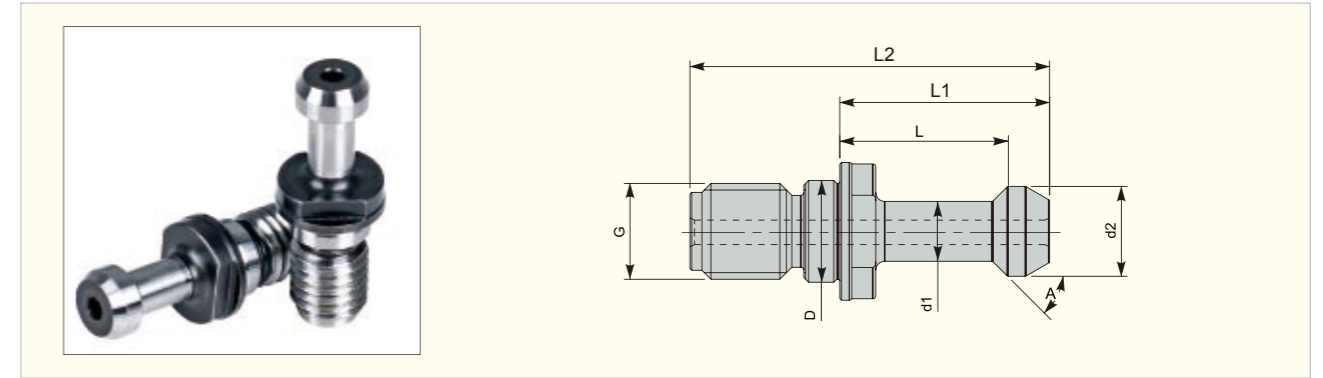
规格型号 Designation	尺寸 (mm) Dimension								重量 (kg) Weight
	G	D	d1	d2	L	L1	L2	A	
PS CAT30 45 ANSI	1/2"-13	-	0.385	0.52	0.32	0.46	1.1	45°	0.03
PS CAT30 45 ANSI.CI	1/2"-13	-	0.385	0.52	0.32	0.46	1.1	45°	0.03
PS CAT40 45 ANSI	5/8"-11	-	0.49	0.74	0.44	0.64	1.5	45°	0.04
PS CAT40 45 ANSI.CI	5/8"-11	-	0.49	0.74	0.44	0.64	1.5	45°	0.03
PS CAT50 45 ANSI	1"-8	-	0.82	1.14	0.7	1	2	45°	0.17
PS CAT50 45 ANSI.CI	1"-8	-	0.82	1.14	0.7	1	2	45°	0.15

- 型号尾部带有 .C 字样的表示带有冷孔
- Code 'C' at the end of designation indicates internal coolant hole with pull stu

