



瀚鈞科技有限公司

Nano-Mill Technology Co.,Ltd

台中市南屯區楓樹里樂田巷 2-30-5 號

No.2-30-5, Letian Ln, Fengshu Village,

Nantun Dist., Taichung City 40870, Taiwan

TEL:+886-4-24791765 FAX:+886-4-24791725

mail: nano.mill@msa.hinet.net

www.nano-mill.com

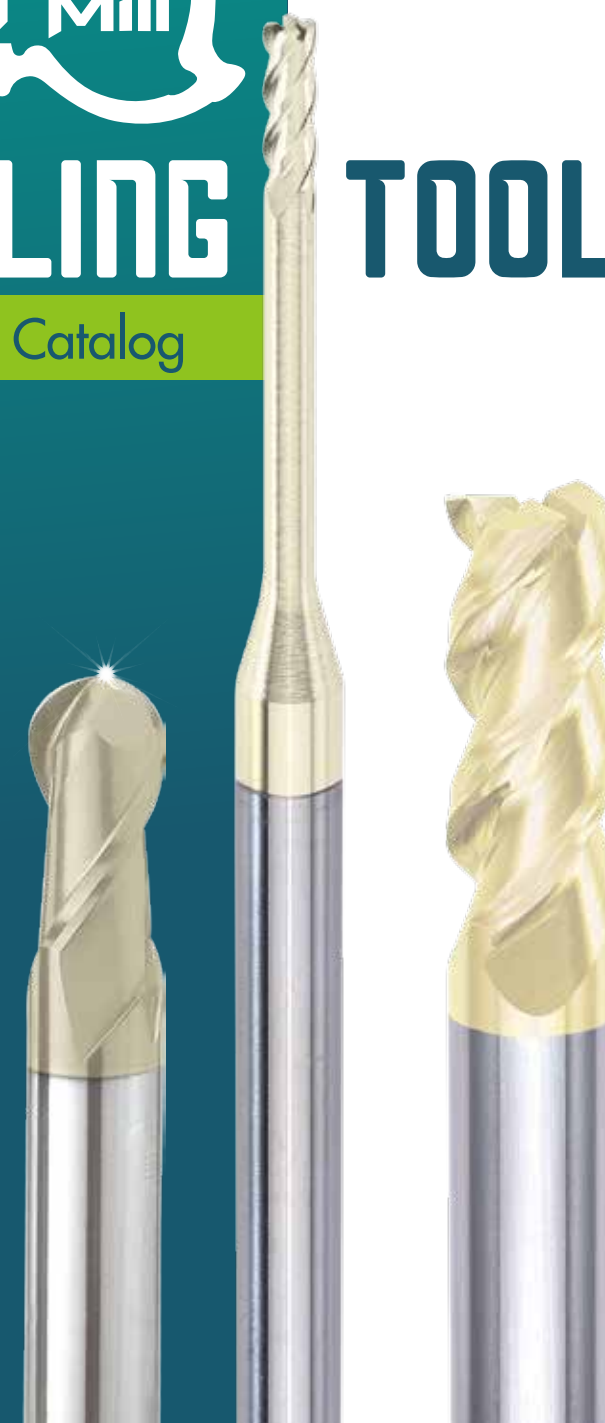
www.nano-mill-dentalburs.com



MILLING

2019 Catalog

TOOLS





Company Introduction

Nano-Mill Technology Co., Ltd has been established since year 2000. It's specialized in exporting Carbide end mill from Taiwan.. We created our brand “**Nano-mill**” and produce a wide range of high quality Carbide cutting tools. The production is specializing in high hard, high speed and soft metal cutting Solid Carbide End Mill. We supply end mill made of the best material from Germany and manifested by modern CNC grinding machines from Switzerland ‘Rollomatic’ and Schneeberger.

The leading coating technology from Balzers is also adopted to achieve superior performance. Providing customers with the ultimate in quality and service is given. Nano's sales network spans the globe, and will continue to grow as it's innovations to flow with the ebbs and tides of the market.



公差表 Tolerance

平底刀 (mm) Square End Mills		圓頭立銑刀 (mm) Ball Nose End Mills		圓鼻刀 (mm) Corner Radius End Mills		
Flute Dia.	Dia. Tolerance	Flute Dia.	Dia. Tolerance	Flute Dia.	Dia. Tolerance	R Tolerance
1.0	0~-0.020	R0.5	±0.01	3.0	0.000~-0.020	+0.02~0
1.5	0~-0.020	R1	±0.01	4.0	0.000~-0.020	+0.02~0
2.0	0~-0.020	R1.5	±0.01	6.0	-0.005~-0.025	+0.02~0
2.5	0~-0.020	R2	±0.01	8.0	-0.010~-0.025	+0.03~0
3.0	0~-0.020	R2.5	±0.01	10.0	-0.010~-0.030	+0.03~0
4.0	0~-0.020	R3	±0.01	12.0	-0.010~-0.035	+0.03~0
5.0	0~-0.020	R4	±0.01	16.0	-0.010~-0.040	+0.03~0
6.0	0~-0.025	R5	±0.01			
8.0	0~-0.030	R6	±0.015			
10.0	0~-0.035	R8	±0.02			
12.0	0~-0.040	R10	±0.02			
16.0	0~-0.040					
20.0	0~-0.040					

