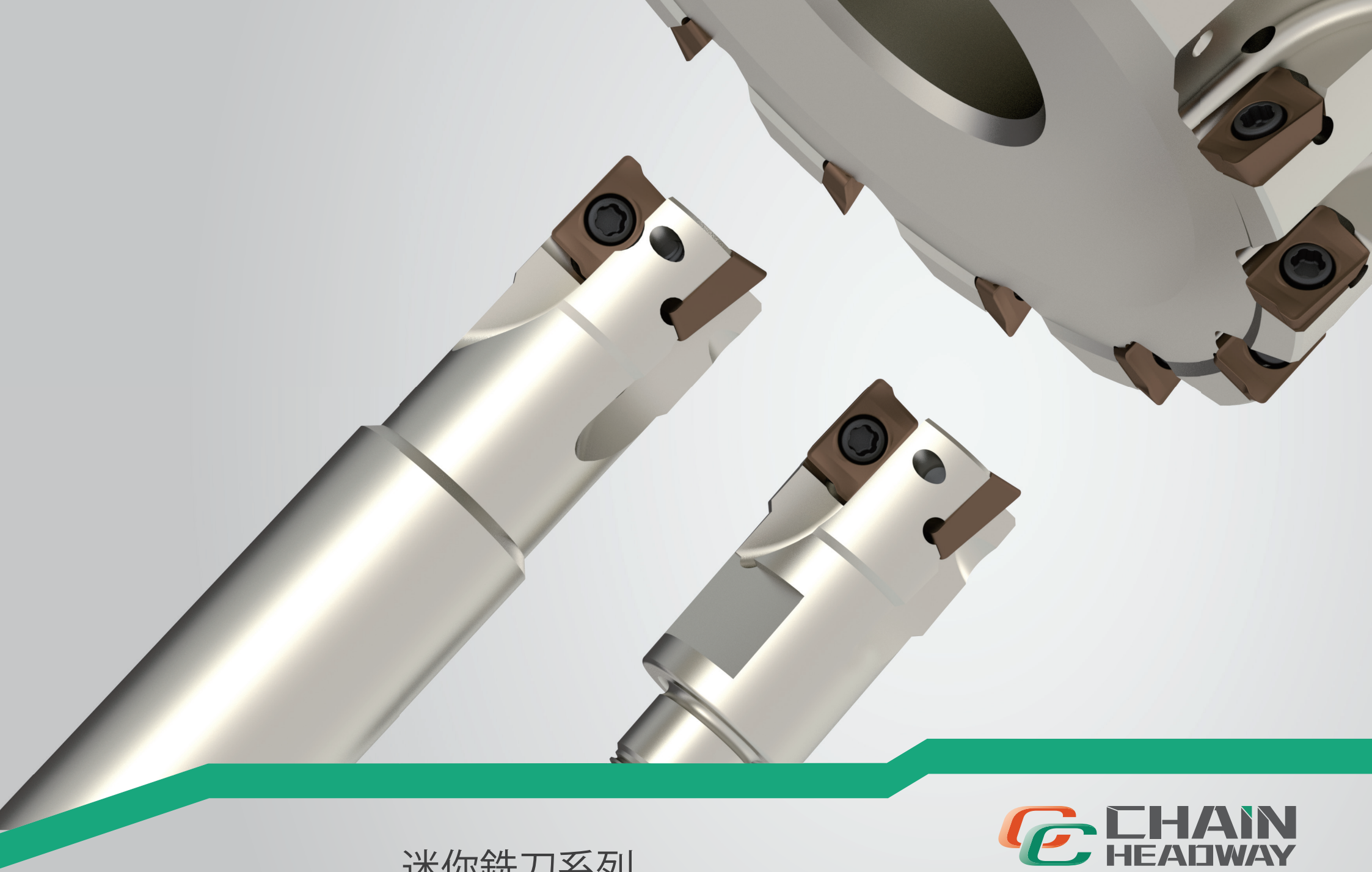


迷你銑刀系列

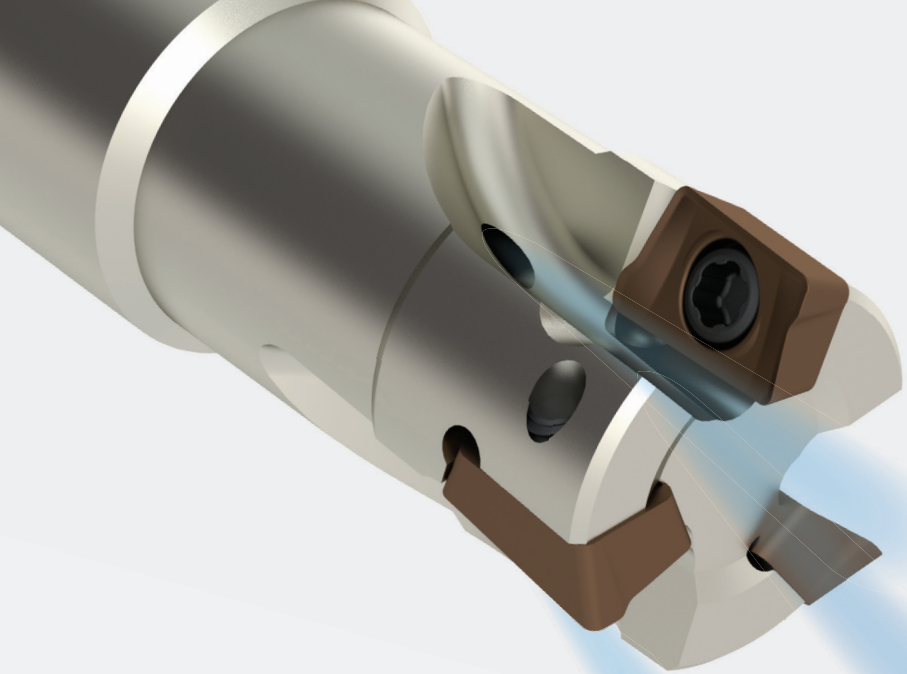
Mini End Mill Cutter Series

CHAIN HEADWAY