ACCESSORIES 附件

BT MAS 403 标准型拉钉

BT MAS 403 Standard Pull Stud



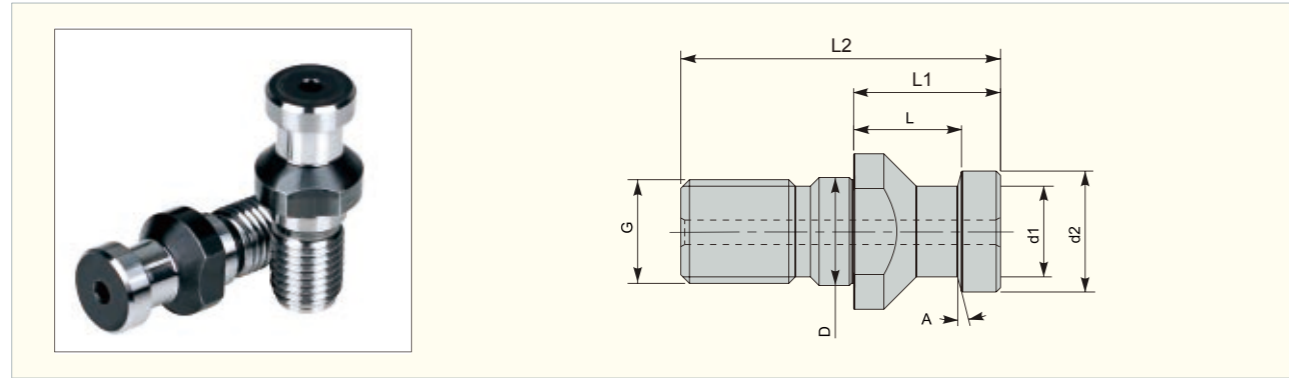
规格型号 Designation	尺寸 (mm) Dimension								重量 (kg) Weight
	G	D	d1	d2	L	L1	L2	A	
PS BT30 45 MAS1	M12	12.5	7	11	18	23	43	45°	0.04
PS BT30 45 MAS1.C	M12	12.5	7	11	18	23	43	45°	0.03
PS BT30 60 MAS2	M12	12.5	7	11	18	23	43	60°	0.04
PS BT30 60 MAS2.C	M12	12.5	7	11	18	23	43	60°	0.03
PS BT30 90 MAS3	M12	12.5	7	11	18	23	43	90°	0.04
PS BT30 90 MAS3.C	M12	12.5	7	11	18	23	43	90°	0.03
PS BT40 45 MAS1	M16	17	10	15	28	35	60	45°	0.09
PS BT40 45 MAS1.C	M16	17	10	15	28	35	60	45°	0.08
PS BT40 60 MAS2	M16	17	10	15	28	35	60	60°	0.09
PS BT40 60 MAS2.C	M16	17	10	15	28	35	60	60°	0.08
PS BT40 90 MAS3	M16	17	10	15	28	35	60	90°	0.09
PS BT40 90 MAS3.C	M16	17	10	15	28	35	60	90°	0.08
PS BT50 45 MAS1	M24	25	17	23	35	45	85	45°	0.28
PS BT50 45 MAS1.C	M24	25	17	23	35	45	85	45°	0.24
PS BT50 60 MAS2	M24	25	17	23	35	45	85	60°	0.28
PS BT50 60 MAS2.C	M24	25	17	23	35	45	85	60°	0.24
PS BT50 90 MAS3	M24	25	17	23	35	45	85	90°	0.28
PS BT50 90 MAS3.C	M24	25	17	23	35	45	85	90°	0.24

- 型号尾部带有 .C 字样的表示带有冷孔
- Code 'C' at the end of designation indicates internal coolant hole with pull stu