Shank Dia. (h6)	Shank Tolerance	Shank Dia. (h6)	Shank Tolerance	Shank Dia.(h6)	Shank Tolerance
Φ 3	0~-0.008	Φ 3	0~-0.008	Φ 3	0~-0.008
Φ 4	0~-0.008	Φ 4	0~-0.008	Φ 4	0~-0.008
Φ 6	0~-0.008	Φ 6	0~-0.008	Φ 6	0~-0.008
Φ 8	0~-0.008	Φ 8	0~-0.008	Φ 8	0~-0.008
Φ 10	0~-0.009	Φ 10	0~-0.009	Φ 10	0~-0.009
Φ 12	0~-0.011	Φ 12	0~-0.011	Φ 12	0~-0.011
Φ 16	0~-0.011	Φ 16	0~-0.011	Φ 16	0~-0.011
Φ 20	0~-0.013	Φ 20	0~-0.013	Φ 20	0~-0.013

硬質合金 Solid Carbide

MG J Series Packing	UMG H Series Packing	UMG V Series Packing
Co % 10	Co % 12	Co % 9
WC incl. Doping 90	WC incl. Doping 88	WC incl. Doping 89.83
Tungsten Carbide α Φ 0.6μm	Tungsten Carbide α Φ 0.4μm	Tungsten Carbide α Φ 0.2μm
T.R.S. (N/mm²) >3600	T.R.S. (N/mm²) >3800	T.R.S. (N/mm²) >4000
Density (g/cm³) 14.5	Density (g/cm³) 14.1	Density (g/cm³) 14.3
Hardness HRA 91.9	Hardness HRA 92.3	Hardness HRA 93.2
Hardness HV30(N/mm²) 1610	Hardness HV30(N/mm²) 1680	Hardness HV30(N/mm²) 1950
ISO-Range K30-K40	ISO-Range K20-K30	ISO-Range K05-K10

符號圖解 GUIDE LINES to ICONS

WORK MATERIAL 被切削材硬度

HRC >55 Work material Hardness is up to HRC50° ,HRC55°

HRC >60 Work material Hardness is up to HRC50° ,HRC55° ,HRC60°

HRC >65 Work material Hardness is up to HRC50° ,HRC55° ,HRC60° ,HRC65°

HRC >65-70 Work material Hardness is up to HRC50° ,HRC55° ,HRC60° ,HRC65° ,HRC70°

CORNER R 圓隅角



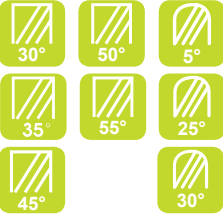
CARBIDE 鎢鋼材質

UMG 0.2 μm CO 9% Super Micro Grain 極細超微粒子

UMG 0.4 μm CO 12% Super Micro Grain 極細超微粒子

MG 0.6 μm CO 10% Micro Grain 超微粒子

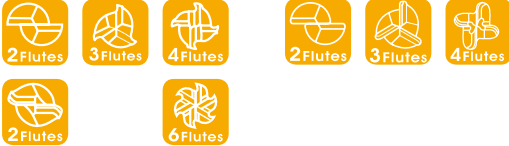
HELIX ANGLE 螺旋角

 Helix 5°,25°,30°,35°,40°,50°,55° 螺旋角是 5°,25°,30°,35°,40°,50°,55°

SHINK NECK 縮頸

 Best for long neck machining. 應用於深溝加工用。

FLUTE 刃數



COATING 鍍層

TIALN Ticsin HELICA ALTiN ALL NF2 NF3

Coating Classifying And Advantage 立銑刀的塗層種類及特點 End Mill Expert						
項目Item	塗層種類Coating Type	ALTiN	TIALN	nAcoB	Ticsin	HELICA
特性 Characteristic	表面硬度(HV) Hardness	~3200	~2800	45(Gpa)	~3600	~2800
	塗層厚度(m) Thickness(m)	2.5~3	2.5~3	3	2.0~2.5	1~4
	耐氧化溫度Oxidation Temp	900	800	1200	1100	1000
	摩擦係數 Friction Coefficient	0.3	0.3	0.45	0.4	0.25
	顏色 Color	黑 Black	黑 Black	藍 Blue	金SoFe GOLD	棕 Copper
適用材質 Application	碳鋼 Carbon Steel	◎	◎	◎	○	○
	合金/工具/高速鋼 Alloy/Tool/High Speed Steel	◎	◎	◎	○	◎
	不鏽鋼 Stainless Steel	×	○	○	◎	◎
	合金 Alloy	◎	○	◎	◎	○
	銅/鋁 Copper/Aluminum	×	×	×	×	×
	高溫合金 Incolnet	◎	○	◎	◎	○
	鈦合金 Titanium	×	○	○	◎	×
	塑膠/複合材料/木材/紙 Plastic/Composites/Wood/Paper	×	×	×	×	×
切削方式 Cutting Way	乾式 Dry Cutting	◎	◎	○	◎	◎
	溼式 Wet Cutting	×	○	×	○	○
	油霧 Oil Spary	○	◎	◎	○	◎

符號說明ICON：◎最適合 Recommend /○適合 Suitable /×不建議Not Recommend

SMALL DIA-EXTENSION MILL HOLDER SERIES

小直徑延伸磨刀系列

The function charactereristic

The usage of Tungsten can work easily 10 time depths above, anti-high vibration. After work Finished, the workpiece's surface will be smoothness, evenness increasingly, longevity, increasing work speed and efficiency.