Cutting Edge Solution

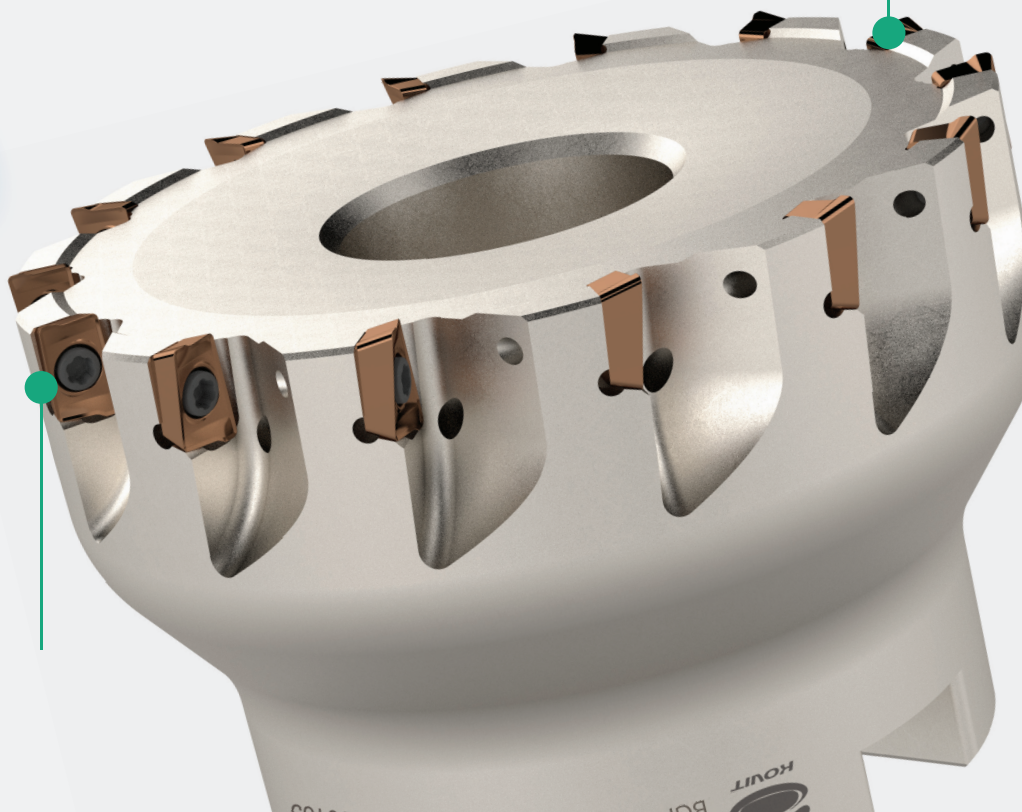
中心出水

Water Hole



多刃型設計可提高加工效率

Multi-cutting-edge design improves machining efficiency.



