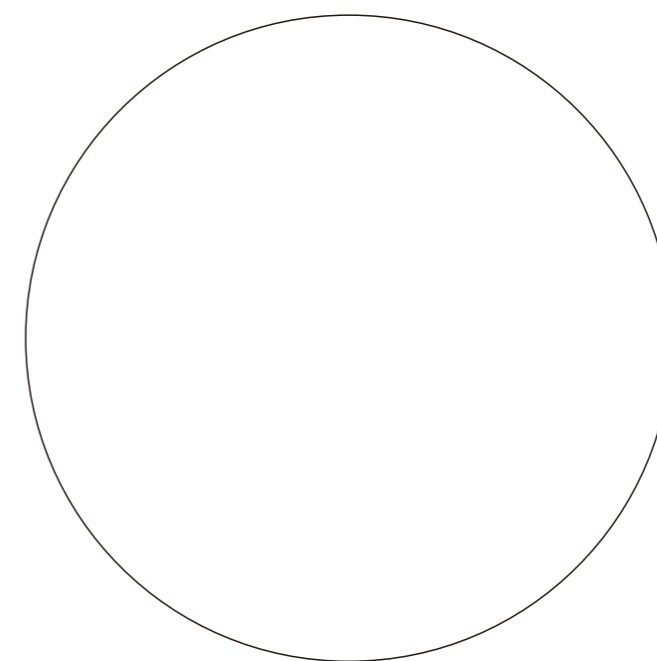


TOOL HOLDER

銑削夾持具

封面镂空版



銑削夾持具 网站: www.dg-suken.com 邮箱: suken_vip@126.com suken@dg-suken.com

TOOL HOLDER

銑削夾持具

速肯销售服务中心

全国免费服务热线: 400 803 8128

更多产品信息, 敬请浏览本公司网站
网站: www.dg-suken.com 邮箱: suken_vip@126.com suken@dg-suken.com



2023~2025
Precision
Tool Holder
Catalog

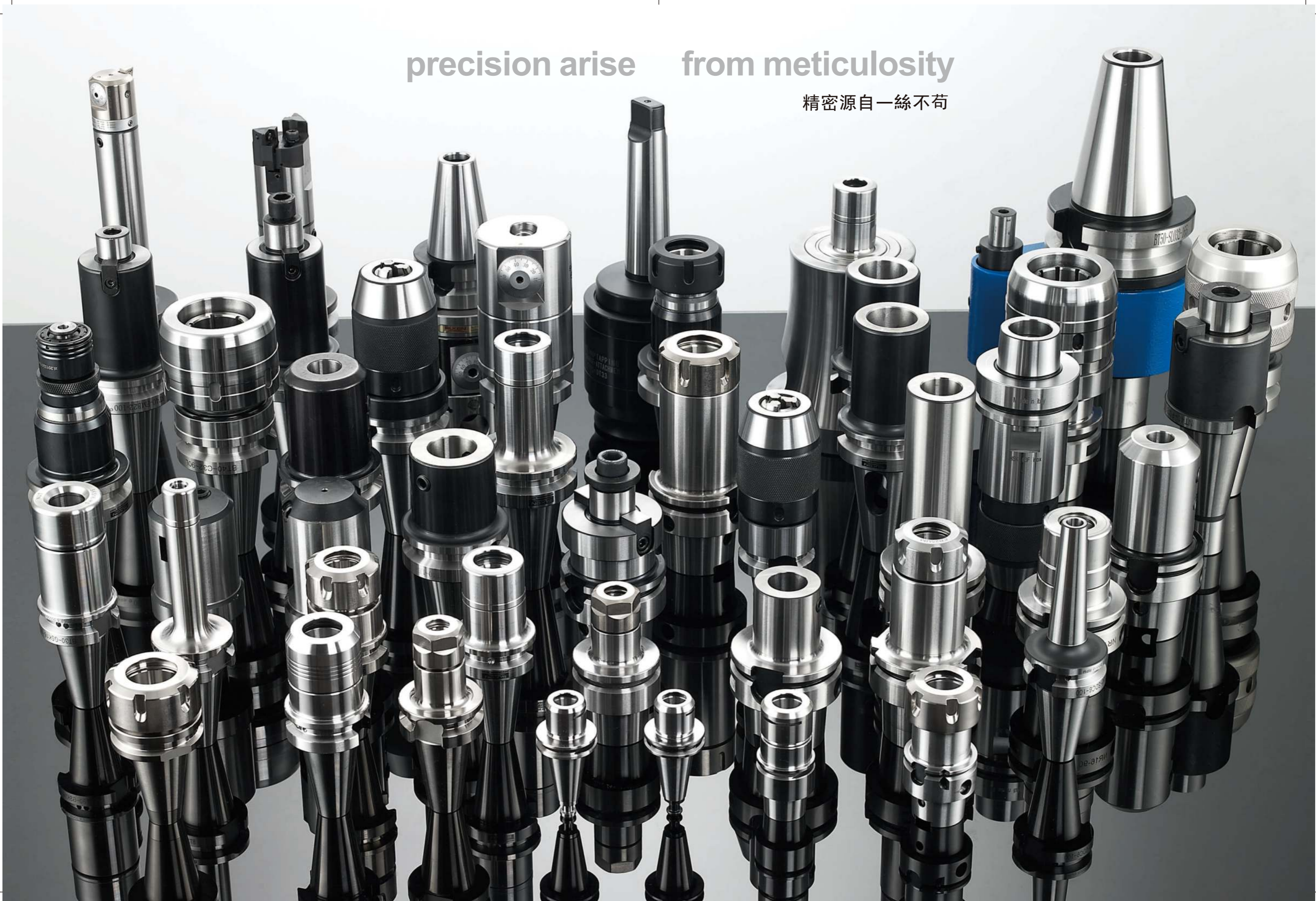


SUKEN

一點一滴精鑄 一絲一毫細礪

precision arise from meticulousity

精密源自一絲不苟



GIVE THE WORLD A new height

速肯，给世界一个新高度

About SUKEN 关于速肯

广东速肯科技有限公司是集研发、生产、销售于一体的技术服务性企业，公司拥有先进的加工设备，检测设备和专业的技术人员。

速肯主要生产抗震性舍弃式铣刀把、铣刀盘、高精密刀柄、快速钻头镗孔等夹持工具系列，并能根据客户要求设计制造各种类型的高品质非标刀具。速肯产品皆采用优质材料，广泛运用于航空、汽车、机械制造、精密模具等行业。我们以坚定不移的信念，一直专注于提高用户的生产效率，提高加工精度及光洁度，致力于建设遍布全国的连锁区域性行销网络，为客户提供更强大的服务支持！

我们始终贯彻“高品质、高效率、高要求，高诚信”的发展宗旨，坚持“敬人、敬业、精勤、创新”的企业精神，不断的研究，开发、创新，使得我们发展成具有独特性的制造和销售企业。速肯以专业的技术和最热忱的服务为您提供完善的刀具解决方案，愿我们的每一次服务能够得到您的肯定，真诚欢迎海内外客户光临指导、洽谈、合作，携手共创双赢的美好未来。

Guangdong Suken Technology Co.,LTD was set up in 2005 as a professional R&D,manufacturer and supplier of a wide range of CNC cutting tool products, including carbide end mill, indexable milling cutter, high precision tool holder system, high speed drills, boring bar and tool accessories. We provide various type of standard and non-standard high quality cutting tools according to customers' requirements.

We have always carried out "high-quality, high efficiency,high standard, high integrity"as principle of development," respect, dedicated, hardworking, innovative"as company spirit. This kind of continuous research, development and innovation make us as unique manufacturing and sales company.

We believe that with professional technology and the most dedicated service we can provide our customer with complete tooling solutions.

SUKEN

全国免费服务热线: 400 803 8128



Precision change the world

速肯，精密改变世界

速肯人拥有一颗归零的心：视现状为零，纵观未来新格局

速肯人拥有一颗学习的心：成功代表过去，能力代表现在，唯进步、不止步

速肯人拥有一颗创新的心态：锐意进取、不断超越，敢为天下先

速肯人拥有一颗付出的心态：能够为别人服务的人生才是最有价值的人生

速肯人拥有一颗务实的心态：一点一滴精铸，一丝一毫细砺；做人、做事、做产品、做企业

速肯人拥有一颗责任的心态：提高用户生产力，降低用户成本，解决用户切削难题，满足用户加工质量

速肯人拥有一颗合作的心态：合力同心、齐力断金，精诚团结，振兴民族事业

速肯人拥有一颗共赢的心态：牵手你我，一路同行，共创美好未来

People working at Suken are always glad to learn and keeping prepared for the future, because they know the potential change is much more appealing than achieved success and ability.

The engineer teams keep making progress in innovation with hardworking, which promise satisfactory service for our customers.

Precision and reliable products in Suken are ensured by all the practical work with professional skills and high sense of responsibility.

Suken has been committed to improve the productivity and efficiency of customers to low down the cost and provide solutions for processing. The company keeps win-win cooperation in mind to get along with customers for further future.



超越，是一种勇气
超越，是一种智慧
超越，更是一种高度

性格决定命运，气度决定格局，细节决定成败，态度决定一切，思路决定出路，深度决定高度，格局决定结局

气度 深度 高度 TOLERANCE DEPTH HEIGHT



銑削夾持具系列 Milling tool holder series

09-66



銑削攻牙夾持具系列 Tapping tool holder series

67-83



孔加工刀具系列 Boring tool series

84-112





MILLING TOOL HOLDER Series
铣削夹持具系列

一點一滴精鑄 一絲一毫細礪





BT/BBT-SK HIGH SPEED TOOL HOLDER

BT-SK 高速刀柄

BBT-SK 高速刀柄 帶“●”代表BBT-SK系列高速刀柄庫存規格

型號	Specification	夾持範圍 Clamping range	尺寸 Size			最高旋轉數 MAX.min-1	SK筒夾 Collet
			L	L1	C		
BT30	-SK6-60	1.0~6.0	60	38	19.5	30,000	SK6
	-SK6-90		90	68			
	-SK10-60	1.0~10.0	60	38	27	30,000	SK10
	-SK10-90		90	68			
	-SK16-60	1.0~16.0	60	38	40	30,000	SK16
	-SK16-90		90	68			
-SK20-60	1.0~20.0	60	38	48	30,000	SK20	
-SK20-90		90	68				
BT40	-SK6-60	1.0~6.0	60	33	19.5	25,000	SK6
	-SK6-90		90	63			
	-SK6-120		120	93			
	-SK10-60	1.0~10.0	60	33	27	25,000	SK10
	-SK10-90		90	63			
	-SK10-120		120	93			
	-SK10-150		150	123			
	-SK13-90	1.0~13.0	90	63	35	25,000	SK13
	-SK16-60	1.0~16.0	60	33	40	25,000	SK16
	-SK16-90		90	63			
	-SK16-120		120	93			
	-SK16-150		150	123			
-SK20-90	90		63	48			
BT50	-SK10-100	1.0~10.0	100	73	27	20,000	SK10
	-SK10-150		150	123			
	-SK10-200		200	173			
	-SK10-250		250	223			
	-SK16-100	1.0~16.0	100	73	40	20,000	SK16
	-SK16-150		150	123			
	-SK16-200		200	173			
	-SK16-250		250	223			
	-SK20-100		1.0~20.0	100			
	-SK20-150	150		123			
-SK20-200	200	173					

1. 不帶鎖緊扳手如需要請另訂購
2. 不附帶拉丁

SPANNER
SK 型扳手

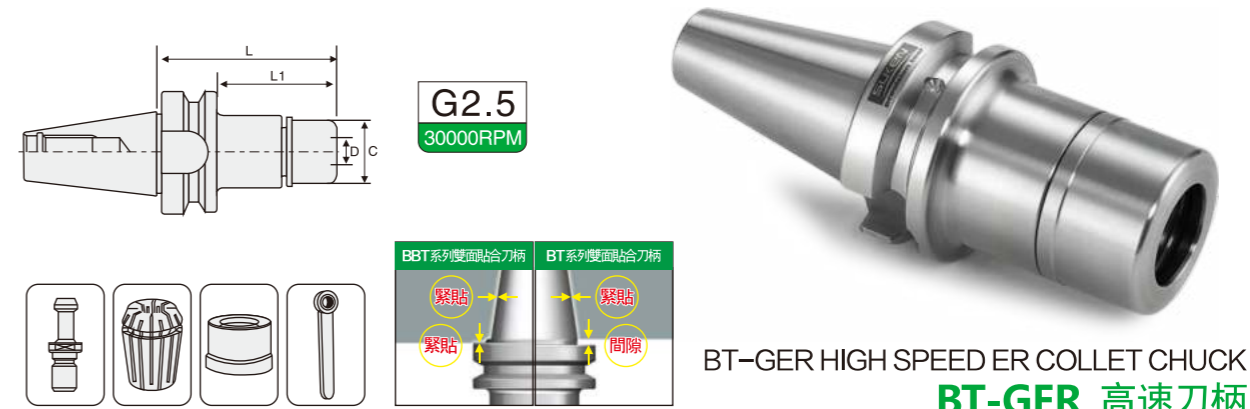
樣式 Pattern	型號 Specification	D	重量 weight(KG)
标准型	SK6-SP	19.5	0.2
	SK10-SP	27	0.27
	SK13-SP	35	0.35
	SK16-SP	40	0.39
	SK20-SP	48	0.45

HIGH SPEED NUT
SK 高速螺帽

樣式 Pattern	型號 Specification	D
标准型	SK6-CN	19.5
	SK10-CN	27
	SK13-CN	35
	SK16-CN	40
	SK20-CN	48

特點/Feature

1. 預設動平衡，刀柄精度高，適合高速旋轉，跳動0.003mm，最高轉速G2.5 40000rpm。
2. 表面硬度HV220的滑動旋轉，不會損傷，無響聲。
3. 是面與面接觸，微米跳動切削力提高，刀具使用壽命延長。
4. 同心度高，穩定的震動精度，提高精加工表面精度。



BT-GER HIGH SPEED ER COLLET CHUCK

BT-GER 高速刀柄

BBT-GER 高速刀柄

帶“●”代表BBT40系列高速刀柄庫存規格

型號	Specification	夾持範圍 Clamping range	尺寸 Size				最高轉數 Min ⁻¹	筒夾 Collet	螺帽 Nut
			L	L1	φC	M			
BT30	-GER16-70	1.0~10.0	70	48	27	M22X1.5	30000	ER16	GER16
	-GER16-100		100	78					
	-GER20-70	1.0~13.0	70	48	35	M25X1.5	30000	ER20	GER20
-GER20-100	100		78						
BT40	-GER25-70	1.0~16.0	70	48	40	M32X1.5	30000	ER25	GER25
	-GER25-100		100	78					
	-GER32-100	1.0~20.0	100	78	48	M40X1.5	25000	ER32	GER32
BT50	-GER16-70	1.0~10.0	70	43	27	M22X1.5	25000	ER16	GER16
	-GER16-100		100	73					
	-GER16-150		150	123					
	-GER20-70	1.0~13.0	70	43	35	M25X1.5	25000	ER20	GER20
	-GER20-100		100	73					
	-GER20-150		150	123					
	-GER25-70	1.0~16.0	70	43	40	M32X1.5	25000	ER25	GER25
	-GER25-100		100	73					
	-GER25-150		150	123					
	-GER32-70	1.0~20.0	70	43	48	M40X1.5	20000	ER32	GER32
	-GER32-100		100	73					
	-GER32-150		150	123					

1. 不帶鎖緊扳手如需要請另訂購
2. 不附帶拉丁

SPANNER
GER 型扳手

樣式 Pattern	型號 Specification	D	重量 weight(KG)
标准型	GER16-SP	27	0.2
	GER20-SP	35	0.27
	GER25-SP	40	0.35
	GER32-SP	48	0.39

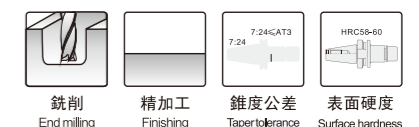
HIGH SPEED NUT
GER 高速螺帽

樣式 Pattern	型號 Specification	D
标准型	GER16-SP	27
	GER20-SP	35
	GER25-SP	40
	GER32-SP	48

特點/Feature

1. 預設動平衡，刀柄精度高，高速銑銑鑽攻中心機專用刀柄，跳動0.003mm，最高轉速G2.5 30000rpm。
2. 噪音低，風阻小。
3. 前后自適應定位，重複裝夾精度高。

1. Pre-balanced, high precision run-out 0.003mm, applied for high speed engraving & milling and drilling machining center, maximum G2.5 30000 rpm.
2. Low noise and small wind resistance.
3. Adaptive positioning from both front and back and high precision repetition.





BT-HGER HIGH SPEED ER COLLET CHUCK

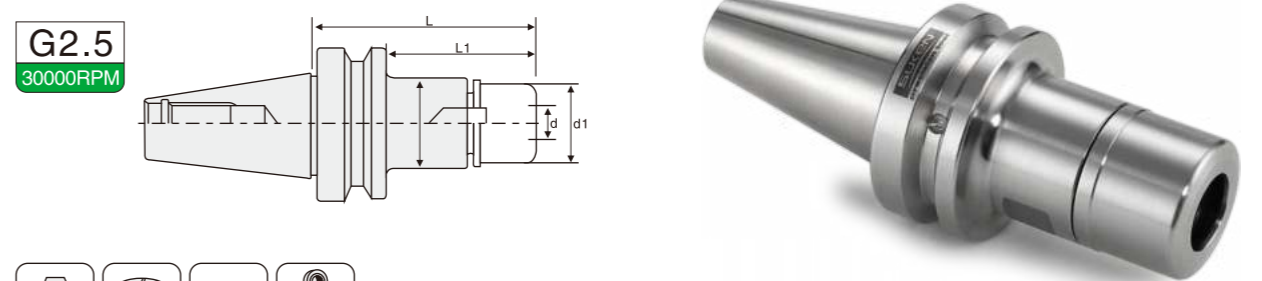
BT-HGER 高速刀柄
BBT-HGER 高速刀柄

帶“●”代表BBT-HGER系列高速刀柄庫存規格

	型號 Specification	夾持範圍 Clamping range	尺寸 Size			最高轉數 Min ⁻¹	筒夾 Collet	螺帽 Nut		
			L	L1	φC					
BT30	-HGER16-70	● 1.0~10.0	70	48	30	30000	ER16	HGER16		
	-HGER16-100	● 1.0~10.0	100	78	30					
	-HGER20-70	● 1.0~12.0	70	48	35				ER20	HGER20
	-HGER20-100	● 1.0~12.0	100	78	35					
BT40	-HGER25-70	● 1.0~16.0	70	48	40	30000	ER25	HGER25		
	-HGER25-100	● 1.0~16.0	100	78	40					
	-HGER32-70	● 1.0~20.0	70	48	50				ER32	HGER32
	-HGER32-100	● 1.0~20.0	100	78	50					
BT40	-HGER16-70	● 1.0~10.0	70	43	30	25000	ER16	HGER16		
	-HGER16-100	● 1.0~10.0	100	73	30					
	-HGER20-70	● 1.0~12.0	70	43	35				ER20	HGER20
	-HGER20-100	● 1.0~12.0	100	73	35					
	-HGER25-70	● 1.0~16.0	70	43	40				ER25	HGER25
	-HGER25-100	● 1.0~16.0	100	73	40					
	-HGER25-150	● 1.0~16.0	150	123	40					
	-HGER32-70	● 1.0~20.0	70	43	50					
-HGER32-100	● 1.0~20.0	100	73	50						
-HGER32-150	● 1.0~20.0	150	123	50						

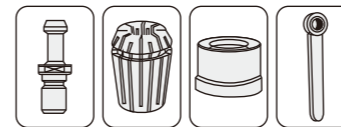
特點/Feature

1. 預設動平衡，刀柄精度高，跳動0.003mm，高速銑銑鑽攻中心機專用刀柄，最高轉速G2.5 30000rpm。
 2. T型螺牙設計，扭力提升50%，避免掉刀。
 3. 非偏心平衡全圓螺帽。
 4. 前后自適應定位，重複裝夾精度高。
 5. 噪音低，風阻小。
1. Pre-balanced, high precision run-out 0.003mm, applied for high speed engraving&milling and drilling machining center, maximum G2.5 30000 rpm.
 2. T type screw design enhances 50% of the torque value to avoid drop of the tool.
 3. Non-decenter balanced round nut.
 4. Adaptive positioning from both front and back and high precision repetition.
 5. Low noise and small wind resistance.



NBT-GER HIGH SPEED ER CHUCK SYSTEM

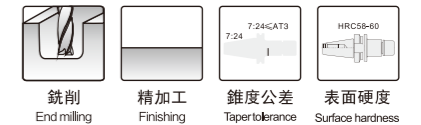
NBT-GER 高速刀柄



	型號 Specification	夾持範圍 Clamping range	尺寸 Size			螺帽 Nut	筒夾 Collet	扳手 spanner	鎖刀座
			d1	L	L1				
NBT30	-GER16-70	1.0~10.0	27	70	48	GER16	ER16	GER16-φ27	NBT30
	-GER16-100	1.0~10.0	100	78					
	-GER20-70	1.0~13.0	35	70	48	GER20	ER20	GER20-φ35	NBT30
	-GER20-100	1.0~13.0	100	78					
	-GER25-70	1.0~16.0	40	70	48	GER25	ER25	GER25-φ40	NBT30
	-GER25-100	1.0~16.0	100	78					
-GER32-70	1.0~20.0	48	70	48	GER32	ER32	GER32-φ48	NBT30	
-GER32-100	1.0~20.0	100	78						

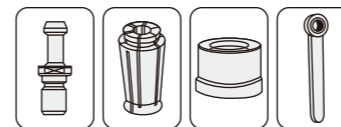
特點/Feature

1. 預設動平衡，刀柄精度高，高速銑銑鑽攻中心機專用刀柄，跳動0.003mm，最高轉速G2.5 30000rpm。
 2. 噪音低，風阻小。
 3. 前后自適應定位，重複裝夾精度高。
1. Pre-balanced, high precision run-out 0.003mm, applied for high speed engraving&milling and drilling machining center, maximum G2.5 30000 rpm.
 2. Low noise and small wind resistance.
 3. Adaptive positioning from both front and back and high precision repetition.



NBT-SK HIGH SPEED TOOL HOLDER

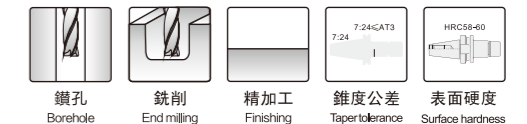
NBT-SK 高速刀柄



	型號 Specification	夾持範圍 Clamping range	尺寸 Size			螺帽 Nut	筒夾 Collet	扳手 spanner	鎖刀座
			d1	L	L1				
NBT30	-SK10-60	1.0~10.0	27	60	38	SK10	SK10	SK10-φ27	NBT30
	-SK10-90	1.0~10.0	90	68					
	-SK16-60	1.0~16.0	40	90	38	SK16	SK16	SK16-φ40	NBT30
	-SK16-90	1.0~16.0	90	68					

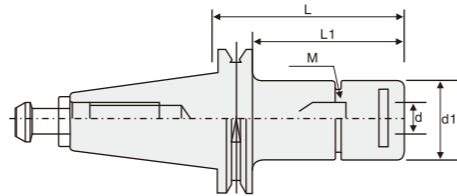
特點/Feature

1. 預設動平衡，刀柄精度高，適合高速旋轉，跳動0.003mm，最高轉速G2.5 30000rpm。
 2. 表面硬度HV220的滑動旋轉，不會損傷，無響聲。
 3. 是面與面接觸，微米跳動切削力提高，刀具使用壽命延長。
 4. 同心度高，穩定的震動精度，提高精加工表面精度。
1. Pre-balanced, high precision run-out 0.003mm, suitable for high rotating, maximum G2.5 30000 rpm.
 2. Surface hardness up to HV 220 by rotating, no damage and noise
 3. Covering interface with precision vibration and high metal removal, increased tool life
 4. High concentricity, stable run-out accuracy to enhance fine machining surface roughness.



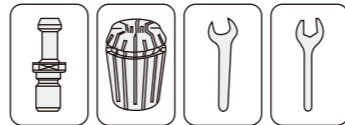


G2.5
30000RPM



ISO HIGH SPEED TOOL HOLDER

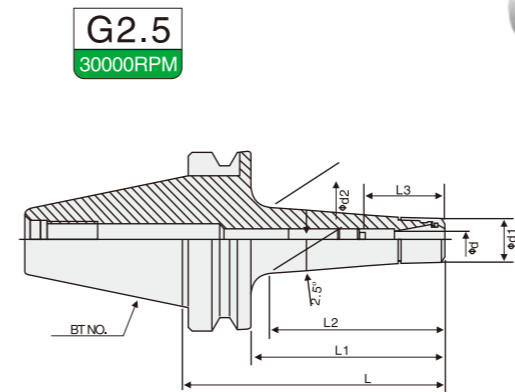
ISO 高速刀柄



	型號	夾持範圍	尺寸 Size				螺帽	筒夾	扳手1	扳手2
	Specification	Clamping range	d1	L	L1	M	Nut	Collet	spanner	spanner
ISO10	-ER11-25	1.0~7.0	16	25	27	M13×0.75	ER11MS	ER11	ISO10	ER11MS
ISO20	-ER16-35	1.0~10.0	22	35	27	M19×1.0	ER16MS	ER16	ISO 20	ER16MS
	-ER20-35	1.0~13.0	28	35	27	M24×1.0	ER20MS	ER20	ISO 20	ER20MS
ISO25	-ER16-35	1.0~10.0	22	35	27	M19×1.0	ER16MS	ER16	ISO 25	ER16MS
	-ER20-35	1.0~13.0	28	35	27	M24×1.0	ER20MS	ER20	ISO 25	ER20MS
	-ER25-35	1.0~16.0	35	35	27	M30×1.0	ER25MS	ER25	ISO 25	ER25MS
ISO30	-ER16-60	1.0~10.0	22	60	44.1	M19×1.0	ER16MS	ER16		ER16MS
	-ER20-60	1.0~13.0	28	60	44.1	M24×1.0	ER20MS	ER20		ER20MS
	-ER25-60	1.0~16.0	35	60	44.1	M30×1.0	ER25MS	ER25		ER25MS
	-ER32-60	1.0~20.0	50	60	44.1	M40×1.0	ER32UM	ER32		ER32UM

特點/Feature

1. 刀柄精度高，跳動0.003mm，最高轉速G2.530000rpm。
2. 高速雕銑機專用刀柄。
3. 穩定的震動精度，提高精加工表面精度。
1. High precision run-out 0.003mm, maximum G2.5 30000 rpm.
2. Suitable for high speed engraving&milling and drilling application with super finish surface.
3. Stable run-out accuracy to enhance fine machining surface roughness.

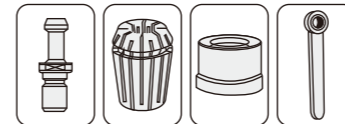


G2.5
30000RPM



BT-THER SLIM COLLET CHUCK

BT-THER 小徑刀柄

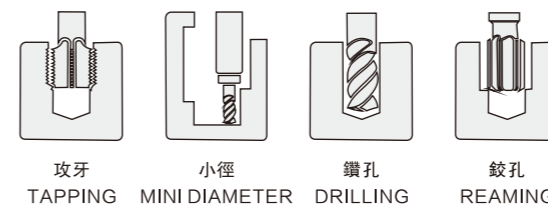


	型號	夾持範圍	尺寸 Size					刀具夾持深度	螺帽	筒夾	扳手
	Specification	Clamping range	Φd1	Φd2	L	L1	L2	Tool clamping	Nut	Collet	suitable spanner
BT30	THER11-100M	1.0~7.0	16	20.9	100	78	73.2	19~48	HER11M	ER11	HER11
	THER16-100M	1.0~10.0	22	26.5	100	78	73.2	29~58	HER16M	ER16	HER16
BT40	THER11-100M	1.0~7.0	16	20.2	100	73	65.3	19~48	HER11M	ER11	HER11
	THER11-160M	1.0~7.0	16	25.5	160	133	125.3	19~48	HER11M	ER11	HER11
	THER16-100M	1.0~10.0	22	26.1	100	73	68.2	29~58	HER16M	ER16	HER16
	THER16-160M	1.0~10.0	22	31.3	160	133	128.2	29~58	CHER16M	ER16	HER16
BT50	THER11-100M	1.0~7.0	16	20	100	54.3	62	19~48	HER11M	ER11	HER11
	THER11-160M	1.0~7.0	16	26.2	160	122	114.9	19~48	HER11M	ER11	HER11
	THER16-100M	1.0~10.0	22	27.5	100	62	54.9	29~58	HER16M	ER16	HER16
	THER16-160M	1.0~10.0	22	33.8	160	122	100	29~58	HER16M	ER16	HER16

需配合3μ HP筒夾 With 3 μ HP Grade Collet

特點/Feature

1. 刀柄斜度設計有效抵抗加工震動，適合模具深腔加工。
2. T型螺牙設計超強夾持力，重復裝夾精度高。
3. 高韌性材料制作全圓螺帽，有效減少風阻。
4. -190度深冷處理工藝，跳動穩定，提高加工精度。
1. Taper design to reduce the processing shock, suitable for deep cavity machining in mold.
2. T-type screw ensures powerful clamping strength, high precision repetition.
3. Tough material for round clamping nuts to reduce wind resistance.
4. Deep Cryogenic treatment below -190 °C, stable run-out accuracy to enhance fine machining surface roughness.



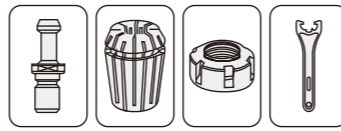
5um*	G6.3 25,000 RPM 選配 Option BT30/RT40	G2.5 25,000 RPM 選配 Option BT30/RT40	G6.3 25,000 RPM BT50	G2.5 25,000 RPM 選配 Option BT50
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BT-ER COLLET CHUCK

BT-ER 彈性刀柄

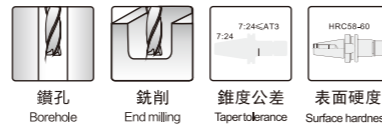
BBT-ER 彈性刀柄 帶“●”代表BBT-ER系列高速刀柄庫存規格



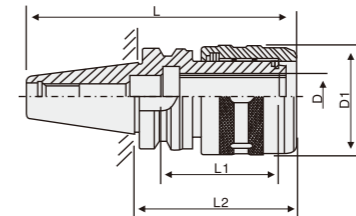
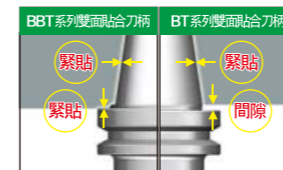
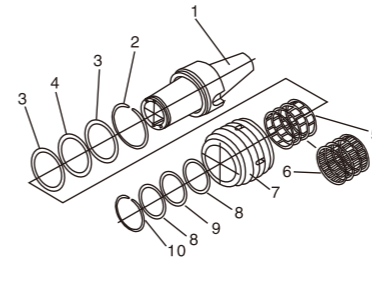
型號 Specification	夾持範圍 Clamping range	尺寸 Size			螺帽 Nut	筒夾 Collet	扳手 spanner	重量 Weight(KG)			
		d1	L	L1					M		
BT30	-ER16-70	●	1.0-10.0	28	70	48	M22 × 1.5	ER16A	ER16	ER16A	0.55
	-ER16-100	●			100	78					0.80
	-ER20-70	●	1.0-13.0	34	70	48	M25 × 1.5	ER20A	ER20	ER20A	0.75
	-ER20-100	●			100	78					0.85
BT40	-ER25-70	●	1.0-16.0	42	70	48	M32 × 1.5	ER25UM	ER25	ER25UM	0.70
	-ER25-100	●			100	78					1.45
	-ER32-70	●	1.0-20.0	50	70	48	M40 × 1.5	ER32UM	ER32	ER32UM	0.95
	-ER32-100	●			100	78					1.05
BT50	-ER16-70	●	1.0-10.0	28	70	43	M22 × 1.5	ER16A	ER16	ER16A	1.20
	-ER16-100	●			100	73					1.30
	-ER16-150	●			150	123					1.35
	-ER20-70	●	1.0-13.0	34	70	43	M25 × 1.5	ER20A	ER20	ER20A	1.40
	-ER20-100	●			100	73					1.50
	-ER20-150	●			150	123					1.70
	-ER25-70	●	1.0-16.0	42	70	43	M32 × 1.5	ER25UM	ER25	ER25UM	1.30
	-ER25-100	●			100	73					1.65
	-ER25-150	●			150	123					2.25
	-ER32-70	●	1.0-20.0	50	70	43	M40 × 1.5	ER32UM	ER32	ER32UM	1.30
	-ER32-100	●			100	73					1.70
	-ER32-150	●			150	123					2.50
BT50	-ER40-70	●	1.0-26.0	63	70	43	M50 × 1.5	ER40UM	ER40	ER40UM	1.85
	-ER40-100	●			100	73					2.05
	-ER40-150	●			150	123					3.10
	-ER16-100	●	1.0-10.0	28	100	62	M22 × 1.5	ER16A	ER16	ER16A	4.30
BT50	-ER16-150	●			150	112					4.50
	-ER16-200	●			200	162					4.70
	-ER20-100	●	1.0-13.0	34	100	62	M25 × 1.5	ER20A	ER20	ER20A	4.30
	-ER20-150	●			150	112					4.70
BT50	-ER20-200	●			200	162					5.10
	-ER25-100	●	1.0-16.0	42	100	62	M32 × 1.5	ER25UM	ER25	ER25UM	4.40
	-ER25-150	●			150	112					5.00
	-ER25-200	●			200	162					5.50
BT50	-ER32-100	●	1.0-20.0	50	100	62	M40 × 1.5	ER32UM	ER32	ER32UM	4.80
	-ER32-150	●			150	112					5.30
	-ER32-200	●			200	162					6.50
	-ER40-100	●	1.0-26.0	63	100	62	M50 × 1.5	ER40UM	ER40	ER40UM	4.40
BT50	-ER40-150	●			150	112					5.50
	-ER40-200	●			200	162					6.80

特點/Feature

- 預設動平衡，刀柄精度高，跳動0.003mm，最高轉速G2.5 30000rpm。
- 同心度高，穩定的震動精度，應用廣泛。
- Pre-balanced, high precision run-out 0.003mm, G2.5 30000 rpm.
- High concentricity, stable run-out accuracy for most wide application.



- 本體
- 同心扣環
- 墊片
- 平面油封
- 軸承鋼
- 滾丁
- 螺帽
- 墊片
- 平面油封
- 同心扣環



採用直型筒夾，精度高。

BT-C POWER CHUCK TOOL HOLDER

BT-C 型強力刀柄

帶“●”代表BBT-C型強力刀柄系列庫存規格

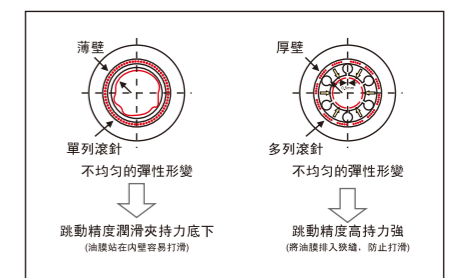
BBT-C 型強力刀柄

型號 Specification		內附筒夾規格 Size				D1	扳手 suitable spanner	筒夾 Collet	重量 weight(KG)	
		D	L2	L1	L					
BT30	-C20-80	●	20	80	70	128.4	53	C20-BS	C20	1.80
	-C25-80	●	25	80	73	128.4	60	C25-BS	C25	1.95
BT40	-C20-105		20	105	70	170.4	53	C20-BS	C20	2.60
	-C25-105	●	25	105	73	170.4	60	C25-BS	C25	2.65
	-C32-105	●	32	105	76	170.4	70	C32-BS	C32	2.80
	-C32-135		32	135	76	200.4	70	C32-BS	C32	3.00
BT50	-C32-165		32	165	76	230.4	70	C32-BS	C32	3.50
	-C20-105		20	105	70	206.8	53	C20-BS	C20	4.50
	-C25-105		25	105	73	206.8	60	C25-BS	C25	4.60
	-C32-110	●	32	110	95	206.8	70	C32-BS	C32	5.15
	-C32-135		32	135	95	236.8	70	C32-BS	C32	5.90
	-C32-165		32	165	95	266.8	70	C32-BS	C32	6.60
BT50	-C42-115		42	115	98	216.8	92	C42-BS	C42	6.10
	-C42-135		42	135	98	236.8	92	C42-BS	C42	6.60
	-C42-165		42	165	98	266.8	92	C42-BS	C42	7.40

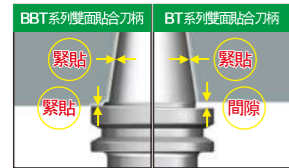
特點/Feature

- 刀柄內孔分割6槽以防止滑動，加大夾持力。
- 採用兩綫裝置，當刀具滑動至針錐面時滾動摩擦避免脫落。
- 夾持部加厚設計，提高剛性，防止震動。
- 夾持力強，跳動精度高。
- 6 slots design inside the holder to avoid slipping, enhancing clamping force.
- Frictional gripping force increased by the clamping design, when the cutting tools slip to the cone face.
- Reinforced thickness of the chuck holder improve the rigidity and anti-vibrations.
- High clamping force and run-out accuracy.