功能特性

使用鎢鋼材質，可輕易加工 10 倍以上的深度、高抗震性，加工後工件表面光滑度增加，延長刀片壽命，提高加工速度及效率。本品屬鎢鋼材質，所以本產品保持永久不變之精度，另一項優點是本產品的內孔斜壁使用粒度極細小的鑽石研磨加工，在長久使用筒夾方面，大大降低筒夾磨損率，避免筒夾長久使用斜度磨損而影響精度，進而提高筒夾壽命及精度，鎢鋼後拉延長桿夾持方法是利用一支內六角頭螺絲往後孔穿進（鎢鋼後拉延長桿為穿心穿孔結構）尾端的牙順時針鎖住，前端的筒夾並夾持刀具鎖緊，緊鎖時筒夾與刀具往內孔中心束緊即可套上刀桿加工，退刀具時以相反步驟退刀當內六角頭螺絲往後時會頂到一顆左牙式穿透的空心螺絲，當頂住後面的左牙式穿心螺絲時，稍用力一轉即可將筒夾頂出，筒夾鬆動時即可取下夾持的刀具，因本產品無用任何螺帽及側固螺絲來夾持刀具，相較之下精度在 2um-5um 內。

NEW CARBIDE ANTI-SEISMIC MILL HOLDER

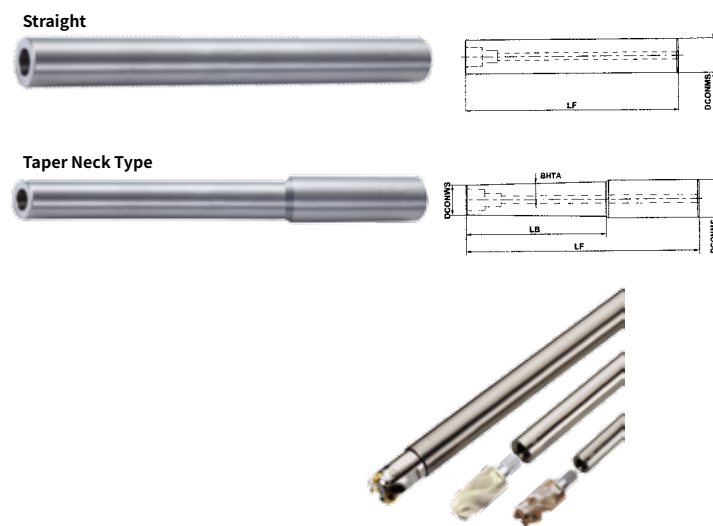
新型硬質合金抗震刀具

The function charactereristic

300L verticality 0.005mm, in real roundness 0.002mm, uses the genuine Tungsten its has no welding, no distortion, no deform with high Anti-seismic character it can work easily 10 time depths above, match to cutter rod's taper, locktype cutter head taper, thread lock type taper which lead to its center, it makes cuttier head, cutter piece bear the power averagely, increasing cutter head, cutter piece's accuracy and longevity. After work Finished, the workpiece's surface will be smoothness, evenness increasingly, increasing work speed and efficiency.

功能特性

300L 垂直度 0.005mm，真圓度 0.002 內，使用真正的鎢鋼材質，無焊接、不扭曲、不變形、高抗震性，配合鎖牙式刀頭系列，可輕易加工 10 倍以上的深度、增加刀片壽命，提升加工速度及工作效率。



New Carbide Anti-seismic Mill Holder

Solid Carbide shank (Internal coolant Hole)

抗震鎢鋼刀桿 (內冷孔)

Item code 型號	Dimensions,mm 規格尺寸,毫米						Weight KG 重量 / 公斤
	D	L	M	D	D2	L1	
ND08-120-M4	8	120	M4	4.5	-	-	0.08
ND10-100-M5	10	100	M5	5.5	-	-	0.10
ND10-150-M5	10	150	M5	5.5	-	-	0.15
ND12-100-M6	12	100	M6	6.5	-	-	0.15
ND12-150-M6	12	150	M6	6.5	-	-	0.23
ND12-200-M6	12	200	M6	6.5	-	-	0.30
ND16-100-M8	16	100	M8	8.5	-	-	0.25
ND16-150-M8	16	150	M8	8.5	-	-	0.39
ND16-200-M8	16	200	M8	8.5	-	-	0.52
ND16-250-M8	16	250	M8	8.5	-	-	0.72
ND20-100-M10	20	100	M10	10.5	-	-	0.41
ND20-150-M10	20	150	M10	10.5	-	-	0.61
ND20-200-M10	20	200	M10	10.5	-	-	0.82
ND20-250-M10	20	250	M10	10.5	-	-	1.12
ND20-300-M10	20	300	M10	10.5	-	-	1.22
ND20-350-M10	20	350	M10	10.5	-	-	1.25
ND25-100-M12	25	100	M12	12.5	-	-	0.63
ND25-150-M12	25	150	M12	12.5	-	-	0.94
ND25-200-M12	25	200	M12	12.5	-	-	1.27
ND25-250-M12	25	250	M12	12.5	-	-	1.76
ND25-300-M12	25	300	M12	12.5	-	-	1.95
ND25-350-M12	25	350	M12	12.5	-	-	2.46
ND32-150-M16	32	150	M16	17	-	-	1.51
ND32-200-M16	32	200	M16	17	-	-	2.05
ND32-250-M16	32	250	M16	17	-	-	2.88
ND32-300-M16	32	300	M16	17	-	-	3.10
ND32-350-M16	32	350	M16	17	-	-	4.12
ND32-400-M16	32	400	M16	17	-	-	4.18



可搭配加長型筒夾只需要更換後拉螺絲

型號 MODEL	尺寸
SS4	3,4
SD6	3,4,6
SD6L	3,4,6
SD10	

Small Dia-Extension Mill Holder Series

Solid Carbide shank (Internal coolant Hole)