刃口強化，低阻力的高精度設計，適合斷續切削

Low-resistance and high-precision design are good for interrupted cutting.

刀具材質選用特殊鋼材，增強刀具穩定性

Made by special alloyed steel to enhance the stability of the cutting tool.



尺寸從Ø 8~Ø63均有刀具刀配，鎖牙式結構可結合碳化鎢鎖牙延長桿，針對小尺寸及閃避干涉加工使用，適合電子產業及加工產業

The MAS type cutters are available from 8 to 63 mm. We also have screwed on type structure which can be combined with tungsten carbide extension. They are suitable for small and interference cutting expecially for electronics industries.

迷你銑刀比較表

Mini End Mill Overview

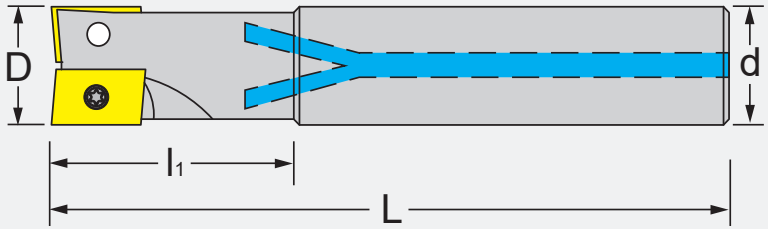
	迷你銑刀 Mini End Mill Cutter	ASSM 直角高速銑刀 End Mill Cutter	一般鎢鋼銑刀 General Tungsten Mill Cutter
出水 Internal Coolant	++	—	+
刃數 Teeth	+	○	++
刀具剛性 Tool Rigidity	+	○	++
便利性 Convenience	++	++	○
排屑性 Chip Removal	++	+	○
刀具樣式 Cutter Type	++	○	○

++ 佳 Very good　+ 好 Good　○ 普通 Neutral　— 不好 Bad

規格

Spec





MAS 迷你銑刀
MAS Mini End Mill Cutter

規格 Spec.	L	l_1	D	d	刃數 Teeth	刀片 Insert	重量 (KGS) Weight
MAS-1008AP06-100L-2T-C	100	15	10	8	2	AP..0602	0.05
MAS-1010AP06-80L-2T-C	80	20	10	10	2	AP..0602	0.06
MAS-1110AP06-80L-2T-C	80	20	11	10	2	AP..0602	0.06
MAS-1210AP06-100L-2T-C	100	20	12	10	2	AP..0602	0.08
MAS-1212AP06-80L-2T-C	80	20	12	12	2	AP..0602	0.09
MAS-1212AP06-80L-3T-C	80	20	12	12	3	AP..0602	0.09
MAS-1412AP06-80L-3T-C	80	20	14	12	3	AP..0602	0.09
MAS-1614AP06-160L-3T-C	160	25	16	14	3	AP..0602	0.19
MAS-1616AP06-120L-3T-C	120	25	16	16	3	AP..0602	0.18
MAS-1616AP06-160L-3T-C	160	25	16	16	3	AP..0602	0.24
MAS-1616AP06-90L-4T-C	90	25	16	16	4	AP..0602	0.14

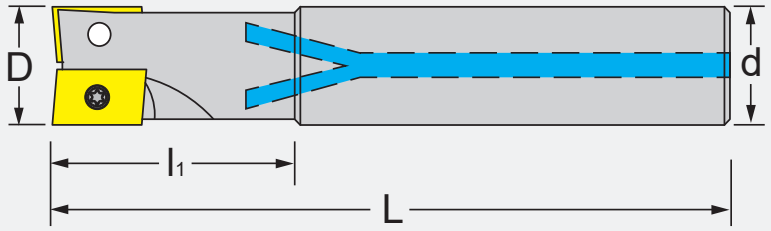
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AP..0602	M1.8-3.9-2.45-60-TP6-EU	TP6-EU	0.5