支持高精度的加厚設計及獨特的夾縫結構



夾頭的加厚設計，可以增加剛性，以承受立銑刀的重切削。而採用獨特的夾縫結構可以使夾持部分均與變形，以獲得強大的夾持力及穩定的跳動精度。



BT-C POWER CHUCK TOOL HOLDER

BT-C型強力刀柄

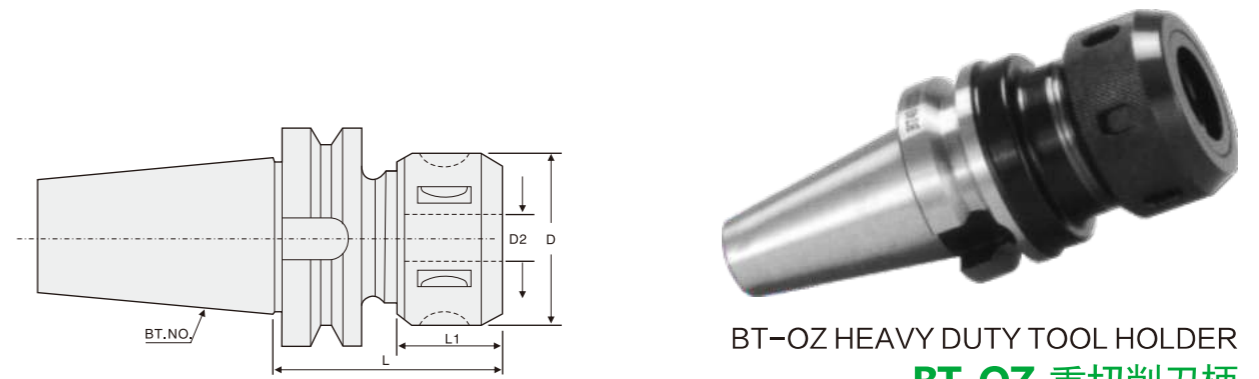
BBT-C型強力刀柄 帶“●”代表BBT-C型系列強力刀柄套裝庫存規格

型號 Specification	COLLET	內附筒夾規格 spanner
BT30 C20-80-7PCS C25-80-7PCS	● C20 ● C25	3,4,6,8,10,12,16 3,4,6,8,10,12,16,20
BT40 C25-105-7PCS C32-105-7PCS	● C25	6,8,10,12,16,20 3,4,6,8,10,12,16,20,25
BT50 C20-105-7PCS C25-110-7PCS C32-110-7PCS C42-115-8PCS	C20 ● C32 C42	3,4,6,8,10,12,16 6,8,10,12,16,20 3,4,6,8,10,12,16,20,25 6,8,10,12,16,20,25,32

特點/Feature

1. 刀柄內孔分割6槽以防止滑動，加大夾持力。
2. 採用雨綫裝置，當刀具滑動至針錐面時滾動摩擦避免脫落。
3. 夾持部加厚設計，提高剛性，防止震動。
4. 夾持力強，跳動精度高。
1. 6 slots design inside the holder to avoid slipping, enhancing clamping force.
2. Frictional gripping force increased by the clamping design, when the cutting tools slip to the cone face.
3. Reinforced thickness of the chuck holder improve the rigidity and anti-vibrations.
4. High clamping force and run-out accuracy.

以上套裝含刀柄1支、筒夾7個、木盒1個、扳手一支、拉釘一支。



BT-OZ HEAVY DUTY TOOL HOLDER

BT-OZ 重切削刀柄

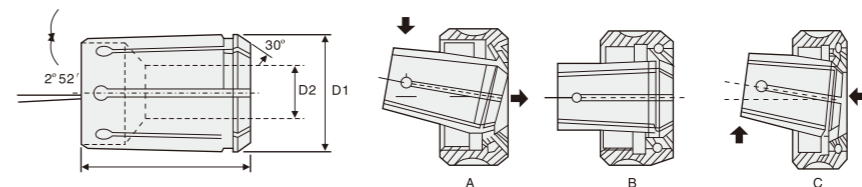
型號 Specification	尺寸 D2	尺寸 L	尺寸 D	尺寸 L1	筒型 Collet Type
BT40	OZ25-80	3-25	80	60	OZ25
	OZ25-120	3-25	120	60	OZ25
	OZ32-80	6-32	80	72	OZ32
BT50	OZ32-150	6-32	150	72	OZ32
	OZ25-90	3-25	90	60	OZ25
	OZ25-130	3-25	130	60	OZ25
	OZ32-105	6-32	105	72	OZ32
	OZ32-150	6-32	150	72	OZ32

特點/Feature

1. 特殊夾持結構能夠在重切削加工中擁有超強夾持力。
2. 夾持部加厚設計，提高剛性，減少震動。
3. 適合於夾持鑽頭銑刀及其絲攻刀具。
1. Special clamping structure supports strong clamping force for heavy duty processing.
2. Reinforced thickness of the chuck to improve the rigidity and low tendency towards vibrations.
3. Suitable for drilling, milling and tapping tools.



OZ 重切削筒夾/索咀



型號 Specification	D1	L	D2
OZ25	35.5	52	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25
OZ32	44	60	6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32

型號 Specification	D1	L	D2
OZ25	35.5	52	1/8,3/16,1/4,5/16,3/8,7/16,1/2,9/16,5/8,11/16,3/4,13/16,7/8,15/16,1"
OZ32	44	60	1/4,5/16,3/8,7/16,1/2,9/16,5/8,11/16,3/4,13/16,7/8,15/16,1",11/8",11/4"



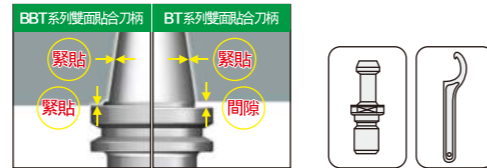
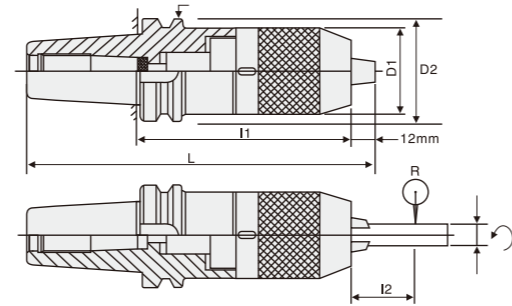
重切削OZ螺帽



OZ 扳手

型號 Specification	C	D1	D3	筒型 Collet Type
BN25	30	60	M48 × 2	OZ25
BN32	33	72	M60 × 2.5	OZ32

型號 Specification	尺寸 Size(mm) D1	筒型 Collet Type
WOZ25	60	OZ25
WOZ32	80	OZ32



BT-APU DRILL CHUCK HOLDER

BT-APU 一體式鑽夾頭
BBT-APU 一體式鑽夾頭

帶“●”代表BBT-APU系列鑽夾頭刀柄庫存規格

型號 Specification	尺寸 Size					夾持範圍 Clamping range	重量 Weight(KG)	
	D1	D2	L1	L	L			
BT30	-APU8-80	●	36.5	46	80	137.4	0.5~8	0.80
	-APU13-110	●	48	46	110	158.4	1~13	1.85
	-APU16-110	●	55.5	46	110	158.4	3~16	2.18
BT40	-APU8-85		36.5	63	85	150.4	0.5~8	1.46
	-APU13-105	●	48	63	105	170.4	1~13	2.00
	-APU13-130				130	195.4		2.33
	-APU16-105	●	55.5	63	105	170.4	3~16	2.33
	-APU16-130				130	195.4		2.60
BT50	-APU8-90		36.5	100	90	191.8	0.5~8	4.20
	-APU13-110	●	48	100	110	211.8	1~13	4.70
	-APU13-180				180	281.8		5.80
	-APU16-115	●	55.5	100	115	216.8	3~16	5.10
	-APU16-130				130	236.8		4.80
	-APU16-190				190	296.8		6.10

特點/Feature

1. 連接柄和夾頭整體的設計，防止兩個刀體意外分離，加工穩定可靠。
 2. 夾頭自緊，加緊鑽頭後隨鑽孔扭矩的增加同步增強夾持力，防止鑽頭打滑。
 3. 夾持力強，高精度，持久耐用。
 4. 適用各類鑽床，銑床和車床。
1. Integrated design of holder and chuck prevents separation of the tool components, ensure reliable and stable machining.
 2. Self tightening, gripping force is enhanced when the drilling torque increase, which can avoid slipping of the drills.
 3. Super drill chuck with high precision and durability.
 4. Wide application in drilling machine, milling machines and lathe.



STRAIGHT SHANK DRILL CHUCK

C-APU 直柄式鑽夾頭

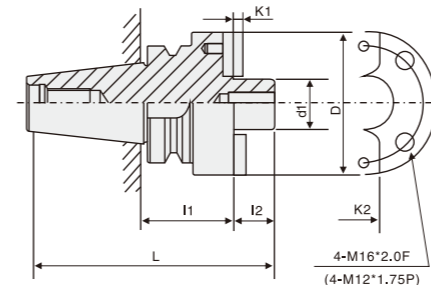
型號 Specification	L	
C20	-APU8	120
	-APU13	140
	-APU16	150
C25	-APU13	161
	-APU16	165
C32	-APU13	165
	-APU16	165



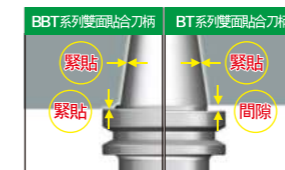
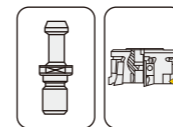
MORSE TAPER DRILL CHUCK

MT-APU 莫式柄一體式鑽夾頭

型號 Specification	L	
MT2	-APU8	164
MT3	-APU13	179
	-APU16	184
MT4	-APU13	202
	-APU16	207



專用面銑刀盤用刀柄



BT-FMB FACE MILLING ARBOR

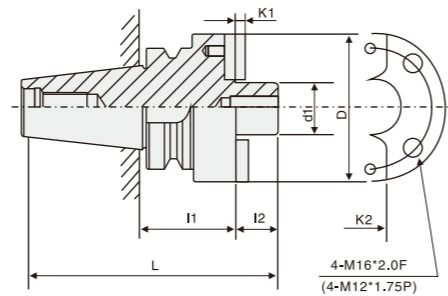
BT-FMB 面銑刀柄
BBT-FMB 面銑刀柄

帶“●”代表BBT-FMB系列面銑刀柄庫存規格

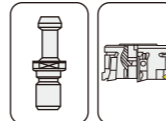
型號 Specification	尺寸 Size								重量 Weight(KG)	
	d1	D	L1	L2	L	K1	K2			
BT30	-FMB22-45	●	22	48	45	18	111.4	4.8	10	0.85
	-FMB27-45	●	27	60	45	20	113.4	5.8	12	1.20
	-FMB32-45	●	32	78	45	22	115.4	6.8	14	1.35
BT40	-FMB22-45	●			45		128.4			1.45
	-FMB22-60	●			60		143.4			1.70
	-FMB22-100	●			100		183.4			2.10
	-FMB22-150	●			150		233.4			3.10
	-FMB22-200	●	22	48	200	18	283.4	4.8	10	3.80
	-FMB22-250				250		283.4			4.50
	-FMB22-300				300		333.4			5.10
	-FMB27-60	●			60		128.4			1.60
	-FMB27-100	●	27	68	100	20	128.4	5.8	12	2.10
	-FMB27-150	●			150		128.4			2.60
BT50	-FMB32-60	●			60		128.4			1.70
	-FMB32-100	●	32	78	100	22	128.4	6.8	14	2.30
	-FMB32-150	●			150		128.4			3.00
	-FMB40-60	●			60		128.4			2.10
	-FMB40-100	●	40	80	100	25	128.4	8.3	16	2.50
	-FMB40-150	●			150		128.4			3.60
BT50	-FMB22-100	●			100		201.8			5.20
	-FMB22-150	●			150		269.8			6.80
	-FMB22-200	●			200		319.8			7.00
	-FMB22-250	●			250		369.8			8.00
	-FMB22-300	●	22	48/58	300	18	419.8	4.8	10	9.00
	-FMB22-350				350		469.8			10.00
	-FMB22-400				400		519.8			12.00
	-FMB22-450				450		569.8			12.00
	-FMB22-500				500		619.8			13.00
	-FMB27-100	●	27	60	100	20	201.8	5.8	12	6.50
	-FMB27-150	●			150		269.8			7.50
	-FMB27-200	●			200		319.8			9.50
	-FMB32-100	●	32	78	100	22	201.8	6.8	14	6.20
-FMB32-150	●			150		269.8			7.00	
-FMB40-60	●			60		176.8			5.20	
-FMB40-100	●	40	89	100	25	201.8	8.3	16	7.20	
-FMB40-150	●			150		269.8			7.80	
-FMB60-60		60	140	60	26	161.8	12.5	25.4	8.50	

特點/Feature

1. 附帶緊固螺絲。
 2. 使用中心內冷時，請另外訂購帶有孔的緊固螺絲。
1. Clamping nuts included.
 2. Separated order for clamping nuts is needed, if using internal coolant system.



專用面銑刀盤用刀柄



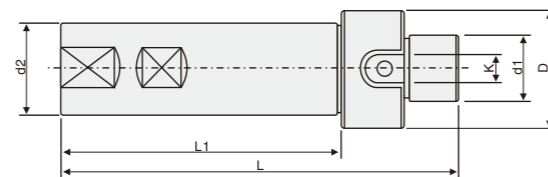
BT-FMA FACE MILLING ARBOR

BT-FMA 面銑刀柄

	型號 Specification	尺寸 Size							重量 Weight(KG)
		d1	D	L1	L2	L	K1	K2	
BT30	-FMA25.4-45	25.4	50	45	20	113.4	4.52	9.52	1.00
	-FMA25.4-60			60		128.4			1.30
BT40	-FMA31.75-45	31.75	60	45	22	115.4	6.7	12.7	1.35
	-FMA25.4-90	25.4	50	90	20	175.4	4.52	9.52	2.60
BT50	-FMA31.75-45	31.75	60	45	22	132.4	6.7	12.7	2.00
	-FMA31.75-90			90		177.4			2.90
BT50	-FMA38.1-60	38.1	75	60	25	150.4	8.87	15.87	2.80
	-FMA50.8-90	50.8	98	90	26	181.4	9.75	19.05	4.60
BT50	-FMA25.4-60	25.4	50	60	20	166.8	4.52	9.52	4.40
	-FMA25.4-100			100		211.8			5.10
BT50	-FMA25.4-150			150		271.8			6.10
	-FMA31.75-60	31.75	80	60	22	168.8	6.7	12.7	4.50
BT50	-FMA31.75-100			100		213.8			5.70
	-FMA31.75-150			150		273.8			6.00
BT50	-FMA38.1-60	38.1	60	60	25	186.8	8.87	15.87	4.90
	-FMA38.1-150		98	150		276.8			5.70
BT50	-FMA50.8-90	50.8	95	90	26	217.8	9.75	19.05	6.95
	-FMA50.8-150			150		277.8			7.90
BT50	-FMA47.625-75	47.625	128.75	75	32	208.8	12.5	25.4	7.90

特點/Feature

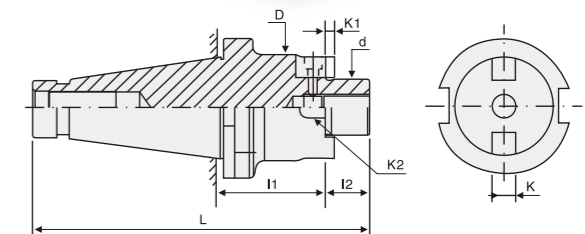
1. 整支通孔，利于出水及抗震。2. 附帶緊固螺絲。3. 使用中心內冷時，請另外訂購帶有孔的緊固螺絲。
1. Hollow design to increase water outlet and low tendency towards vibrations. 2. Clamping nuts included. 3. Separated order for clamping nuts is needed, if using internal coolant system.



STRAIGHT FACE MILL ARBOR EXTENSION HOLDER

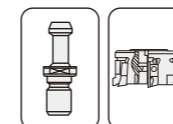
C-FMB 直柄面銑刀延長杆

	型號 Specification	尺寸 Size				
		d1	d2	D	L1	L
C20	-FMB22-60		20		60	98
	-FMB22-60				60	98
C32	-FMB22-100	22	32	47	100	138
	-FMB22-150				150	138



NT-FMB FACE MILLING ARBOR

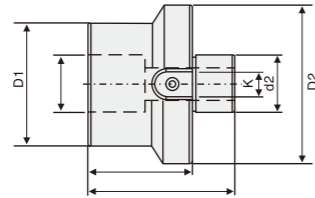
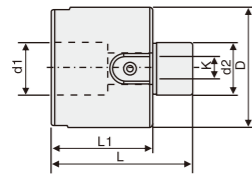
NT-FMB 面銑刀柄



	型號 Specification	尺寸 Size					DRAW BOLT	
		轴径d	L	L1	L2	K	INCH	METRIC
NT40	FMB22-30	22	131.4	30	18	10	5/8"-1UNC	M10×1.5
	FMB27-30	27	133.4	30	20	12	5/8"-1UNC	M12×1.75
	FMB32-45	32	135.4	45	22	14	5/8"-1UNC	M16×2.0
NT50	FMB40-50	40	138.4	50	25	16	5/8"-1UNC	M16×2.0
	FMB22-35	22	164.8	35	18	10	1"-8UNC	M10×1.5
NT50	FMB27-35	27	166.8	35	20	12	1"-8UNC	M12×1.75
	FMB32-35	32	168.8	35	22	14	1"-8UNC	M16×2.0
NT50	FMB40-35	40	216.8	35	25	16	1"-8UNC	M16×2.0
	FMB60-65	60	216.8	65	25	25.4	1"-8UNC	M16×2.0

特點/Feature

1. 附帶緊固螺絲。 2. 使用中心內冷時，請另外訂購帶有孔的緊固螺絲。
1. Clamping nuts included. 2. Separated order for clamping nuts is needed, if using internal coolant system.



MILL CHUCK

FMB-FMB 面銑刀柄延長接頭

型號 Specification	d2	尺寸 Size					KG
		D1	D	L1	L		
FMB22	22	22	47	40	60	0.5	
FMB22	22	22	58	50	70	0.6	



MILL CHUCK

FMB-FMB 面銑刀柄轉換接頭

型號 Specification	d2	d1	尺寸 Size				KG
			D1	D2	L1	L	
FMB27	27	22	47	58	40	60	0.64



MILL CHUCK

FMB-FMB 面銑刀柄轉換接頭

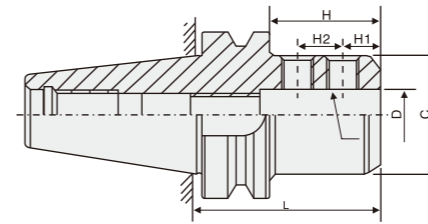
型號 Specification	d2	d1	尺寸 Size				KG
			D1	D2	L1	L	
FMB32	32	22	47	58	48	70	0.8



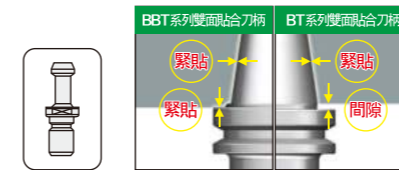
MILL CHUCK

FMB-FMA 面銑刀柄轉換接頭

型號 Specification	d2	D1	尺寸 Size			KG
			D	L1	L	
FMA25.4	25.4	22	47	40	60	0.52



不分孔徑皆為二只鎖緊螺絲用于夾持具有側固平面的刀具



帶“●”代表BBT-SLA型側固刀柄庫存規格

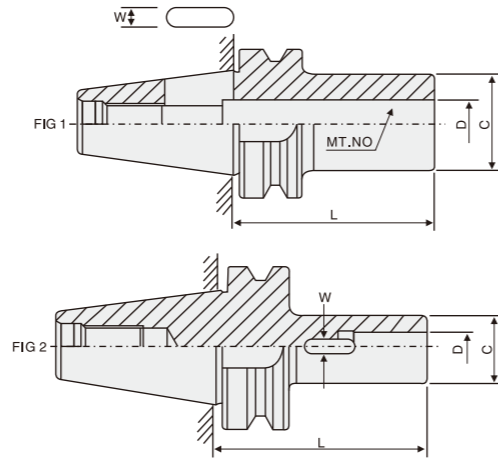
BT-SLA WELDON TOOL HOLDER

BT-SLA 側固刀柄
BBT-SLA 側固刀柄

型號 Specification	●	尺寸 Size					重量	
		ΦD	L	ΦC	H1	H2	M	Weight(KG)
BT30 -SLA6-60	●	6	60	25	13	13	M6	0.55
BT30 -SLA8-60	●	8	60	28	13	13	M8	0.6
BT30 -SLA10-60	●	10	60	35	13	13	M10	0.7
BT30 -SLA12-60	●	12	60	40	13	13	M10	0.75
BT30 -SLA16-90	●	16	90	40	25	20	M10	1.05
BT30 -SLA20-90	●	20	90	50	25	20	M12	1.1
BT30 -SLA25-90	●	25	90	50	25	20	M12	1.7
BT30 -SLA32-100	●	32	100	60	25	25	M16	1.85
BT40 -SLA6-75	●	6	75	25	13	13	M6	1.2
BT40 -SLA8-75	●	8	75	28	13	13	M8	1.25
BT40 -SLA10-75	●	10	75	35	13	13	M10	1.3
BT40 -SLA12-75	●	12	75	40	13	13	M10	1.35
BT40 -SLA16-90	●	16	90	40	25	20	M10	1.6
BT40 -SLA20-90	●	20	90	50	25	20	M12	1.65
BT40 -SLA25-90	●	25	90	50	25	20	M12	2.5
BT40 -SLA32-100	●	32	100	60	25	25	M16	2.8
BT40 -SLA40-100	●	40	100	70	25	25	M20	2.95
BT40 -SLA42-100		42	100	70	25	25	M20	3.15
BT50 -SLA6-100		6	100	25	13	13	M6	3.9
BT50 -SLA8-100		8	100	28	13	13	M8	3.9
BT50 -SLA10-100		10	100	35	13	13	M10	4.0
BT50 -SLA12-100		12	100	40	13	13	M10	4.0
BT50 -SLA16-100		16	100	40	20	20	M10	4.5
BT50 -SLA20-100		20	100	50	20	20	M12	4.7
BT50 -SLA20-150		20	150	50	20	20	M12	5.5
BT50 -SLA20-200		20	200	50	20	20	M12	6.0
BT50 -SLA25-100		25	100	50	20	20	M12	5.2
BT50 -SLA25-150		25	150	50	20	20	M12	6.0
BT50 -SLA25-200		25	200	50	20	20	M12	7.5
BT50 -SLA32-100		32	100	60	25	25	M16	6.0
BT50 -SLA32-150		32	150	60	25	25	M16	6.5
BT50 -SLA32-200		32	200	60	25	25	M16	7.3
BT50 -SLA40-100		40	100	70	25	25	M20	6.6
BT50 -SLA42-150		42	150	70	25	25	M20	7.2
BT50 -SLA42-200		42	200	70	25	25	M20	7.8
BT50 -SLA42-250		42	250	70	25	25	M20	7.8
BT50 -SLA50.8-120		51	120	90	35	35	M20	7.4

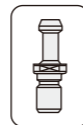
特點/Feature

1. 刀具裝着時，刃物的槽口平面部時與刀柄的側固螺釘對齊，強力鎖緊。
 2. 側固刀柄柄部形狀有不同，使用的刀柄也有區別，必須確認側固螺釘的位置。
1. The slot face of the holder should be adjusted equally to the side screw and be tightly locked.
 2. The pattern of the holder is different, so confirm the position of the side screw before choosing the chuck type.

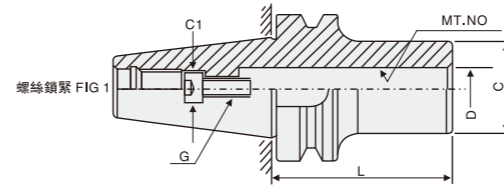


BT-MTA MORSE TAPER DRILL CHUCK

BT-MTA 莫式錐度鑽頭刀柄

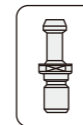


	型號		尺寸 Size				重量 Weight(KG)
	Specification	类型 (Type)	D	L	C	W	
BT30	MTA1-45	1	12.065	45	20	5.6	0.55
	MTA2-45	1	17.780	45	30	6.6	0.6
	MTA3-45	1	23.825	45	40	8.4	0.7
BT40	MTA1-45	1	12.065	45	25	5.6	1.05
	MTA1-120	2	12.065	120	25	5.6	1.4
	MTA2-45	1	17.780	45	32	6.6	1.1
	MTA2-120	2	17.780	120	32	6.6	1.85
	MTA3-75	1	23.825	75	40	8.4	1.25
	MTA3-135	2	23.825	135	40	8.4	1.9
	MTA4-90	1	31.065	90	50	12.4	1.45
	MTA4-165	2	31.065	165	50	12.4	2.5
BT50	MTA1-45	1	12.065	45	25	5.6	3.8
	MTA1-120	2	12.065	120	25	5.6	4.3
	MTA1-180	2	12.065	180	25	5.6	5.0
	MTA2-45	1	17.780	45	25	6.6	4.0
	MTA2-135	2	17.780	135	25	6.6	4.7
	MTA2-180	2	17.780	180	25	6.6	5.0
	MTA3-70	1	23.835	75	40	8.4	3.8
	MTA3-150	2	23.835	150	40	8.4	5.0
	MTA3-180	2	23.835	180	40	8.4	5.5
	MTA4-90	1	31.267	90	50	12.4	4.5
	MTA4-180	2	31.267	180	50	12.4	5.5
	MTA5-105	1	44.399	105			4.3

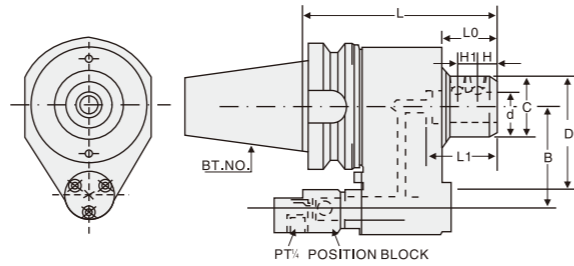


BT-MTB MORSE TAPER TOOL HOLDER

BT-MTB 莫式錐度刀柄



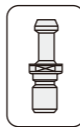
	型號		尺寸 Size					重量 Weight(KG)
	Specification	样式 (Manner)	D	L	C	C1	G	
BT30	MTB1-45	1	12.065	45	25	10	M6×1	0.55
	MTB2-45	1	12.065	45	32	10	M10×1	0.55
BT40	MTB1-45	1	12.065	45	25	10	M6×1	1.05
	MTB2-45	1	17.780	45	32	13.5	M10×1.5	1.85
	MTB3-75	1	23.825	75	42	18	M12×1.75	1.3
	MTB4-90	2	31.267	90	50	20.5	M16×2	1.4
BT50	MTB1-45	1	12.065	45	25	10	M6×1	3.8
	MTB2-45	1	17.780	45	32	16	M10×1.5	3.9
	MTB3-60	1	23.825	60	42	18	M12×1.75	4.0
	MTB4-75	1	31.267	75	50	20.5	M16×2	4.2
	MTB5-120	2	44.399	120	70	22.5	M20×2	4.3



BT-SLO OIL-FEED TOOL HOLDER

BT-SLO 油路刀柄

	型號	尺寸 Size									
	Specification	d	L	B	C	D	L0	L1	H	H1	
BT40	SLO32-150	32	150	60/65	52	90	50	60	15	15	
	SLO40-150	40	150	60/65	70	90	50	70	19	18	
BT50	SLO32-160	32	160	80/82	54	100	50	60	15	15	
	SLO40-160	40	160	80/82	64	100	50	70	19	18	

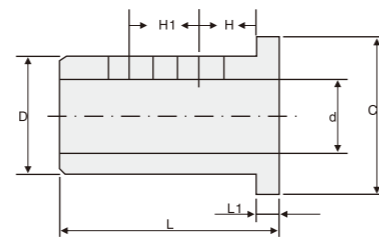


特點/Feature

- 1、刀柄本體精加工，加工過程中跳動穩定。
- 1、 Tool body finish machined for stable run-out accuracy.

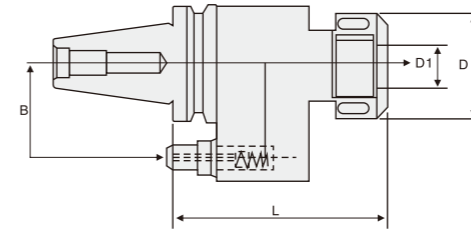
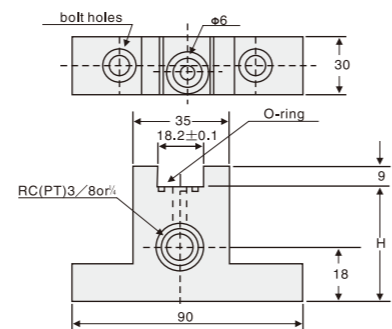
請于訂購時，依據機臺規格確認中心距離B的尺寸。

油路刀套



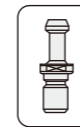
	型號	尺寸 Size						
	Specification	L	L1	H	H1	d	D	C
C32	16	65	10	15	15	16	32	53
	20	65	10	15	15	20	32	53
	25	65	10	15	15	25	32	53
C40	16	75	10	19	18	16	40	63
	20	75	10	19	18	20	40	63
	25	75	10	19	18	25	40	63
	32	75	10	19	18	32	40	63

止動塊



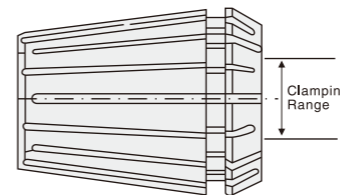
BT-ERO OIL-FEED TOOL HOLDER

BT-ERO 油路刀柄



	型號	尺寸 Size			中心距 Center Dia.
	Specification	D1	D	L	B
BT40	ERO32-145	ERO32-Φ6-Φ20	50	145	60/65
	ERO40-150	ERO40-Φ6-Φ25	63	150	60/65
BT50	ERO32-160	ERO32-Φ6-Φ20	50	155	80/82
	ERO40-160	ERO40-Φ6-Φ25	63	160	80/82

- 1、ERO油路刀把:請使用ER止水筒夾和止水螺帽。
- 2、請于訂購時，依據機臺規格確認中心距離B的尺寸；
- 3、ERO油路刀把止動塊為另購品。

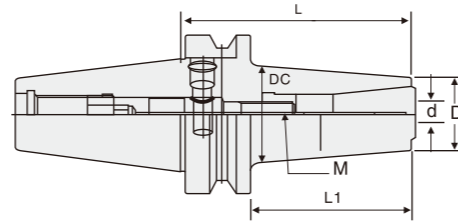


ER 止水型筒夾

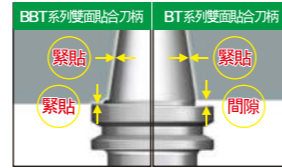
	型號	夾持範圍
	Specification	Clamping Range
ER32	4C	4.0-3.0
	5C	5.0-4.0
	6C	6.0-5.0
	7C	7.0-6.0
	8C	8.0-7.0
	9C	9.0-8.0
	10C	10.0-9.0
	11C	11.0-10.0
	12C	12.0-11.0
	13C	13.0-12.0
	14C	14.0-13.0
	15C	15.0-14.0
16C	16.0-15.0	
17C	17.0-16.0	
18C	18.0-17.0	
19C	19.0-18.0	
20C	20.0-19.0	

	型號	夾持範圍
	Specification	Clamping Range
ER40	4C	4.0-3.0
	5C	5.0-4.0
	6C	6.0-5.0
	7C	7.0-6.0
	8C	8.0-7.0
	9C	9.0-8.0
	10C	10.0-9.0
	11C	11.0-10.0
	12C	12.0-11.0
	13C	13.0-12.0
	14C	14.0-13.0
	15C	15.0-14.0
16C	16.0-15.0	
17C	17.0-16.0	
18C	18.0-17.0	
19C	19.0-18.0	
20C	20.0-19.0	

	型號	夾持範圍
	Specification	Clamping Range
ER40	21C	21.0-20.0
	22C	22.0-21.0
	23C	23.0-22.0
	24C	24.0-23.0
	25C	25.0-24.0
	26C	26.0-25.0



預設動平衡G2.5,30000min
後拉鎖緊,方便更實用,振動精度0.003MM



BT-SDC HIGH PRECISION TOOL HOLDER

BT-SDC 後拉式刀柄

BBT-SDC 後拉式刀柄 帶“●”代表BBT-SDC後拉式刀柄系列庫存規格

型號 Specification	夾持範圍(mm) Clamping range	尺寸 Size				單邊斜度 Angle	
		D	DC	L	L1		
BT30	-SDC6-60	2.0-6.0	14.5	17	60	40	3°
	-SDC6-90	2.0-6.0	14.3	20.5	90	40	3°
	-SDC8-60	2.0-10.0	22.6	26	60	40	3°
	-SDC8-90	2.0-10.0	22.5	29	90	40	3°
BT40	-SDC12-60	2.0-12.0	34.2	34.2	60	40	/
	-SDC12-90	2.0-12.0	34.2	34.2	90	40	/
	-SDC6-70	2.0-6.0	14.2	17.8	70	45	3°
	-SDC6-100	2.0-6.0	14.3	20.9	100	75	3°
	-SDC6-150	2.0-6.0	14.4	26.2	150	125	3°
	-SDC6-200	2.0-6.0	13.1	30.2	200	175	3°
	-SDC6-250	2.0-6.0	13.1	35.4	250	225	3°
	-SDC8-70	2.0-10.0	22	26	70	45	3°
	-SDC8-100	2.0-10.0	22	29.2	100	75	3°
	-SDC8-150	2.0-10.0	22	34.4	150	125	3°
	-SDC8-200	2.0-10.0	22	39.7	200	175	3°
	-SDC8-250	2.0-10.0	22	44.9	250	225	3°
BT50	-SDC12-70	2.0-12.0	34	34	70	45	/
	-SDC12-100	2.0-12.0	34	34	100	75	/
	-SDC12-150	2.0-12.0	34	34	150	125	/
	-SDC12-200	2.0-12.0	34	34	200	175	/
	-SDC12-250	2.0-12.0	34	34	250	225	/
	-SDC6-100	2.0-6.0	14.2	19.8	100	65	3°
	-SDC6-150	2.0-6.0	14.2	25	150	115	3°
	-SDC6-200	2.0-6.0	14.2	30.2	200	165	3°
SDC	-SDC6-250	2.0-6.0	14.2	35.5	250	215	3°
	-SDC6-300	2.0-6.0	14.2	40.7	300	265	3°
	-SDC8-100	2.0-10.0	22	28.1	100	65	3°
	-SDC8-150	2.0-10.0	22	33.3	150	115	3°
	-SDC8-200	2.0-10.0	22	38.5	200	165	3°
	-SDC8-250	2.0-10.0	22	43.8	250	215	3°
	-SDC8-300	2.0-10.0	22	49	300	265	3°
	-SDC12-100	2.0-12.0	34	34	100	65	/
	-SDC12-150	2.0-12.0	34	34	150	115	/
	-SDC12-200	2.0-12.0	34	34	200	165	/
	-SDC12-250	2.0-12.0	34	34	250	215	/
	-SDC12-300	2.0-12.0	34	34	300	265	/

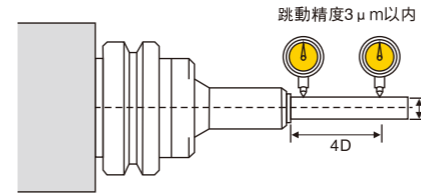
特點/Feature

1. 預設動平衡, 刀柄精度高, 跳動0.003mm, 最高轉速G2.5 30000rpm適合高精密加工。
2. 無螺帽設計, 減少加工干涉。
3. 后拉筒夾特殊角度設計, 夾持力強, 重複裝夾精度高。
4. 安裝和拆卸刀具方便, 使用六角扳手即可。
1. Pre-balanced, high precision run-out 0.003mm, maximum G2.5 30000 rpm, suitable for high precision machining.
2. Without clamping nut, less processing interference.
3. Back locking collet design ensures high clamping force and precision repetition.
4. Assembling and disassembling process is simple and easy by hexagonal wrench.