ACCESSORIES 附件

DIN69872 标准

DIN69872 Standard



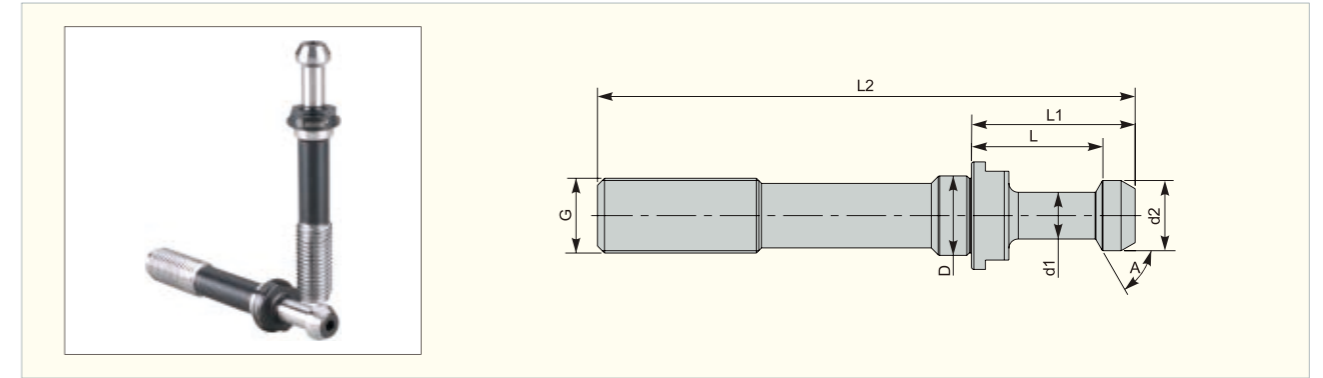
规格型号 Designation	尺寸 (mm) Dimension								重量 (kg) Weight
	G	D	d1	d2	L	L1	L2	A	
PS SK30 15 DIN69872	M12	13	9	13	19	24	44	15°	0.05
PS SK30 15 DIN69872.C	M12	13	9	13	19	24	44	15°	0.04
PS SK30 15 DIN69872.BC	M12	13	9	13	19	24	44	15°	0.04
PS SK40 15 DIN69872	M16	17	14	19	20	26	54	15°	0.07
PS SK40 15 DIN69872.C	M16	17	14	19	20	26	54	15°	0.06
PS SK40 15 DIN69872.BC	M16	17	14	19	20	26	54	15°	0.06
PS SK50 15 DIN69872	M24	25	21	28	25	34	74	15°	0.28
PS SK50 15 DIN69872.C	M24	25	21	28	25	34	74	15°	0.21
PS SK50 15 DIN69872.BC	M24	25	21	28	25	34	74	15°	0.21
PS SK60 15 DIN69872	M30	32	30	40	30	40	90	15°	0.52
PS SK60 15 DIN69872.C	M30	32	30	40	30	40	90	15°	0.5
PS SK60 15 DIN69872.BC	M30	32	30	40	30	40	90	15°	0.5

- 型号尾部带有 .C 字样的表示带有冷孔。
- 型号尾部带有 .BC 字样的表示带有内冷孔以及密封圈。
- Code 'C' at the end of designation indicates internal coolant hole with pull stud.
- Code 'BC' at the end of designation indicates internal coolant hole and sealing ring with pull stud.