規格

Spec





MAS 迷你銑刀
MAS Mini End Mill Cutter

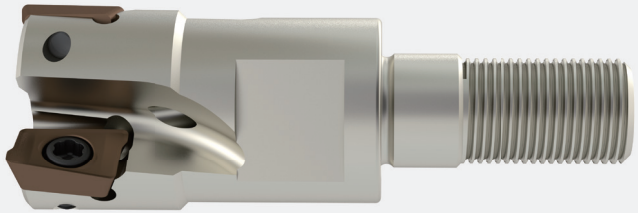
規格 Spec.	L	l_1	D	d	刃數 Teeth	刀片 Insert	重量 (KGS) Weight
MAS-1816AP06-90L-4T-C	90	25	18	16	4	AP..0602	0.15
MAS-2018AP06-160L-4T-C	160	30	20	18	4	AP..0602	0.31
MAS-2020AP06-160L-4T-C	160	30	20	20	4	AP..0602	0.37
MAS-2020AP06-100L-5T-C	100	30	20	20	5	AP..0602	0.23
MAS-2120AP06-110L-5T-C	110	30	21	20	5	AP..0602	0.26
MAS-2520AP06-110L-7T-C	110	40	25	20	7	AP..0602	0.29
MAS-2525AP06-120L-7T-C	120	40	25	25	7	AP..0602	0.44
MAS-3225AP06-130L-8T-C	130	45	32	25	8	AP..0602	0.55
MAS-4032AP06-140L-10T-C	140	45	40	32	10	AP..0602	0.95

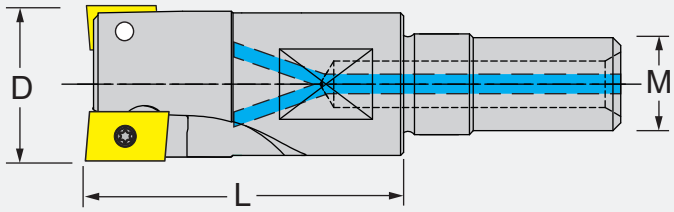
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AP..0602	M1.8-3.9-2.45-60-TP6-EU	TP6-EU	0.5

規格

Spec





MAS 鎖牙式迷你銑刀
MAS Screwed-on Mini Mill Cutter

規格 Spec.	L	D	M	刃數 Teeth	刀片 Insert	重量 (KGS) Weight
MAS-10.0-M5-AP06-C	20	10	M5	2	AP..0602	0.04
MAS-10.0-M6-AP06-C	20	10	M6	2	AP..0602	0.04
MAS-11.0-M5-AP06-C	20	11	M5	2	AP..0602	0.04
MAS-11.0-M6-AP06-C	20	11	M6	2	AP..0602	0.04
MAS-12.0-M6-AP06-C	20	12	M6	3	AP..0602	0.04
MAS-12.7-M6-AP06-C	20	12.7	M6	3	AP..0602	0.04
MAS-13.0-M6-AP06-C	20	13	M6	3	AP..0602	0.04
MAS-16.0-M8-AP06-C	25	16	M8	4	AP..0602	0.05
MAS-17.0-M8-AP06-C	25	17	M8	4	AP..0602	0.06
MAS-20.0-M10-AP06-C	30	20	M10	5	AP..0602	0.08
MAS-21.0-M10-AP06-C	30	21	M10	5	AP..0602	0.09
MAS-25.0-M12-AP06-C	30	25	M12	7	AP..0602	0.13
MAS-26.0-M12-AP06-C	30	26	M12	7	AP..0602	0.14
MAS-32.0-M16-AP06-C	35	32	M16	8	AP..0602	0.24
MAS-40.0-M16-AP06-C	35	40	M16	10	AP..0602	0.36