SDC COLLET

SDC 後拉式筒夾



型號 Specification	標準		精密	
	Standard	Precision	Standard	Precision
SDC6	-3	0.005	0.003	
	-4	0.005	0.003	
	-5	0.005	0.003	
	-6	0.005	0.003	

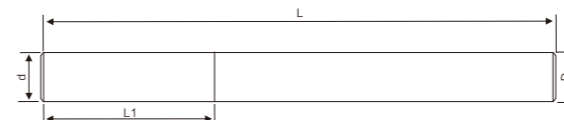
型號 Specification	標準		精密	
	Standard	Precision	Standard	Precision
SDC8	-3	0.005	0.003	
	-4	0.005	0.003	
	-5	0.005	0.003	
	-6	0.005	0.003	
	-8	0.005	0.003	
	-10	0.005	0.003	

型號 Specification	標準		精密	
	Standard	Precision	Standard	Precision
SDC12	-3	0.005	0.003	
	-4	0.005	0.003	
	-5	0.005	0.003	
	-6	0.005	0.003	
	-8	0.005	0.003	
	-12	0.005	0.003	

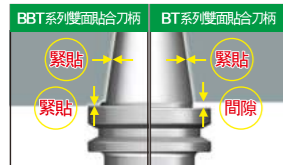
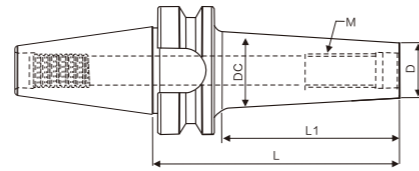


SDC EXTENSION HOLDER

SDC 後拉式延長杆



型號 Specification	尺寸 Size				斜度 Angle	
	d	D	L	L1		
SDC	ST12-SDC6-120L	13.5	12	120	45	
	ST12-SDC6-150L	13.5	12	150	45	
	ST16-SDC6-130L	13.5	16	130	30	单边3°
	ST16-SDC6-150L	13.5	16	150	30	单边3°
	ST16-SDC6-200L	13.5	16	200	35	单边3°
	ST16-SDC6-250L	13.5	16	250	35	单边3°
	ST20-SDC6-150L	13.5	20	150	30	单边3°
	ST20-SDC6-200L	13.5	20	200	35	单边3°
	ST20-SDC6-250L	13.5	20	250	35	单边3°
	ST20-SDC8-150L	20	20	150	45	
	ST20-SDC8-200L	20	20	200	45	
	ST20-SDC8-250L	20	20	250	45	

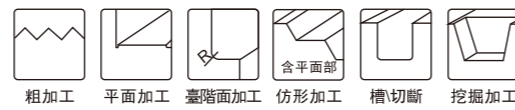


INDEXABLE SCREW TYPE MODULAR CUTTER

BT-M 鎖牙式刀柄

BBT-M 鎖牙式刀柄

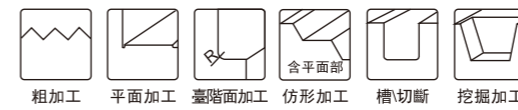
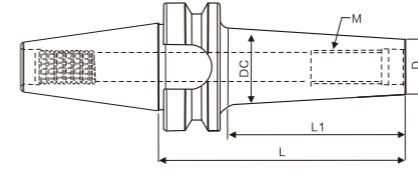
帶“●”代表BBT-M型鎖牙式系列庫存規格



型號 Specification		M	D	尺寸 Size DC	L	L1	單邊斜度 Angle
BT30-M6-50	●	M6	11.5	13.4	50	30	3°
BT30-M6-100	●	M6	12	13.4	100	80	3°
BT30-M8-50	●	M8	15	17.5	50	30	3°
BT30-M8-100	●	M8	15	22.5	100	80	3°
BT30-M10-50	●	M10	19	44.5	50	30	3°
BT30-M10-100	●	M10	19	25.5	100	80	3°
BT30-M12-50	●	M12	23	26	50	30	3°
BT30-M12-100	●	M12	23	30	100	80	3°
BT30-M16-50	●	M16	30	32.5	50	30	3°
BT30-M16-100	●	M16	31	32	100	80	3°
BT40-M8-70	●	M8	15.5	16	70	45	3°
BT40-M8-100	●	M8	15	37.5	100	75	3°
BT40-M8-150		M8	15	21.5	150	125	3°
BT40-M8-200		M8	14.5	25.5	200	175	3°
BT40-M10-70	●	M10	19	23.5	70	45	3°
BT40-M10-100	●	M10	19	26.5	100	75	3°
BT40-M10-150		M10	19	32	150	125	3°
BT40-M10-200		M10	19.5	37.5	200	175	3°
BT40-M12-70	●	M12	24	28	70	45	3°
BT40-M12-100	●	M12	24	31	100	75	3°
BT40-M12-150		M12	24	36	150	125	3°
BT40-M12-200		M12	24	42	200	175	3°
BT40-M16-70	●	M16	30	34	70	45	3°
BT40-M16-100	●	M16	30	37.5	100	75	3°
BT40-M16-150		M16	30	43	150	125	3°
BT40-M16-200		M16	30	48.5	200	175	3°

產品特性/Feature

1. 模塊化組合，刀頭與刀柄螺紋連接，沉頭結合
 2. 刀柄直接連接刀頭，無需筒夾，降低多次裝夾精度公差
 3. 刀片切削均勻提高刀片壽命，減少加工過程中因為周跳導致的振紋
 4. 可換式刀頭，重複裝夾精度高，適合開粗和精銑
 5. 刀頭可以對應不同型號刀片，與刀柄多種組合，即使刀具部分損壞也可立即更換，更經濟
1. Modular type screw cutter connected with tool holder, countersink surface.
 2. Direct connection without collet, repetition tolerance is reduced.
 3. Equal cutting force promise the improved insert life and less processing chatter marks
 4. Changeable screw cutter bar, precision repetition, suitable for rough and finish machining.
 5. Various insert type can be applied for the the screw cutter, different combinations with the tool holder are available. Part of tools can be replaced easily, more economical



INDEXABLE SCREW TYPE MODULAR CUTTER

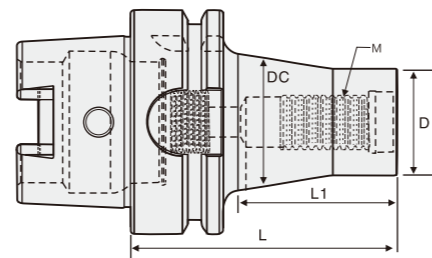
BT-M 鎖牙式刀柄

型號 Specification	M	D	尺寸 Size DC	L	L1	單邊斜度 Angle
BT50-M8-100	M8	15	20.9	100	75	3°
BT50-M8-150	M8	15	26.1	150	115	3°
BT50-M8-200	M8	15	31.3	200	165	3°
BT50-M8-250	M8	15	36.5	250	215	3°
BT50-M8-300	M8	15	41.7	300	265	3°
BT50-M10-100	M10	19	24.8	100	75	3°
BT50-M10-150	M10	19	30	150	115	3°
BT50-M10-200	M10	19	35.2	200	165	3°
BT50-M10-250	M10	19	40.5	250	215	3°
BT50-M10-300	M10	19	45.7	300	265	3°
BT50-M12-100	M12	23	28	100	75	3°
BT50-M12-150	M12	23	34.1	150	115	3°
BT50-M12-200	M12	23	39.4	200	165	3°
BT50-M12-250	M12	23	44.6	250	215	3°
BT50-M12-300	M12	23	49.8	300	265	3°
BT50-M16-100	M16	29	34.7	100	75	3°
BT50-M16-150	M16	29	39.9	150	115	3°
BT50-M16-200	M16	29	45.2	200	165	3°
BT50-M16-250	M16	29	50.4	250	215	3°
BT50-M16-300	M16	29	55.6	300	265	3°

特點/Feature

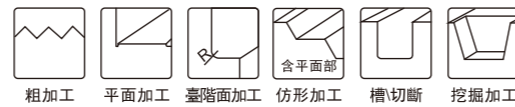
1. 模塊化組合，刀頭與刀柄螺紋連接，沉頭結合
2. 刀柄直接連接刀頭，無需筒夾，降低多次裝夾精度公差
3. 刀片切削均勻提高刀片壽命，減少加工過程中因為周跳導致的振紋
4. 可換式刀頭，重複裝夾精度高，適合開粗和精銑
5. 刀頭可以對應不同型號刀片，與刀柄多種組合，即使刀具部分損壞也可立即更換，更經濟

1. Modular type screw cutter connected with tool holder, countersink surface.
2. Direct connection without collet, repetition tolerance is reduced.
3. Equal cutting force promise the improved insert life and less processing chatter marks
4. Changeable screw cutter bar, precision repetition, suitable for rough and finish machining.
5. Various insert type can be applied for the the screw cutter, different combinations with the tool holder are available. Part of tools can be replaced easily, more economical



INDEXABLE SCREW TYPE MODULAR CUTTER

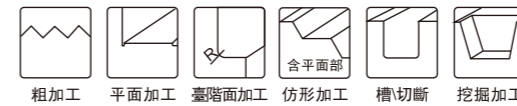
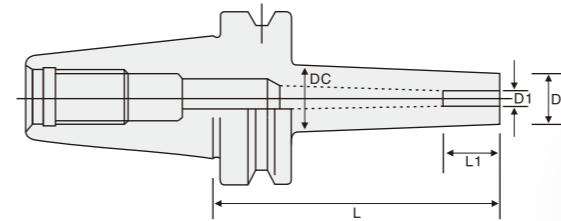
可轉位鎖牙式立銑刀柄



型號 Specification	M	D	尺寸 Size			單邊斜度 Angle
			DC	L	L1	
HSK63A						
HSK63A-M8-75	M8	15	28	75	20	20°
HSK63A-M8-125	M8	15	28	125	70	20°
HSK63A-M10-75	M10	19	33	75	20	15°
HSK63A-M10-125	M10	19	33	125	70	15°
HSK63A-M12-75	M12	24	39	75	20	15°
HSK63A-M12-125	M12	24	39	125	70	15°
HSK63A-M16-75	M16	31	39	75	20	10°
HSK63A-M16-125	M16	31	39	125	70	10°

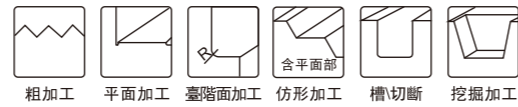
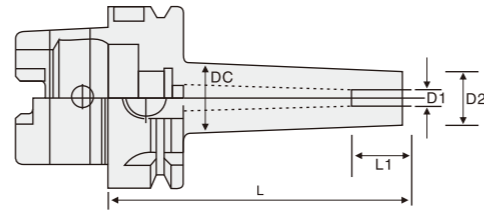
特點/Feature

- 1、模塊化組合，刀頭與刀柄螺紋連接，沉頭結合
 - 2、刀柄直接連接刀頭，無需筒夾，降低多次裝夾精度公差
 - 3、刀片切削均勻提高刀片壽命，減少加工過程中因為周跳導致的振紋
 - 4、可換式刀頭，重複裝夾精度高，適合開粗和精銑
 - 5、刀頭可以對應不同型號刀片，與刀柄多種組合，即使刀具部分損壞也可立即更換，更經濟
- 1、Modular type screw cutter connected with tool holder, countersink surface.
 - 2、Direct connection without collet, repetition tolerance is reduced.
 - 3、Equal cutting force promise the improved insert life and less processing chatter marks
 - 4、Changeable screw cutter bar, precision repetition, suitable for rough and finish machining.
 - 5、Various insert type can be applied for the the screw cutter, different combinations with the tool holder are available. Part of tools can be replaced easily, more economical



BT/BBT-SR SHRINK FIT CHUCK
BT/BBT-SR 熱縮刀柄標準型

型號 Specification	尺寸 Size			單邊斜度 Angle	
	D1	D2	DC		
BT30					
BT30-SR4-80	4	15	20	80	4.5°
BT30-SR6-80	6	21	27	80	4.5°
BT30-SR8-80	8	22	28	80	4.5°
BT30-SR10-80	10	24	32	80	4.5°
BT30-SR12-80	12	24	32	80	4.5°
BT30-SR16-80	16	27	34	80	4.5°
BT40					
BT40-SR4-90	4.0	15	20	90	4.5°
BT40-SR6-90	6.0	21	27	90	4.5°
BT40-SR6-120	6.0	21	27	120	4.5°
BT40-SR6-160	6.0	21	27	160	4.5°
BT40-SR8-90	8.0	21	27	90	4.5°
BT40-SR8-120	8.0	21	27	120	4.5°
BT40-SR8-160	8.0	21	27	160	4.5°
BT40-SR10-90	10.0	24	32	90	4.5°
BT40-SR10-120	10.0	24	32	120	4.5°
BT40-SR10-160	10.0	24	32	160	4.5°
BT40-SR12-90	12.0	24	32	90	4.5°
BT40-SR12-120	12.0	24	32	120	4.5°
BT40-SR12-160	12.0	24	32	160	4.5°
BT40-SR16-90	16.0	27	34	90	4.5°
BT40-SR16-120	16.0	27	34	120	4.5°
BT40-SR16-160	16.0	27	34	160	4.5°
BT40-SR20-90	20.0	33	42	90	4.5°
BT40-SR20-120	20.0	33	42	120	4.5°
BT40-SR20-160	20.0	33	42	160	4.5°
BT40-SR25-100	25.0	44	53	100	4.5°
BT40-SR25-160	25.0	44	53	160	4.5°
BT40-SR32-100	32.0	44	53	100	4.5°
BT40-SR32-160	32.0	44	53	160	4.5°
BT50					
BT50-SR6-100	6.0	21	27	100	4.5°
BT50-SR6-160	6.0	21	27	160	4.5°
BT50-SR8-100	8.0	21	27	100	4.5°
BT50-SR8-160	8.0	21	27	160	4.5°
BT50-SR10-100	10.0	24	32	100	4.5°
BT50-SR10-160	10.0	24	32	160	4.5°
BT50-SR12-100	12.0	24	32	100	4.5°
BT50-SR12-160	12.0	24	32	160	4.5°
BT50-SR16-100	16.0	27	34	100	4.5°
BT50-SR16-160	16.0	27	34	160	4.5°
BT50-SR20-100	20.0	33	42	100	4.5°
BT50-SR20-160	20.0	33	42	160	4.5°
BT50-SR25-100	25.0	44	53	100	4.5°
BT50-SR25-160	25.0	44	53	160	4.5°
BT50-SR32-100	32.0	44	53	100	4.5°
BT50-SR32-160	32.0	44	53	160	4.5°



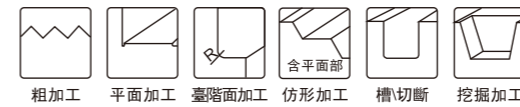
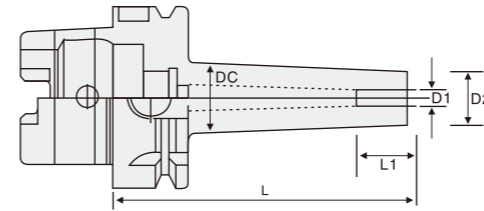
HSK-SR SHRINK FIT CHUCK

HSK-SR 熱縮刀柄標準型

型號 Specification	尺寸 Size				單邊斜度 Angle	
	D1	D2	DC	L		
HSK32E	-SR3-60	3	15	20	60	4.5°
	-SR4-60	4	15	20	60	4.5°
	-SR6-70	6	21	26	70	4.5°
	-SR8-70	8	21	26	70	4.5°
	-SR10-80	10	24	32	80	4.5°
HSK40E	-SR4-60	4	15	20	60	4.5°
	-SR6-80	6	21	27	80	4.5°
	-SR8-80	8	21	27	80	4.5°
	-SR10-90	10	24	32	90	4.5°
	-SR12-90	12	24	32	90	4.5°
HSK50E	-SR4-60	4	15	20	60	4.5°
	-SR6-80	6	21	27	80	4.5°
	-SR8-80	8	21	27	80	4.5°
	-SR10-90	10	24	32	90	4.5°
	-SR12-90	12	24	32	90	4.5°
HSK50A	-SR4-60	4	15	20	60	4.5°
	-SR6-80	6	21	27	80	4.5°
	-SR8-80	8	21	27	80	4.5°
	-SR10-90	10	24	32	90	4.5°
	-SR12-90	12	24	32	90	4.5°
	-SR16-100	16	27	34	100	4.5°
	-SR03-80	3	10	17	80	4.5°
	-SR04-80	4	15	20	80	4.5°
	-SR04-120	4	15	20	120	4.5°
	-SR05-80	5	15	20	80	4.5°
	-SR06-80	6	21	27	80	4.5°
	-SR06-120	6	21	27	120	4.5°
	-SR08-80	8	21	27	80	4.5°
	-SR08-120	8	21	27	120	4.5°
	-SR10-85	10	24	32	85	4.5°
-SR10-120	10	24	32	120	4.5°	
-SR12-90	12	24	32	90	4.5°	
-SR12-120	12	24	32	120	4.5°	
-SR14-90	14	27	34	90	4.5°	
-SR14-120	14	27	34	120	4.5°	
-SR16-95	16	27	34	95	4.5°	
-SR16-120	16	27	34	120	4.5°	
-SR18-95	18	33	42	95	4.5°	
-SR20-100	20	33	42	100	4.5°	

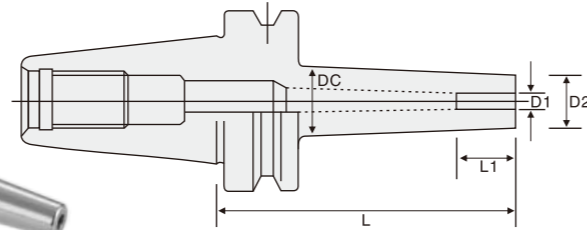
特點/Feature

1. 夾持力強，高精度
 2. 不需要其它配件，減少加工干涉，適合深腔加工
 3. 中心冷卻效果好
 4. 預設動平衡G2.5 25000RPM
- 1.High clamping force with stable run-out accuracy <0.003mm
 2.Without extra spare parts, less machining interference, suitable for deep cavity machining
 3.Good central cooling
 4.Pre-balanced to G2.5 25000RPM

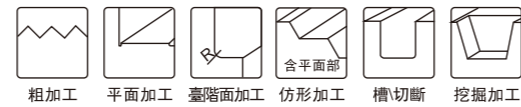


HSK-SR SHRINK FIT CHUCK
HSK-SR 熱縮刀柄標準型

型號 Specification	尺寸 Size				單邊斜度 Angle	
	D1	D2	DC	L		
HSK63A	-SR4-80	4	15	20	80	4.5°
	-SR6-80	6	21	27	80	4.5°
	-SR6-120	6	21	27	120	4.5°
	-SR6-160	6	21	27	160	4.5°
	-SR8-80	8	21	27	80	4.5°
	-SR8-120	8	21	27	120	4.5°
	-SR8-160	8	21	27	160	4.5°
	-SR10-90	10	24	32	90	4.5°
	-SR10-120	10	24	32	120	4.5°
	-SR10-160	10	24	32	160	4.5°
	-SR12-90	12	24	32	90	4.5°
	-SR12-120	12	24	32	120	4.5°
	-SR12-160	12	24	32	160	4.5°
	-SR16-100	16	27	34	100	4.5°
	-SR16-160	16	27	34	160	4.5°
HSK100A	-SR20-100	20	33	42	100	4.5°
	-SR20-160	20	33	42	160	4.5°
	-SR25-120	25	44	53	120	4.5°
	-SR25-160	25	44	53	160	4.5°
	-SR32-120	32	44	53	120	4.5°
	-SR32-160	32	44	53	160	4.5°
	-SR6-90	6	21	27	90	4.5°
	-SR6-120	6	21	27	120	4.5°
	-SR6-160	6	21	27	160	4.5°
	-SR8-90	8	21	27	90	4.5°
	-SR8-120	8	21	27	120	4.5°
	-SR8-160	8	21	27	160	4.5°
	-SR10-90	10	24	32	90	4.5°
	-SR10-120	10	24	32	120	4.5°
	-SR10-160	10	24	32	160	4.5°
-SR12-100	12	24	32	100	4.5°	
-SR12-120	12	24	32	120	4.5°	
-SR12-160	12	24	32	160	4.5°	
-SR16-100	16	27	34	100	4.5°	
-SR16-160	16	27	34	160	4.5°	
-SR20-110	20	33	42	110	4.5°	
-SR20-160	20	33	42	160	4.5°	
-SR25-120	25	44	53	120	4.5°	
-SR25-160	25	44	53	160	4.5°	
-SR32-120	32	44	53	120	4.5°	
-SR32-160	32	44	53	160	4.5°	



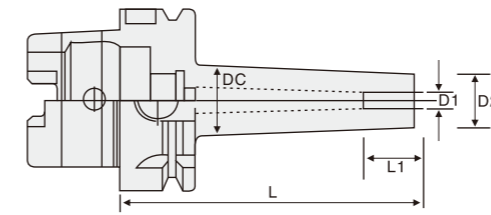
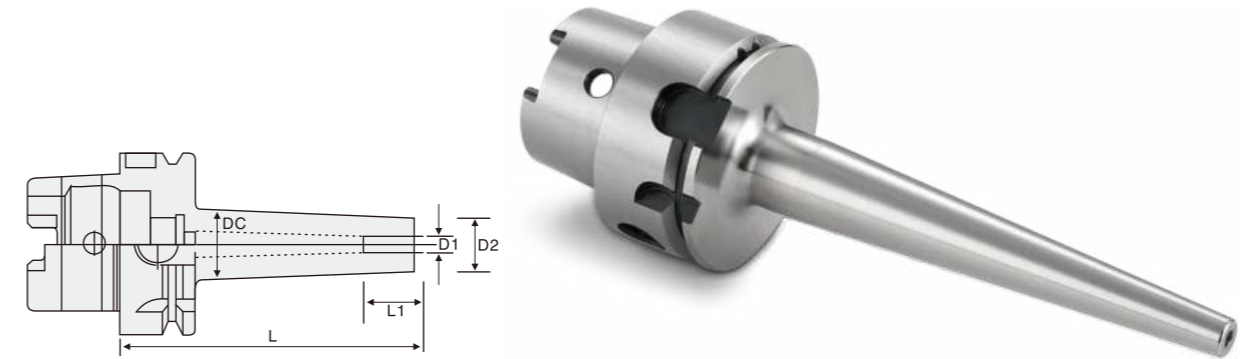
BT/BBT SHRINK FIT SLIM CHUCK
BT/BBT 熱縮刀柄細長型



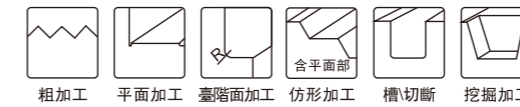
	型號	尺寸 Size				單邊斜度 Angle
	Specification	D1	D2	DC	L	
BT30	-SRS3-80	3.0	8	14	80	3°
	-SRS4-80	4.0	12	16	80	3°
	-SRS6-80	6.0	12	18	80	3°
	-SRS8-80	8.0	14	20	80	3°
	-SRS10-80	10.0	16	22	80	3°
	-SRS12-80	12.0	18	24	80	3°
BT40	-SRS4-90	4.0	10	16	90	3°
	-SRS4-120	4.0	10	19	120	3°
	-SRS4-160	4.0	10	22	160	3°
	-SRS6-90	6.0	12	18	90	3°
	-SRS6-120	6.0	12	21	120	3°
	-SRS6-160	6.0	12	24	160	3°
	-SRS8-90	8.0	14	20	90	3°
	-SRS8-120	8.0	14	23	120	3°
	-SRS8-160	8.0	14	26	160	3°
	-SRS10-90	10.0	16	22	90	3°
	-SRS10-120	10.0	16	25	120	3°
	-SRS10-160	10.0	16	28	160	3°
	-SRS12-90	12.0	18	24	90	3°
	-SRS12-120	12.0	18	27	120	3°
	-SRS12-160	12.0	18	30	160	3°

特點/Feature

1. 夾持力強，高精度
 2. 不需要其它配件，減少加工干涉，適合深腔加工
 3. 中心冷卻效果好
 4. 預設動平衡G2.5 25000RPM
1. High clamping force with stable run-out accuracy <0.003mm
 2. Without extra spare parts, less machining interference, suitable for deep cavity machining
 3. Good central cooling
 4. Pre-balanced to G2.5 25000RPM



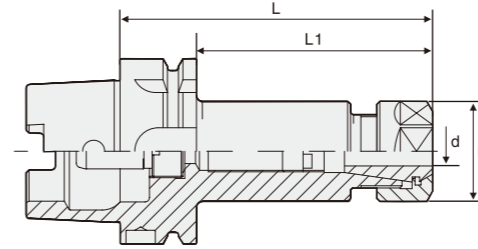
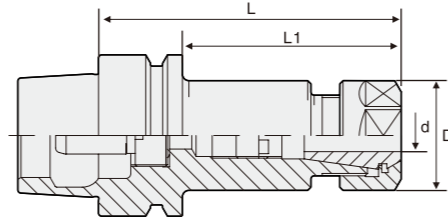
HSK-SR SHRINK FIT SLIM CHUCK
HSK-SR 熱縮刀柄細長型



	型號	尺寸 Size				單邊斜度 Angle
	Specification	D1	D2	DC	L	
HSK63A	-SRS4-80	4	10	16	80	3°
	-SRS4-120	4	10	19	120	3°
	-SRS4-160	4	10	22	160	3°
	-SRS6-80	6	12	18	80	3°
	-SRS6-120	6	12	21	120	3°
	-SRS6-160	6	12	24	160	3°
	-SRS8-80	8	14	20	80	3°
	-SRS8-120	8	14	23	120	3°
	-SRS8-160	8	14	26	160	3°
	-SRS10-90	10	16	22	90	3°
	-SRS10-120	10	16	25	120	3°
	-SRS10-160	10	16	28	160	3°
	-SRS12-90	12	18	24	90	3°
	-SRS12-120	12	18	27	120	3°
	-SRS12-160	12	18	30	160	3°

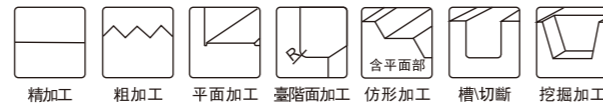
特點/Feature

1. 夾持力強，高精度
 2. 不需要其它配件，減少加工干涉，適合深腔加工
 3. 中心冷卻效果好
 4. 預設動平衡G2.5 25000RPM
1. High clamping force with stable run-out accuracy <0.003mm
 2. Without extra spare parts, less machining interference, suitable for deep cavity machining
 3. Good central cooling
 4. Pre-balanced to G2.5 25000RPM



HSK-ER COLLET CHUCK

HSK-ER 彈性刀柄



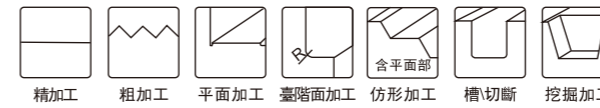
	型號	夾持範圍	尺寸 Size			筒夾	重量
	Specification	Clamping range	D	L	L1	suitable Collet	Weight(KG)
HSK32E	ER16-60	1-10	28	60	40	ER16	0.2
	ER20-60	1-13	34	60	40	ER20	0.3
	ER25-60	1-16	42	60	40	ER25	0.5
	ER32-80	1-20	50	80	60	ER32	0.7
HSK40E	ER16-70	1-10	28	70	50	ER16	0.5
	ER20-70	1-13	34	70	50	ER20	0.6
	ER25-70	1-16	42	70	50	ER25	0.8
	ER32-70	1-20	50	70	50	ER32	1.0
HSK50E	ER16-80	1-10	28	80	54	ER16	0.7
	ER20-80	1-13	34	80	54	ER20	0.8
	ER25-80	1-16	42	80	54	ER25	1.0
	ER32-80	1-20	50	80	54	ER32	1.2

特點/Feature

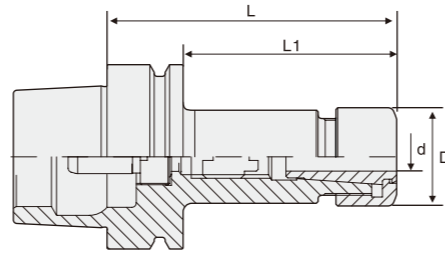
1. 預設動平衡，刀柄精度高，跳動0.003mm，最高轉速G2.5 30000rpm。
2. 同心度高，穩定的震動精度，應用廣泛。
1. Pre-balanced, high precision run-out 0.003mm, G2.5 30000 rpm.
2. High concentricity, stable run-out accuracy for most wide application.

HSK-ER COLLET CHUCK

HSK-ER 彈性刀柄

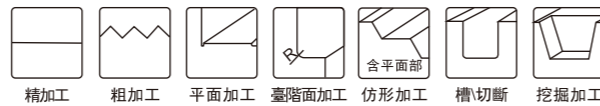


	型號	夾持範圍	尺寸 Size			筒夾	重量
	Specification	Clamping range	D	L	L1	suitable Collet	Weight(KG)
HSK50A	ER16-80	1-10	28	80	54	ER16	0.7
	ER16-100	1-10	28	100	74	ER16	0.9
	ER16-125	1-10	28	125	99	ER16	1.2
	ER20-80	1-13	34	80	54	ER20	0.7
	ER20-100	1-13	34	100	74	ER20	0.9
	ER20-125	1-13	34	125	99	ER20	1.2
	ER25-80	1-16	42	80	54	ER25	0.9
	ER25-100	1-16	42	100	74	ER25	1.1
	ER25-125	1-16	42	125	99	ER25	1.4
	ER32-80	1-20	50	80	54	ER32	1.1
	ER32-100	1-20	50	100	74	ER32	1.2
	ER32-125	1-20	50	125	99	ER32	1.4
HSK63A	ER16-100	1-10	28	100	74	ER16	1.1
	ER16-125	1-10	28	125	99	ER16	1.3
	ER16-160	1-10	28	160	134	ER16	1.5
	ER20-100	1-13	34	100	74	ER20	1.1
	ER20-125	1-13	34	125	99	ER20	1.3
	ER20-160	1-13	34	160	134	ER20	1.6
	ER25-100	1-16	42	100	74	ER25	1.4
	ER20-125	1-16	42	125	99	ER25	1.6
	ER25-160	1-16	42	160	134	ER25	2.1
	ER32-100	1-20	50	100	74	ER32	1.6
	ER32-125	1-20	50	125	99	ER32	2.0
	ER32-160	1-20	50	160	134	ER32	2.5
HSK100A	ER40-100	1-26	63	100	74	ER40	1.8
	ER40-125	1-26	63	125	99	ER40	2.3
	ER40-160	1-26	63	160	134	ER40	3.0
	ER16-100	1-10	28	100	71	ER16	2.6
	ER16-150	1-10	28	150	131	ER16	2.9
	ER20-100	1-13	34	100	71	ER20	2.7
	ER20-150	1-13	34	150	131	ER20	3.1
	ER25-100	1-16	42	100	71	ER20	2.9
	ER25-150	1-16	42	150	131	ER25	3.5
	ER32-100	1-20	50	100	71	ER25	3.1
	ER32-150	1-20	50	150	131	ER32	3.8
	ER40-100	1-26	63	100	71	ER40	3.3
ER40-150	1-26	63	150	131	ER40	4.1	



HSK-SK HIGH SPEED TOOL HOLDER

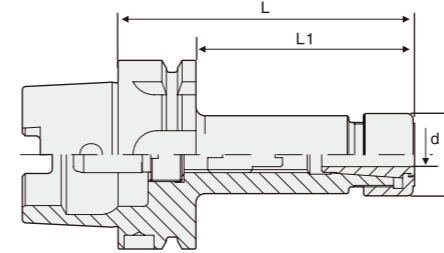
HSK-SK 高速刀柄



	型號	夾持範圍	尺寸 Size			筒夾	重量
	Specification	Clamping range	D	L	L1	suitable Collet	Weight(KG)
HSK32E	SK10-60	2-10	27	60	40	SK10	0.3
	SK16-60	3-16	40	60	40	SK16	0.5
HSK40E	SK10-70	2-10	27	70	50	SK10	0.6
	SK16-70	3-16	40	70	50	SK16	0.8
HSK50E	SK10-80	2-10	27	80	54	SK10	0.8
	SK16-80	3-16	40	80	54	SK16	1.0

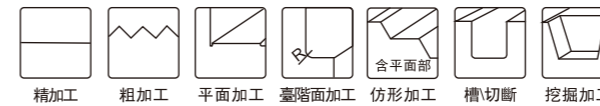
特點/Feature

- 1、預設動平衡，刀柄精度高，適合高速旋轉，跳動0.003mm，最高轉速G2.5 40000rpm。
 - 2、表面硬度HV220的滑動旋轉，不會損傷，無響聲。
 - 3、是面與面接觸，微米跳動切削力提高，刀具使用壽命延長。
 - 4、同心度高，穩定的震動精度，提高精加工表面精度。
- 1、Pre-balanced, high precision run-out 0.003mm, suitable for high rotating, maximum G2.5 40000 rpm.
 - 2、Surface hardness up to HV 220 by rotating, no damage and noise.
 - 3、Covering interface with precision vibration and high metal removal, increased tool life.
 - 4、High concentricity, stable run-out accuracy to enhance fine machining surface roughness.



HSK-SK HIGH SPEED TOOL HOLDER

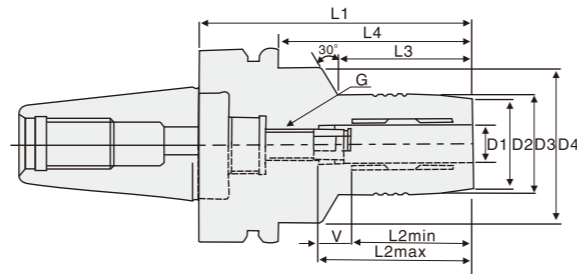
HSK-SK 高速刀柄



	型號	夾持範圍	尺寸 Size			筒夾	重量
	Specification	Clamping range	D	L	L1	suitable Collet	Weight(KG)
HSK50A	SK10-80	2-10	27	80	54	SK10	0.8
	SK16-80	3-16	40	80	54	SK16	1.0
HSK63A	SK10-90	2-10	27	90	64	SK10	1.1
	SK10-120	2-10	27	120	94	SK10	1.2
	SK10-150	2-10	27	150	124	SK10	1.4
	SK16-90	3-16	40	90	64	SK16	1.2
	SK16-120	3-16	40	120	94	SK16	1.5
	SK16-150	3-16	40	150	124	SK16	1.7
	SK20-90	3-20	48	90	64	SK20	1.5
	SK20-120	3-20	48	120	94	SK20	1.7
	SK20-150	3-20	48	150	124	SK20	1.9

特點/Feature

- 1、預設動平衡，刀柄精度高，適合高速旋轉，跳動0.003mm，最高轉速G2.5 40000rpm。
 - 2、表面硬度HV220的滑動旋轉，不會損傷，無響聲。
 - 3、是面與面接觸，微米跳動切削力提高，刀具使用壽命延長。
 - 4、同心度高，穩定的震動精度，提高精加工表面精度。
- 1、Pre-balanced, high precision run-out 0.003mm, suitable for high rotating, maximum G2.5 40000 rpm.
 - 2、Surface hardness up to HV 220 by rotating, no damage and noise.
 - 3、Covering interface with precision vibration and high metal removal, increased tool life.
 - 4、High concentricity, stable run-out accuracy to enhance fine machining surface roughness.