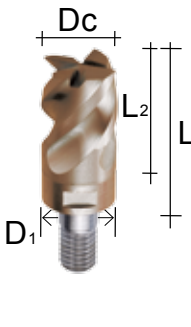
鎢鋼小徑後拉延長桿系列

型號 Type No.	D 直徑 Diameter	D1 直徑 Diameter	L 全長 O.A.L	α 斜角 Taper Angle	L1 斜頭長 T.A.L	適用筒夾 Suitable Collet
SDMH 8-100L	8	8	100			SS4-3,SS4-4
SDMH 10-100L	10	10	100			SD4-3,SD4-4
SDMH 10-150L	10	10	150			SD4-3,SD4-4
SDMH 10-150L-SS	10	8.2	150	1.5°	40	SS4-3,SS4-4
SDMH 12-100L	12	12	100			SD6-3,SD6-4 SD6-6
SDMH 12-150L	12	12	150			SD6-3,SD6-4 SD6-6
SDMH 12-150L-L	12	12	150			SD6L3,SD6L-4 SD6L-6
SDMH 12-150SD	12	9.7	150	1.5°	45	SD4-3,SD4-4
SDMH 16-150L	16	12.4	150	3°	38	SD6-3,SD6-4 SD6-6
SDMH 16-150L-L	16	12.4	150	3°	38	SD6L-3,SD6L-4 SD6L-6
SDMH 16-200L	16	12.4	200	1.5°	75	SD6-3,SD6-4 SD6-6
SDMH 16-200L-L	16	12.4	200	1.5°	75	SD6L-3,SD6L-4 SD6L-6
SDMH 20-150L	20	20	150			SD10-3,SD10-4 SD10-6,SD10-8 SD10-10
SDMH 20-200L	20	20	200			SD10-3,SD10-4 SD10-6,SD10-8 SD10-10

High Speed Cutting & High Hard Cutting

4 Flutes Square End Mills

超微粒 4 刃鋤鋼立銑刀

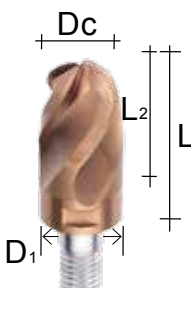


MG	HRC ▶55	ALL	45°	4Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	
Type No.	DC	L ₂	L ₁	D ₁
ND08-JDE0804	8	8.1	19	7.6
ND10-JDE1004	10	10.1	22	9.6
ND12-JDE1204	12	12.1	26	11.6
ND16-JDE1604	16	16.1	32.5	15.6
ND20-JDE2064	20	20.1	38.5	19.6
ND25-JDE2504	25	25.1	46	24.6

High Speed Cutting & High Hard Cutting

4 Flutes Ball Nose End Mills

超微粒 4 刃球型立銑刀

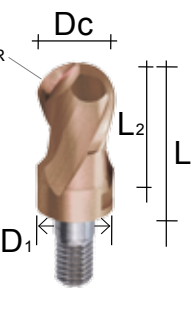


MG	HRC ▶55	ALL	35°	4Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	
Type No.	DC	L ₂	L ₁	D ₁
ND08-HDB0804	R4	8.1	19	7.6
ND10-HDB1004	R5	10.1	22	9.6
ND12-HDB1204	R6	12.1	26	11.6
ND16-HDB1604	R8	16.1	32.5	15.6
ND20-HDB2004	R10	20.1	38.5	19.6
ND25-HDB2504	R12.5	25.1	46	24.6

High Speed Cutting & High Hard Cutting

2 Flutes Ball Nose End Mills

超微粒 2 刃球型立銑刀

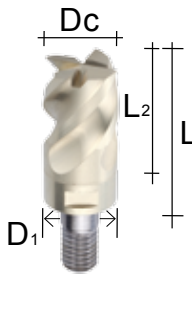


MG	HRC ▶55	ALL	30°	2Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	
Type No.	DC	L ₂	L ₁	D ₁
ND08-HDB0802	R4	8.1	19	7.6
ND10-HDB1002	R5	10.1	22	9.6
ND12-HDB1202	R6	12.1	26	11.6
ND16-HDB1602	R8	16.1	32.5	15.6
ND20-HDB2002	R10	20.1	38.5	19.6
ND25-HDB2502	R12.5	25.1	46	24.6

High Speed Cutting & High Hard Cutting

4 Flutes Square End Mills

極細超微粒 4 刃鋤鋼立銑刀

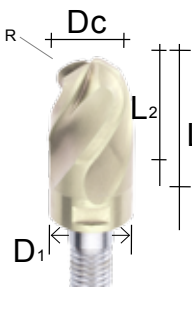


UMG	HRC ▶60	NF2	45°	4Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	
Type No.	DC	L ₂	L ₁	D ₁
ND08-HDE0804	8	8.1	19	7.6
ND10-HDE1004	10	10.1	22	9.6
ND12-HDE1204	12	12.1	26	11.6
ND16-HDE1604	16	16.1	32.5	15.6
ND20-HDE2064	20	20.1	38.5	19.6
ND25-HDE2504	25	25.1	46	24.6

High Speed Cutting & High Hard Cutting

4 Flutes Ball Nose End Mills

極細超微粒 4 刃球型立銑刀

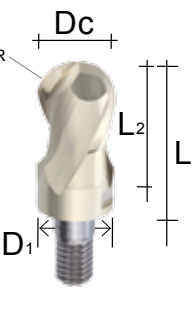


UMG	HRC ▶60	NF2	35°	4Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	
Type No.	DC	L ₂	L ₁	D ₁
ND08-JDB0804	R4	8.1	19	7.6
ND10-JDB1004	R5	10.1	22	9.6
ND12-JDB1204	R6	12.1	26	11.6
ND16-JDB1604	R8	16.1	32.5	15.6
ND20-JDB2004	R10	20.1	38.5	19.6
ND25-JDB2504	R12.5	25.1	46	24.6