ACCESSORIES 附件

MTB 刀柄用拉钉

Pull Stud for MTB Adaptor

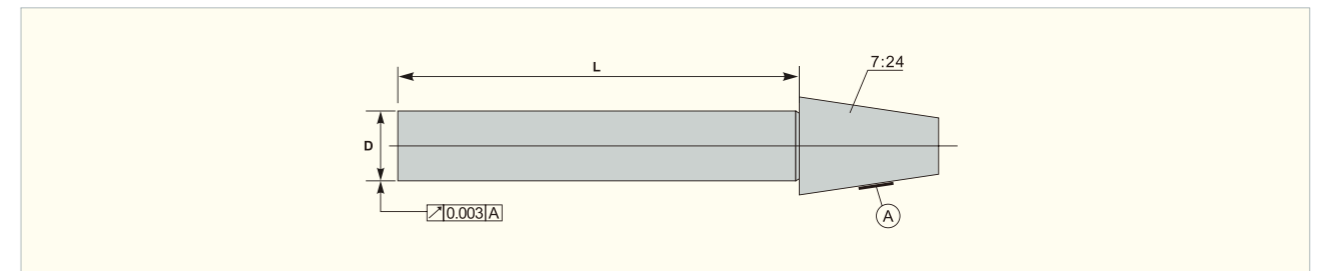


规格型号 Designation	尺寸 (mm) Dimension								重量 (kg) Weight
	G	D	d1	d2	L	L1	L2	A	
PS BT40 45 MAS1.MTB4	M16	17	10	15	28	35	115	45°	0.15
PS BT40 45 MAS1.MTB4.C	M16	17	10	15	28	35	115	45°	0.15
PS BT40 60 MAS2.MTB4	M16	17	10	15	28	35	115	60°	0.15
PS BT40 60 MAS2.MTB4.C	M16	17	10	15	28	35	115	60°	0.15
PS BT40 90 MAS3.MTB4	M16	17	10	15	28	35	115	90°	0.15
PS BT40 90 MAS3.MTB4.C	M16	17	10	15	28	35	115	90°	0.15
PS BT50 45 MAS1.MTB5	M20	25	17	23	35	45	170	45°	0.47
PS BT50 45 MAS1.MTB5.C	M20	25	17	23	35	45	170	45°	0.47
PS BT50 60 MAS2.MTB5	M20	25	17	23	35	45	170	60°	0.47
PS BT50 60 MAS2.MTB5.C	M20	25	17	23	35	45	170	60°	0.47
PS BT50 60 MAS3.MTB5	M20	25	17	23	35	45	170	90°	0.47
PS BT50 60 MAS3.MTB5.C	M20	25	17	23	35	45	170	90°	0.47
PS BT40 15 DIN69872.MTB4	M16	17	14	19	20	26	116	75°	0.44
PS BT40 15 DIN69872.MTB4.C	M16	17	14	19	20	26	116	75°	0.44
PS BT40 15 DIN69872.MTB4.BC	M16	17	14	19	20	26	116	75°	0.44
PS BT50 15 DIN69872.MTB5	M20	25	21	28	25	34	116	75°	0.44
PS BT50 15 DIN69872.MTB5.C	M20	25	21	28	25	34	116	75°	0.44
PS BT50 15 DIN69872.MTB5.BC	M20	25	21	28	25	34	116	75°	0.44

- 型号尾部带有 .C 字样的表示带有冷孔。
- 型号尾部带有 .BC 字样的表示带有内冷孔以及密封圈。
- Code 'C' at the end of designation indicates internal coolant hole with pull stud.
- Code 'BC' at the end of designation indicates internal coolant hole and sealing ring with pull stud.

标准测量棒

Standard Measuring Bar



规格型号 Designation	D	L	精度 Precisuon
ISO30 TSB230	30	230	0.003
ISO40 TSB300	40	300	0.003
ISO50 TSB300	50	300	0.003

ACCESSORIES 附件

寻边器

Edge Sensor

光电式寻边器

Electronic Edge Sensor



规格型号 Designation	柄径 Shank diameter	总长度 Total length	测头 Probe
SOE-20S	20	120	Φ10

机械偏心式寻边器

Mechanical Edge Sensor



规格型号 Designation	柄径 Shank diameter	总长度 Total length	测头 Probe
SME-610	10	65	Φ6

- 转速选择 S400-S600rpm
- Rotated speed is S400-S600rpm

ACCESSORIES 附件

Z 轴设定器

Z-Axial Setter

光电式 Z 轴设定器

Electronic Z-Axial Setter



规格 Designation	形式 Style	总长度 Chief height
ZOP-50	光电式 Electronic	50

机械式 Z 轴设定器

Mechanical Z-Axial Setter



规格 Designation	形式 Style	总长度 Chief height
SD GD008	机械式 Mechanical	50

ACCESSORIES 附件

主轴清洁棒

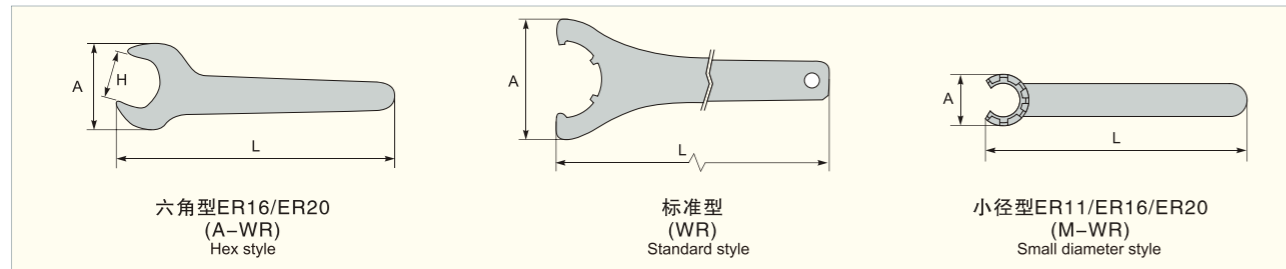
Spindle Taper Cleaner



规格 Designation	斜度 Slant angle	重量 Weight	规格 (羊毛皮) Specification(woolfell)
W30	ISO30	0.03	W30S
W40	ISO40	0.04	W40S
W50	ISO50	0.07	W50S
W63	HSK A63	0.1	W63S
W100	HSK A100	0.15	W100S