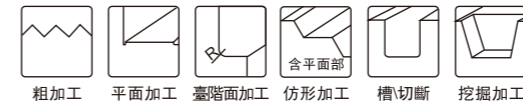
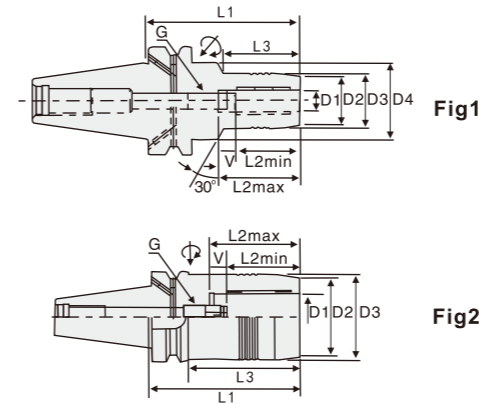


BT30-HS HYDRAULIC CHUCK
BT30-HS 液壓刀柄

型號	尺寸 Size										
	Specification	D1	D2	D3	D4	L1	L2max	L2min	V	L3	G
BT30 HS3-70	3	21	24	45	70	24	-	-	-	30	-
HS4-70	4	22	25	45	70	28	-	-	-	30	-
HS5-70	5	23	26	45	70	32	-	-	-	30	-
HS6-70	6	25	28	45	70	37.5	27.5	10	28	M5X0.8	
HS8-70	8	27	30	45	70	37.5	27.5	10	28	M6X1.0	
HS10-75	10	29	32	45	75	42.5	32.5	10	38	M6X1.0	
HS12-75	12	31	34	45	75	47.5	37.5	10	36	M6X1.0	
HS14-85	14	33	36	45	85	47.5	37.5	10	44	M6X1.0	
HS16-90	16	35	38	45	90	52.5	42.5	10	48	M8X1.0	
HS18-90	18	38	41	45	90	52.5	42.5	10	48	M8X1.0	
HS20-90	20	40	43	-	90	52.5	42.5	10	-	M8X1.0	

特點/Feature

1. 夾持力強，精度高，適合高速加工
 2. 使用T型扳手，裝卸簡單，便于操作和維護
 3. 柄徑為 $\phi 6-\phi 32$ 的切削刀具要求柄部公差為h6
 4. 預設動平衡G2.5 25000RPM
- 1.High clamping force for high speed machining, run-out accuracy <0.003mm
2.Clamping by T-Wrench, easy to handle, less maintenance
3.Cutting tool shank tolerance should be within h6
4.Pre-balanced to G2.5 25000RPM

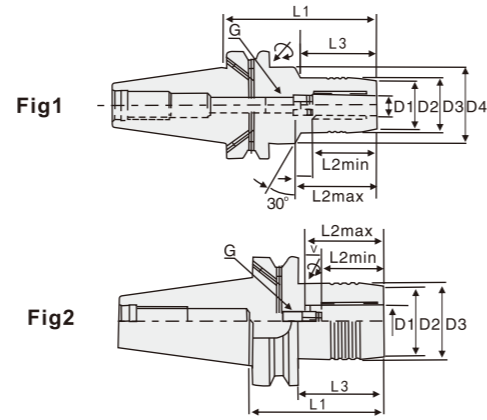


BT40-HS HYDRAULIC CHUCK
BT40-HS 液壓刀柄

型號	尺寸 Size											
	Specification	D1	D2	D3	D4	L1	L2max	L2min	V	L3	G	Type
BT40 HS6-65	6	25	28	50	65	37.5	27.5	10	23	M5X0.8	Fig1	
HS6-90	6	25	28	50	90	37.5	27.5	10	44	M5X0.8	Fig1	
HS6-140	6	25	28	50	140	37.5	27.5	10	44	M5X0.8	Fig1	
HS8-65	8	27	30	50	65	37.5	27.5	10	23	M6X1.0	Fig1	
HS8-90	8	27	30	50	90	37.5	27.5	10	39	M6X1.0	Fig1	
HS8-140	8	27	30	50	140	37.5	27.5	10	44	M6X1.0	Fig1	
HS10-65	10	29	32	50	65	42.5	32.5	10	23	M6X1.0	Fig1	
HS10-90	10	29	32	50	90	42.5	32.5	10	44	M6X1.0	Fig1	
HS10-140	10	29	32	50	140	42.5	32.5	10	44	M6X1.0	Fig1	
HS12-65	12	31	34	50	65	47.5	37.5	10	23	M6X1.0	Fig1	
HS12-90	12	31	34	50	90	47.5	37.5	10	44	M6X1.0	Fig1	
HS12-140	12	31	34	50	140	47.5	37.5	10	44	M6X1.0	Fig1	
HS14-65	14	33	36	50	65	47.5	37.5	10	23	M6X1.0	Fig1	
HS14-90	14	33	36	50	90	47.5	37.5	10	44	M6X1.0	Fig1	
HS14-140	14	33	36	50	140	47.5	37.5	10	44	M6X1.0	Fig1	
HS16-65	16	35	38	50	65	52.5	42.5	10	23	M8X1.0	Fig1	
HS16-90	16	35	38	50	90	52.5	42.5	10	48	M8X1.0	Fig1	
HS16-140	16	35	38	50	140	52.5	42.5	10	48	M8X1.0	Fig1	
HS18-75	18	38	41	50	75	52.5	42.5	10	30	M8X1.0	Fig1	
HS18-90	18	38	41	50	90	52.5	42.5	10	48	M8X1.0	Fig1	
HS18-140	18	38	41	50	140	52.5	42.5	10	48	M8X1.0	Fig1	
HS20-75	20	40	43	50	75	52.5	42.5	10	30	M8X1.0	Fig1	
HS20-90	20	40	43	50	90	52.5	42.5	10	47	M8X1.0	Fig1	
HS20-140	20	40	43	50	140	52.5	42.5	10	48	M8X1.0	Fig1	
HS25-100	25	53	57	50	100	61	51	10	73	M16X1.0	Fig2	
HS25-135	25	53	57	50	135	61	51	10	108	M16X1.0	Fig2	
HS32-105	32	58	63	50	105	65	55	10	-	M16X1.0	Fig2	
HS32-135	32	58	63	-	135	65	55	10	-	M16X1.0	Fig2	

特點/Feature

1. 夾持力強，精度高，適合高速加工。
 2. 使用T型扳手，裝卸簡單，便于操作和維護
 3. 柄徑為 $\phi 6-\phi 32$ 的切削刀具要求柄部公差為h6
 4. 預設動平衡G2.5 25000RPM
- 1.High clamping force for high speed machining, run-out accuracy <0.003mm
2.Clamping by T-Wrench, easy to handle, less maintenance
3.Cutting tool shank tolerance should be within h6
4.Pre-balanced to G2.5 25000RPM

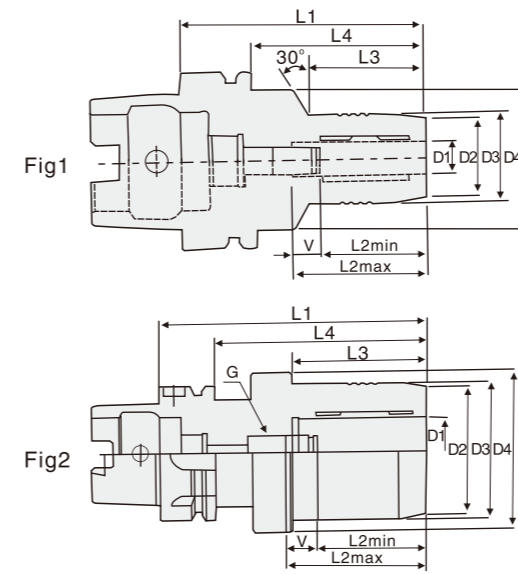


BT50-HS HYDRAULIC CHUCK
BT50-HS 液壓刀柄

型號 Specification	尺寸 Size										
	D1	D2	D3	D4	L1	L2max	L2min	V	L3	G	Type
HS6-90	6	25	28	50	90	37.5	27.5	10	32	M5X0.8	Fig1
HS6-120	6	25	28	50	120	37.5	27.5	10	44	M5X0.8	Fig1
HS6-140	6	25	28	50	140	37.5	27.5	10	44	M5X0.8	Fig1
HS8-90	8	27	30	50	90	37.5	27.5	10	32	M6X1.0	Fig1
HS8-120	8	27	30	50	120	37.5	27.5	10	40	M6X1.0	Fig1
HS8-140	8	27	30	50	140	37.5	27.5	10	44	M6X1.0	Fig1
HS10-90	10	29	32	50	90	42.5	32.5	10	32	M6X1.0	Fig1
HS10-120	10	29	32	50	120	42.5	32.5	10	44	M6X1.0	Fig1
HS10-140	10	29	32	50	140	42.5	32.5	10	44	M6X1.0	Fig1
HS12-90	12	31	34	50	90	47.5	37.5	10	32	M6X1.0	Fig1
HS12-120	12	31	34	50	120	47.5	37.5	10	44	M6X1.0	Fig1
HS12-140	12	31	34	50	140	47.5	37.5	10	44	M6X1.0	Fig1
HS14-90	14	33	36	50	90	47.5	37.5	10	32	M6X1.0	Fig1
HS14-120	14	33	36	50	120	47.5	37.5	10	44	M6X1.0	Fig1
HS14-140	14	33	36	50	140	47.5	37.5	10	44	M6X1.0	Fig1
HS16-90	16	35	38	50	90	52.5	42.5	10	32	M8X1.0	Fig1
HS16-120	16	35	38	50	120	52.5	42.5	10	48	M8X1.0	Fig1
HS16-140	16	35	38	50	140	52.5	42.5	10	48	M8X1.0	Fig1
HS18-90	18	38	41	50	90	52.5	42.5	10	32	M8X1.0	Fig1
HS18-120	18	38	41	50	120	52.5	42.5	10	48	M8X1.0	Fig1
HS18-140	18	38	41	50	140	52.5	42.5	10	48	M8X1.0	Fig1
HS20-90	20	40	43	50	90	52.5	42.5	10	32	M8X1.0	Fig1
HS20-120	20	40	43	50	120	52.5	42.5	10	48	M8X1.0	Fig1
HS20-140	20	40	43	50	140	52.5	42.5	10	48	M8X1.0	Fig1
HS25-105	25	53	57	-	105	61	51	10	67	M16X1.0	Fig2
HS25-150	25	53	57	-	150	61	51	10	112	M16X1.0	Fig2
HS32-115	32	58	63	-	115	65	55	10	77	M16X1.0	Fig2
HS32-150	32	58	63	-	150	65	55	10	112	M16X1.0	Fig2

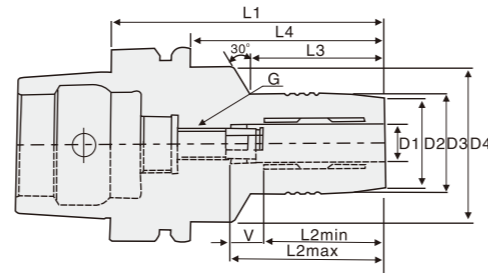
特點/Feature

1. 夾持力強，精度高，適合高速加工。
 2. 使用T型扳手，裝卸簡單，便于操作和維護
 3. 柄徑為 $\phi 6-\phi 32$ 的切削刀具要求柄部公差為h6。
 4. 預設動平衡G2.5 25000RPM
- 1.High clamping force for high speed machining, run-out accuracy <0.003mm
2.Clamping by T-Wrench, easy to handle, less maintenance
3.Cutting tool shank tolerance should be within h6
4.Pre-balanced to G2.5 25000RPM



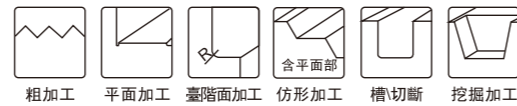
HSK40A/50A/63A/100A-HS HYDRAULIC CHUCK
HSK40A/50A/63A/100A-HS 液壓刀柄

型號 Specification	尺寸 Size											
	D1	D2	D3	D4	L1	L2max	L2min	V	L3	L4	G	Type
HSK 40A HS6-70	6	25	28	34	70	37.5	27.5	10	28	50	M5X0.8	Fig1
HSK 40A HS8-70	8	27	30	34	70	37.5	27.5	10	28	50	M5X0.8	Fig1
HSK 40A HS10-75	10	29	32	34	75	42.5	32.5	10	34	55	M5X0.8	Fig1
HSK 40A HS12-85	12	31	34	34	85	47.5	37.5	10	-	65	M6X1.0	Fig1
HSK 50A HS6-70	6	25	28	40	70	37.5	27.5	10	28	44	M5X0.8	Fig1
HSK 50A HS8-70	8	27	30	40	70	37.5	27.5	10	28	44	M6X1.0	Fig1
HSK 50A HS10-80	10	29	32	40	80	42.5	32.5	10	34	54	M6X1.0	Fig1
HSK 50A HS12-85	12	31	34	40	85	47.5	37.5	10	44	59	M6X1.0	Fig1
HSK 50A HS14-85	14	33	36	40	85	47.5	37.5	10	44	59	M6X1.0	Fig1
HSK 50A HS16-90	16	35	38	60	90	52.5	42.5	10	30	64	M6X1.0	Fig2
HSK 50A HS18-90	18	38	41	-	90	52.5	42.5	10	-	64	M6X1.0	Fig1
HSK 50A HS20-90	20	40	43	-	90	52.5	42.5	10	-	64	M6X1.0	Fig1
HSK 63A HS6-70	6	25	28	50	70	37.5	27.5	10	24	44	M5X0.8	Fig1
HSK 63A HS8-70	8	27	30	50	70	37.5	27.5	10	24	44	M6X1.0	Fig1
HSK 63A HS10-80	10	29	32	50	80	42.5	32.5	10	35	54	M6X1.0	Fig1
HSK 63A HS12-85	12	31	34	50	85	47.5	37.5	10	40	59	M6X1.0	Fig1
HSK 63A HS14-85	14	33	36	50	85	47.5	37.5	10	40	59	M6X1.0	Fig1
HSK 63A HS16-90	16	35	38	50	90	52.5	42.5	10	46	64	M8X1.0	Fig1
HSK 63A HS18-90	18	38	41	50	90	52.5	42.5	10	47	64	M8X1.0	Fig1
HSK 63A HS20-90	20	40	43	50	90	52.5	42.5	10	48	64	M8X1.0	Fig1
HSK 63A HS25-120	25	40	43	63	120	61	51	10	59	94	M16X1.0	Fig2
HSK 63A HS32-125	32	53	57	75	125	65	55	10	63	99	M16X1.0	Fig2
HSK 100A HS6-75	6	25	28	54	75	37.5	27.5	10	26	46	M5X0.8	Fig1
HSK 100A HS8-75	8	27	30	54	75	37.5	27.5	10	26	46	M6X1.0	Fig1
HSK 100A HS10-90	10	29	32	50	90	42.5	32.5	10	42	61	M6X1.0	Fig1
HSK 100A HS12-95	12	31	34	50	95	47.5	37.5	10	47	66	M6X1.0	Fig1
HSK 100A HS14-95	14	33	36	50	95	47.5	37.5	10	47	66	M6X1.0	Fig1
HSK 100A HS16-100	16	35	38	50	100	52.5	42.5	10	53	71	M8X1.0	Fig1
HSK 100A HS18-100	18	38	41	50	100	52.5	42.5	10	53	71	M8X1.0	Fig1
HSK 100A HS20-105	20	40	43	50	105	52.5	42.5	10	59	76	M8X1.0	Fig1
HSK 100A HS25-110	25	40	43	63	110	61	51	10	62	81	M8X1.0	Fig1
HSK 100A HS32-110	32	53	57	75	110	65	55	10	62	81	M8X1.0	Fig1



HSK40E/50E-HM HYDRAULIC CHUCK

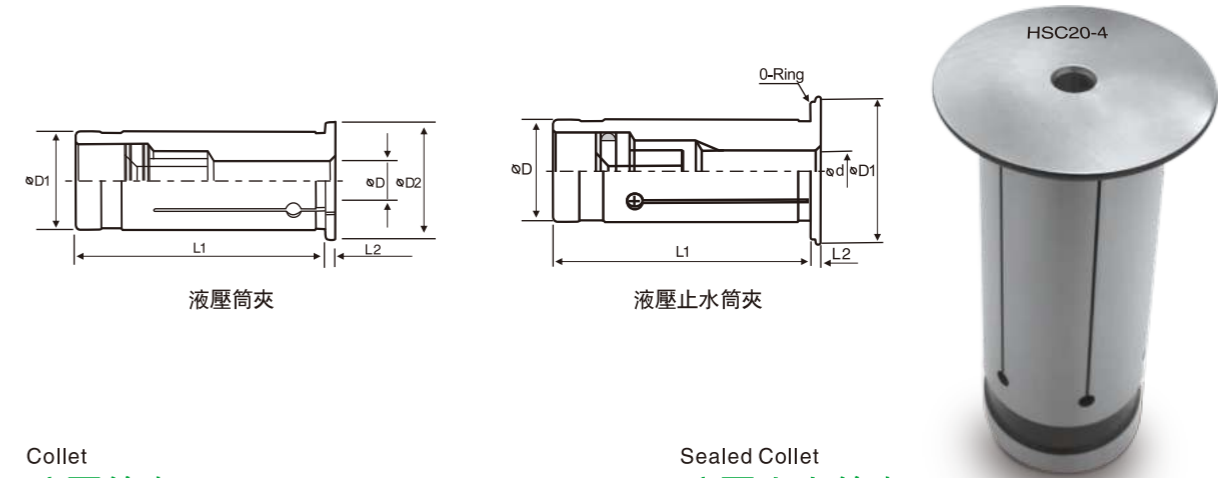
HSK40E/50E-HS 液壓刀柄



型號 Specification	尺寸 Size											
	D1	D2	D3	D4	L1	L2max	L2min	V	L3	L4	G	
HSK 40E	HS6-75	6	25	28	34	75	37.5	27.5	10	28	55	M5X0.8
	HS8-70	8	27	30	34	70	37.5	27.5	10	28	50	M5X0.8
	HS10-75	10	29	32	34	75	42.5	32.5	10	34	55	M5X0.8
	HS12-85	12	31	34	34	85	47.5	37.5	10	-	65	M5X0.8
HSK 50E	HS6-70	6	25	28	40	70	37.5	27.5	10	28	44	M5X0.8
	HS8-70	8	27	30	40	70	37.5	27.5	10	28	44	M6X1.0
	HS10-80	10	29	32	40	80	42.5	32.5	10	34	54	M6X1.0
	HS12-85	12	31	34	40	85	47.5	37.5	10	44	59	M6X1.0
	HS16-90	16	35	38	60	90	52.5	42.5	10	30	64	M6X1.0
HS20-90	20	40	43	-	90	52.5	42.5	10	-	64	M6X1.0	

特點/Feature

1. 夾持力強，精度高，適合高速加工
 2. 使用T型扳手，裝卸簡單，便于操作和維護
 3. 柄徑為 $\phi 6-\phi 32$ 的切削刀具要求柄部公差為h6
 4. 預設動平衡G2.5 25000RPM
- 1.High clamping force for high speed machining, run-out accuracy <0.003mm
 2.Clamping by T-Wrench, easy to handle, less maintenance
 3.Cutting tool shank tolerance should be within h6
 4.Pre-balanced to G2.5 25000RPM

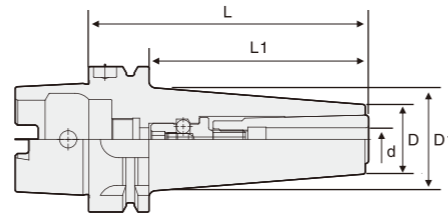


Collet
液壓筒夾

Sealed Collet
液壓止水筒夾

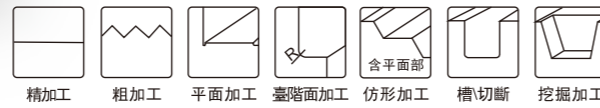
型號 Specification	尺寸 Size					
	d	D1	D2	L1	L2	
HSC12	3	3	12	16	44.5	2
	4	4	12	16	44.5	2
	5	5	12	16	44.5	2
	6	6	12	16	44.5	2
	8	8	20	16	44.5	2
HSC20	3	3	20	24	50.5	2
	4	4	20	24	50.5	2
	5	5	20	24	50.5	2
	6	6	20	24	50.5	2
	8	8	20	24	50.5	2
	10	10	20	24	50.5	2
	12	12	20	24	50.5	2
	14	14	20	24	50.5	2
HSC32	6	6	32	36	60.5	3
	8	8	32	36	60.5	3
	10	10	32	36	60.5	3
	12	12	32	36	60.5	3
	14	14	32	36	60.5	3
	16	16	32	36	60.5	3
	18	18	32	36	60.5	3
	20	20	32	36	60.5	3

型號 Specification	尺寸 Size					
	d	D1	D2	L1	L2	
HSC12	3	3	12	21	45	2
	4	4	12	21	45	2
	5	5	12	21	45	2
	6	6	12	21	45	2
	8	8	12	21	45	2
HSC20	3	3	20	29	50.5	2
	4	4	20	29	50.5	2
	5	5	20	29	50.5	2
	6	6	20	29	50.5	2
	8	8	20	29	50.5	2
	10	10	20	29	50.5	2
	12	12	20	29	50.5	2
	14	14	20	29	50.5	2
HSC32	6	6	32	39	60.5	3
	8	8	32	39	60.5	3
	10	10	32	39	60.5	3
	12	12	32	39	60.5	3
	14	14	32	39	60.5	3
	16	16	32	39	60.5	3
	18	18	32	39	60.5	3
	20	20	32	39	60.5	3



HSK-SDC HIGH PRECISION TOOL HOLDER

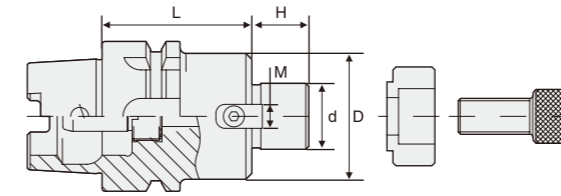
HSK-SDC 後拉式刀柄



型號 Specification	d	D	尺寸 Size			重量 Weight(KG)
			D1	L	L1	
HSK 50A	3.0-6.0	14.5	20.9	100	74	0.8
			26.2	150	124	1.0
	3.0-10.0	22	29.2	100	74	1.0
			34.4	150	124	1.2
	3.0-12.0	34	34	100	74	1.0
			34	150	124	1.2
HSK 63A	3.0-6.0	14.5	20.9	100	74	0.9
			26.2	150	124	1.2
	3.0-10.0	22	29.2	100	74	1.0
			34.4	150	124	1.3
	3.0-12.0	34	34	100	74	1.2
			34	150	124	1.6

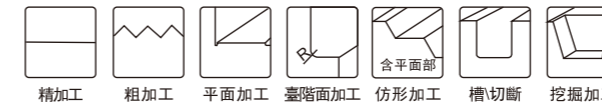
特點/Feature

- 1、預設動平衡，刀柄精度高，跳動0.003mm，最高轉速G2.5 30000rpm適合高精密加工。
 - 2、無螺帽設計，減少加工干涉。
 - 3、后拉筒夾特殊角度設計，夾持力強，重複裝夾精度高。
 - 4、安裝和拆卸刀具方便，使用六角扳手即可。
- 1、Pre-balanced, high precision run-out 0.003mm, maximum G2.5 30000 rpm, suitable for high precision machining.
 - 2、Without clamping nut, less processing interference.
 - 3、Back locking collet design ensures high clamping force and precision repetition.
 - 4、Assembling and disassembling process is simple and easy by hexagonal wrench.



HSK-FMB FACE MILLING ARBOR

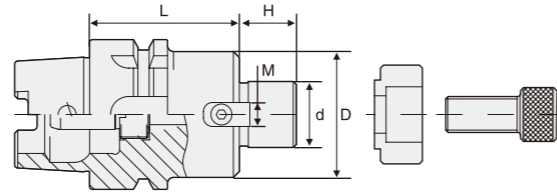
HSK-FMB 面銑刀柄



型號 Specification	d	D	尺寸 Size		鎖緊螺絲(M) Clamping screw	重量 Weight(KG)		
			L	H				
HSK50A	22	48	60	18	M10x1.5	1.0		
			100			1.2		
	27	60	60	20	M12x1.75	1.0		
			100			1.2		
HSK63A	22	48	50	18	M10x1.5	1.2		
			100			1.7		
			150			2.1		
			200			2.6		
			250			3.1		
	27	60	60	20	M12x1.75	1.6		
			100			2.2		
			160			2.9		
			60			22	M16x2.0	1.8
			100					2.6
150	3.4							
200	4.2							
60	25	M16x2.0	2.2					
100			3.2					
150			4.2					

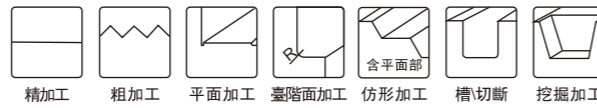
特點/Feature

- 1、刀柄精度高。
 - 2、穩定的震動精度，提高精加工表面精度。
- 1、High precision.
 - 2、Stable run-out accuracy to enhance fine machining surface roughness.



HSK-FMB FACE MILLING ARBOR

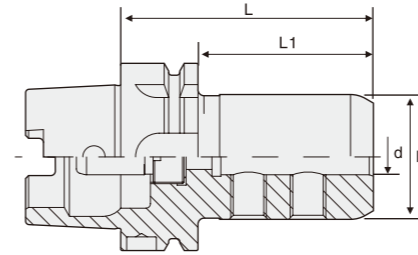
HSK-FMB 面銑刀柄



型號 Specification	尺寸 Size				鎖緊螺絲(M) Clamping screw	重量 Weight(KG)
	d	D	L	H		
HSK100A FMB22-100	22	48/58	100	18	M10x1.5	3.8
FMB22-150			150			4.6
FMB22-200			200			5.4
FMB22-250			250			6.2
FMB22-300			300			7.0
FMB22-350			350			7.8
FMB22-400			400			8.4
FMB27-100	27	60	100	20	M12x1.75	5.1
FMB27-150			150			6.0
FMB27-200			200			6.9
FMB27-250			250			7.8
FMB27-300			300			8.7
FMB32-100	32	78	100	22	M16x2.0	5.2
FMB32-150			150			7.0
FMB32-200			200			9.8
FMB40-100	32	78	100	22	M16x2.0	5.8
FMB40-150			150			8.2
FMB40-200			200			10.4

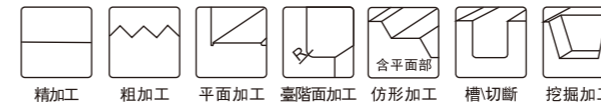
特點/Feature

- 1、刀柄精度高。
- 2、穩定的震動精度，提高精加工表面精度。
- 1、High precision .
- 2、Stable run-out accuracy to enhance fine machining surface roughness.



HSK-SLA WELDON TOOL HOLDER

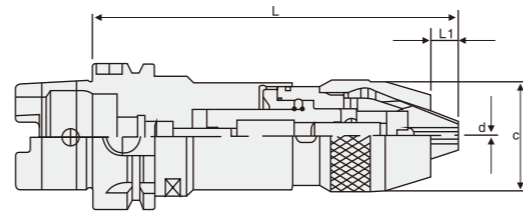
HSK-SLA 側固式刀柄



型號 Specification	尺寸 Size				鎖緊螺絲(M) Clamping screw	重量 Weight(KG)
	d	D	L	L1		
HSK63A SLA16-100	16	48	100	74	M14x2	1.9
SLA16-150			150	124		2.4
SLA20-100	20	52	100	74	M16x2.0	2.0
SLA20-150			150	124		2.5
SLA25-100	25	65	100	74	M18x2.0	2.3
SLA25-150			150	124		2.9
SLA32-100	32	72	100	74	M20x2.0	2.6
SLA32-150			150	124		3.4
SLA40-100	40	90	100	74	M20x2.0	3.0
SLA40-150			150	124		3.9

特點/Feature

- 1、刀柄精度高。
- 2、穩定的震動精度，提高精加工表面精度。
- 1、High precision .
- 2、Stable run-out accuracy to enhance fine machining surface roughness.



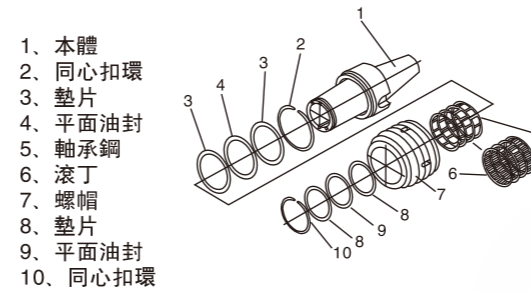
HSK-APU DRILL CHUCK HOLDER

HSK-APU 鑽夾頭刀柄

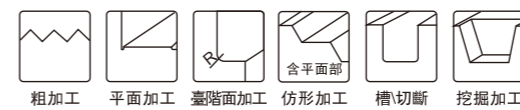
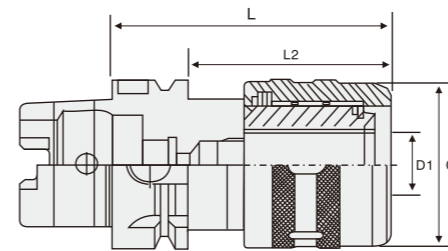
	型號	尺寸 Size			夾持範圍
	Specification	D	L	max	Clamping range
HSK 50A	-APU8-118	36.5	118	125	0.3~8
	-APU13-135	48	135	147	1.0~13
HSK63A	-APU8-118	36.5	120	127	0.3~8
	-APU13-135	48	135	147	1.0~13
HSK 100A	-APU8-130	36.5	130	137	0.3~8
	-APU13-145	48	145	157	1.0~13

特點/Feature

1. 連接柄和夾頭整體的設計，防止兩個刀體意外分離，加工穩定可靠。
2. 夾頭自緊，加緊鑽頭後隨鑽孔扭矩的增加同步增強夾持力，防止鑽頭打滑。
3. 夾持力強，高精度，持久耐用。4. 適用各類鑽床，銑床和車床。
1. Integrated design of holder and chuck prevents separation of the tool components, ensure reliable and stable machining.
2. Self tightening, gripping force is enhanced when the drilling torque increase, which can avoid slipping of the drills.
3. Super drill chuck with high precision and durability.
4. Wide application in drilling machine, milling machines and lathe.



1. 本體
2. 同心扣環
3. 墊片
4. 平面油封
5. 軸承鋼
6. 滾丁
7. 螺帽
8. 墊片
9. 平面油封
10. 同心扣環



POWER CHUCK TOOL HOLDER

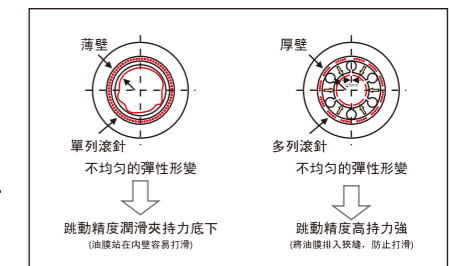
HSK(A)-C 強力型刀柄

	型號	尺寸 Size				筒夾
	Specification	D1	C	L1	L	Collet
HSK 40A	-C20-110	20	53	66.5	55	C20
HSK 50A	-C20-110	20	53	66.5	60	C20
	-C25-110	25	74	74.5	44	C25
HSK 63A	-C20-110	20	53	66.5	49	C20
	-C25-110	25	60	85	59	C25
	-C32-105	32	74	90	64	C32
	-C32-130	32	74	70	44	C32
HSK 100A	-C20-110	20	53	75	49	C20
	-C25-110	25	60	85	59	C25
	-C32-130	32	74	90	64	C32

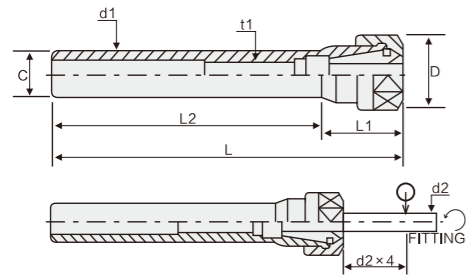
特點/Feature

1. 刀柄內孔分割6槽以防止滑動，加大夾持力。
2. 採用雨綫裝置，當刀具滑動至針錐面時滾動摩擦避免脫落。
3. 夾持部加厚設計，提高剛性，防止震動。
4. 夾持力強，跳動精度高。
1. 6 slots design inside the holder to avoid slipping, enhancing clamping force.
2. Frictional gripping force increased by the clamping design, when the cutting tools slip to the cone face.
3. Reinforced thickness of the chuck holder improve the rigidity and anti-vibrations.
4. High clamping force and run-out accuracy.

支持高精度的加厚設計及獨特的夾縫結構



夾頭的加厚設計，可以增加剛性，以承受立銑刀的重切削。而採用獨特的夾縫結構可以使夾持部分均與變形，以獲得強大的夾持力及穩定的跳動精度。



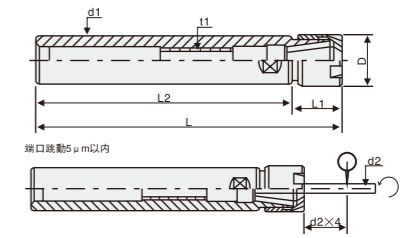
ER EXTENSION HOLDER

ER 延長杆

型號 Specification	夾持範圍 Clamping range	D	尺寸 Size			螺帽 Nut	筒夾 Collet	扳手 Spanner	
			C	L1	L				
C12	-ER11-50	2.0~7	19	12	24.0	50	ER11A	ER11	0.55
	-ER11-100			12	24.0	100			
C16	-ER11-50	2.0~7	19	16	16.6	50	ER11A	ER11	0.55
	-ER11-100			16	16.6	100			
	-ER11-150			16	16.6	150			
C16	-ER16-100	3.0~10	28	16	35.0	100	ER16A	ER16	1.85
	-ER16-150			16	35.0	150			
	-ER16-200			16	35.0	200			
C20	-ER20-100	3.0~13	34	16	40.0	100	ER20A	ER20	1.2
	-ER20-150			16	40.0	150			
C20	-ER11-100	2.0~7	19	20	16.6	100	ER11A	ER11	1.6
	-ER11-150				16.6	150			
	-ER11-200				16.6	200			
C20	-ER16-100	3.0~10	28	20	35.0	100	ER16A	ER16	1.65
	-ER16-150				35.0	150			
	-ER16-200				35.0	200			
C20	-ER20-100	3.0~13	34	20	40.0	100	ER20A	ER20	3.15
	-ER20-150				40.0	150			
	-ER20-200				40.0	200			
C25	-ER25-100	3.0~16	42	20	47.0	100	ER25UM	ER25	3.9
	-ER25-150				47.0	150			
	-ER25-200				47.0	200			
C25	-ER16-100	3.0~10	28	25	35.0	100	ER16A	ER16	3.9
	-ER16-150				35.0	150			
	-ER16-200				40.0	200			
C25	-ER20-100	3.0~13	34	25	40.0	100	ER20A	ER20	1.65
	-ER20-150				40.0	150			
	-ER20-200				40.0	200			
C25	-ER25-100	3.0~16	42	25	47.0	100	ER25UM	ER25	3.15
	-ER25-150				47.0	150			
	-ER25-200				47.0	200			
C32	-ER32-100	3.0~20	50	25	50.0	100	ER32UM	ER32	1.65
	-ER32-150				50.0	150			
	-ER32-200				50.0	200			
C32	-ER20-150	3.0~13	34	32	40.0	150	ER20A	ER20	3.15
	-ER20-200				40.0	200			
C32	-ER25-150	3.0~16	42	32	47.0	150	ER25UM	ER25	4.0
	-ER25-200				47.0	200			
C32	-ER32-150	3.0~20	50	32	50.0	150	ER32UM	ER32	2.95
	-ER32-200				50.0	200			

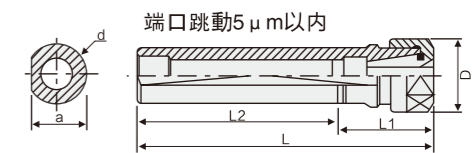
特點/Feature

- 1、本體精度高。2、同心度高，穩定的震動精度，提高精加工表面精度。3、表面光潔舒適，耐磨。
- 1、Tool body is high precision.
- 2、High concentricity, stable run-out accuracy to enhance fine machining surface roughness.
- 3、Finish surface with long durability.