High Speed Cutting & High Hard Cutting

2 Flutes Ball Nose End Mills

極細超微粒 2 刃球型立銑刀



UMG	HRC ▶60	NF2	30°	2Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	
Type No.	DC	L ₂	L ₁	D ₁
ND08-JDB0802	R4	8.1	19	7.6
ND10-JDB1002	R5	10.1	22	9.6
ND12-JDB1202	R6	12.1	26	11.6
ND16-JDB1602	R8	16.1	32.5	15.6
ND20-JDB2002	R10	20.1	38.5	19.6
ND25-JDB2502	R12.5	25.1	46	24.6

High Speed Cutting & High Hard Cutting

4 Flutes Corner Radius End Mills

超微粒 4 刃圓鼻立銑刀

MG HRC ▶55 ALL 45° 4Flutes					
型號	直徑(d1)	Coner R	刃長	全長	柄徑
Type No.	DC	R	L ₂	L ₁	D ₁
ND8-JDR0805	8	0.5	8.1	19	7.6
ND8-JDR0810	8	1.0	8.1	19	7.6
ND8-JDR1005	10	0.5	10.1	22	9.6
ND8-JDR1010	10	1.0	10.1	22	9.6
ND8-JDR1020	10	2.0	10.1	22	9.6
ND8-JDR1205	12	0.5	12.1	26	11.6
ND8-JDR1210	12	1.0	12.1	26	11.6
ND8-JDR1220	12	2.0	12.1	26	11.6
ND8-JDR1605	16	0.5	16.1	32.5	15.6
ND8-JDR1610	16	1.0	16.1	32.5	15.6
ND8-JDR1620	16	2.0	16.1	32.5	15.6
ND8-JDR1630	16	3.0	16.1	32.5	15.6
ND8-JDR2005	20	0.5	20.1	38.5	19.6
ND8-JDR2010	20	1.0	20.1	38.5	19.6
ND8-JDR2020	20	2.0	20.1	38.5	19.6
ND8-JDR2030	20	3.0	20.1	38.5	19.6
ND8-JDR2510	25	1.0	25.1	46	24.6
ND8-JDR2520	25	2.0	25.1	46	24.6
ND8-JDR2530	25	3.0	25.1	46	24.6
ND8-JDR2540	25	4.0	25.1	46	24.6

High Speed Cutting & High Hard Cutting

4 Flutes Corner Radius End Mills

極細超微粒 4 刃圓鼻立銑刀

UMG HRC ▶60 NF2 45° 4Flutes					
型號	直徑(d1)	Coner R	刃長		
Type No.	DC	R		L ₂	L ₁
ND8-HDR0805	8	0.5	8.1	19	7.6
ND8-HDR0810	8	1.0	8.1	19	7.6
ND8-HDR1005	10	0.5	10.1	22	9.6
ND8-HDR1010	10	1.0	10.1	22	9.6
ND8-HDR1020	10	2.0	10.1	22	9.6
ND8-HDR1205	12	0.5	12.1	26	11.6
ND8-HDR1210	12	1.0	12.1	26	11.6
ND8-HDR1220	12	2.0	12.1	26	11.6
ND8-HDR1605	16	0.5	16.1	32.5	15.6
ND8-HDR1610	16	1.0	16.1	32.5	15.6
ND8-HDR1620	16	2.0	16.1	32.5	15.6
ND8-HDR1630	16	3.0	16.1	32.5	15.6
ND8-HDR2005	20	0.5	20.1	38.5	19.6
ND8-HDR2010	20	1.0	20.1	38.5	19.6
ND8-HDR2020	20	2.0	20.1	38.5	19.6
ND8-HDR2030	20	3.0	20.1	38.5	19.6
ND8-HDR2510	25	1.0	25.1	46	24.6
ND8-HDR2520	25	2.0	25.1	46	24.6
ND8-HDR2530	25	3.0	25.1	46	24.6
ND8-HDR2540	25	4.0	25.1	46	24.6

HIGH SPEED CUTTING & HIGH HARD CUTTING 高速 & 高硬度切削用



High Speed Cutting & High Hard Cutting

Micro Diameter 2 Flutes Ball Nose End Mills

微小徑 2刃球型立銼刀 極細微粒碳化鎢 高速 & 高硬度切削用

UMG	0.2 μm	CO 9%	HRC >65-70	NF3	30°	2Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia		
VSBG 0022	R0.10	0.4	50	4		
VSBG 0032	R0.15	0.6	50	4		
VSBG 0042	R0.20	0.8	50	4		
VSBG 0052	R0.25	1.0	50	4		
VSBG 0062	R0.30	1.2	50	4		
VSBG 0072	R0.35	1.4	50	4		
VSBG 0082	R0.40	1.6	50	4		
VSBG 0092	R0.45	1.8	50	4		
VSBG 0122	R0.6	2.4	50	4		
VSBG 0142	R0.7	2.8	50	4		
VSBG 0162	R0.8	3.2	50	4		
VSBG 0182	R0.9	3.6	50	4		