配件表 Accessories

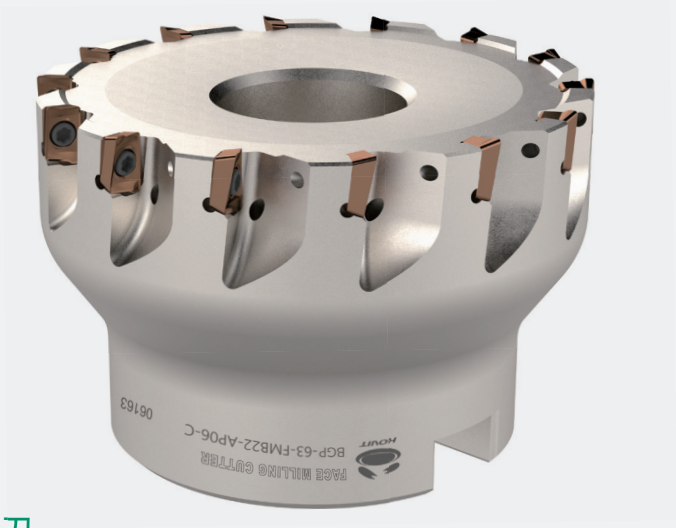
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AP..0602	M1.8-3.9-2.45-60-TP6-EU	TP6-EU	0.5

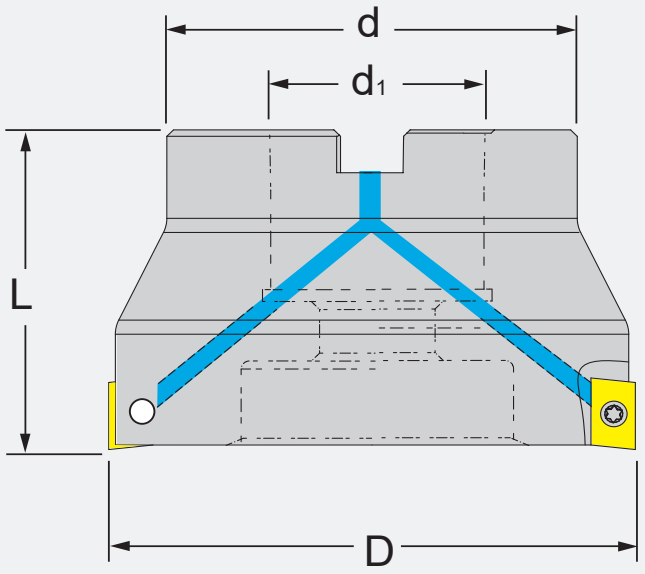
選配表 Option

刀桿 Shank	刀桿 Shank	延長桿 Extension Shank	延長桿 Extension Shank
			
12	13	14	15

規格

Spec





BGP 迷你殼形銑刀
BGP Mini Face Mill Cutter

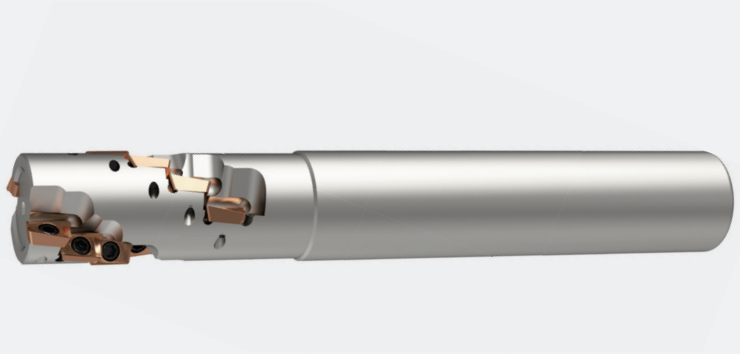
規格 Spec.	L	D	d	d1	刃數 Teeth	刀片 Insert	重量 (KGS) Weight
BGP-400-FMB16-AP06-10T-C	40	40	34	16	10	AP..0602	0.45
BGP-500-FMB22-AP06-12T-C	40	50	45	22	12	AP..0602	0.60
BGP-630-FMB22-AP06-14T-C	40	63	45	22	14	AP..0602	0.88

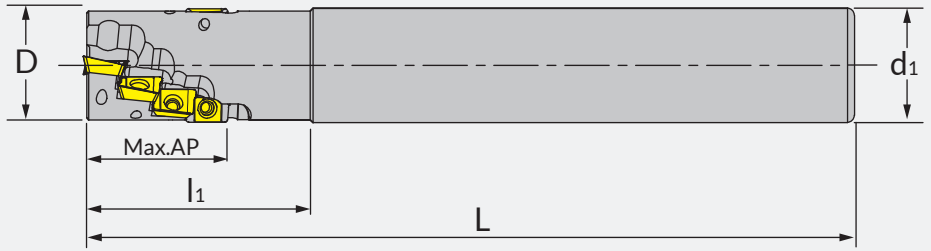
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AP..0602	M1.8-3.9-2.45-60-TP6-EU	TP6-EU	0.5