ER EXTENSION HOLDER
ER 延長杆 (M/UM型)

型號 Specification	尺寸 Size			D	d1	夾持範圍 Clamping range
	L	L2	L1			
C10	-ER8-100M	115.5	100	12	10	0.5~5.0
	-ER8-150M	165.5	150			
C12	-ER11-100M	124	100	16	12	1.0~7.0
	-ER11-150	174	150			
C16	-ER16-100M	135	100	22	16	1.0~10.0
	-ER16-150M	185	150			
	-ER16-200M	235	200			
C20	-ER16-100M	135	100	28	20	1.0~13.0
	-ER16-150M	185	150			
	-ER16-200M	235	200			
C20	-ER20-100M	140	100	40	20	1.0~13.0
	-ER20-150M	190	150			
	-ER20-200M	240	200			
C25	-ER25-100UM	145	100	42	25	2.0~16.0
	-ER25-150UM	295	150			
C32	-ER25-100UM	145	100	50	32	3.0~20.0
	-ER25-150UM	195	150			
C32	-ER32-100UM	150	100	50	32	3.0~20.0
	-ER32-150UM	200	150			
	-ER32-200UM	250	200			

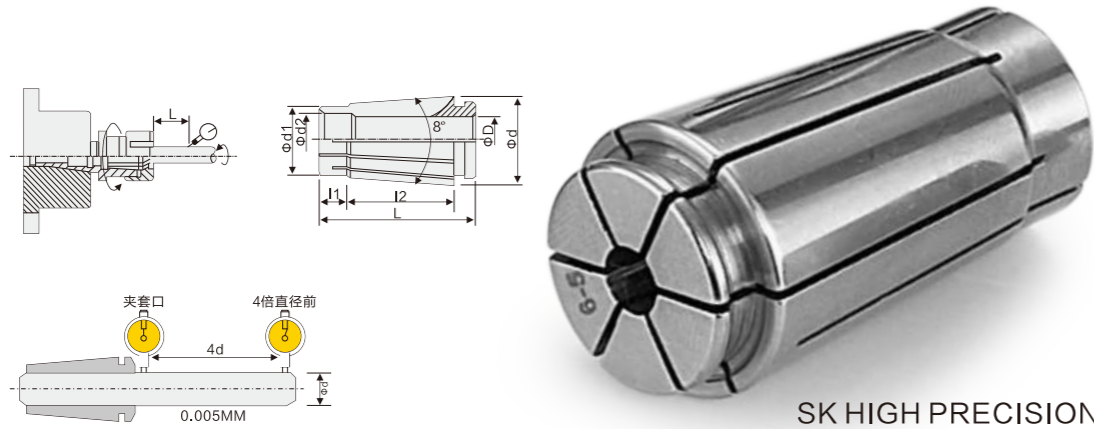


ER EXTENSION HOLDER
ER 延長杆 (A型·車床用)

型號 Specification	尺寸 Size			D	d
	L	L2	L1		
B	-ER16-70A/100A	100/130	70/130	28	20
	-ER20-70A/100A	100/130	70/130		
B	-ER20-70A/100A	100/130	70/130	34	25
	-ER20-70A/100A	100/130	70/130		
B	-ER11-70A/100A	100/130	70/130	19	20
	-ER11-70A/100A	100/130	70/130		
B	-ER16-70M/100M	100/130	70/130	22	20
	-ER20-70M/100M	100/130	70/130		
B	-ER20-70M/100M	100/130	70/130	28	20
	-ER20-70M/100M	100/130	70/130		

特點/Feature

- 1、本體精度高。2、同心度高，穩定的震動精度，提高精加工表面精度。3、表面光潔舒適，耐磨。
- 1、Tool body is high precision.
- 2、High concentricity, stable run-out accuracy to enhance fine machining surface roughness.
- 3、Finish surface with long durability.



SK HIGH PRECISION COLLET
SK 筒夾

型號 Specification	夾持範圍 Clamping range
SK6	-1 0.9~1.0
	-2 1.8~2.0
	-3 2.8~3.0
	-4 3.5~4.0
	-5 4.5~5.0
	-6 5.5~6.0
SK10	-2 1.75~2.0
	-2.5 2.25~2.5
	-3 2.75~3.0
	-3.5 3.0~3.5
	-4 3.5~4.0
	-4.5 4.0~4.5
	-5 4.5~5.0
	-5.5 5.0~5.5
	-6 5.5~6.0
	-6.5 6.0~6.5
	-7 6.5~7.0
	-7.5 7.0~7.5
	-8 7.5~8.0
	-8.5 8.0~8.5
	-9 8.5~9.0
	-9.5 9.0~9.5
	-10 9.5~10.0
SK13	-2 1.75~2.0
	-2.5 2.25~2.5
	-3 2.75~3.0
	-3.5 3.0~3.5
	-4 3.5~4.0
	-4.5 4.0~4.5
	-5 4.5~5.0
	-5.5 5.0~5.5
	-6 5.5~6.0
	-6.5 6.0~6.5
	-7 6.5~7.0
	-7.5 7.0~7.5
	-8 7.5~8.0
	-8.5 8.0~8.5
	-9 8.5~9.0
	-9.5 9.0~9.5
	-10 9.5~10.0

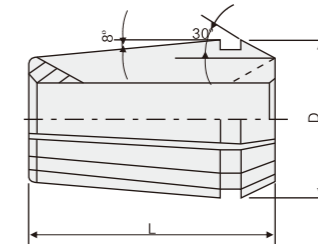
型號 Specification	夾持範圍 Clamping range
SK16	-3 2.75~3.0
	-3.5 3.0~3.5
	-4 3.5~4.0
	-4.5 4.0~4.5
	-5 4.5~5.0
	-5.5 5.0~5.5
	-6 5.5~6.0
	-6.5 6.0~6.5
	-7 6.5~7.0
	-7.5 7.0~7.5
	-8 7.5~8.0
	-8.5 8.0~8.5
	-9 8.5~9.0
	-9.5 9.0~9.5
	-10 9.5~10.0
	-10.5 10.0~10.5
	-11 10.5~11.0
	-11.5 11.0~11.5
	-12 11.5~12.0
	-12.5 12.0~12.5
	-13 12.5~13.0
	-13.5 13.0~13.5
	-14 13.5~14.0
	-14.5 14.0~14.5
	-15 14.5~15.0
	-15.5 15.0~15.5
	-16 15.5~16.0

型號 Specification	夾持範圍 Clamping range
SK20	-3 2.5~3.0
	-4 3.5~4.0
	-5 4.5~5.0
	-6 5.5~6.0
	-7 6.5~7.0
	-8 7.5~8.0
	-9 8.5~9.0
	-10 9.5~10.0
	-11 10.5~11.0
	-12 11.5~12.0
	-13 12.5~13.0
	-14 13.5~14.0
	-15 14.5~15.0
	-16 15.5~16.0
	-18 17.5~18.0
	-19 18.5~19.0
	-20 19.5~20.0

型號 Specification	d	d1	L	L1	L2
SK6	10.4	7.5	25	3.8	17.4
SK10	15.5	12	30.5	5.0	21.3
SK16	24.6	18.8	45	8.0	32
SK20	29	22.5	54	8.0	46

特點/Feature

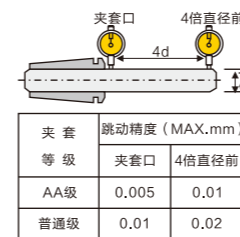
- 高精度，夾持力強。
- 穩定的震動精度，提高精加工表面精度。
- 表面光潔舒適，耐磨。



型號 Specification	D	L	RANGE
ER8	8.5	13.5	0.5
ER11	11.5	18	0.5
ER16	17	27.5	1.0
ER20	21	31.5	1.0
ER25	26	34	1.0
ER32	33	40	1.0
ER40	41	46	1.0

ER HIGH PRECISION COLLET

ER 彈性筒夾



夾套 等級	跳动精度 (MAX.mm)	
	夾套口	4倍直径前
AA级	0.005	0.01
普通级	0.01	0.02

型號 Specification	夾持範圍 Clamping range
ER8	0.5 0.5
	1.0 0.5~1.0
	1.5 1.0~1.5
	2.0 1.5~2.0
	2.5 2.0~2.5
	3.0 2.5~3.0
	3.5 3.0~3.5
	4.0 3.5~4.0
	4.5 4.0~4.5
	5.0 4.5~5.0

型號 Specification	夾持範圍 Clamping range
ER11	1.0 0.5~1.0
	2.0 1.0~2.0
	3.0 2.0~3.0
	4.0 3.0~4.0
	5.0 4.0~5.0
	6.0 5.0~6.0
	7.0 6.0~7.0

型號 Specification	夾持範圍 Clamping range
ER16	1.0 0.5~1.0
	2.0 1.0~2.0
	3.0 2.0~3.0
	4.0 3.0~4.0
	5.0 4.0~5.0
	6.0 5.0~6.0
	7.0 6.0~7.0
	8.0 7.0~8.0
	9.0 8.0~9.0
	10.0 9.0~10.0

型號 Specification	夾持範圍 Clamping range
ER20	1.0 0.5~1.0
	2.0 1.0~2.0
	3.0 2.0~3.0
	4.0 3.0~4.0
	5.0 4.0~5.0
	6.0 5.0~6.0
	7.0 6.0~7.0
	8.0 7.0~8.0
	9.0 8.0~9.0
	10.0 9.0~10.0
	11.0 10.0~11.0
	12.0 11.0~12.0
	13.0 12.0~13.0

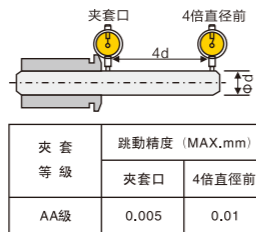
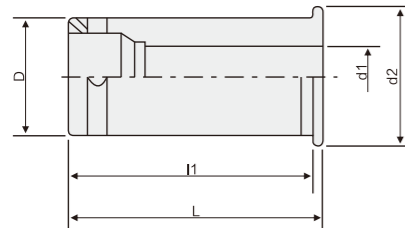
型號 Specification	夾持範圍 Clamping range
ER25	2.0 1.0~2.0
	3.0 2.0~3.0
	4.0 3.0~4.0
	5.0 4.0~5.0
	6.0 5.0~6.0
	7.0 6.0~7.0
	8.0 7.0~8.0
	9.0 8.0~9.0
	10.0 9.0~10.0
	11.0 10.0~11.0
	12.0 11.0~12.0
	13.0 12.0~13.0
	14.0 13.0~14.0
	15.0 14.0~15.0
	16.0 15.0~16.0

型號 Specification	夾持範圍 Clamping range
ER32	2.0 1.0~2.0
	3.0 2.0~3.0
	4.0 3.0~4.0
	5.0 4.0~5.0
	6.0 5.0~6.0
	7.0 6.0~7.0
	8.0 7.0~8.0
	9.0 8.0~9.0
	10.0 9.0~10.0
	11.0 10.0~11.0
	12.0 11.0~12.0
	13.0 12.0~13.0
	14.0 13.0~14.0
	15.0 14.0~15.0
	16.0 15.0~16.0
	17.0 16.0~17.0
	18.0 17.0~18.0
	19.0 18.0~19.0
	20.0 19.0~20.0

型號 Specification	夾持範圍 Clamping range
ER40	2.0 1.0~2.0
	3.0 2.0~3.0
	4.0 3.0~4.0
	5.0 4.0~5.0
	6.0 5.0~6.0
	7.0 6.0~7.0
	8.0 7.0~8.0
	9.0 8.0~9.0
	10.0 9.0~10.0
	11.0 10.0~11.0
	12.0 11.0~12.0
	13.0 12.0~13.0
	14.0 13.0~14.0
	15.0 14.0~15.0
	16.0 15.0~16.0
	17.0 16.0~17.0
	18.0 17.0~18.0
	19.0 18.0~19.0
	20.0 19.0~20.0
	21.0 20.0~21.0
	22.0 21.0~22.0
	23.0 22.0~23.0
	24.0 23.0~24.0
	25.0 24.0~25.0
	26.0 25.0~26.0

特點/Feature

- 高精度，夾持力強。
- 穩定的震動精度，提高精加工表面精度。
- 表面光潔舒適，耐磨。

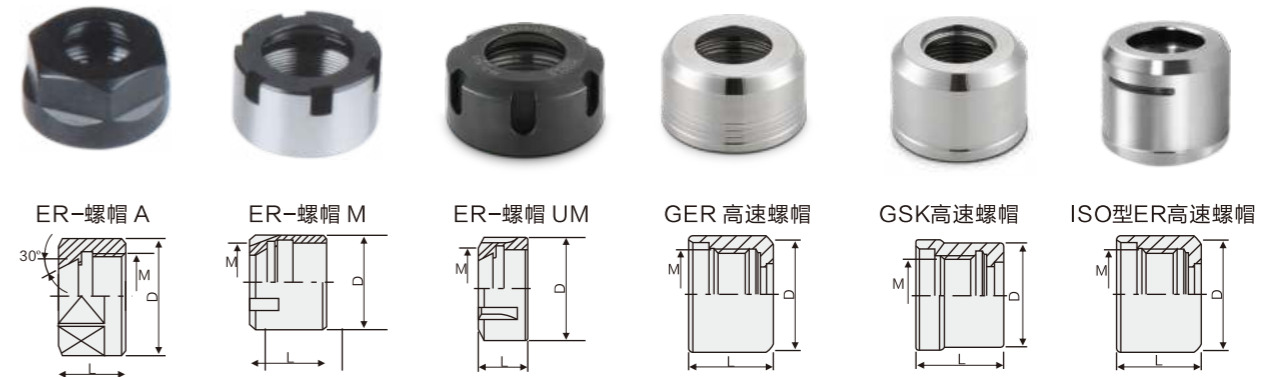


C POWER CHUCK COLLET
強力筒夾

型號 Specification	尺寸 Size			
	D	d2	L	L1
C20	3,4,5,6,8,10,12,16	20	25	52.5
C25	6,8,10,12,16,20	25	30	59
C32	6,8,10,12,16,20,25,15,19,24	32	37.5	65
	1/4,5/16,3/8,1/2,3/4,5/8,1"	32	37.5	65
C42	6,8,10,12,16,20,25,32,15,19,24	42	47	80
	1/4,5/16,3/8,1/2,5/8,3/4,1"	42	47	80

特點/Feature

- 1、高精度，夾持力強。
- 2、穩定的震動精度，提高精加工表面精度。
- 3、表面光潔舒適，耐磨。
- 1、 High precision with powerful clamping force.
- 2、 Stable run-out accuracy to enhance fine machining surface roughness.
- 3、 Finish surface with long durability.



HIGH PRECISION CLAMPING NUT

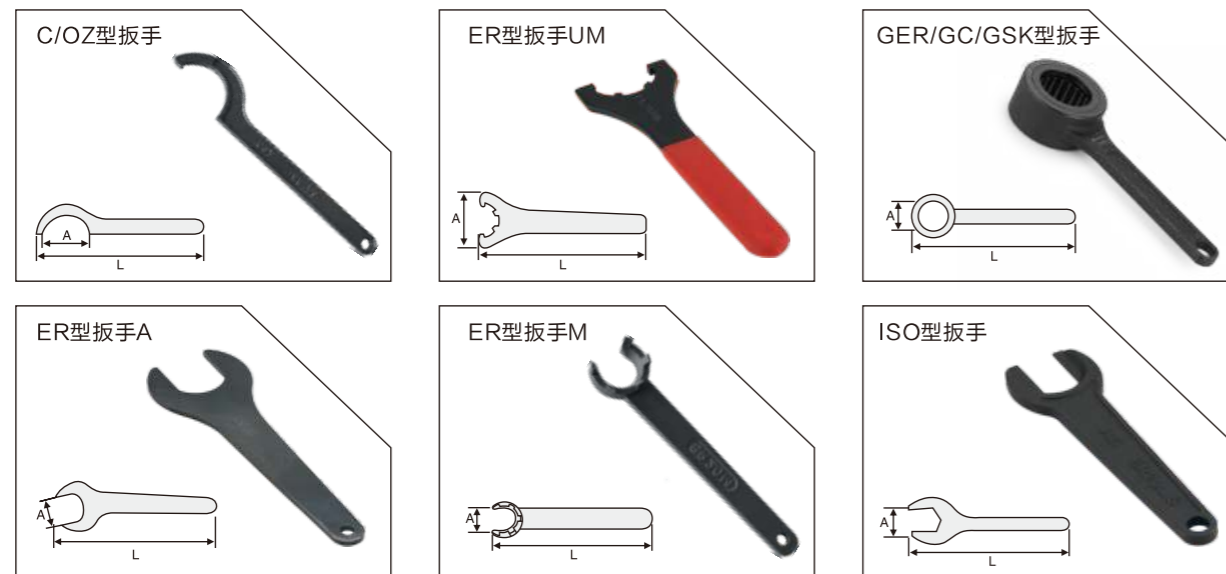
精密螺帽

型號 Specification	尺寸 Size			鎖緊扳手	
	D	L	M		
ER-A	ER11A	19	11.5	M14X0.75	ER11A
	ER16A	28	17	M22X1.5	ER16A
	ER20A	34	19.0	M25X1.5	ER20A
ER-M	ER8M	12	10.8	M10X0.75	ER8M
	ER11M	16	12.0	M13X0.75	ER11M
	HER16M	22	18	M19X1.0	ER16M
ER-UM	ER20M	28	19.0	M24X1.0	ER20M
	ER25M	35	20.0	M32X1.0	ER25M
	HER25UM	42	20.0	M32X1.5	ER25U M
	HER32UM	50	23	M40X1.5	ER32UM
	ER40UM	63	26	M50X1.5	ER40UM
GER	GER16	27	24.7	TM22X1.5	GER16
	GER20	35	25.5	TM26X1.5	GER20
	GER25	40	25.9	TM32X1.5	GER25
	GER32	48	26.6	TM40X1.5	GER32
ISO-ER	ER11MS	16	11.3	M13X0.75	ER11MS
	ER16MS	22	17	M19X1.0	ER16MS
	ER20MS	28	19	M24X1.0	ER20MS
	ER25MS	35	23	M30X1.0	ER25MS

特點/Feature

- 1、熱處理有效提高精度及其夾持穩定性。
- 2、表面光潔度舒適，耐磨。
- 3、可以預設動平衡處理，提高精度。
- 1、 Thermal treatment process improve the clamping precision and stability.
- 2、 Finish surface with long durability.
- 3、 Pre-balanced is G2.5 25000rpm for enhanced run-out accuracy.

FITTING 配件



扳手 SPANNER

	型號 Specification	尺寸 Size		重量 (KGS)
		A	L	
C	C20	50-55	245	0.17
	C25	56-61	270	0.2
	C32	68-73	290	0.3
OZ	C42	88-96	340	0.42
	OZ25	55-60	250	0.24
	型號 Specification	尺寸 Size		重量 (KGS)
		A	L	
A	ER11A	17.2	120	0.10
	ER16A	25.2	140	0.15
	ER20A	30.3	160	0.19
M	ER8M	12	75	0.05
	ER11M	16	95	0.04
	ER16M	22	117	0.06
	ER20M	28	129	0.07
UM	ER25M	35	142	0.09
	ER25UM	42	210	0.15
	ER32UM	50	250	0.28
	ER40UM	64	290	0.42
	型號 Specification	尺寸 Size		重量 (KGS)
		A	L	
GER	GER16,GER16MINI	30,27	150	0.24
	GER20,GER20MINI	35,30	160	0.30
	GER25,GER25MINI	40,35	180	0.35
GSK	GER32	48	180	0.70
	GSK6	19.5	110	0.11
	GSK10	27	150	0.29
	GSK16	40	170	0.39
	GSK20	48	210	0.38
	型號 Specification	尺寸 Size		重量 (KGS)
		A	L	
ISO	ISO20	18.2	175	0.11
	ISO25	27	175	0.12
	ISO30	40	220	0.15

特點/Feature

1. 熱處理有效提高精度及其夾持穩定性。2. 表面光潔度舒適，耐磨。
1. Thermal treatment process improve the clamping precision and stability.
2. Finish surface with long durability.



產品名稱 product name	編號 Item	規格 Spec	高度 Height
光電式Z軸設定器 Z-axis Electro-optical Zero Setter	ZOP-50	Electro-optical	50

產品名稱 product name	編號 Item	規格 Spec	高度 Height
量表式Z軸設定器 Z-axis Scale Zero Setter(magnetic)	ZDI-50	Scale with magnetic	50

產品名稱 product name	編號 Item	長度 Length
主軸檢測棒 Spindle Test Bar	BT30 BT40 BT50	200L/250L 250L/300L/350L 315L/350/400L

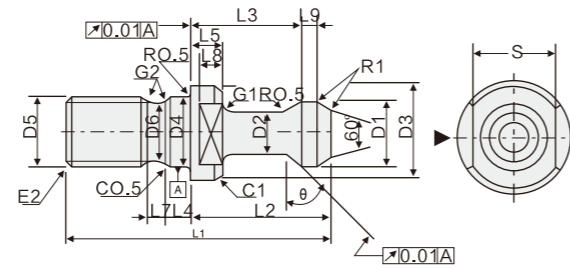
產品名稱 product name	編號 Item	規格 Spec
三點組合模貝 Modular Concentricity Test Gauge	BT30 BT40 BT50	MCT30 MCT40 MCT50

產品名稱 product name	編號 Item	柄徑 Shank Diameter	長度 Length	測頭 Gauge head
光電式尋邊器 Electro-optical Edge Finder	EOP-20	ø20	160	ø10

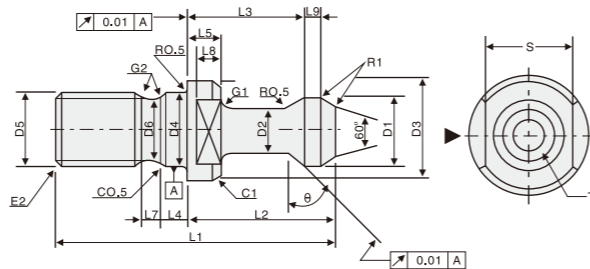
產品名稱 product name	編號 Item	柄徑 Shank Diameter	長度 Length	測頭 Gauge head
機械式尋邊器 Mechanical Edge Finder(Anti-Magnetic)	MOP-10	ø10	160	ø10

產品名稱 product name	編號 Item	柄徑 Shank Diameter	長度 Length	測頭 Gauge head
陶瓷尋邊器 Ceramic Edge Finder	COP-10	ø10	160	ø10

BT PULL STUD
BT 拉杆、拉頭



型號 Specification	尺寸 Size																		
	L1	D4	D5	D6	E2	G2	L4	L7	D3	G1	L5	S	D1	D2	L2	L3	L9	θ	
BT30	30	43	12.5	M12	9.5	1.75	1	4	3	16.5	2	5	13	11	7	23	18	2.5	30
	45	43	12.5	M12	9.5	1.75	1	4	3	16.5	2	5	13	11	7	23	18	2.5	45
	60	43	12.5	M12	9.5	1.75	1	4	3	16.5	2	5	13	11	7	23	18	2.5	60
	90	43	12.5	M12	9.5	1.75	1	4	3	16.5	2	5	13	11	7	23	18	2.5	90
BT40	30	60	17	M16	13	2	1	5	4	23	3	6	19	15	10	35	28	3	30
	45	60	17	M16	13	2	1	5	4	23	3	6	19	15	10	35	28	3	45
	60	60	17	M16	13	2	1	5	4	23	3	6	19	15	10	35	28	3	60
	90	60	17	M16	13	2	1	5	4	23	3	6	19	15	10	35	28	3	90
BT50	30	85	25	M24	20	3	1.5	8	5	38	5	10	30	23	17	45	35	5	30
	45	85	25	M24	20	3	1.5	8	5	38	5	10	30	23	17	45	35	5	45
	60	85	25	M24	20	3	1.5	8	5	38	5	10	30	23	17	45	35	5	60
	90	71	25	M24	20	3	1.5	8	5	36	5	10	30	24	18	31	35	5	90
	90L	85	25	M24	20	3	1.5	8	5	38	5	10	30	23	17	45	35	5	90

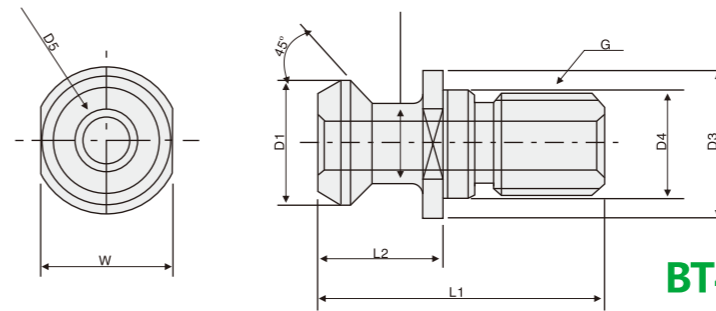


BT PULL STUD WITH COOLANT HOLE
BT 拉杆、拉頭中心出水

型號 Specification	尺寸 Size																		
	L1	D4	D5	D6	E2	G2	L4	L7	D3	G1	L5	S	D1	D2	L2	L3	L9	θ	
BT30	30 COOLANT	43	12.5	M12	9.5	1.75	1	4	3	16.5	2	5	13	11	7	23	18	2.5	30
	45 COOLANT	43	12.5	M12	9.5	1.75	1	4	3	16.5	2	5	13	11	7	23	18	2.5	45
	60 COOLANT	43	12.5	M12	9.5	1.75	1	4	3	16.5	2	5	13	11	7	23	18	2.5	60
	90 COOLANT	43	12.5	M12	9.5	1.75	1	4	3	16.5	2	5	13	11	7	23	18	2.5	90
BT40	30 COOLANT	60	17	M16	13	2	1	5	4	23	3	6	19	15	10	35	28	3	30
	45 COOLANT	60	17	M16	13	2	1	5	4	23	3	6	19	15	10	35	28	3	45
	60 COOLANT	60	17	M16	13	2	1	5	4	23	3	6	19	15	10	35	28	3	60
	90 COOLANT	60	17	M16	13	2	1	5	4	23	3	6	19	15	10	35	28	3	90
BT50	30 COOLANT	85	25	M24	20	3	1.5	8	5	38	5	10	30	23	17	45	35	5	30
	45 COOLANT	85	25	M24	20	3	1.5	8	5	38	5	10	30	23	17	45	35	5	45
	60 COOLANT	85	25	M24	20	3	1.5	8	5	38	5	10	30	23	17	45	35	5	60
	90 COOLANT	71	25	M24	20	3	1.5	8	5	36	5	10	30	24	18	31	35	5	90
	90L COOLANT	85	25	M24	20	3	1.5	8	5	38	5	10	30	23	17	45	35	5	90

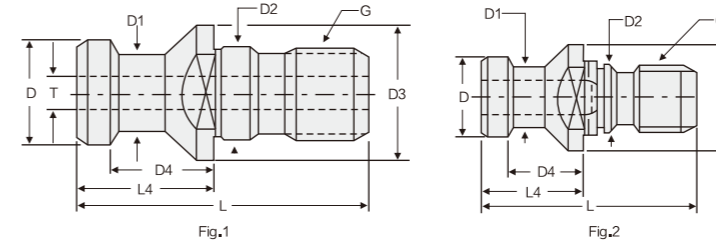
特點/Feature

- 熱處理有效提高精度及其夾持穩定性。2、表面光潔度舒適，耐磨。
- Thermal treatment process improve the clamping precision and stability.2、Finish surface with long durability.



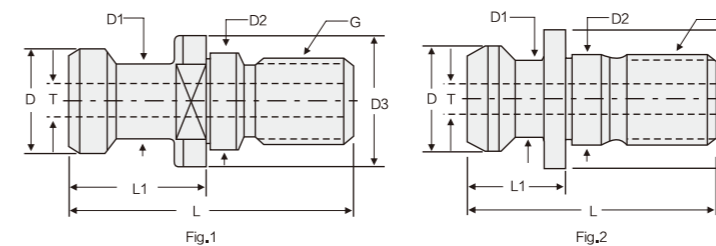
PULL STUD
BT40/BT50 MAZAK 拉杆、拉頭

型號 Specification	尺寸 Size								
	L1	L2	D1	D2	D3	D4	D5	W	G
BT40 MAZAK	44.1	19.1	18.8	12.45	22	17	7	19	M16
BT50 MAZAK	65.2	25.2	29	20.83	36	25	10	30	M24



PULL STUD
DIN69872A/B 拉杆、拉頭

型號 Specification	圖示 Fig	尺寸 Size							
		L	L4	D	D1	D2	D3	D4	T
DIN69872A-P16D	A	54	26	19	14	17	23	20	7.5
DIN69872A-P24D	A	74	34	28	21	25	36	25	11.5
DIN69872B-P16D	B	57	26	19	14	17	23	20	-
DIN69872B-P16D	B	74	34	28	21	25	36	25	-



PULL STUD
DIN69872A/B 拉杆、拉頭

型號 Specification	圖示 Fig	尺寸 Size						
		L	D	D1	D2	D3	T	G
ISO7388/2A-P16D	A	54	19	14	17	23	7.5	M16
ISO7388/2A-P24D	A	74	28	21	25	36	11.5	M24
ISO7388/2B-P16D	B	44.5	18.9	12.9	17	22.5	7.5	M16
ISO7388/2B-P16D	B	65.5	29.1	19.6	25	36	11.5	M24

特點/Feature

- 熱處理有效提高精度及其夾持穩定性。2、表面光潔度舒適，耐磨。
- Thermal treatment process improve the clamping precision and stability.2、Finish surface with long durability.

TAPPING TOOL HOLDER SERIES

铣削攻牙夹持具系列

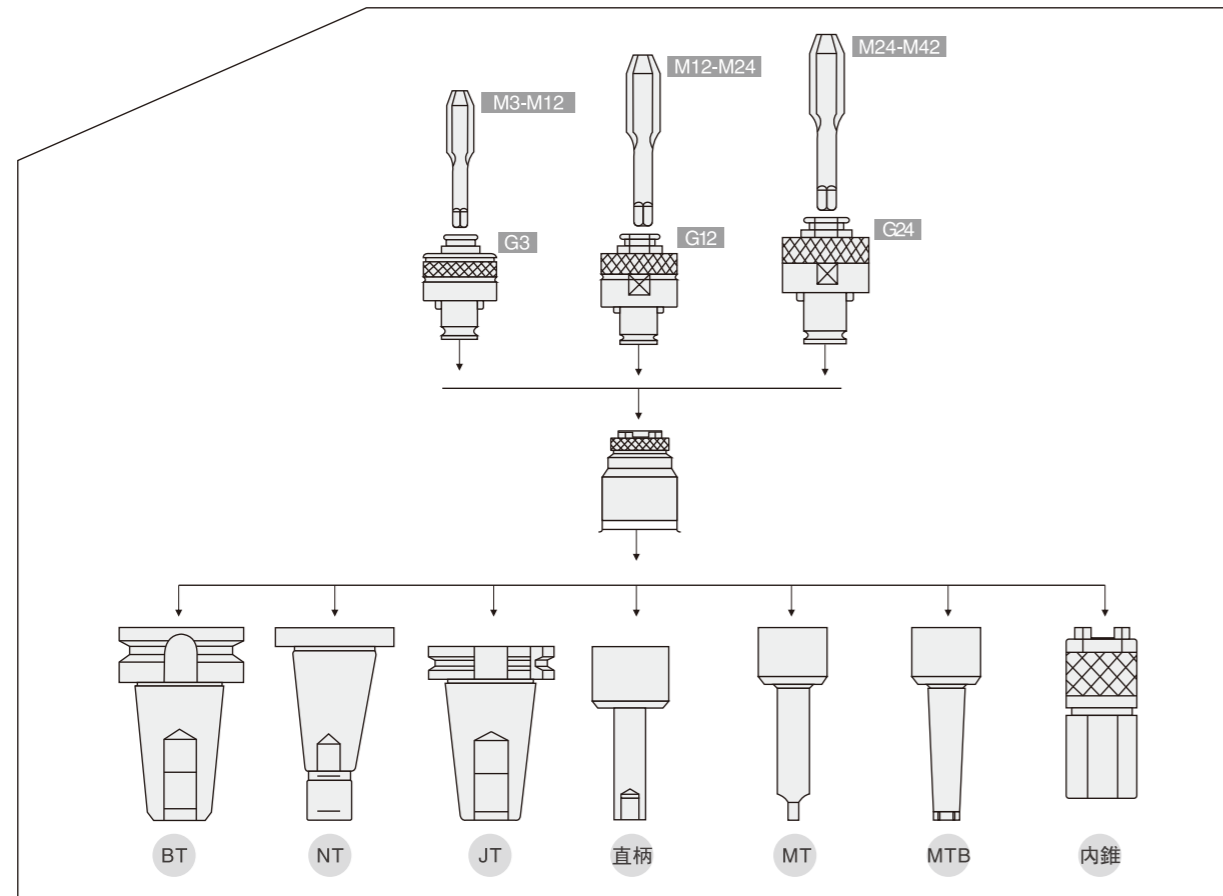
一點一滴精鑄 一絲一毫細礪

High Precision Casting



TAPPING TOOL HOLDER

攻牙本體系統



TAPPING TOOL HOLDER

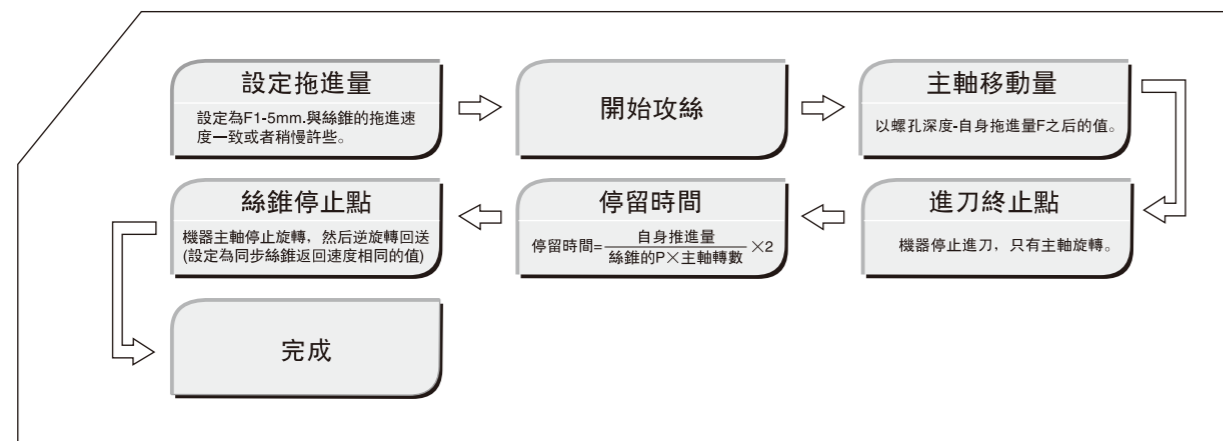
伸縮扭力攻絲刀柄

1. 攻絲刀柄伸縮機構
攻絲刀柄本身自己自帶伸縮的伸縮機構。這是防止變螺絲及絲錐的牙距與機械進給能圓滑的同步進行。必須在伸縮量的範圍內使用。
①.伸長過量: 超過伸長界限時, 黑色標記會出來, 請加快機床進給量。
②.壓縮過量: 機床進給比絲錐進刀快, 壓縮機構動作, 請減少機床進給量, 不密着。
2. 底孔較小時(難削材等的加工時,底孔不夠的現象較多), 扭矩保護機構, 使絲錐空轉。這種情況下, 不要調整扭矩ZK攻絲套筒的場合, 請擴大底孔。
3. 盲孔攻絲時, 程序的Z軸指令偏深時, 主軸回轉停止時, 孔底在回轉力的作用下, 因碰到底部, 無法伸長。反轉時, 在出口時無法恢復的原長, 絲錐容易碰盲孔口部。這種情況下, 請加深下底孔或減淺指令值。
4. Z型攻絲刀柄的場合, 機器的固定進給, Z點反轉開始Z上升, 攻絲刀柄是在縮短的狀態Z軸上升, 孔口容易與絲錐碰到, 這種情況, Z點進入停頓, 攻絲刀柄在伸長的狀態下, 隨Z軸一起上升。
5. 攻絲刀柄和攻絲套筒的修理費, 人為損壞及保修期后, 修復及檢測均需收費(基本費用)。



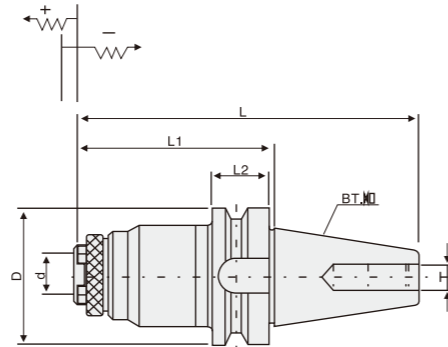
- 1 TENSION AND COMPRESSION TAPER HOLDER
Tension and compression function can prove screw and tap tooth space moving sleekly and synchronously with machine.It should be used in the scope of designed tension and compression.
①.Over tension
The black mark can be seen at this time.Please speed up the working speed of axis.
②.Over compression
Reduce the moving speed of axis.
2 In case of small hole in tapping model,torque protection function makes taps idling. Don't adjust the torque instead of large one.
3 When blind hole tapping,Z axis programmed with slant depth and under the gyroscopic force and touch the bottom part,in case of reduce programmed Z axis data instruction.
4.When Z system tapping chuck in use, in other case of orifice touched,please stop the Z point, tapping chuck run up with Zaxis in the state of elongation.
5 In case of artificial damage or after warranty period,The cost for evaluating and remanding should be charged.