High Speed Cutting & High Hard Cutting

4 Flutes Corner Radius End Mills

圓鼻 4刃立銼刀 極細微粒碳化鎢 高速 & 高硬度切削用

UMG	0.2 μm	CO 9%	HRC >65-70	NF3	35°	4Flutes	R
型號	刃徑(d1)	R	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Corner R	Flute Length	O.A.L	Shank Dia		
VGR 0102	1.0	0.2	2	50	4		
VGR 0202	2.0	0.2	4	50	4		
VGR 0205	2.0	0.5	4	50	4		
VGR 0252	2.5	0.2	5	50	4		
VGR 0255	2.5	0.5	5	50	4		
VGR 0302	3.0	0.2	6	50	4		
VGR 0305	3.0	0.5	6	50	4		
VGR 0310	3.0	1.0	6	50	4		
VGR 0402	4.0	0.2	8	50	4		
VGR 0405	4.0	0.5	8	50	4		
VGR 0410	4.0	1.0	8	50	4		
VGR 0505	5.0	0.5	10	50	6		
VGR 0510	5.0	1.0	10	50	6		
VGR 0602	6.0	0.2	12	50	6		
VGR 0605	6.0	0.5	12	50	6		
VGR 0610	6.0	1.0	12	50	6		
VGR 0615	6.0	1.5	12	50	6		
VGR 0620	6.0	2.0	12	50	6		
VGR 0805	8.0	0.5	16	60	8		
VGR 0810	8.0	1.0	16	60	8		
VGR 0820	8.0	2.0	16	60	8		
VGR 1005	10.0	0.5	20	75	10		
VGR 1010	10.0	1.0	20	75	10		
VGR 1020	10.0	2.0	20	75	10		
VGR 1030	10.0	3.0	20	75	10		
VGR 1205	12.0	0.5	24	75	12		
VGR 1210	12.0	1.0	24	75	12		
VGR 1220	12.0	2.0	24	75	12		
VGR 1230	12.0	3.0	24	75	12		

High Speed Cutting & High Hard Cutting

Micro Diameter Miniature 2 Flutes End Mills

微小徑 2刃立銼刀 極細微粒碳化鎢 高速 & 高硬度切削用

UMG	0.2 μm	CO 9%	HRC >65-70	NF3	35°	2Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia		
VSEG 0022	0.2	0.4	50	4		
VSEG 0032	0.3	0.6	50	4		
VSEG 0042	0.4	0.8	50	4		
VSEG 0052	0.5	1.0	50	4		
VSEG 0062	0.6	1.2	50	4		
VSEG 0072	0.7	1.4	50	4		
VSEG 0082	0.8	1.6	50	4		
VSEG 0092	0.9	1.8	50	4		
VSEG 0122	1.2	3	50	4		
VSEG 0142	1.4	3	50	4		
VSEG 0162	1.6	4	50	4		
VSEG 0182	1.8	5	50	4		

High Speed Cutting & High Hard Cutting

Standard 2 Flutes Long Neck Ball Nose End Mills

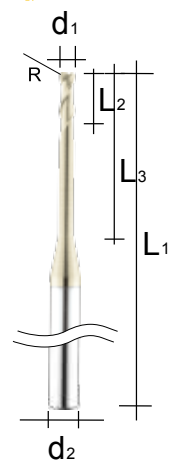
長頸短刃 2刃球型立銼刀 極細微粒碳化鎢 高速 & 高硬度切削用

UMG	0.2 μm	CO 9%	HRC >65-70	NF3	30°	2Flutes	R
型號	直徑(d1)	刃長(L2)	有效長(L3)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Flute Length	Effective Length	O.A.L	Shank Dia		
VNB 0402	R0.2	0.8	2	50	4		
VNB 0404	R0.2	0.8	4	50	4		
VNB 0504	R0.25	1.0	4	50	4		
VNB 0506	R0.25	1.0	6	50	4		
VNB 0604	R0.3	1.2	4	50	4		
VNB 0606	R0.3	1.2	6	50	4		
VNB 0608	R0.3	1.2	8	50	4		
VNB 0804	R0.4	1.2	4	50	4		
VNB 0806	R0.4	1.2	6	50	4		
VNB 0808	R0.4	1.2	8	50	4		
VNB 0810	R0.4	1.2	10	50	4		
VNB 1004	R0.5	1.5	4	50	4		
VNB 1006	R0.5	1.5	6	50	4		
VNB 1008	R0.5	1.5	8	50	4		
VNB 1010	R0.5	1.5	10	50	4		
VNB 1012	R0.5	1.5	12	50	4		
VNB 1506	R0.75	3.0	6	50	4		
VNB 1508	R0.75	3.0	8	50	4		
VNB 1512	R0.75	3.0	12	50	4		
VNB 1516	R0.75	3.0	16	50	4		
VNB 1520	R0.75	3.0	20	50	4		
VNB 2006	R1.0	4.0	6	50	4		
VNB 2008	R1.0	4.0	8	50	4		
VNB 2012	R1.0	4.0	12	50	4		
VNB 2016	R1.0	4.0	16	50	4		
VNB 2020	R1.0	4.0	20	50	4		
VNB 3008	R1.5	4.0	8	50	4		
VNB 3012	R1.5	4.0	12	50	4		
VNB 3016	R1.5	4.0	16	50	4		
VNB 3020	R1.5	4.0	20	60	6		
VNB 3025	R1.5	4.0	25	60	6		
VNB 4010	R2.0	5.0	10	75	6		
VNB 4016	R2.0	5.0	16	75	6		
VNB 4020	R2.0	5.0	20	75	6		
VNB 4025	R2.0	5.0	25	75	6		
VNB 4030	R2.0	5.0	30	75	6		