規格

Spec





APE 迷你型粗切削銑刀
Mini Rough Cutting End Mills

規格 Spec.	Max. Ap	L	l1	D	d	刃數 T	刀片數量 Insert Qty.	刀片 Insert	重量 (KGS) Weight
APE-1216AP06-10L-2T	10	100	22	12	16	2	4	AP..0602	0.16
APE-1616AP06-15L-3T	15	110	26	16	16	3	9	AP..0602	-
APE-1616AP06-20L-2T	20	110	32	16	16	2	8	AP..0602	0.18
APE-1616AP06-30L-2T	30	110	40	16	16	2	10	AP..0602	0.18
APE-2020AP06-25L-3T	25	120	32	20	20	3	15	AP..0602	0.29

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AP..0602	M1.8-3.9-2.45-60-TP6-EU	TP6-EU	0.5

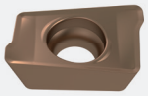
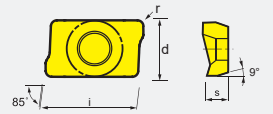
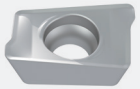
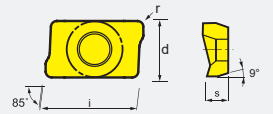
適用刀片規格

Applicable Insert Spec

ISO 分類											
	P	合金鋼 Alloyed Steels	○								
	M	不鏽鋼 Stainless Steels	○	○	○						
	K	鑄鐵 Cast Iron	○			○					
	N	鋁及鋁合金 Aluminum&Al						○	○	○	
	S	高溫合金 Refractory Alloys			●						
	H	高硬度材 Hard Material									

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Form	規格 Spec.	鍍層超微粒 Layer Coating Ultra-micro					超硬微粒 Layer Coating Ultra-micro				尺寸 (mm) Size				圖形 Drawing
		CHF					HF								
		RM4130	OM4025	OM5035	OM3130		RM5005	RM5060	OM5005		d	i	s	r	
	APKT060204-M02	●									3.7	6.45	2.38	0.4	
	APKT060208-M04		●	●	●						3.7	6.45	2.38	0.8	
	APKT060204-MT						●	●			3.7	6.45	2.38	0.4	
	APKT060208-MT								●		3.7	6.45	2.38	0.8	

適用加工數據

Applicable Parameter

適用 BGP&MAS (Suitable for BGP & MAS)

被加工材質 Machining Materials		刀片材質 Materials	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P	合金鋼 Alloyed Steels	RM4130	160(70~260)	0.12(0.08~0.16)
M	不鏽鋼 Stainless Steels	RM4130/OM5035	120(90~140)	0.10(0.08~0.12)
K	鑄鐵 Cast Iron	RM4130/OM3130	140(100~240)	0.12(0.08~0.16)
N	鋁及鋁合金 Aluminum&Al	RM5005	400(300~800)	0.10(0.05~0.30)
		RM5060		
		OM5005		

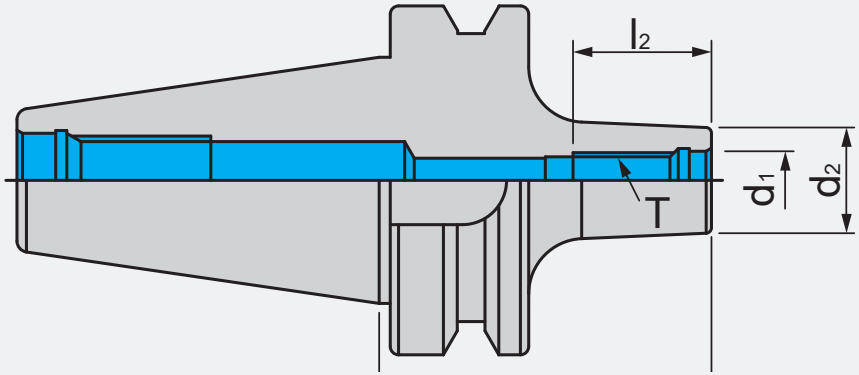
適用 APE (Suitable for APE)