限制螺孔深度設定方案及操作注意事項



常見直槽高速絲錐的切削扭矩參考值

絲錐尺寸	最小攻絲扭矩	最大攻絲扭矩	絲錐折斷扭矩	絲錐折斷扭矩	所需功率	攻絲夾頭的調整值	攻絲夾頭的調整值	攻絲夾頭的調整值
	N.m	N.m	(低強度)N.m	(高強度)N.m		N.m	N.m	N.m
M5	2.26	3.39	4.52	4.78	0.247	2.28	2.26	4.52
M6	3.39	4.78	5.65	11.3	0.373	4.52	3.39	6.78
M8	4.52	9.04	8.48	17	0.373	6.78	5.65	11.3
M10	11.3	22.6	20.3	28.3	0.56	14.7	12.4	24.9
M12	11.3	22.6	20.3	33.9	0.746	22.6	20.3	33.9
M14	22.6	67.8	56.5	90.4	0.93	39.5	39.5	73.4
M16	28.3	67.8	72.5	123	0.56	51	51	73.4
M20	56.5	113	113	170	1.3	73.4	73.4	107

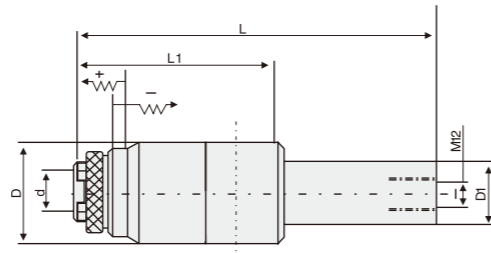


BT TENSION AND COMPRESSION TAPPING HOLDER
BT 扭力伸縮攻牙刀柄

	型號	攻牙範圍	尺寸 Size						筒夾
	Specification	Tapping range	D	d	L	L1	L2	T	Collet
BT30	G0312	M3-M12	46	19	141	87.6	20	M12	G3
BT40	G0312	M3-M12	63	19	153	92.6	25	M16	G3
	G1224	M12-M24	63	30	200	134.6	25	M16	G12
BT50	G0312	M3-M12	100	19	199	97.2	35	M24	G3
	G1224	M12-M24	100	30	246	142.2	35	M24	G12
	G2442	M24-M42	100	45	276	174.2	35	M24	G24

特點/Feature

1. 具有扭矩過載保護，可以防止絲錐斷裂。
 2. 具有浮動和伸縮功能，快速更換刀具。
 3. 適合CNC 加工中心、數控銑床等機床設備。
 4. 攻絲範圍：M3-M42。
1. Overload protection to avoid breakage of taps.
 2. Floating chuck with tension and compression function, tools can be changed quickly.
 3. Suitable for CNC machine center, drilling machine, lathes.
 4. Tapping range: M3-M42.

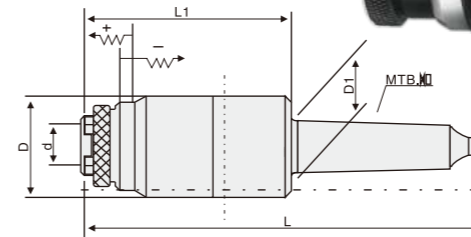


TENSION AND COMPRESSION TAPPING HOLDER WITH STRAIGHT SHANK
直柄扭力伸縮攻牙刀柄

	型號	攻牙範圍	尺寸 Size						筒夾
	Specification	Tapping range	D	d	L	L1	D1	筒夾	
C20	50-G0312	M3-M12	46	19	149	89	20	G3	
	100-G0312	M3-M12	46	19	189	89	20	G3	
C25	50-G0312	M3-M12	46	19	149	89	25	G3	
	100-G0312	M3-M12	46	19	189	89	25	G3	
C32	100-G1224	M12-M24	66	30	220	120	25	G12	
	100-G1224	M12-M24	66	30	220	120	32	G12	

特點/Feature

1. 具有扭矩過載保護，可以防止絲錐斷裂。
 2. 具有浮動和伸縮功能，快速更換刀具。
 3. 適合各種夾頭加長和各種攻牙機床設備。
 4. 攻絲範圍：M3-M24。
1. Overload protection to avoid breakage of taps.
 2. Floating chuck with tension and compression function, tools can be changed quickly.
 3. Suitable for drilling machine, lathes, tapping machines.
 4. Tapping range: M3-M42.

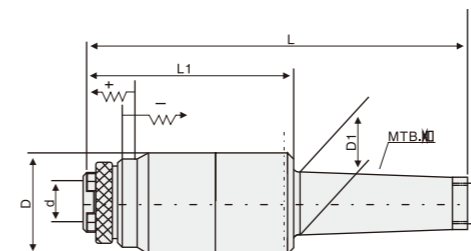


MTA MORSE FLOATING TAPPING HOLDER
MTA 莫氏扭力伸縮攻牙刀柄

	型號	攻牙範圍	尺寸 Size						筒夾
	Specification	Tapping range	D	d	d1	D1	L	L1	Collet
MTA3	G0312	M3-M12	46	19	M12	23.825	176	89	G3
	G1224	M12-M24	66	30	M12	23.825	206	120	G12
MTA4	G0312	M3-M12	46	19	M16	31.267	199	89	G3
	G1224	M12-M24	66	30	M16	31.267	229	120	G12

特點/Feature

1. 具有扭矩過載保護，可以防止絲錐斷裂。
 2. 具有浮動和伸縮功能，快速更換刀具。
 3. 適合鑽床，攻牙機，車床，數控銑床等機床設備。
 4. 攻絲範圍：M3-M24。
1. Overload protection to avoid breakage of taps.
 2. Floating chuck with tension and compression function, tools can be changed quickly.
 3. Suitable for drilling machine, lathes, Milling machines.
 4. Tapping range: M3-M42.

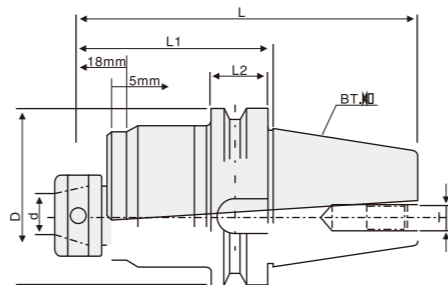


MTB MORSE TAPPING HOLDER
MTB 莫氏無扁尾扭力伸縮攻牙刀柄

	型號	攻牙範圍	尺寸 Size						筒夾
	Specification	Tapping range	D	d	d1	D1	L	L1	Collet
MTB3	G0312	M3-M12	46	19	M12	23.825	176	89	G3
	G1224	M12-M24	66	30	M12	23.825	206	120	G12
MTB4	G0312	M3-M12	46	19	M16	31.267	199	89	G3
	G1224	M12-M24	66	30	M16	31.267	229	120	G12

特點/Feature

1. 具有扭矩過載保護，可以防止絲錐斷裂。
 2. 具有浮動和伸縮功能，快速更換刀具。
 3. 適合鑽床，攻牙機，車床，數控銑床等機床設備。
 4. 攻絲範圍：M3-M24。
1. Overload protection to avoid breakage of taps.
 2. Floating chuck with tension and compression function, tools can be changed quickly.
 3. Suitable for drilling machine, lathes, Milling machines.
 4. Tapping range: M3-M42.

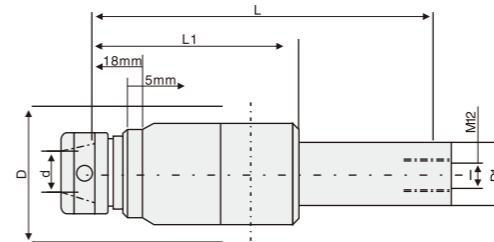
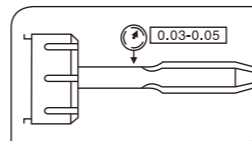


BT RIGID TAPPING TOOL HOLDER
BT 剛性伸縮攻牙刀柄

	型號	攻牙範圍	尺寸 Size					筒夾
	Specification	Tapping range	D	L	L1	L2	T	Collet
BT30	TER16	M2-M12	46	149	100.6	20	M12	ER16
	TER20	M2-M16	46	151	102.6	20	M12	ER20
	TER25	M2-M22	46	153	104.6	20	M12	ER25
	TER32	M2-M30	46	156	107.6	20	M12	ER32
BT40	TER16	M2-M12	63	161	95.6	25	M16	ER16
	TER20	M2-M16	63	163	97.6	25	M16	ER20
	TER25	M2-M22	63	165	99.6	25	M16	ER25
	TER32	M2-M30	63	168	102.6	25	M16	ER32
BT50	TER16	M2-M12	100	207	105.2	35	M24	ER16
	TER20	M2-M16	100	209	107.2	35	M24	ER20
	TER25	M2-M22	100	211	109.2	35	M24	ER25
	TER32	M2-M30	100	214	112.2	35	M24	ER32

特點/Feature

- 剛性功能確保加工中心主軸轉動同進給精確同步。
- 鋼性攻牙刀柄可使用ER筒夾，夾持鑽頭、鉸刀和銑刀等刀具。
- 使用時螺帽請勿過度鎖緊，以免造成損壞。
- The rigidity design ensures precision synchronization between spindle rotation and cutting feed.
- ER collet can be used for gripping drill bits,reaming cutters and milling cutters.
- Do not lock the clamping nut too tight in order to avoid damage.

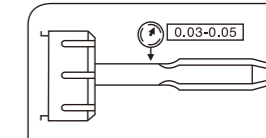


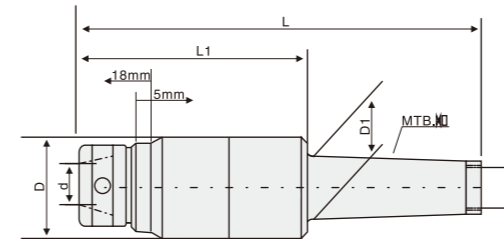
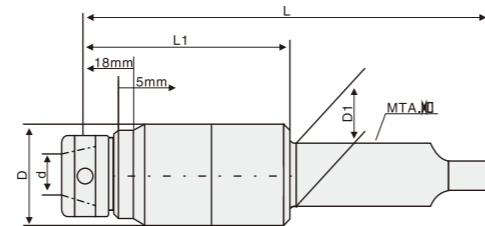
RIGID TAPPING TOOL HOLDER WITH STRAIGHT SHANK
直柄剛性伸縮攻牙刀柄

	型號	攻牙範圍	尺寸 Size				筒夾
	Specification	Tapping range	D	L	L1	D1	Collet
C20	50/100-TER16	M2-M12	46	147/197	97	20	ER16
	50/100-TER20	M2-M16	46	149/199	99	20	ER20
	50/100-TER25	M2-M22	46	161/201	101	20	ER25
	50/100-TER32	M2-M30	46	164/204	104	20	ER32
C25	50/100-TER16	M2-M12	46	147/197	97	25	ER16
	50/100-TER20	M2-M16	46	149/199	99	25	ER20
	50/100-TER25	M2-M22	46	161/201	101	25	ER25
	50/100-TER32	M2-M30	46	164/204	104	25	ER32

特點/Feature

- 剛性功能確保加工中心主軸轉動同進給精確同步。
- 鋼性攻牙刀柄可使用ER筒夾，夾持鑽頭、鉸刀和銑刀等刀具。
- 使用時螺帽請勿過度鎖緊，以免造成損壞。
- The rigidity design ensures precision synchronization between spindle rotation and cutting feed.
- ER collet can be used for gripping drill bits,reaming cutters and milling cutters.
- Do not lock the clamping nut too tight in order to avoid damage.





MTA MORSE RIGID TAPPING TOOL HOLDER
莫氏扁尾剛性伸縮攻牙刀柄

MTB MORSE RIGID TAPPING TOOL HOLDER
莫氏無扁尾剛性伸縮攻牙刀柄

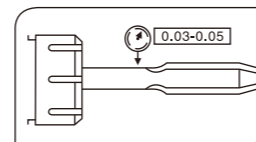
	型號	攻牙範圍	尺寸 Size				筒夾
	Specification	Tapping range	D	L	L1	D1	Collet
MTA2	TER16	M2-M12	46	177	97	17.78	ER16
	TER20	M2-M16	50	198	99	23.825	ER20
	TER25	M2-M22	46	181	101	17.78	ER25
MTA3	TER16	M2-M12	50	196	97	23.825	ER16
	TER20	M2-M16	50	198	99	23.825	ER20
	TER25	M2-M22	50	200	101	23.825	ER25
MTA4	TER32	M2-M30	50	203	104	23.825	ER32
	TER16	M2-M12	66	221	97	31.267	ER16
	TER20	M2-M16	66	223	99	31.267	ER20
MTA5	TER25	M2-M22	66	225	101	31.267	ER25
	TER32	M2-M30	66	228	104	31.267	ER32
	TER32	M2-M30	66	260	104	44.339	ER32

	型號	攻牙範圍	尺寸 Size				筒夾	
	Specification	Tapping range	D	d1	D1	L	L1	Collet
MTB3	TER16	M2-M12	46	M12	23.825	176	89	ER16
	TER20	M2-M24	46	M12	23.825	206	120	ER20
	TER25	M2-M22	46	M12	23.825	176	89	ER25
MTB4	TER32	M2-M30	46	M12	23.825	206	120	ER32
	TER16	M2-M12	46	M16	31.267	199	89	ER16
	TER20	M2-M24	46	M16	31.267	229	120	ER20
	TER25	M2-M22	46	M16	31.267	199	89	ER25
	TER32	M2-M30	46	M16	31.267	229	120	ER32

特點/Feature

1. 剛性功能確保加工中心主軸轉動同進給精確同步。
2. 鋼性攻牙刀柄可使用ER筒夾，夾持鑽頭、鉸刀和銑刀等刀具。
3. 使用時螺帽請勿過度鎖緊，以免造成損壞。

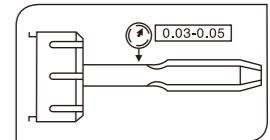
1. The rigidity design ensures precision synchronization between spindle rotation and cutting feed.
2. ER collet can be used for gripping drill bits,reaming cutters and milling cutters.
3. Do not lock the clamping nut too tight in order to avoid damage.



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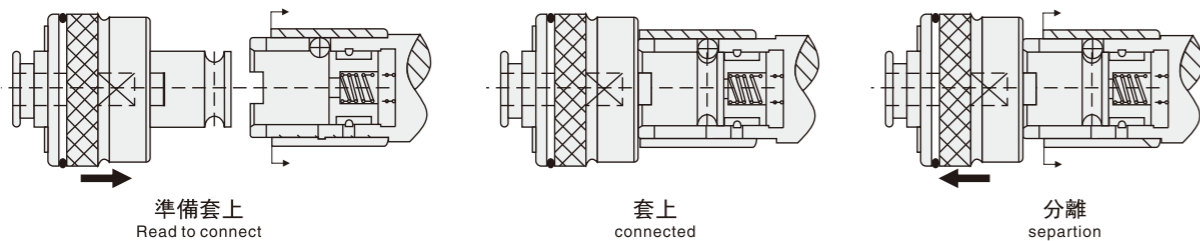


FITTING

G 扭力過載保護攻絲筒夾

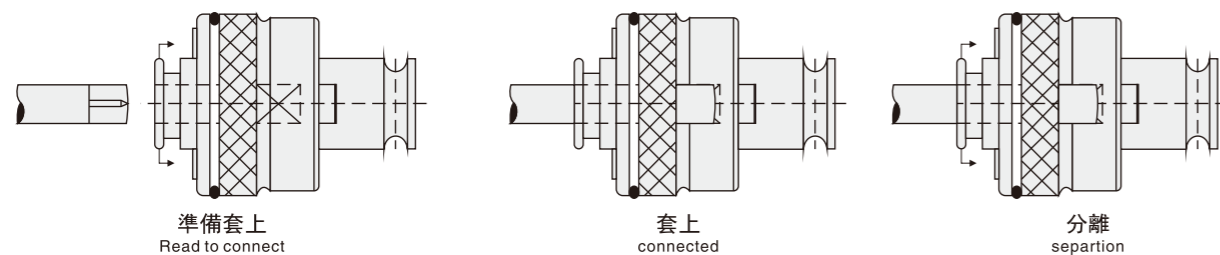
攻牙本體與攻絲筒夾連接操作方法

QUICK CHANGE PROTECT TAP COLLET G SYSTEM



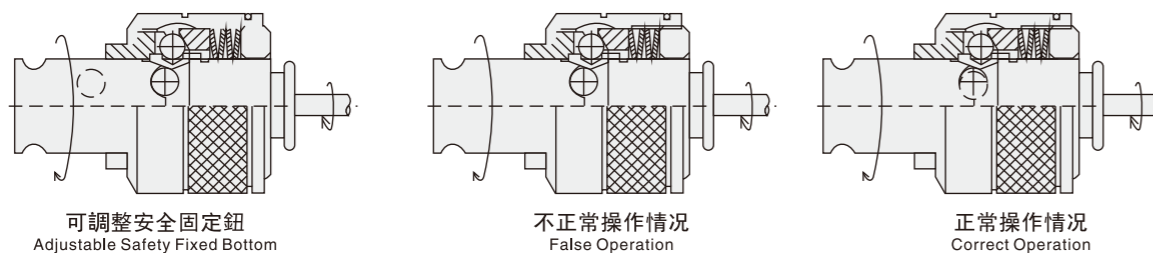
攻絲筒夾與刀具連接操作方法

SCREW TAP AND COLLET CONNECTING



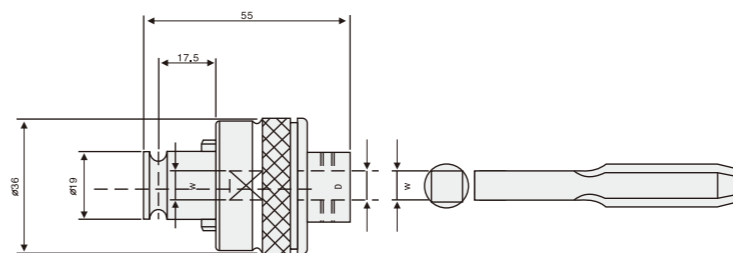
可調整安全固定鈕操作方法

SAFETY FIXED BOTTO ADJUSTING



G3 TAPPING COLLET
G3 攻絲筒夾(公制)

型號 Specification	規格 (公制) Specification	D +0.08	W +0.08	圖示 Photo
G3	M3	3.15	2.5	F1
G3	M4	4	3.15	F1
G3	M5	5	4	F1
G3	M6-8	6.3	5	F1
G3	M10	8	6.3	F1
G3	M12	9	7.1	F1



G3 TAPPING COLLET
G3 攻絲筒夾(JIS)

型號 Specification	規格 (JIS) Specification	規格 (JIS) Specification	D +0.08	W +0.05
G3	M3	1/8	4	3.2
G3	M4	5/32	5	4
G3	M5	3/16	5.5	4.5
G3	M6	1/4	6	4.5
G3	M8	5/16	6.2	5
G3	M10	3/8	7	5.5
G3		7/16	8	6
G3	M12		8.5	6.5
G3		1/16	9	7

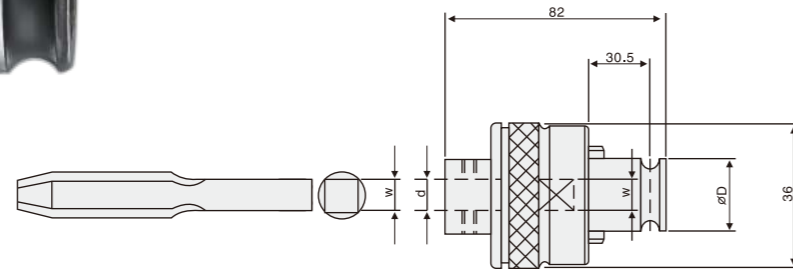
特點/Feature

1. 具有扭矩過載保護功能，高精度和靈敏度，使用壽命長。
 2. 扭矩的變動反應靈敏，可以根據不同材質設定相應的扭矩。
 3. 適用於各種攻牙機床設備。
1. Overload protection with high precision and sensitivity, which can promise increased tool life.
 2. Sensitive response to torque change and adjustable according to different work piece material.
 3. Suitable for various tapping tools and machines.



G12 TAPPING COLLET

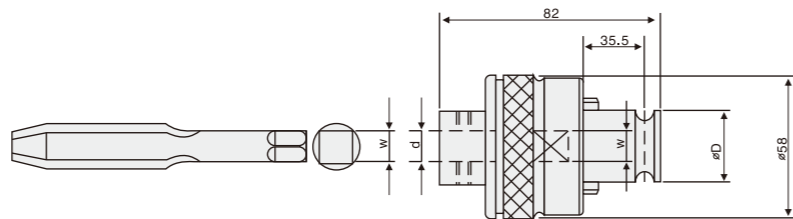
G12 攻絲筒夾(公制)



型號 Specification	規格 (公制) Specification	d +0.10	w +0.15	D
G12	M6-8	6.3	5	31
G12	M10	8	6.3	31
G12	M12	9	7.1	31
G12	M14	11.2	9	31
G12	M16	12.5	10	31
G12	M18-20	14	11.2	31
G12	M22	16	12.5	31
G12	M24	18	14	31

G12 TAPPING COLLET

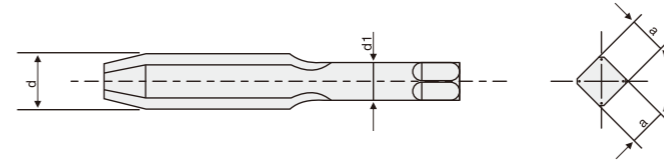
G12 攻絲筒夾(JIS)



型號 Specification	規格 (公制) Specification	d +0.10	W +0.15	D
G12	M6	6	4.5	31
G12	M8	6.2	5	31
G12	M10	7	5.5	31
G12	M12	8.5	6.5	31
G12	M14	10.5	8	31
G12	M16	12	9	31
G12	M18	14	11	31
G12	M20	15	12	31
G12	M22	17	13	31
G12	M24	19	15	31

特點/Feature

1. 具有扭矩過載保護功能，高精度和靈敏度，使用壽命長。
 2. 扭矩的變動反應靈敏，可以根據不同材質設定相應的扭矩。
 3. 適用於各種攻牙機床設備。
1. Overload protection with high precision and sensitivity, which can promise increased tool life.
 2. Sensitive response to torque change and adjustable according to different work piece material.
 3. Suitable for various tapping tools and machines.



SPECIFICATIONS

絲錐標準

公制	美制	英制	JIS		ISO		DIN371		DIN376		英制工作 直徑d1
			直徑d1	四方a*a	直徑d1	四方a*a	直徑d1	四方a*a	直徑d1	四方a*a	
M3		W1/8	4	3.2	3.15	2.5	3.5	2.7	2.2		3.18
M4/M4.5		W5/32	5	4	4	3.15	4.5	3.4	2.8	2.1	3.97
M5/M5.5		W3/16	5.5	4.5	5	4	6	4.9	3.5	2.7	4.76
M6	U1/4	W1/4	6	4.5	6.3	5	6	4.9	4.5	3.4	6.35
		W5/16	6.1	5.5							7.94
M8/M7			6.2	5	6.3	5	8	6.2	6	4.9	
M10/M9	U3/8	W3/8	7	5.5	8	6.3		8	7	5.5	9.52
M11	U7/16	W7/16	8	6							11.11
M12			8.5	6.5	9	7.1			9	7	
	U1/2	W1/2	9	7							12.7
M14/M15	U9/16	W9/16	10.5	8	11.2	9			11	9	14.28
M16	U5/8	W5/8	12	9							15.88
			12.5	10	12.5	10			12	9	
M17			13	10							
M18	U3/4	W3/4	14	11	14	11.2			14	11	19.05
M20			15	12	14	11.2			16	12	
M22	U7/8	W7/8	17	13	16	12.5			18	14.5	22.22
M24/M25			19	15	18	14			18	14.5	
M25/M26	U1	W1	20	15							25.4
M27			20	15	20	16			20	16	
M28			21	17							
	U1 1/8	W1 1/8	22	17							28.58
M30			23	17	20	16			22	18	
M32	U1 1/4	W1 1/4	24	19							31.75
M33			25	19	22.4	18					
M34/M35	U1 3/8	W1 3/8	26	21							34.93
M36			28	21	25	20					
M39/M40	U1 1/2	W1 1/2	30	23							38.1
M42		W1 5/8	32	26	28	22.4					41.28
M45	U1 3/4	W1 3/4	35	26							44.45
M48		W1 7/8	38	29	31.5	25					47.63



DT52 旋臂鑽床攻牙系列

DT24/DT33 旋臂鑽床攻牙組

型號 Specification	筒夾持具 Tapper Holder	筒夾 Collet	套筒 Tap Sleeve
DT24 MTA□-10PCDS/SET	DT24-MT2 Holder DT24-MT2 Holder DT24-MT2 Holder DT24-MT2 Holder	M4M5M6M8M10M12M14M16M18M20M22M24 W3/16,W1/4,W5/16,W3/8,W7/16,W1/2,W5/8,W3/4,W7/8,W1" PT1/8,PT1/4,PT3/8,PT1/2	T24-MT1 T24-MT2 T24-MT3
DT33 MTA□-10PCDS/SET	DT33-MT3 Holder DT33-MT4 Holder DT33-MT5 Holder	M8M10M12M14M16M18M20M22M24M27M30M33,M36 W3/16,W1/4,W5/16,W3/8,W7/16,W1/2,W5/8,W3/4,W7/8,W1" PT1/8,PT1/4,PT3/8,PT1/2	T33-MT1 T33-MT2 T33-MT3 T33-MT4

DT24/DT33 旋臂鑽床攻牙組:

1. 旋臂攻牙本體×1PC
2. DT24/DT33+JTA6+1/2普通鑽夾頭×1SET
3. DT24/DT33攻絲套筒夾×2PCS
4. DT24/DT33攻絲筒夾×6PCS
4. L型調整扳手×1PCS

標準型

型號 Specification	標準尺寸 standard
DT24 MTA□-10PCDS/SET DT33 MTA□-10PCDS/SET	DT24 MTA□HOLDER,JTA6+1/2,DT24-M4,M6,M8,M10,M12,M16,DT24-MT1,DT24-MT2 DT33 MTA□HOLDER,JTA6+1/2,DT33-M8,M10,M12,M16,M20,M24,DT33-MT2,DT33-MT3

1. DT24/DT33攻牙組可調整組購買也可以依照你的需求分別購買。
2. DT24/DT33攻牙組使用簡單、方便、快速;
3. DT24/DT33本體有調整扭力功能。并可依照攻牙需求做扭力強 (H) 和弱 (L) 之調整操作。

型號 Specification	筒夾 Collet	套筒 Tap Sleeve
DT52-MTA5 Holder	M20,M22,M24,M27,M30,M33,M36,M39,M42,M45,M48,M52 W7/8,W1",W1-1/8,W1-1/4,W1-3/8,W1-1/2,W1-1/5,W1-3/4,W1-7/8,W2"	DT52-MT2 DT52-MT3 DT52-MT4 DT52-MT5

1. DT52攻牙系列可以依照你的需求分別購買。
2. DT52攻牙刀杆使用簡單、方便、快速。
3. DT52本體有調整扭力功能。并可依照攻牙需求做扭力強 (H) 和弱 (L) 之調整操作。

DT52 攻絲筒夾規格表

JIS	Φd □
DT52 M20	15 12
DT52 M22 W7/8	17 13
DT52 M24 M25	19 15
DT52 M27 W1 PT5/8	20 15
DT52 M30 PT3/4	23 17
DT52 M32 W1-14 PT7/8	24 19
DT52 M33	25 19
DT52 M34 M35 W1-3/8 PT1	26 21
DT52 M36 PT1-1/8	28 21
DT52 M39 M40 W1-1/2	30 23
DT52 M42 W1-5/8	32 26
DT52 M45 M46 W1-3/4 PT1-3/8	35 26
DT52 M48 W1-7/8 PT1-1/2	38 29
DT52 M50 W2	40 32
DT52 M52	42 32
DT52 W1-1/8	22 17

ISO	Φd □
DT52 M20	14 11.2
DT52 M22	16 12.5
DT52 M24	18 14
DT52 M27 M30	20 16
DT52 M33	22.4 18
DT52 M36	25 20
DT52 M39 M42	28 22.4
DT52 M45 M48	31.5 25
DT52 M52	35.5 28

DIN376	Φd □
DT52 M20	16 12
DT52 M22 M24 W1"	18 14.5
DT52 M27	20 16
DT52 M30	22 18
DT52 M33	25 20
DT52 M36	28 22
DT52 M39 M42	32 24
DT52 M45 M48	26 29
DT52 M52	40 32

PROBLEM AND SOLUTIONS IN TAPPING PROCESS

攻絲中常見問題原因與解決方法

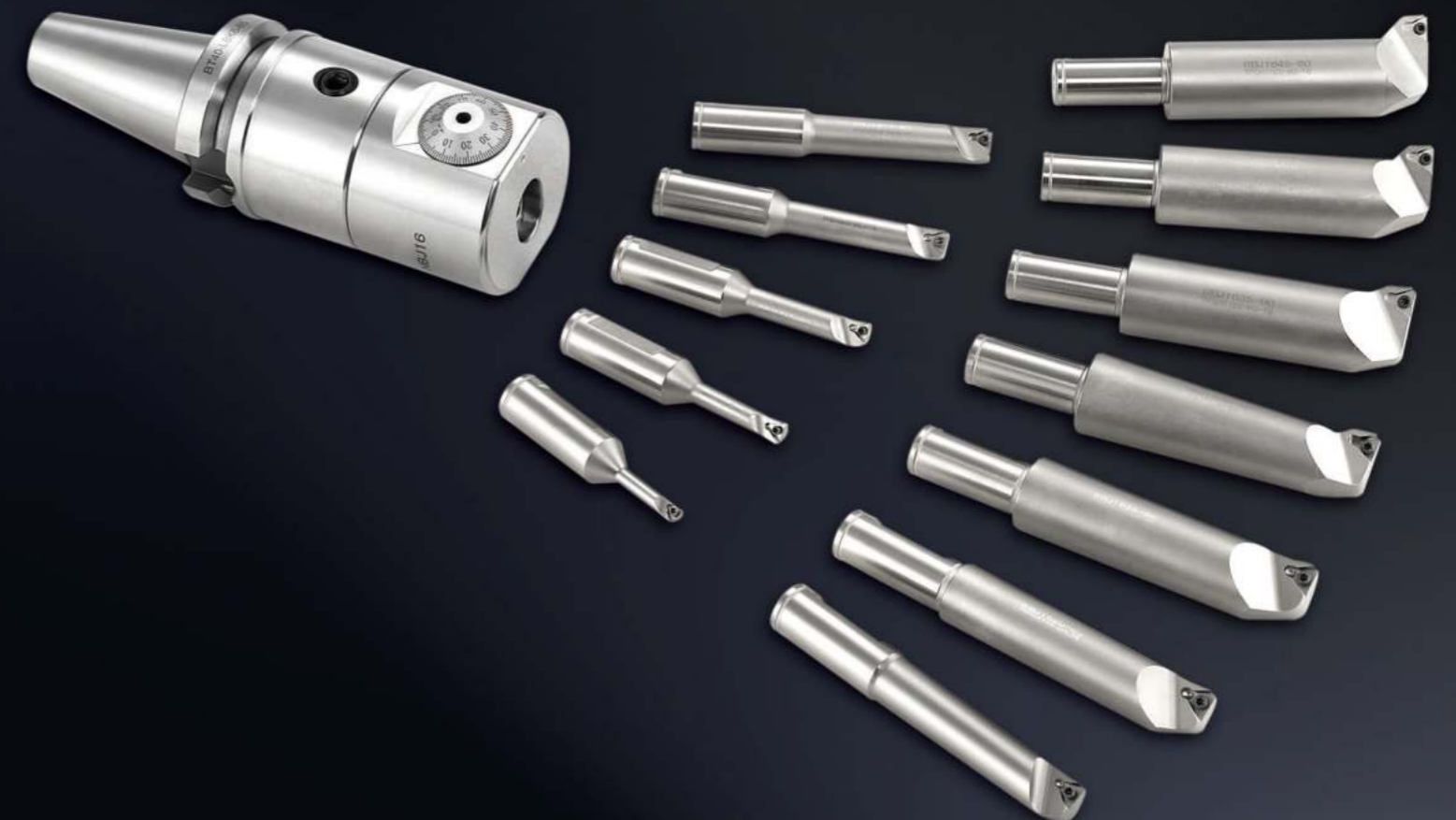
序號	發生的問題	產生原因	解決方法
1	絲錐折斷	① 螺紋底孔選擇偏小 ② 排屑不好，切屑堵塞在絲錐槽內 ③ 攻不通孔螺紋，鑽孔深度不夠 ④ 攻螺紋切削速度太高 ⑤ 攻螺紋絲錐與底孔不同軸 ⑥ 絲錐刃磨參數選擇不適合 ⑦ 工作硬件不穩定 ⑧ 絲錐過度磨損	① 尽可能加大底孔直徑 ② 刃磨刀傾角或選用螺尖絲錐，盲孔則選用螺旋槽絲錐 ③ 加大鑽孔深度 ④ 適當降低切削速度 ⑤ 校正夾具，選用浮動螺絲夾頭 ⑥ 增大絲錐前角，縮短切削錐長度 ⑦ 控制工作硬度，選用保險夾頭 ⑧ 及時更換絲錐
2	絲錐崩齒	① 絲錐前角選擇過大 ② 絲錐每齒切削厚度太大 ③ 絲錐硬度过高 ④ 絲錐磨損	① 適當減小前角 ② 適當增加切削錐長度 ③ 適當降低硬度 ④ 及時更換絲錐
3	絲錐磨損太快	① 攻螺紋切削速度太高 ② 絲錐刃磨參數選擇不適合 ③ 切削液選擇不適合 ④ 工件材料硬度过高 ⑤ 絲錐刃磨時燒傷	① 適當降低切削速度 ② 適當減小前角，加長切削錐長度 ③ 選用潤滑性好的切削液 ④ 工件進行適當熱處理 ⑤ 正確刃磨絲錐
4	螺紋中徑過大	① 絲錐精度選擇不當 ② 切削液選擇不當 ③ 切削速度太高 ④ 絲錐與工件螺紋底孔不同軸 ⑤ 絲錐刃磨參數選擇不適合 ⑥ 刃磨絲錐中產生毛刺 ⑦ 絲錐切削長度太短	① 選擇適宜精度的絲錐 ② 選擇適宜的切削液 ③ 適當降低切削速度 ④ 校正夾具，選用浮動攻夾頭 ⑤ 適當減小前角與切削錐後角 ⑥ 消除刃磨絲錐產生的毛刺 ⑦ 適當增加切削錐長度
5	螺紋中徑過小	① 絲錐精度選擇不當 ② 絲錐刃磨參數選擇不適合 ③ 切削液選擇不適合	① 選擇適宜精度的絲錐 ② 適當加大絲錐前角與切削錐角 ③ 選用潤滑性好的切削液
6	螺紋表面不光滑，有波紋	① 絲錐刃磨參數選擇不適合 ② 工件材料太軟 ③ 絲錐刃磨不良 ④ 切削液選擇不適合 ⑤ 攻螺紋切削速度太高 ⑥ 絲錐磨損	① 適當加大前角，減小切削錐角 ② 進行熱處理，適當提高工件硬度 ③ 保證絲錐前刀面有較細的表面粗糙度 ④ 選擇潤滑好的切削液 ⑤ 適當降低切削速度 ⑥ 更換也磨損的絲錐