High Speed Cutting & High Hard Cutting

2 Flutes Long Neck Corner Radius End Mills

長頸短刃圓鼻 2 刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

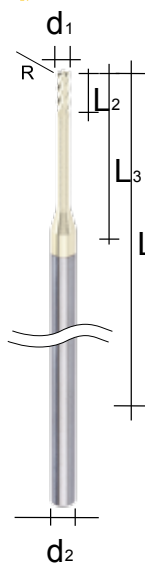


型號	刃徑(d1)	R	刃長(L2)	有效長(L3)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Corner R	Flute Length	Effective Length	O.A.L	Shank Dia
VNMR 1004	1.0	0.2	2.0	4	50	4
VNMR 1006	1.0	0.2	2.0	6	50	4
VNMR 1008	1.0	0.2	2.0	8	50	4
VNMR 1012	1.0	0.2	2.0	12	50	4
VNMR 1504	1.5	0.2	2.0	4	50	4
VNMR 1506	1.5	0.2	2.0	6	50	4
VNMR 1508	1.5	0.2	2.0	8	50	4
VNMR 1512	1.5	0.2	2.0	12	50	4
VNMR 2008	2.0	0.2	4.0	8	50	4
VNMR 2010	2.0	0.2	4.0	10	50	4
VNMR 2012	2.0	0.2	4.0	12	50	4
VNMR 2016	2.0	0.2	4.0	16	50	4
VNMR 2008A	2.0	0.5	4.0	8	50	4
VNMR 2010A	2.0	0.5	4.0	10	50	4
VNMR 2012A	2.0	0.5	4.0	12	50	4
VNMR 2016A	2.0	0.5	4.0	16	50	4
VNMR 3008A	3.0	0.5	6.0	8	50	4
VNMR 3012A	3.0	0.5	6.0	12	50	4
VNMR 3016A	3.0	0.5	6.0	16	50	6
VNMR 3020A	3.0	0.5	6.0	20	50	6
VNMR 0308	3.0	0.2	6.0	8	50	4
VNMR 0312	3.0	0.2	6.0	12	50	4
VNMR 0316	3.0	0.2	6.0	16	50	4
VNMR 0320	3.0	0.2	6.0	20	50	4
VNMR 4012A	4.0	0.5	8.0	12	50	6
VNMR 4016A	4.0	0.5	8.0	16	75	6
VNMR 4020A	4.0	0.5	8.0	20	75	6
VNMR 4025A	4.0	0.5	8.0	25	75	6
VNMR 4030A	4.0	0.5	8.0	30	75	6
VNMR 0412	4.0	0.2	8.0	12	50	6
VNMR 0416	4.0	0.2	8.0	16	75	6
VNMR 0420	4.0	0.2	8.0	20	75	6
VNMR 0425	4.0	0.2	8.0	25	75	6
VNMR 0430	4.0	0.2	8.0	30	75	6

High Speed Cutting & High Hard Cutting

4 Flutes Long Neck Corner Radius End Mills

長頸短刃圓鼻 4 刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

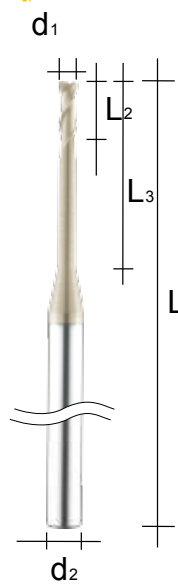


型號	刃徑(d1)	R	刃長(L2)	有效長(L3)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Corner R	Flute Length	Effective Length	O.A.L	Shank Dia
4VNMR 1004	1.0	0.2	2.0	4	50	4
4VNMR 1006	1.0	0.2	2.0	6	50	4
4VNMR 1008	1.0	0.2	2.0	8	50	4
4VNMR 1012	1.0	0.2	2.0	12	50	4
4VNMR 1504	1.5	0.2	2.0	4	50	4
4VNMR 1506	1.5	0.2	2.0	6	50	4
4VNMR 1508	1.5	0.2	2.0	8	50	4
4VNMR 1512	1.5	0.2	2.0	12	50	4
4VNMR 2008	2.0	0.2	4.0	8	50	4
4VNMR 2010	2.0	0.2	4.0	10	50	4
4VNMR 2012	2.0	0.2	4.0	12	50	4
4VNMR 2016	2.0	0.2	4.0	16	50	4
4VNMR 2008A	2.0	0.5	4.0	8	50	4
4VNMR 2010A	2.0	0.5	4.0	10	50	4
4VNMR 2012A	2.0	0.5	4.0	12	50	4
4VNMR 2016A	2.0	0.5	4.0	16	50	4
4VNMR 3008A	3.0	0.5	6.0	8	50	4
4VNMR 3012A	3.0	0.5	6.0	12	50	4
4VNMR 3016A	3.0	0.5	6.0	16	50	6
4VNMR 3020A	3.0	0.5	6.0	20	50	6
4VNMR 0308	3.0	0.2	6.0	8	50	4
4VNMR 0312	3.0	0.2	6.0	12	50	4
4VNMR 0316	3.0	0.2	6.0	16	50	4
4VNMR 0320	3.0	0.2	6.0	20	50	4
4VNMR 4012A	4.0	0.5	8.0	12	50	6
4VNMR 4016A	4.0	0.5	8.0	16	75	6
4VNMR 4020A	4.0	0.5	8.0	20	75	6
4VNMR 4025A	4.0	0.5	8.0	25	75	6
4VNMR 4030A	4.0	0.5	8.0	30	75	6
4VNMR 0412	4.0	0.2	8.0	12	50	6
4VNMR 0416	4.0	0.2	8.0	16	75	6
4VNMR 0420	4.0	0.2	8.0	20	75	6
4VNMR 0425	4.0	0.2	8.0	25	75	6
4VNMR 0430	4.0	0.2	8.0	30	75	6