被加工材質 Machining Materials		刀片材質 Materials	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	Ae 切幅宽
P	合金鋼 Alloyed Steels	RM4130	80(70-180)	0.10(0.06~0.20)	0.8-1.5
M	不鏽鋼 Stainless Steels	RM4130/OM5035	70(70-120)	0.08(0.06~0.15)	0.5-1.0
K	鑄鐵 Cast Iron	RM4130/OM3130	80(70-140)	0.10(0.06~0.20)	1.0-2.0
N	鋁及鋁合金 Aluminum&Al	RM5005	300(250-600)	0.10(0.06~0.30)	1.0-2.0
		RM5060			
		OM5005			

規格

Spec



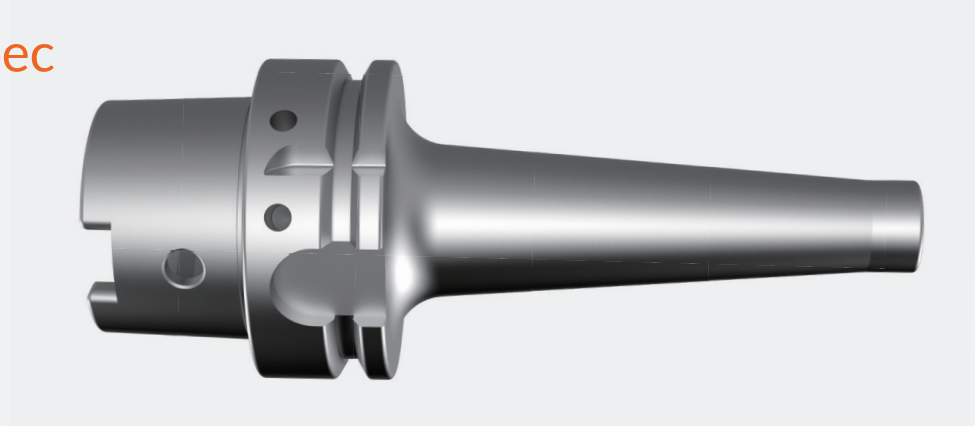


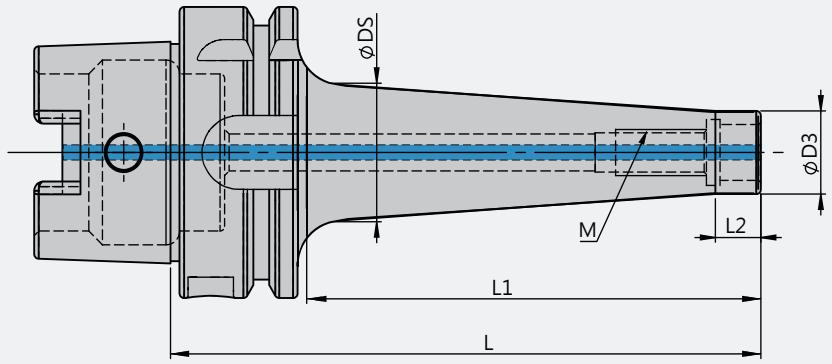
BT/SOM 鎖牙式刀桿
BT/SOM SCREWED-ON END MILLS HOLDER

規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	T	重量 (KGS) Weight
BT40-SOM6-60	60	25	23.4	6.5	13	15.1	M6x.1.0P	1.10
BT40-SOM8-60	60	25	23.4	8.5	15	17.1	M8x.1.25P	1.10
BT40-SOM10-60	60	25	23.4	10.5	19	21.1	M10x.1.5P	1.20
BT40-SOM12-70	70	31	31.5	12.5	21	22.8	M12x.1.75P	1.20
BT40-SOM12-100	100	31	42.4	12.5	21	23.8	M12x.1.75P	1.30
BT40-SOM16-80	80	30	48.2	17	25	29.1	M16x.2.0P	1.20
BT50-SOM6-60	60	25	12.4	6.5	13	14.1	M6x.1.0P	3.00
BT50-SOM8-60	60	25	12.4	8.5	15	16.1	M8x.1.25P	3.00
BT50-SOM10-60	60	25	12.4	10.5	19	20.1	M10x.1.5P	3.00
BT50-SOM12-70	70	31	22.4	12.5	21	22.9	M12x.1.75P	3.00
BT50-SOM12-100	100	31	52.4	12.5	21	25.6	M12x.1.75P	3.00
BT50-SOM16-80	80	30	32.4	17	25	27.7	M16x.2.0P	3.00