以上表格參數僅供參考

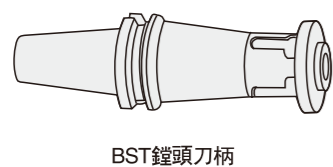


BORING TOOL Series
孔加工系列

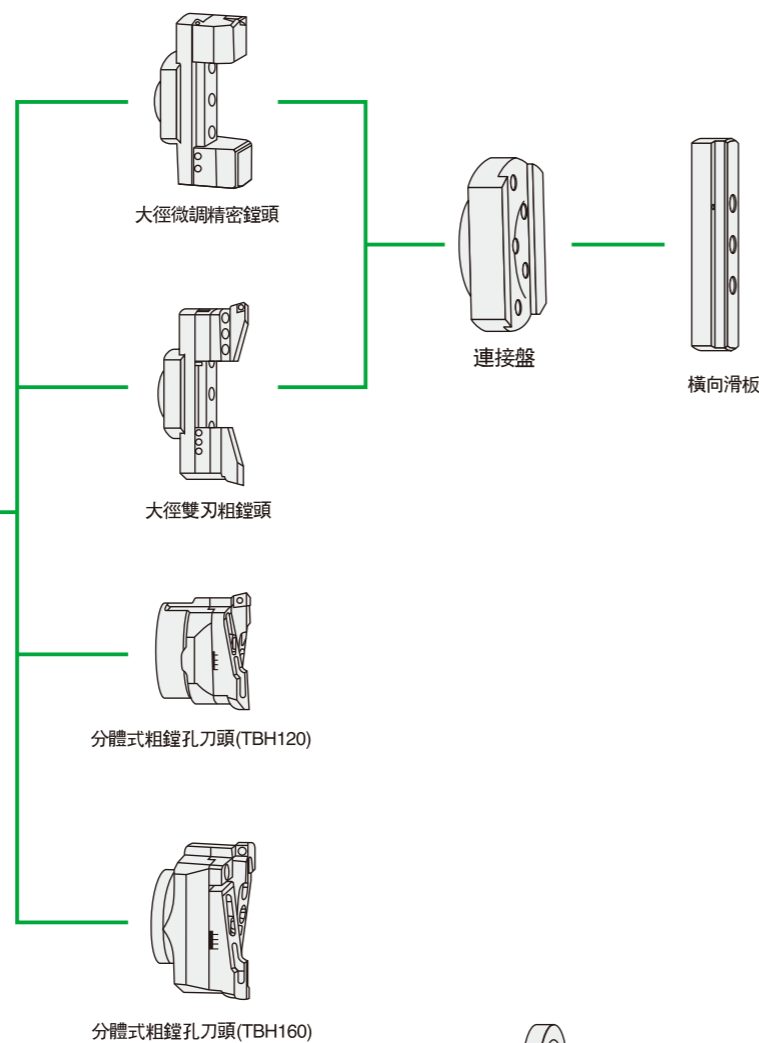
一點一滴精鑄 一絲一毫細礪



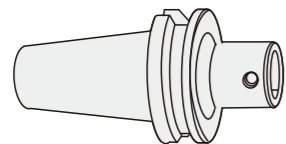
BST系列
BST BORING SYSTEM



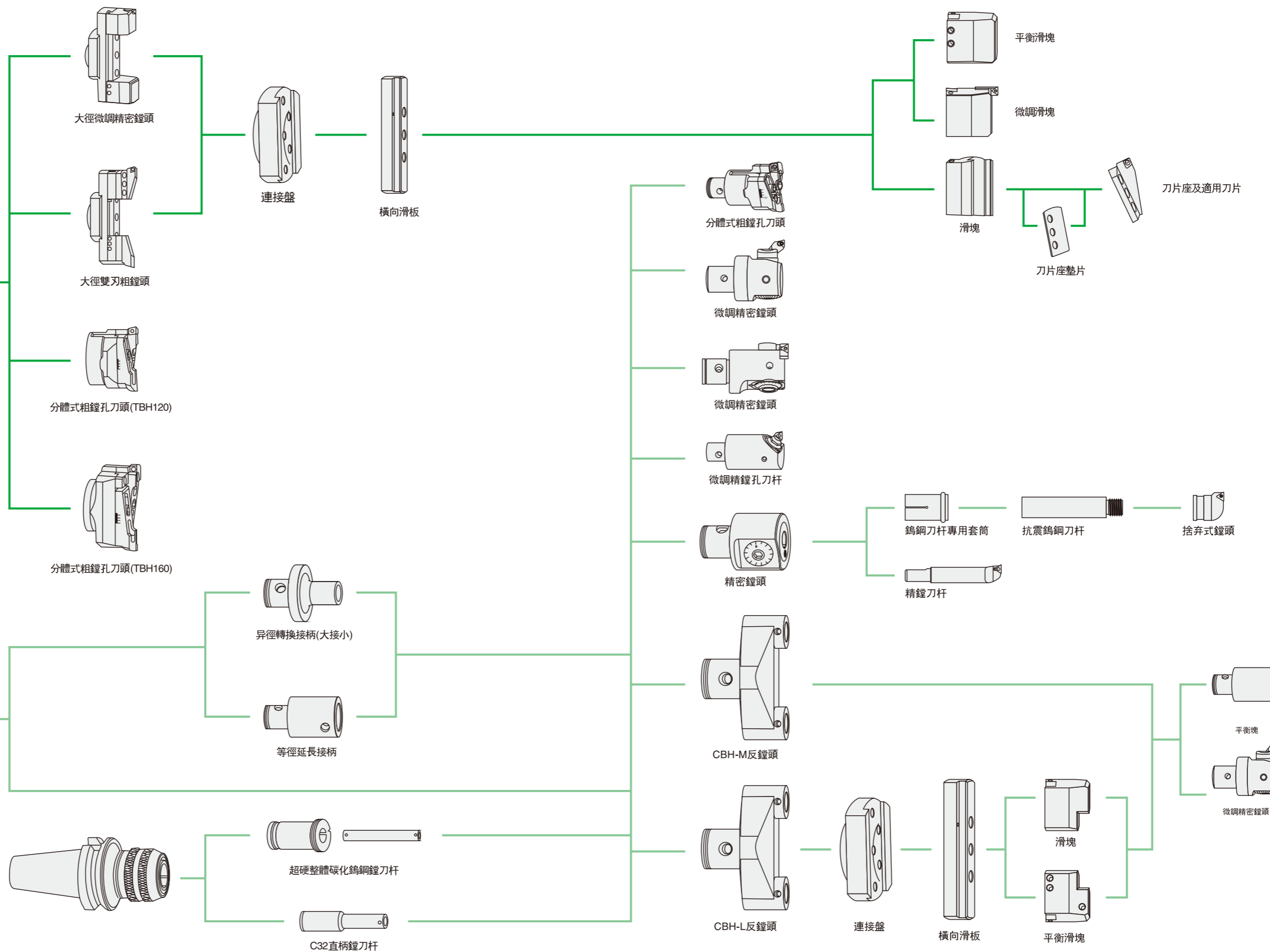
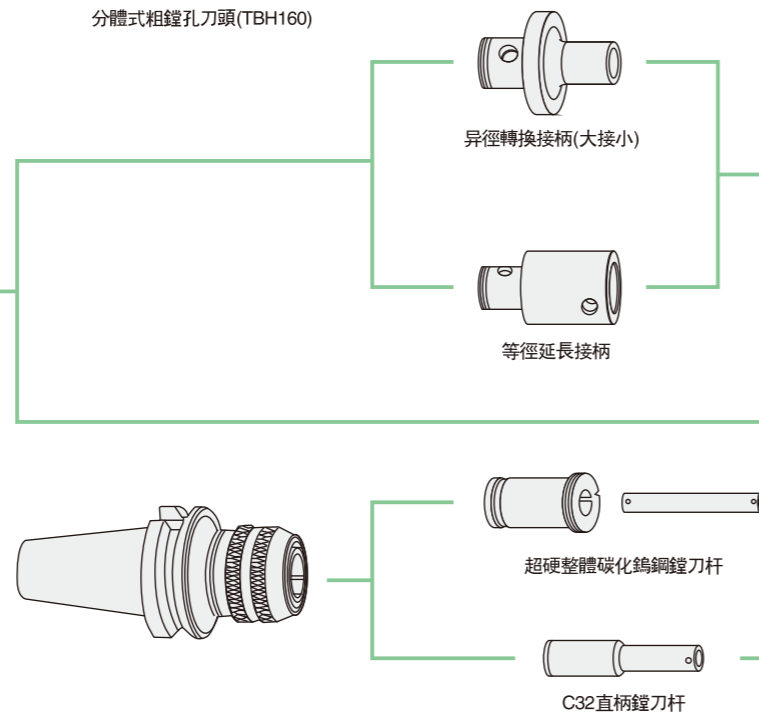
BST鏢頭刀柄



TCK系列
TCK BORING SYSTEM

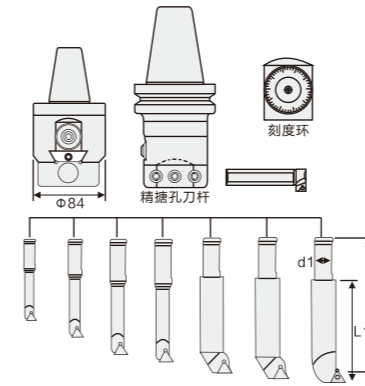


鏢頭刀柄



鏜刀目錄
CONTENTS

NBH2084 微調精鏜孔系統/套裝	82
NBJ16 微調精鏜孔系統/套裝	83
EWN 微調精密鏜頭	84
RBH 可調式雙刃粗鏜頭	85
CBH 大徑微調精密鏜頭	86
RBH 可調式大徑雙刃粗鏜頭	87
BST 鏜頭刀頭	88
BT CK型主軸柄	89
BT LBK鏜刀柄	90
CK 等徑延長接柄/異徑延長接柄	91
變徑套筒/一體式小徑焊接鈹鋼搪杆/組合式搪孔頭BE型 (搪孔範圍9~34mm)	92
CK-HB25P 極細微調精鏜孔系統/CK-HBOR32P 極細微調精鏜孔系統	93
CK-HBOR40P 極細微調精鏜孔系統	94
CK-HBOR50P 極細微調精鏜孔系統	95
CK-HBOR63P 極細微調精鏜孔系統	96
CK-HBOR63P極細微調精鏜孔系統	97
BSA 45度粗鏜孔刀柄	98
BSB 90度粗鏜孔刀柄	99
BSA 45度斜角型粗鏜頭/BSB 90度直角型粗鏜頭	100
CBS 刀夾/BSB 直角型搪頭	101
固定式粗鏜刀杆	102
固定式粗搪刀頭	103
BT錐柄規格尺寸/SK錐柄規格尺寸/CAT錐柄規格尺寸/ISO錐柄規格尺寸	104
NC 工具柄部圖	105
HSK 工具柄部圖	106



NBH2084 MICRO BORING TOOL SYSTEM
NBH2084 微調精鏜孔系統 (套裝)

型號 Specification	鏜孔範圍 Boring Range	調整精度 Turning precision	調整行程 Stroke	重量 Weight(KG)
NBH2084	Φ8~Φ280	Φ0.01mm/格	28.0mm	3.0

型號 Specification	鏜孔範圍 Boring Range	d1	L1	L	適用刀片 Applicable inserts	螺釘 Clamp screw	扳手 spanner	重量 Weight(KG)
SBJ -2008-32	8~11	20	32	80	TBGT0601..L	M2.0×5	T6	0.095
-2010-40	10~13	20	40	87	TBGT0601..L	M2.0×5	T6	0.095
-2012-53	12~17	20	53	98	TPGH0902..L	M2.5×6	T8	0.12
-2016-68	16~21	20	68	110	TPGH0902..L	M2.5×6	T8	0.16
-2020-83	20~130	20	83	123	TPGH1103..L	M3.0×7	T8	0.22
-2025-96	25~135	20	96	137	TPGH1103..L	M3.0×7	T8	0.34
-2030-115	30~140	20	115	152	TPGH1103..L	M3.0×7	T8	0.54
-2020-L	120~280	20	84+BTL1	100	TPGH1103..L	M3.0×7	T8	0.23

標準搪杆有效深度為4倍徑，孔徑20以上，加長6倍徑搪杆備有現貨，SKD61材質。

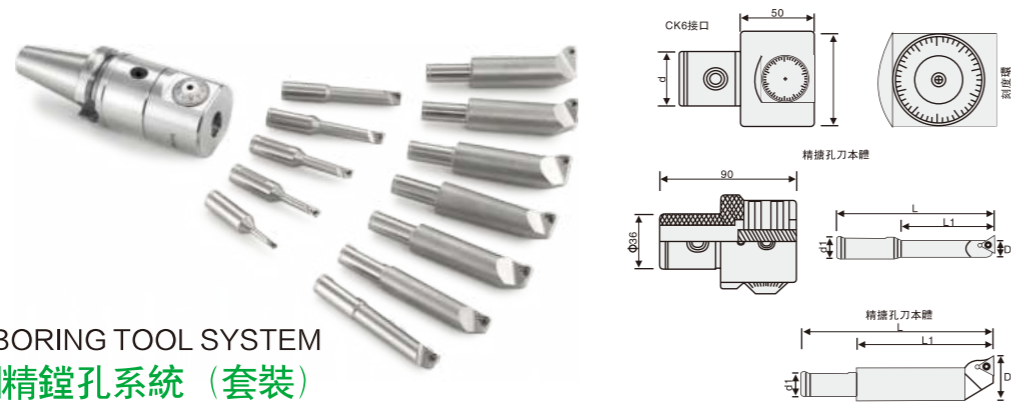
特點/Feature

1. 可調節精密鏜頭，鏜孔範圍8-280mm，每一刻度調整尺寸為0.01mm。
 2. 配備8支鏜刀杆，方便選擇不同的鏜孔範圍。
 3. 鏜孔穩定。
1. Precision adjustable boring head with boring range 8-280mm, 0.01mm for each changing dimension.
 2. 8 piece boring bar for free selection of different boring range.
 3. Stable boring.



NBH2084 微調精鏜孔系統(套裝)

型號 Specification	鏜孔範圍 Boring Range	主軸柄規格 Spindle model	鏜頭型號 Head Spec	鏜刀杆 Boring bar	重量 Weight(KG)	
BT40	NBH2084-8P	08~280	BT40-NBH-50	NBH2084	SBJ-20..	9.5
BT50	NBH2084-8P	08~280	BT50-NBH-55	NBH2084	SBJ-20..	12.0
NT40	NBH2084-8P	08~280	NT40-NBH-50	NBH2084	SBJ-20..	9.3
NT50	NBH2084-8P	08~280	NT50-NBH-55	NBH2084	SBJ-20..	10.8
SK40	NBH2084-8P	08~280	SK40-NBH-50	NBH2084	SBJ-20..	9.5
SK50	NBH2084-8P	08~280	SK50-NBH-55	NBH2084	SBJ-20..	12.0
R8	NBH2084-8P	08~280	R8-NBH-50	NBH2084	SBJ-20..	10.0

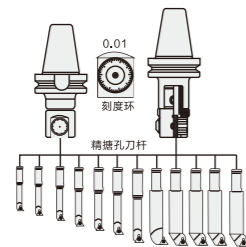


NBJ16 MICRO BORING TOOL SYSTEM
NBJ16 微調精鏜孔系統 (套裝)

型號	鏜孔範圍	調整精度	調整行程	重量
Specification	Boring Range	Turning precision	Stroke	Weight(KG)
SBJ16	φ6~φ51	φ0.01mm/格	6.0mm	1.2

型號	鏜孔範圍	尺寸 Size	適用刀片	螺釘	扳手	重量
Specification	Boring Range	d1 L1 L	Applicable inserts	Clamp screw	spanner	Weight(KG)
SBJ	-1606-24 *	6~9 16 24 73	WBG0601..L	M2.0×4	T6	0.014
	-1608-32	8~11 16 32 80	TBGT0601..L	M2.0×5	T6	0.077
	-1610-40	10~13 16 40 87	TBGT0601..L	M2.0×5	T6	0.082
	-1612-53	12~15 16 53 98	TPGH0902..L	M2.5×6	T8	0.095
	-1614-60 *	14~17 16 60 103	TPGH0902..L	M2.5×6	T8	0.101
	-1616-68	16~21 16 68 110	TPGH0902..L	M2.5×6	T8	0.143
	-1620-83	20~26 16 83 125	TPGH1103..L	M3.0×7	T8	0.203
	-1625-90	25~31 16 90 128	TPGH1103..L	M3.0×7	T8	0.275
	-1630-90	30~36 16 90 128	TPGH1103..L	M3.0×7	T8	0.275
	-1635-90 *	35~41 16 90 128	TPGH1103..L	M3.0×7	T8	0.280
	-1640-90	40~46 16 90 128	TPGH1103..L	M3.0×7	T8	0.280
	-1645-90 *	45~51 16 90 128	TPGH1103..L	M3.0×7	T8	0.211

注：帶有星號規格的鏜杆不在8支杆套裝的範圍內。

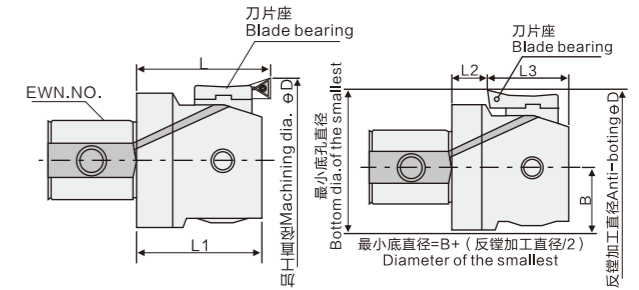


NBJ16 MICRO BORING TOOL SYSTEM
NBJ16 微調精鏜孔系統 (套裝)

型號	鏜孔範圍	主軸柄規格	鏜頭型號	鏜刀杆	重量
Specification	Boring Range	Spindle handle models	Head NO	Bar keep out	Weight(KG)
BT40	NBJ16-12P	6~51	BT40-CK6-55	NBJ16	9.1
BT50	NBJ16-12P	6~51	BT50-CK6-65	NBJ16	11.7
NT40	NBJ16-12P	6~51	NT40-CK6-55	NBJ16	8.5
NT50	NBJ16-12P	6~51	NT50-CK6-65	NBJ16	10.3
SK40	NBJ16-12P	6~51	SK40-CK6-55	NBJ16	8.9
SK50	NBJ16-12P	6~51	SK50-CK6-65	NBJ16	10.5

特點/Feature

1. 可調節精密鏜頭，鏜孔範圍6-51mm，每一刻度調整尺寸為0.01mm。
2. 配備8支鏜刀杆，方便選擇不同的鏜孔範圍。
3. 鏜孔穩定。



EWN MICRO BORING HEAD
EWN 微調精密鏜頭

型號	正鏜Boring			反鏜Counter boring			組合刀柄	刀片座	刀片	螺絲	扳手	重量		
	Specification	L1	L	範圍Range	B	L2							L3	範圍Range
CK LBK	EWN20-36	29.5	32.5	20-26 25-31 30-36	10	10.5	19	- - 30-36	CK1 LBK1	ENH1-1 ENH1-2 ENH1-3	TPGH080202	M2.2	T6	0.07
	EWN25-47	32.5	35.5	25-33 32-40 39-47	12.5	11.5	21	- 36-40 39-47	CK2 LBK2	ENH2-1 ENH2-2 ENH2-3	TPGH080202	M2.2	T6	0.12
	EWN32-60	35	40	32-42 41-51 50-60	16	10	25	- 46-51 50-60	CK3 LBK3	ENH3-1 ENH3-2 ENH3-3	TPGH080202	M2.2	T6	0.21
	EWN41-74	43	47	41-54 50-63 61-74	20	14	29	- 53-63 61-74	CK4 LBK4	ENH4-1 ENH4-2 ENH4-3	TCMT110204	M2.5	T8	0.40
	EWN53-95	53	57	53-70 65-82 78-95	25.5	19	34	53-70 65-82 78-95	CK5 LBK5	ENH5-1 ENH5-2 ENH5-3	TCMT110204	M2.5	T8	1.10
	EWN68-150	67.2	71	68-100 94-126 118-150	32.5	22	45.2	80-100 94-126 118-150	CK6 LBK6	ENH6-1 ENH6-2 ENH6-3	TCMT110204	M2.5	T8	1.47
	EWN100-203	67.2	71	100-153 126-179 150-203	45.5	22	45.2	112-153 126-179 150-203	CK6 LBK6	ENH6-1 ENH6-2 ENH6-3	TCMT110204	M2.5	T8	2.46

型號	形狀圖	對應鏜頭	型號	形狀圖	對應鏜頭	型號	形狀圖	對應鏜頭
Specification	Drawing of shape	Boring head	Specification	Drawing of shape	Boring head	Specification	Drawing of shape	Boring head
EWN	1-1 1-2 1-3	SCK1-EWN20-36	4-1 4-2 4-3		SCK4-EWN41-74	4-1 4-2 4-3		SCK4-EWN41-74
	2-1 2-2 2-3	SCK2-EWN25-47	5-1 5-2 5-3		SCK5-EWN53-95	5-1 5-2 5-3		SCK5-EWN53-95
	3-1 3-2 3-3	SCK3-EWN32-60	6-1 6-2 6-3		SCK6-EWN68-150 SCK6-EWN100-203	6-1 6-2 6-3		SCK6-EWN68-150 SCK6-EWN100-203

特點/Feature

1. 用于精鏜孔，鏜孔範圍20-203mm，每一刻度調整尺寸為0.01mm。
2. 中心內冷，加工中刀尖直接冷卻，刀片壽命長。
3. 動平衡結構，鏜孔精密穩定。



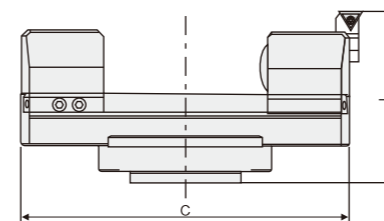
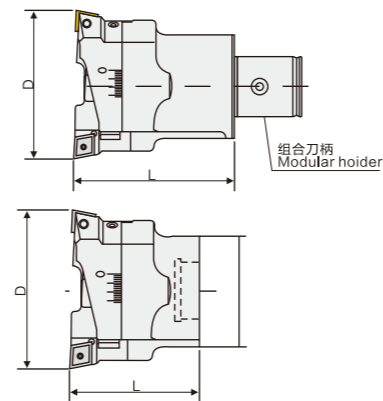
RBH ADJUSTABLE ROUGH BORING HEAD

RBH 可調式雙刃粗鏜頭

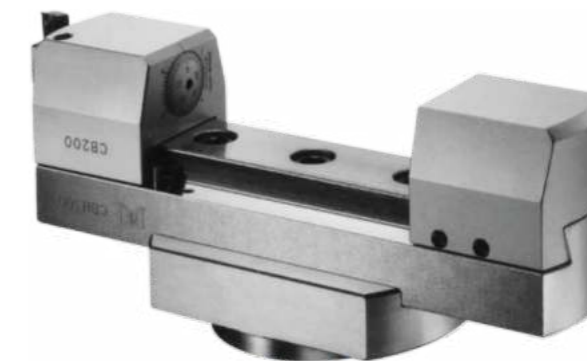
	型號 Specification	圖示 Figure	外形尺寸(mm) Size		鏜孔範圍 Boring range D	組合刀柄 Modular holder	刀片型號 Insert	螺絲 Screw	扳手 Wrench	重量 Weight
LBK	RBH19-25-C	A	19	40	19-25	LBK1	CCMT0602	M2.5	T8	0.10
	RBH25-33-C	A	24	45	25-33	LBK2	CCMT0602	M2.5	T8	0.15
	RBH32-42-C	A	31	55	32-42	LBK3	CCMT0602	M2.5	T8	0.30
	RBH40-55-C	A	39	65	40-55	LBK4	CCMT09T3	M4	T15	0.50
	RBH52-70-C	A	50	75	52-70	LBK5	CCMT09T3	M4	T15	1.00
	RBH68-92-C	A	64	85	68-92	LBK6	CCMT1204	M5	T20	2.00
BST	RBH90-122-C	A	64	100	90-122	LBK6	CCMT1204	M5	T20	2.90
	RBH120-164-C	B	95	95	120-164	BST	CCMT1204	M5	T20	3.80
	RBH160-204-C	B	95	95	160-204	BST	CCMT1204	M5	T20	4.80

特點/Feature

- 1、可調節粗鏜頭，鏜孔範圍19-204mm。
- 2、結構簡單，剛性強，適用於各種鏜孔作業。
- 1、Adjustable rough boring head with boring range 19-204mm.
- 2、Simple modular structure, high boring rigidity for universal boring process.



鏜孔範圍200-910mm組合系列



MODULAR BORING CUTTER

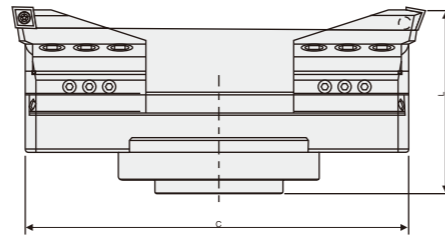
CBH 大徑微調精密鏜頭

	型號 Specification	外形尺寸 (mm) Size		鏜孔範圍 Boring range	組合刀柄 Modular holder	刀片型號 Insert	螺絲 Screw	扳手 Wrench	重量 Total weight
BST	CBH200310	180	130	200-310	BST	TPGH090204 TCMT110204	M2.5	T8	9.7
	CBH300410	280	130	300-410	BST				11.7
	CBH400510	380	130	400-510	BST				13.7
	CBH500610	480	130	500-610	BST				15.7
	CBH600710	580	130	600-710	BST				17.7
	CBH700810	680	130	700-810	BST				19.7
	CBH800910	780	130	800-910	BST				21.7

型號 Specification	組合形式 Module	刀片型號 Insert	重量 Total weight
BT50-BST系列Series	組合刀柄 Module holder		
BST-FI200	连接盘 Flange		2.7
DST200 DST300 DST400 DST500 DST600 DST700 DST800	橫向滑板 Extension Slide		3.4 5.4 7.4 9.4 11.4 13.4 15.4
DBN300	平衡滑块 Balance Weight		1.6
CB200	微調滑块 Finsert Head		1.6

適用刀片 Suit insert

TPGH080202/M2.2/T7,TPGH090204/M2.5/T8,TCMT110204/M2.5/T8,TPGH110304M/3/T15



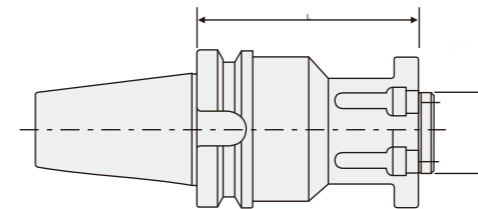
MODULAR BORING CUTTER

RBH 可調試大徑雙刃粗鏜頭

鏜孔範圍 ϕ 200- ϕ 900mm組合系列

型號 Specification	外形尺寸 (mm) Size		鏜孔範圍 Boring range	組合刀柄 Modular holder	刀片型號 Insert	螺絲 Screw	扳手 Wrench	整組重量 Total weight
	C	L						
RBH200310	180	130	200-310	BST	(选配刀片座) DB200-C12 DB200-T16 DB200-T22 DB200-S12	M5	T20	9.7
RBH300410	280	130	300-410	BST		M5	T20	11.7
RBH400510	380	130	400-510	BST		M5	T20	13.7
RBH500610	480	130	500-610	BST		M5	T20	15.7
RBH600710	580	130	600-710	BST		M5	T20	17.7
RBH700810	680	130	700-810	BST		M5	T20	19.7
RBH800910	780	130	800-910	BST		M5	T20	21.7

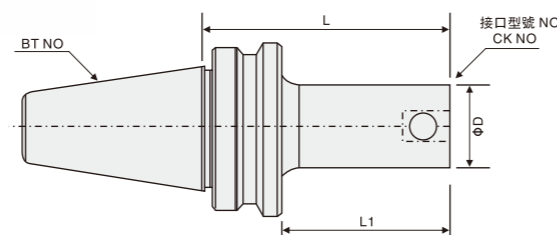
型號 Specification	組合形式 Module	刀片型號 Insert	重量 Total weight
BT50-BST系列Series	組合刀柄 Module holder		
BST-BR200	连接盘 Flange		2.7
RST200 RST300 RST400 RST500 RST600 RST700 RST800	橫向滑板 Extension Slide		3.4 5.4 7.4 9.4 11.4 13.4 15.4
RS200	滑块 Clamp Base		0.98
RS201	刀片座垫片 Height Setting Shim		0.05
RB200-C12 RB200-T16 RB200-T22 RB200-S12	刀片座及适用刀片 Insert Setting and applicable insert		0.68



BST 鏜頭刀頭

型號 Specification	外形尺寸 (mm) Size		重量 Weight	
	D	L		
BT40	BST-70	50	70	3.2
	BST-100	50	100	4.0
BT50	BST-100	50	100	5.10
	BST-150	50	150	6.8
	BST-200	50	200	9.6
	BST-250	50	250	11.5
	BST-300	50	300	14.4
	BST-350	50	350	16.8
	BST-400	50	400	19.3

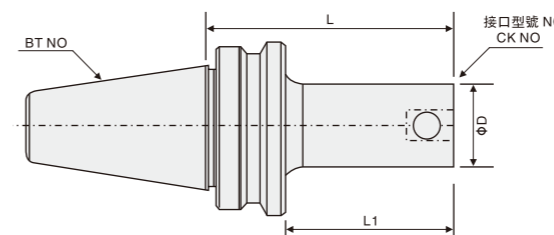
BST粗精鏜孔刀頭基礎柄系列 (鏜孔範圍>200)



MODULAR BORING CUTTER

BT CK型主軸柄

	型號 Specification	接口型號 CK NO	尺寸 Size			螺釘 Clamp screw	Fig.	重量 Weight(KG)
			L	L1	D			
BT30	CK1-70	CK1	70	45	19	CKM1	1	0.47
	CK2-80	CK2	80	55	24	CKM2	1	0.48
	CK3-80	CK3	80	55	31	CKM3	1	0.48
	CK4-60	CK4	60	36	39	CKM4	1	0.56
	CK5-60	CK5	60	38	49	CKM5	1	0.67
BT40	CK1-75	CK1	75	45	19	CKM1	1	1.06
	CK1-115	CK1	115	85	19	CKM1	1	1.09
	CK2-85	CK2	85	55	24	CKM2	1	1.07
	CK2-120	CK2	120	90	24	CKM2	1	1.15
	CK3-95	CK3	95	65	31	CKM3	1	1.24
	CK3-145	CK3	145	115	31	CKM3	1	1.41
	CK4-85	CK4	85	50	39	CKM4	1	1.15
	CK4-135	CK4	135	105	39	CKM4	1	2.03
	CK5-105	CK5	105	75	49	CKM5	1	1.78
	CK5-165	CK5	165	135	49	CKM5	1	3.30
	CK6-65	CK6	65	35	62	CKM6	1	1.37
BT50	CK6-115	CK6	115	85	62	CKM6	1	2.16
	CK6-165	CK6	165	135	62	CKM6	1	2.91
	CK7-90	CK7	90	63	83	CKM7	1	2.66
	CK1-115	CK1	115	40	19	CKM1	1	3.76
	CK1-145	CK1	145	70	19	CKM1	1	3.88
	CK2-110	CK2	110	80	24	CKM2	1	3.81
	CK2-140	CK2	140	110	24	CKM2	1	4.05
	CK3-135	CK3	135	90	31	CKM3	1	3.86
	CK3-175	CK3	175	130	31	CKM3	1	4.14
	CK4-125	CK4	125	85	39	CKM4	1	4.05
	CK4-185	CK4	185	145	39	CKM4	1	4.57
	CK5-140	CK5	140	100	49	CKM5	1	4.16
	CK5-210	CK5	210	170	49	CKM5	1	5.60
	CK6-95	CK6	95	55	62	CKM6	1	4.45
	CK6-170	CK6	150	110	62	CKM6	1	5.69
	CK6-230	CK6	230	190	62	CKM6	1	6.11
	CK7-105	CK7	105	65	83	CKM7	1	5.34
CK7-185	CK7	185	145	83	CKM7	1	8.89	
CK7-250	CK7	250	210	83	CKM7	1	10.25	

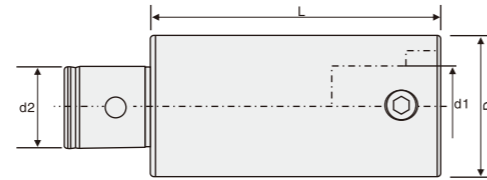


BT LBK BORING TOOL HOLDER
BT LBK鏜刀柄

	型號 Specification	接口型號 CK NO	尺寸 Size			Fig.	重量 Weight(KG)
			L	L1	D		
BT30	LBK1-70	LBK1	70	50	19	1	0.6
	LBK2-80	LBK2	80	60	24	1	0.8
	LBK3-80	LBK3	80	60	31	1	1.0
	LBK4-70	LBK4	70	50	39	1	1.3
	LBK5-60	LBK5	60	40	50	1	1.8
	LBK6-60	LBK6	60	40	64	1	3.0
BT40	LBK1-75	LBK1	75	50	19	1	1.1
	LBK1-105	LBK1	105	80	19	1	1.3
	LBK2-85	LBK2	85	60	24	1	1.3
	LBK2-115	LBK2	115	95	24	1	1.6
	LBK3-95	LBK3	95	70	31	1	1.5
	LBK3-125	LBK3	125	100	31	1	1.8
	LBK3-155	LBK3	155	130	31	1	2.0
	LBK4-85	LBK4	85	60	39	1	1.8
	LBK4-130	LBK4	130	105	39	1	2.4
	LBK4-175	LBK4	175	150	39	1	2.7
	LBK5-75	LBK5	75	50	50	1	2.3
	LBK5-125	LBK5	125	100	50	1	3.3
	LBK5-175	LBK5	175	150	50	1	4.0
	LBK6-65	LBK6	65	40	64	1	3.3
	LBK6-115	LBK6	115	95	64	1	4.7
LBK6-165	LBK6	165	140	64	1	5.9	
BT50	LBK1-115	LBK1	115	80	19	1	4.2
	LBK1-145	LBK1	145	110	19	1	5.6
	LBK2-110	LBK2	110	75	24	1	6.8
	LBK2-140	LBK2	140	105	24	1	5.5
	LBK3-125	LBK3	125	90	31	1	6.9
	LBK3-155	LBK3	155	115	31	1	8.1
	LBK4-115	LBK4	115	80	39	1	4.1
	LBK4-145	LBK4	145	110	39	1	4.2
	LBK4-175	LBK4	175	140	39	1	4.1
	LBK4-205	LBK4	205	170	39	1	4.2
	LBK5-105	LBK5	105	70	50	1	4.4
	LBK5-180	LBK5	180	145	50	1	4.5
	LBK5-240	LBK5	140	205	50	1	4.8
	LBK6-95	LBK6	95	60	64	1	4.9
LBK6-170	LBK6	170	135	64	1	5.3	
LBK6-230	LBK6	230	195	64	1	5.4	
LBK6-290	LBK6	290	255	64	1	5.5	
LBK6-350	LBK6	350	315	64	1	6.5	

特點/Feature

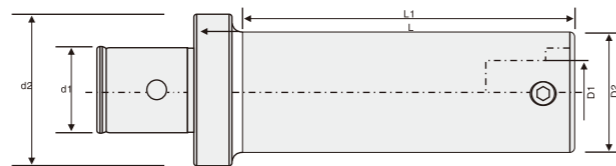
- 1、刀柄本體精密加工，確保穩定跳動。2、刀柄與鏜頭有貼合的接觸面，穩定的震動精度，提高加工表面精度。
- 1、Tool body is finish machined for stable run-out accuracy.
- 2、Covering interface between tool holder and boring head, precision vibration enhances machining surface roughness.