ER 扳手

ER Wrench

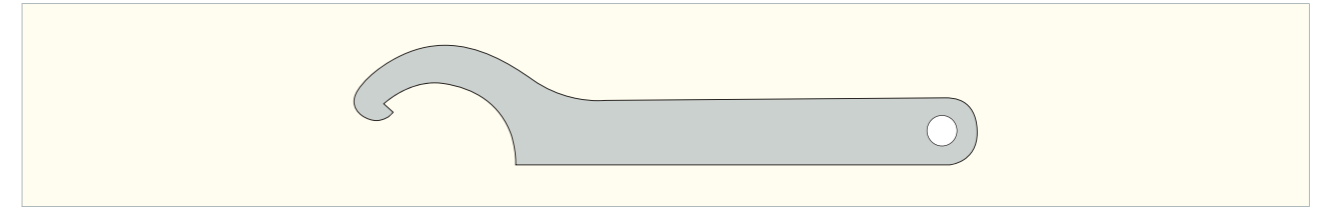


形式 Style	规格型号 Designation	A	H	L
标准型 WR Standard style	SDER 25-WR	70	-	207
	SDER 32-WR	78	-	255
	SDER 40-WR	95	-	285
六角型 (A-WR) Hex style	SDER 16-A-WR	42	25	143
	SDER 20-A-WR	54	30	172
小径型 (M-WR) Small diameter style	SDER 11-M-WR	16.8	-	95
	SDER 16-M-WR	22.5	-	117
	SDER 20-M-WR	28	-	128
	SDER 25-M-WR	36	-	130

ACCESSORIES 附件

强力夹头刀柄专用钩形扳手

Wrench for Power Chuck Adaptor



规格 Designation	适用刀柄 Adaptor
SD C20 WR	DMG20
SD C32 WR	DMG32

立卧两用锁刀座 (图 A)

Assembly Device-Figure A

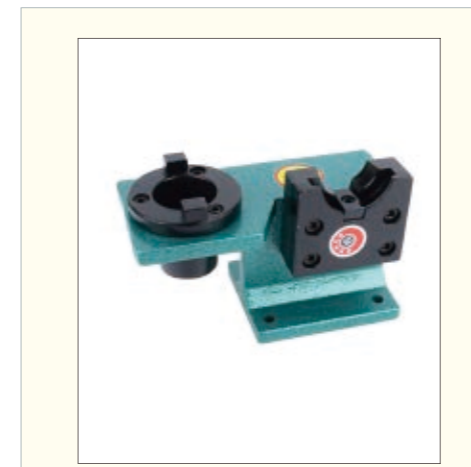


图 A

规格 Designation	适用刀柄 Adaptor
SDZ-BT30	BT30
SDZ-BT40	BT40
SDZ-BT50	BT50
SDZ-DIN69871 30	DIN69871 30
SDZ-DIN69871 40	DIN69871 40
SDZ-DIN69871 50	DIN69871 50
SDZ-HSK A63	HSK A63
SDZ-HSK A100	HSK A100

刀具管理车 (图 B)

Trolley for Tools-Figure B



图 B

规格 Designation	适用刀柄 Adaptor	储存刀柄数量 Amount
TOOLS-ISO30x36	BT30/DIN69871 30	36
TOOLS-ISO40x28	BT40/DIN69871 40	28
TOOLS-ISO50x20	BT50/DIN69871 50	20