規格

Spec





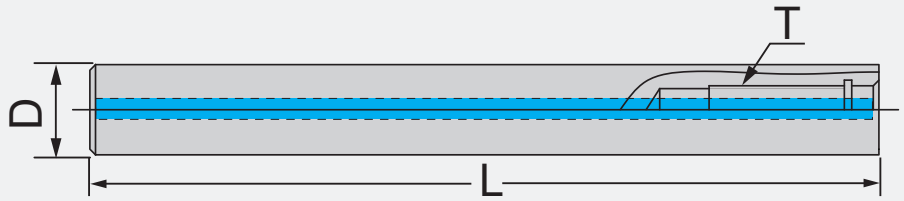
HSK(A)/SOM 鎖牙式刀桿
HSK(A)/SOM SCREWED-ON END MILLS HOLDER

規格 Spec.	M	Ds	D3	L	L1	L2
HSK63A-SOM6-110	M6	25	9.7	110	80	10
HSK63A-SOM8-105	M8	30	15	105	75	10
HSK63A-SOM10-100	M10	25	18	100	70	10
HSK63A-SOM10-130	M10	30	18	130	100	10
HSK63A-SOM12-95	M12	27.5	21	95	65	10
HSK63A-SOM12-130	M12	32.7	21	130	100	10
HSK63A-SOM16-90	M16	33.9	28	90	60	10
HSK63A-SOM16-140	M16	39.2	28	140	110	10
HSK100A-SOM12-85	M12	35	21	85	56	20
HSK100A-SOM12-135	M12	41	21	135	106	25
HSK100A-SOM12-185	M12	42.5	21	185	156	30
HSK100A-SOM16-85	M16	49	28	85	56	20
HSK100A-SOM16-135	M16	49	28	135	106	30
HSK100A-SOM16-185	M16	50	28	135	156	35

規格

Spec





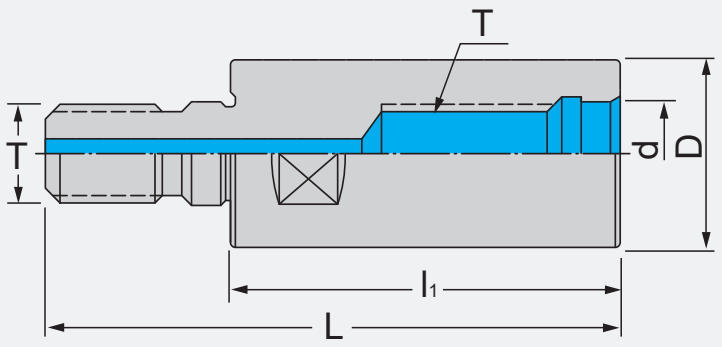
直柄 C/M 螺紋鎖固式鎢鋼延長桿
C/M STRAIGHT SHANK TUNGSTEN CARBIDE EXTENSION SHANK

規格 Spec.	L	D	T	重量 (KGS) Weight
C10-M5-150-C	150	10	M5X0.8P	0.16
C10-M6-100-C	100	10	M6×1.0P	0.16
C10-M6-150-C	150	10	M6×1.0P	0.24
C12-M6-100-C	100	12	M6×1.0P	0.16
C12-M6-150-C	150	12	M6×1.0P	0.24
C16-M8-100-C	100	16	M8×1.25P	0.26
C16-M8-150-C	150	16	M8×1.25P	0.57
C16-M8-200-C	200	16	M8×1.25P	0.54
C20-M10-150-C	150	20	M10×1.5P	0.60
C20-M10-200-C	200	20	M10×1.5P	0.85
C25-M12-200-C	200	25	M12×1.75P	1.30
C25-M12-250-C	250	25	M12×1.75P	1.60

規格

Spec





SOM 鎖牙式延長桿
SOM SCREWED-ON END MILLS EXTENSION SHANK

規格 Spec.	L	l1	D	d	T	重量 (KGS) Weight
SOM6-25	42	25	13	6.5	M6×1.0P	0.03
SOM8-32	50	32	15	8.5	M8×1.25P	0.06
SOM10-40	59	40	19	10.5	M10×1.5P	0.09
SOM12-50	73	50	21	12.5	M12×1.75P	0.13
SOM16-60	85	60	25	17	M16×2.0P	0.23

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