MODULAR BORING CUTTER

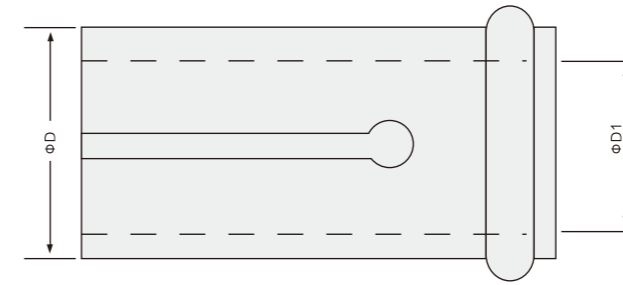
LBK 等徑延長接柄

	型號		尺寸 Size				重量
	Specification	D	d1	d2	L	Weight	
LBK1	1-30	19	11	11	30	0.07	
LBK2	2-30	24	14	14	30	0.1	
LBK3	3-30	31	18	18	30	0.15	
LBK4	4-45	39	22	22	45	0.4	
	4-60	39	22	22	60	0.4	
LBK5	5-60	49	28	28	60	0.8	
	5-90	49	28	28	90	1.1	
LBK6	6-60	62	36	36	60	1.4	
	6-100	62	36	36	100	1.8	



CK 异徑延長接柄

	型號		尺寸 Size						重量
	Specification	D1	D2	d1	d2	L1	L	Weight	
CK2	1-36	11	19	14	-	30	36	0.1	
CK3	2-37	14	24	18	31	25	37	0.15	
CK4	3-50	18	31	22	39	37	50	0.35	
CK5	4-67	22	39	28	49	50	67	0.7	
CK6	4-51	22	39	36	62	35	51	0.85	
	4-101	22	39	36	62	85	101	1.3	
	5-41	28	50	36	62	25	41	0.85	
	5-91	28	50	36	62	75	91	1.45	



SIMPLE TYPE BORING

變徑套筒

	型號	外徑D2	內徑D1	適用鑄鋼刀杆
	Specification	(mm)	(mm)	Applicable Carbide Tool Holder
NBH16	160548	16	5	ST05
	160648	16	6	ST06
	160848	16	8	ST08

	型號	外徑D2	內徑D1	適用鑄鋼刀杆
	Specification	(mm)	(mm)	Applicable Carbide Tool Holder
NBH2084	200547	20	5	ST05
	200647	20	6	ST06
	200847	20	8	ST08

其他內徑規格可定制。



	型號	全長L	柄徑D	接合牙M	適用搪孔頭	適用套筒
	Specification	(mm)	(mm)	(mm)	Applicable Carbide Tool Holder	Applicable Bushing
ST08	W5-100L	100	08	M5	BE09A, BE10.5A	NBJ16-160848, NBH2084-200847
ST010	W6-140L	140	10	M6	BE12A	C2010, C1610
ST012	W6-156L	156	12	M6	BE14A, BE16A	C2012, C1612
ST016	W10-186L	186	16	M10	BE16A	C2016
					BE18A, BE20A, BE22A, BE24A, BE26A, BE28A, BE30A	

其他內徑規格可定制。

一體式小徑焊接鑄鋼搪杆

	型號	柄徑D	適用套筒
	Specification	(mm)	Applicable Bushing
C0590	WB0608-8D	90	NBJ16-160548, NBH2084-200547
C0698	TB7510-8D	98	NBJ16-160648, NBH2084-200647
C08115	TB0912-8D	115	NBJ16-160848, NBH2084-200847

其他內徑規格可定制。

組合式搪孔頭BE型 (搪孔範圍9~34mm)

	圖示	型號	d	H	L	M	刀片	螺絲	扳手
	Figure	Specification	(mm)	(mm)	(mm)	(mm)	Insert	Clamp Screw	Wrench
ST08 ST010 ST012 ST016		BE09A	9	7	18	M5	TB**06**	M2.0 × 5 × D2.85	T6
		BE10.5A	10.5	7	18	M5	TB**06**	M2.0 × 5 × D2.85	T6
		BE12A	12	8	23	M6	TP**08**	M2.2 × 5 × D3.0	T7
		BE14A	14	10	23	M6	TP**08**	M2.2 × 5 × D3.0	T7
		BE16A	16	10	23	M6	TP**08**	M2.2 × 5 × D3.0	T7
		BE18A	18	14	27	M10	TP**08**	M2.2 × 5 × D3.0	T7
		BE20A	20	14	27	M10	TP**09**	M2.5 × 6 × D3.5	T8
		BE22A	22	14	27	M10	TP**09**	M2.5 × 6 × D3.5	T8
		BE24A	24	14	27	M10	TP**09**	M2.5 × 6 × D3.5	T8
		BE26A	26	14	27	M10	TP**09**	M2.5 × 6 × D3.5	T8
BE28A	28	14	27	M10	TP**09**	M2.5 × 6 × D3.5	T8		
BE30A	30	14	27	M10	TP**09**	M2.5 × 6 × D3.5	T8		

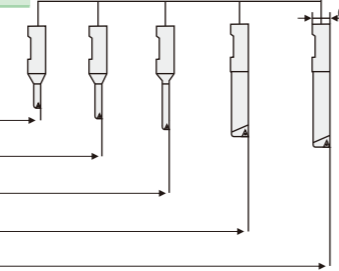
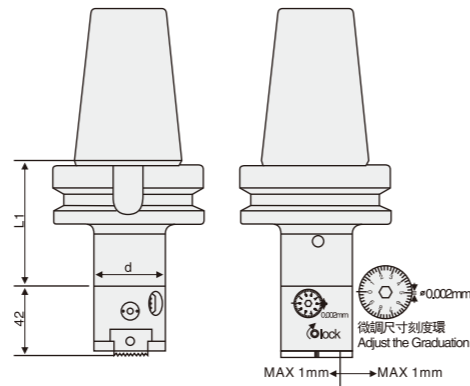
其他內徑規格可定制。



MODULAR BORING CUTTER
CK-HBOR25P 極細微調精鏜孔系統

	型號 Specification	外形尺寸(mm)Size L1	鏜孔範圍 Boring range	組合刀柄 Modular holder	重量 weight
BT30	-HBOR25P	80	2-7	BT30-CK2-80	0.70
BT40	-HBOR25P	85	2-7	BT40-CK2-85	1.30

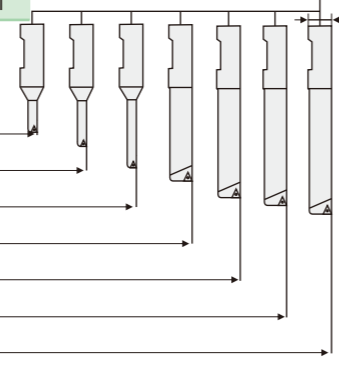
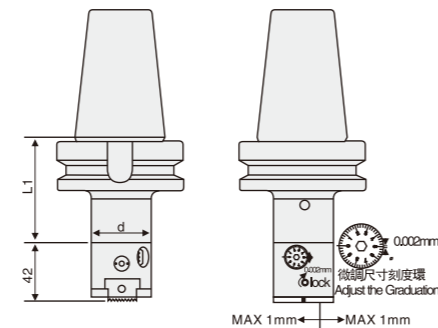
精鏜孔刀桿 Cutting bar	鏜孔範圍 Boring range	深度 DM	重量 weight
CA0602-09	2-3.2	9	0.01
CA0603-16	3-4.2	16	0.01
CA0604-22	4-5.2	22	0.02
CA0605-27	5-6.2	27	0.02
CA0606-32	6-7.2	32	0.02



CK-HBOR32P 極細微調精鏜孔系統

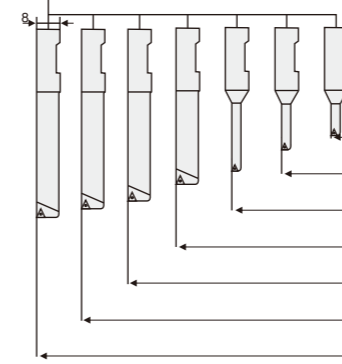
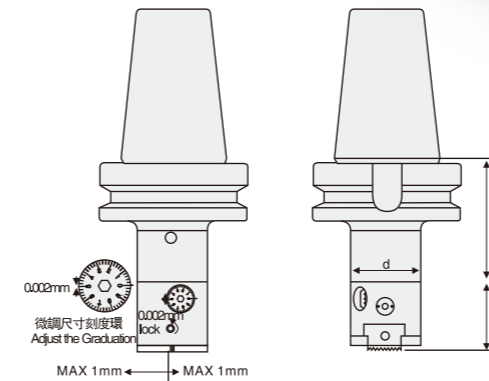
	型號 Specification	外形尺寸(mm)Size L1	鏜孔範圍 Boring range	組合刀柄 Modular holder	重量 weight
BT30	-HBOR32P	80	2-9	BT30-CK3-80	1.02
BT40	-HBOR32P	95	2-9	BT40-CK3-95	1.61

精鏜孔刀桿 Cutting bar	鏜孔範圍 Boring range	深度 DM	重量 weight
CA0802-9	2-3.2	9	0.03
CA0803-16	3-4.2	16	0.03
CA0804-22	4-5.2	22	0.03
CA0805-27	5-6.2	27	0.04
CA0806-32	6-7.2	32	0.04
CA0807-37	7-8.2	37	0.04
CA0808-42	8-9.2	42	0.05



MODULAR BORING CUTTER
CK-HBOR40P 極細微調精鏜孔系統

	型號 Specification	外形尺寸(mm)Size L1	鏜孔範圍 Boring range	組合刀柄 Modular holder	重量 weight
BT30	-HBOR40P	70	2-9	BT30-CK4-70	1.21
BT40	-HBOR40P	85	2-9	BT40-CK4-85	1.61



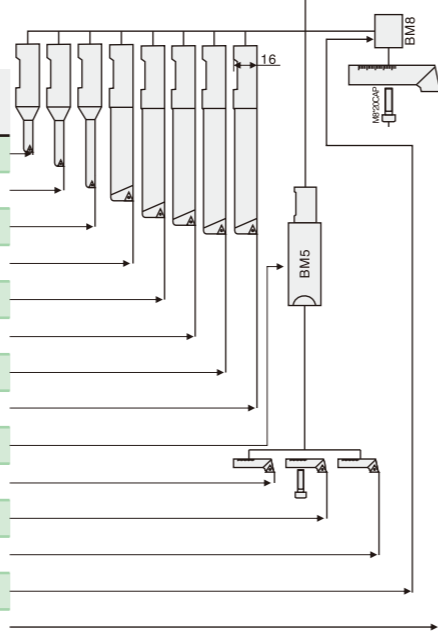
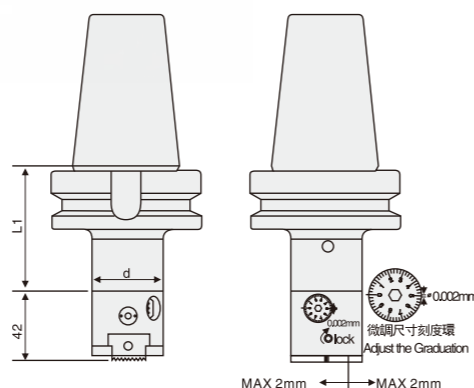
精鏜孔刀桿 Cutting bar	鏜孔範圍 Boring range	深度 DM	重量 weight
CA0802-09	2-3.2	9	0.03
CA0803-16	3-4.2	16	0.03
CA0804-22	4-5.2	22	0.03
CA0805-27	5-6.2	27	0.04
CA0806-32	6-7.2	32	0.04
CA0807-37	7-8.2	37	0.04
CA0808-42	8-9.2	42	0.05



CK-HBOR50P 極細微調精鏜孔系統

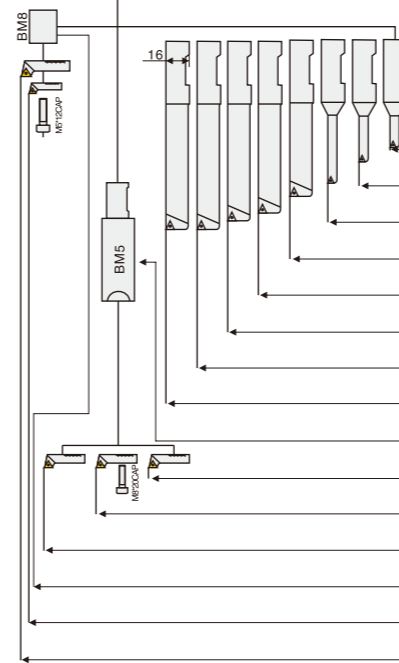
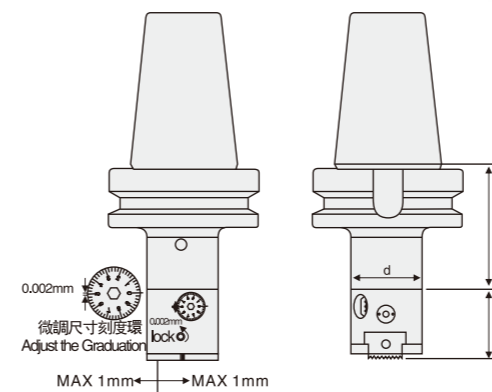
	型號 Specification	外形尺寸(mm) L1	鏜孔範圍 Boring range	組合刀柄 Modular holder	重量 weight
BT30	-HBOR50P	60	6-90	BT30-CK5-60	8.2
BT40	-HBOR50P	75	6-90	BT40-CK5-75	10.8
BT50	-HBOR50P	105	6-90	BT40-CK5-105	11.3

精鏜孔刀桿 Cutting bar	鏜孔範圍 Boring range	深度 L	刀片 Insert	螺絲 Screw	扳手 Wrench	重量 weight
BR1606-21	6-9	21	WBGTO601..L	M2	T6	0.04
BR1608-28	8-11	28	TBGT0601..L	M2	T6	0.04
BR1610-35	10-13	35	TBGT0601..L	M2	T6	0.05
BR1612-42	12-15	42	TPGH0902..L	M2.5	T8	0.06
BR1614-50	14-17	50	TPGH0902..L	M2.5	T8	0.07
BR1616-60	16-20	60	TPGH0902..L	M2.5	T8	0.09
BR1620-65	20-24	65	TPGH1103..L	M3	T8	0.11
BR1624-68	24-28	68	TPGH1103..L	M3	T8	0.12
BM5		60+SRTP2938 or SRTP3652 or SRTP4468		M5*15	L4	0.25
SRTP2938	29-38	+10	TPGH0902..L	M2.5	T8	0.01
SRTP3652	36-52	+12	TPGH0902..L	M2.5	T8	0.02
SRTP4468	44-68	+12	TPGH0902..L	M2.5	T8	0.03
BM8			+SRTP5790	M8*20	L6	0.03
SRTP5790	57-90	+20	TPGH1103..L	M3	T8	0.10

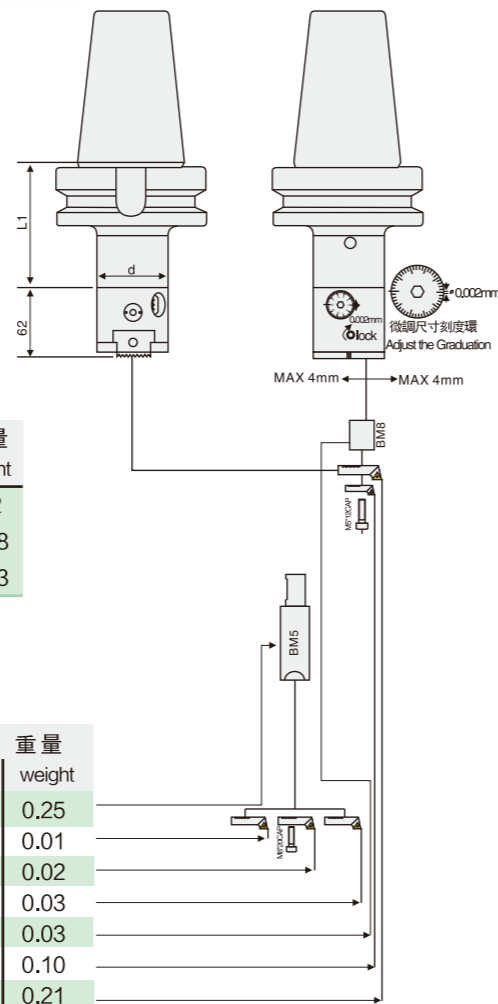


**MODULAR BORING CUTTER
CK-HBOR63P 極細微調精鏜孔系統**

	型號 Specification	外形尺寸(mm) L1	鏜孔範圍 Boring range	組合刀柄 Modular holder	重量 weight
BT30	-HBOR63P	60	6-150	BT40-CK6-60	8.2
BT40	-HBOR63P	65	6-150	BT50-CK6-65	10.8
BT50	-HBOR63P	95	6-150	BT50-CK6-95	11.3



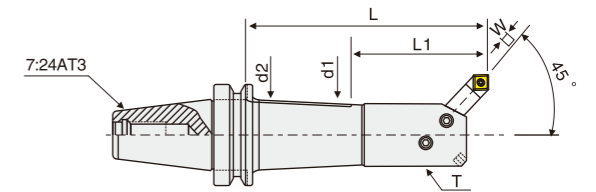
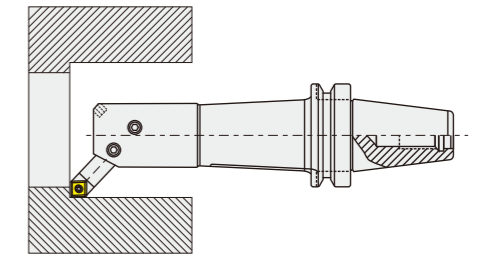
精鏜孔刀桿 Cutting bar	鏜孔範圍 Boring range	深度 L	刀片 Insert	螺絲 Screw	扳手 Wrench	重量 weight
BR1606-21	6-9	21	WBGTO601..L	M2	T6	0.04
BR1608-28	8-11	28	TBGT0601..L	M2	T6	0.04
BR1610-35	10-13	35	TBGT0601..L	M2	T6	0.05
BR1612-42	12-15	42	TPGH0902..L	M2.5	T8	0.06
BR1614-50	14-17	50	TPGH0902..L	M2.5	T8	0.07
BR1616-60	16-20	60	TPGH0902..L	M2.5	T8	0.09
BR1620-65	20-24	65	TPGH1103..L	M3	T8	0.11
BR1624-68	24-28	68	TPGH1103..L	M3	T8	0.12
BM5		60+SRTP2938 or SRTP3652 or SRTP4468		M5*12	L4	0.25
SRTP2938	29-38	+10	TPGH0902..L	M2.5	T8	0.01
SRTP3652	36-52	+12	TPGH0902..L	M2.5	T8	0.02
SRTP4468	44-68	+12	TPGH0902..L	M2.5	T8	0.03
BM8			+SRTP5790	M8*20	L6	0.03
SRTP70110	70-110	+20	TPGH1103..L	M3	T8	0.10
SRTP110150	110-150	+20	TPGH1103..L	M3	T8	0.21



CK-HBOR63P 極細微調精鏜孔系統

	型號 Specification	外形尺寸 (mm) Size L1	鏜孔範圍 Boring range	組合刀柄 Modular holder	重量 weight
BT30	-HBOR63P	60	29-150	BT40-CK6-60	8.2
BT40	-HBOR63P	65	29-150	BT50-CK6-65	10.8
BT50	-HBOR63P	95	29-150	BT50-CK6-95	11.3

精鏜孔刀桿 Cutting bar	鏜孔範圍 Boring range	深度 L	刀片 Insert	螺絲 Screw	扳手 Wrench	重量 weight
BM5		60+SRTP2938 or SRTP3652 or SRTP4468		M5*12	L4	0.25
SRTP2938	29-38	+10	TPGH0902..L	M2.5	T8	0.01
SRTP3652	36-52	+12	TPGH0902..L	M2.5	T8	0.02
SRTP4468	44-68	+12	TPGH0902..L	M2.5	T8	0.03
BM8		+SRTP70110 or SRTP110150		M8*20	L6	0.03
SRTP70110	70-110	+20	TPGH1103..L	M3	T8	0.10
SRTP110150	110-150	+20	TPGH1103..L	M3	T8	0.21

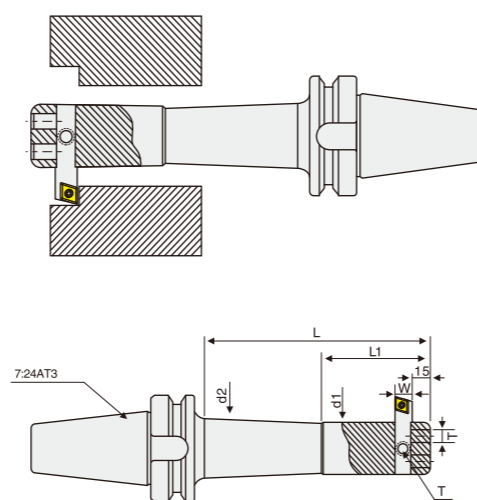


BSA45° ROUGHING BORING BAR
BSA 45度粗鏜孔刀柄

	型號 Specification	尺寸 Size				鏜孔範圍 Boring range	螺絲 Screw	重量 weight
		d1	d2	L1	L			
BT40	BSA25-120	20	22	35	90	25-38	SM6	1.3
	BSA30-150	24	26	40	120	30-42	SM6	1.5
	BSA38-165	30	33	50	135	38-52	SM8	1.8
	BSA42-165	34	37	50	135	42-56	SM8	2.1
	BSA50-165	40	44	65	135	50-65	SM8	2.4
	BSA62-180	50	56	80	150	62-90	SM10	2.5
	BSA72-180	60	-	95	150	72-110	SM10	4.0
BSA90-180	75	-	-	150	90-125	SM10	5.3	
BT50	BSA25-135	20	22	35	92	25-38	SM6	4.3
	BSA30-165	24	26	40	122	30-42	SM6	4.5
	BSA38-180	30	33	50	137	38-52	SM8	4.9
	BSA42-210	34	37	60	167	42-56	SM8	5.1
	BSA50-180	40	44	65	137	50-65	SM10	5.5
	BSA50-240	40	44	65	197	50-65	SM10	5.8
	BSA62-195	50	56	80	152	62-90	SM10	6.3
	BSA62-270	50	56	80	227	62-90	SM10	7.7
	BSA72-195	60	66	95	152	72-110	SM10	7.1
	BSA72-285	60	66	95	242	72-110	SM10	9.4
	BSA90-210	75	80	110	267	90-125	SM12	9.5
	BSA90-300	75	80	110	257	90-125	SM12	12.6
	BSA105-195	90	-	-	152	105-160	SM12	11.0
BSA105-285	90	94	130	242	105-160	SM12	15.3	

特點/Feature

- 1、可選用四角形熔焊刀具或舍弁式刀具
- 2、鏜盲孔專用



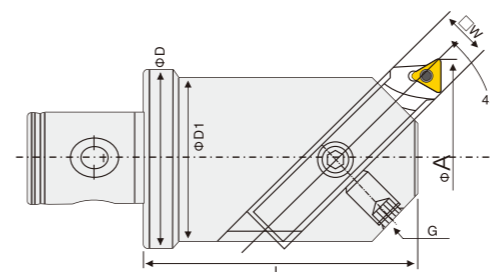
BSB90°ROUGHING BORING BAR

BSB 90度粗鏜孔刀柄

	型號 Specification	尺寸 Size				鏜孔範圍 Boring range	W	螺絲 Screw	重量 weight
		d1	d2	L1	L				
BT40	BSB25-120	20	22	35	90	25-52	8	SM6	1.3
	BSB38-150	30	33	55	120	38-70	10	SM8	1.8
	BSB50-165	40	44	70	135	50-90	13	SM10	2.6
	BSB62-180	50	56	80	150	62-115	16	SM10	3.7
	BSB90-180	75	-	-	150	90-150	19	SM12	6.0
BT50	BSB25-135	20	22	35	92	25-52	8	SM6	4.5
	BSB38-180	30	33	55	137	38-70	10	SM8	5.1
	BSB50-180	40	44	70	137	50-90	13	SM10	5.7
	BSB50-240	40	44	70	197	50-90	13	SM10	6.0
	BSB62-195	50	56	80	152	62-115	16	SM10	6.7
	BSB62-270	50	56	80	227	62-115	16	SM10	8.1
	BSB72-195	60	66	95	152	72-135	19	SM12	7.6
	BSB72-285	60	66	95	242	72-135	19	SM12	9.9
	BSB90-210	75	80	115	167	90-150	19	SM12	10.0
	BSB90-300	75	80	115	257	90-150	19	SM12	13.1
	BSB105-195	90	90	-	152	105-190	25	SM12	11.7
	BSB105-285	90	94	135	242	105-190	25	SM12	16.0

特點/Feature

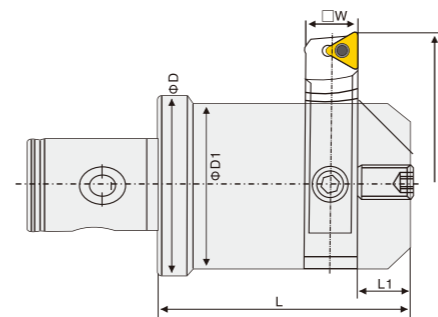
1. 適用於孔徑凹凸不平，毛坯粗糙之加工物。
2. 可選用四角形熔焊刀具或捨棄式刀具。
3. 適用通孔，背鏜加工。



MODULAR BORING CUTTER

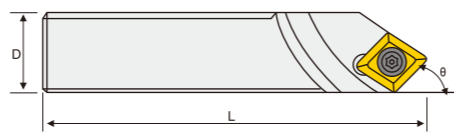
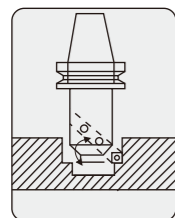
BSA 45度斜角型粗搪頭

型號 Specification	鏜孔範圍 Boring Range		尺寸 Size					
	ΦA min	ΦA max	ΦD	ΦD1	L	E	□W	G
BSA30-CK2	Φ30	Φ42	24	24	40	1.6	8	M6×1.00P
BSA38-CK3	Φ38	Φ52	31	60	60	2.6	10	M8×1.25P
BSA50-CK4	Φ50	Φ65	42	40	70	3	13	M10×1.50P
BSA62-CK5	Φ62	Φ90	55	50	85	2	16	M12×1.75P
BSA72-CK6	Φ72	Φ110	63	60	98	2.4	19	M12×1.75P



BSB 90度直角型粗搪頭

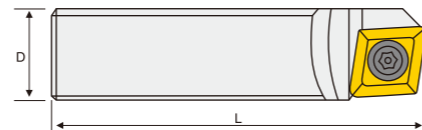
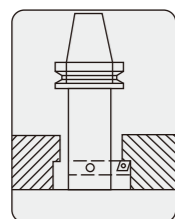
型號 Specification	鏜孔範圍 Boring Range		尺寸 Size					
	ΦA min	ΦA max	ΦD	ΦD1	L	L1	□W	G
BSB25-CK2	Φ26	Φ52	24	20	45	10	8	M6×1.00P
BSB38-CK3	Φ38	Φ70	31	30	55	10	10	M8×1.25P
BSB50-CK4	Φ50	Φ90	42	40	60	10	13	M10×1.50P
BSB62-CK5	Φ62	Φ115	55	50	70	1	16	M12×1.75P
BSB72-CK6	Φ72	Φ135	63	60	85	12	19	M12×1.75P



MODULAR BORING CUTTER

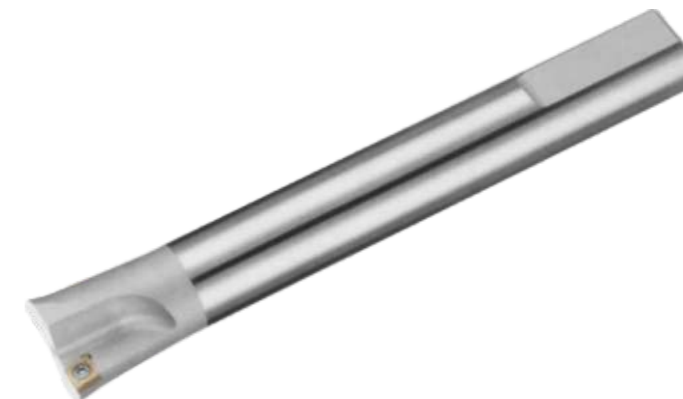
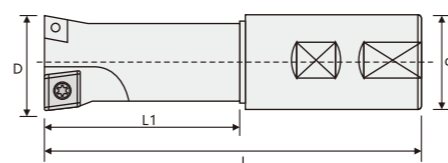
CBS 刀夾

型號 Specification	尺寸 Size		角度 Angle	刀片規格 Insert	螺絲 Clamp Screw	扳手 Wrench
	D	L				
CBS-408	8	50	45	CCMT0602	M2.5-6.0-3.5-60	T9
CBS-410	10	60	45	CCMT09T3	M4-10-5.7-60	T15
CBS-413	13	70	45	CCMT09T3	M4-10-5.7-60	T15
CBS-416	16	100	45	CCMT0602	M4-10-5.7-60	T15
CBS-419	19	150	45	CCMT09T3	M4-10-5.7-60	T15
CBS-425	25	150	45	CCMT09T3	M4-10-5.7-60	T15
CBS-908	8	50	90	CCMT0602	M2.5-6.0-3.5-60	T9
CBS-910	10	60	90	CCMT0602	M4-10-5.7-60	T15
CBS-913	13	70	90	CCMT09T3	M4-10-5.7-60	T15
CBS-916	16	100	90	CCMT09T3	M4-10-5.7-60	T15
CBS-919	19	150	90	CCMT0602	M4-10-5.7-60	T15
CBS-925	25	150	90	CCMT09T3	M4-10-5.7-60	T15



BSB 直角型搪頭

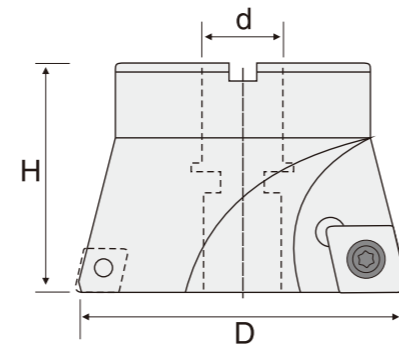
型號 Specification	尺寸 Size		角度 Angle	刀片規格 Insert	螺絲 Clamp Screw	扳手 Wrench
	D	L				
CBS908L	8	50	90	CCMT0602	M2.5-6.0-3.5-60	T9
CBS910L	10	60	90	CCMT0602	M2.5-6.0-3.5-60	T9
CBS913L	13	70	90	CCMT09T3	M4-10-5.7-60	T15
CBS916L	16	100	90	CCMT0602	M4-10-5.7-60	T15
CBS919L	19	150	90	CCMT09T3	M4-10-5.7-60	T15



固定式粗鏜刀杆

型號 Specification	刀數 No. of flutes	尺寸 Size			
		D	d	L	L1
SB11.7-12-120	1	11.7	16	120	30
SB12.7-13-120	1	12.7	16	120	30
SB13.7-14-120	1	13.7	16	120	30
SB14.7-15-120	1	14.7	16	130	30
SB15.7-16-135	2	15.7	16	135	70
SB16.7-17-135	2	16.7	16	135	70
SB17.7-18-135	2	17.7	16	135	70
SB18.7-19-160	2	18.7	16	160	90
SB19.7-20-160	2	19.7	20	160	90
SB21.7-22-160	2	20.7	20	160	90
SB23.7-24-180	2	23.7	20	180	100
SB24.7-25-190	2	24.7	25	190	110
SB25.7-26-200	2	25.7	25	200	120
SB26.7-27-200	2	26.7	25	200	120
SB27.7-28-200	2	27.7	25	200	120
SB29.7-30-210	2	29.7	25	210	130
SB31.7-32-210	2	31.7	25	210	130
SB34.7-35-250	2	34.7	32	250	150
SB36.7-37-250	2	36.7	32	250	150
SB39.7-40-270	2	39.7	32	270	170
SB41.7-42-250	2	41.7	32	250	150
SB44.7-45-310	2	44.7	32	310	210
SB46.7-47-260	2	46.7	32	260	160
SB49.7-50-260	2	49.7	42	260	160
SB49.7-50-310	2	49.7	42	310	210
SB51.7-52-260	2	51.7	42	260	160
SB54.7-55-330	2	54.7	42	330	230
SB59.7-60-260	2	59.7	42	260	160
SB59.7-60-350	2	59.7	42	350	250

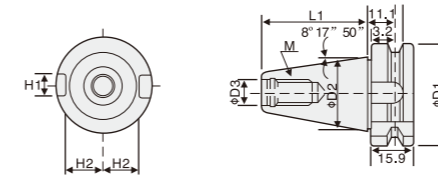
型號 Specification	刀片 Insert	螺釘 Clamp screw	扳手 wrench
SB12-SB20	CCMT060204	M2.5×6	T8
SB22-SB60	CCMT09T308	M4×10	T15



固定式粗搪刀頭

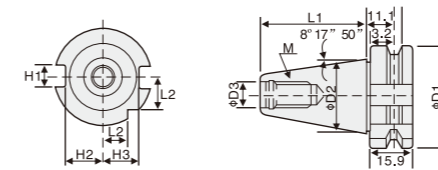
型號 Specification	刀數 No. of flutes	尺寸 Size		
		D	d	L1
GC44.7-45-22	2	44.7	22	50
GC49.7-50.22	2	49.7	22	50
GC54.7-55-22	2	54.7	22	50
GC59.7-60-22	2	59.7	22	50
GC61.7-62-22	2	61.7	22	50
GC61.7-62-25.4	2	61.7	25.4	50
GC64.7-65-25.4	2	64.7	25.4	50
GC69.7-70-25.4	2	69.7	25.4	50
GC71.7-72-25.4	2	71.7	25.4	50
GC74.7-75-25.4	2	74.7	25.4	50
GC79.7-80-25.4	2	79.7	25.4	50
GC84.7-85-25.4	2	84.7	25.4	50
GC89.7-90-31.75	2	89.7	31.75	50
GC94.7-95-31.75	2	94.7	31.75	50
GC99.7-100-31.75	2	99.7	31.75	50

型號 Specification	刀片 Insert	螺釘 Clamp screw	扳手 wrench
GC45-100	CCMT09T308	M4 × 10	T15



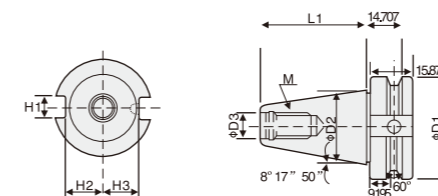
SPECIFICATIONS
BT 錐柄規格尺寸

BT.NO	ΦD1	ΦD2	ΦD3	L1	L2	L3	L4	L5	H1	H2	M
BT30	46	31.75	12.5	48.4	20	2	13.6	8	16.1	16.3	M12
BT40	63	44.45	17	65.4	25	2	16.6	10	16.1	22.6	M16
BT50	100	69.85	25	101.8	35	3	23.2	15	25.7	35.4	M24



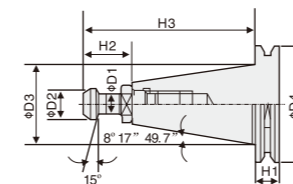
SK 錐柄規格尺寸

SK.NO	ΦD1	ΦD2	ΦD3	L1	L2	H1	H2	H3	M
SK40	63.55	44.45	17	68.4	18.5	16.1	22.8	25	M16
SK50	97.5	69.85	25	101.75	30	25.7	35.5	37.7	M24



CAT 錐柄規格尺寸

CAT.NO	ΦD1	ΦD2	ΦD3	L1	H1	H2	H3	M
CAT40	63.5	44.45	16.28	68.25	16.28	22.6	25.02	5/8"-11UNC
CAT50	98.43	69.85	26.38	101.6	305.31	35.31	37.72	1"-8UNC



ISO 錐柄規格尺寸

ISO.NO	D1	D2	D3	D4	H1	H2	H3
ISO20	6	9	22.225	33	8	12	45.3
ISO25	7	10	25.4	37	8	16	55.7
ISO30	9	13	31.75	50	15.9	24	71.8