High Speed Cutting & High Hard Cutting

Long Neck Short Length Square 2 Flutes End Mills

長頸短刃 2 刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

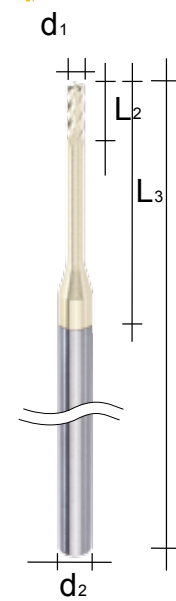


型號	直徑(d1)	刃長(L2)	有效長(L3)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	Effective Length	O.A.L	Shank Dia
VNE 0402	0.4	0.8	2	50	4
VNE 0404	0.4	0.8	4	50	4
VNE 0504	0.5	1.0	4	50	4
VNE 0506	0.5	1.0	6	50	4
VNE 0604	0.6	1.2	4	50	4
VNE 0606	0.6	1.2	6	50	4
VNE 0608	0.6	1.2	8	50	4
VNE 0804	0.8	1.6	4	50	4
VNE 0806	0.8	1.6	6	50	4
VNE 0808	0.8	1.6	8	50	4
VNE 1006	1.0	3.0	6	50	4
VNE 1008	1.0	3.0	8	50	4
VNE 1010	1.0	3.0	10	50	4
VNE 1012	1.0	3.0	12	50	4
VNE 1016	1.0	3.0	16	50	4
VNE 1506	1.5	4.0	6	50	4
VNE 1508	1.5	4.0	8	50	4
VNE 1510	1.5	4.0	10	50	4
VNE 1512	1.5	4.0	12	50	4
VNE 1516	1.5	4.0	16	50	4
VNE 2008	2.0	6.0	8	50	4
VNE 2010	2.0	6.0	10	50	4
VNE 2012	2.0	6.0	12	50	4
VNE 2014	2.0	6.0	14	50	4
VNE 2016	2.0	6.0	16	50	4
VNE 2020	2.0	6.0	20	50	4
VNE 3010	3.0	6.0	10	50	4
VNE 3012	3.0	6.0	12	50	4
VNE 3014	3.0	6.0	14	50	4
VNE 3016	3.0	6.0	16	50	4
VNE 3020	3.0	6.0	20	60	6
VNE 3025	3.0	6.0	25	60	6
VNE 4014	4.0	10	14	75	6
VNE 4016	4.0	10	16	75	6
VNE 4020	4.0	10	20	75	6
VNE 4025	4.0	10	25	75	6
VNE 4030	4.0	10	30	75	6

High Speed Cutting & High Hard Cutting

Long Neck Short Length Square 4 Flutes End Mills

長頸短刃 4 刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

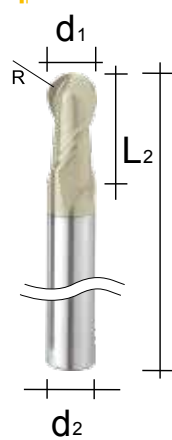


型號	直徑(d1)	刃長(L2)	有效長(L3)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	Effective Length	O.A.L	Shank Dia
4VNE 0402	0.4	0.8	2	50	4
4VNE 0404	0.4	0.8	4	50	4
4VNE 0504	0.5	1.0	4	50	4
4VNE 0506	0.5	1.0	6	50	4
4VNE 0604	0.6	1.2	4	50	4
4VNE 0606	0.6	1.2	6	50	4
4VNE 0608	0.6	1.2	8	50	4
4VNE 0804	0.8	1.6	4	50	4
4VNE 0806	0.8	1.6	6	50	4
4VNE 0808	0.8	1.6	8	50	4
4VNE 1006	1.0	3.0	6	50	4
4VNE 1008	1.0	3.0	8	50	4
4VNE 1010	1.0	3.0	10	50	4
4VNE 1012	1.0	3.0	12	50	4
4VNE 1016	1.0	3.0	16	50	4
4VNE 1506	1.5	4.0	6	50	4
4VNE 1508	1.5	4.0	8	50	4
4VNE 1510	1.5	4.0	10	50	4
4VNE 1512	1.5	4.0	12	50	4
4VNE 1516	1.5	4.0	16	50	4
4VNE 2008	2.0	6.0	8	50	4
4VNE 2010	2.0	6.0	10	50	4
4VNE 2012	2.0	6.0	12	50	4
4VNE 2014	2.0	6.0	14	50	4
4VNE 2016	2.0	6.0	16	50	4
4VNE 2020	2.0	6.0	20	50	4
4VNE 3010	3.0	6.0	10	50	4
4VNE 3012	3.0	6.0	12	50	4
4VNE 3014	3.0	6.0	14	50	4
4VNE 3016	3.0	6.0	16	50	4
4VNE 3020	3.0	6.0	20	60	6
4VNE 3025	3.0	6.0	25	60	6
4VNE 4014	4.0	10	14	75	6
4VNE 4016	4.0	10	16	75	6
4VNE 4020	4.0	10	20	75	6
4VNE 4025	4.0	10	25	75	6
4VNE 4030	4.0	10	30	75	6

High Speed Cutting & High Hard Cutting

Standard 2 Flutes Ball Nose End Mills

2 刃球型立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用



型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
VBG 0102	R0.5	2	50	4
VBG 0152	R0.75	3	50	4
VBG 0202	R1.0	4	50	4
VBG 0252	R1.25	5	50	4
VBG 0302	R1.5	6	50	4
VBG 0302A	R1.5	6	50	3
VBG 0402	R2.0	8	50	4
VBG 0502	R2.5	10	50	6
VBG 0602	R3.0	12	50	6
VBG 0802	R4.0	16	60	8
VBG 1002	R5.0	20	75	10
VBG 1202	R6.0	24	75	12
VBG 1602	R8.0	32	100	16
VBG 2002	R10.0	32	100	20

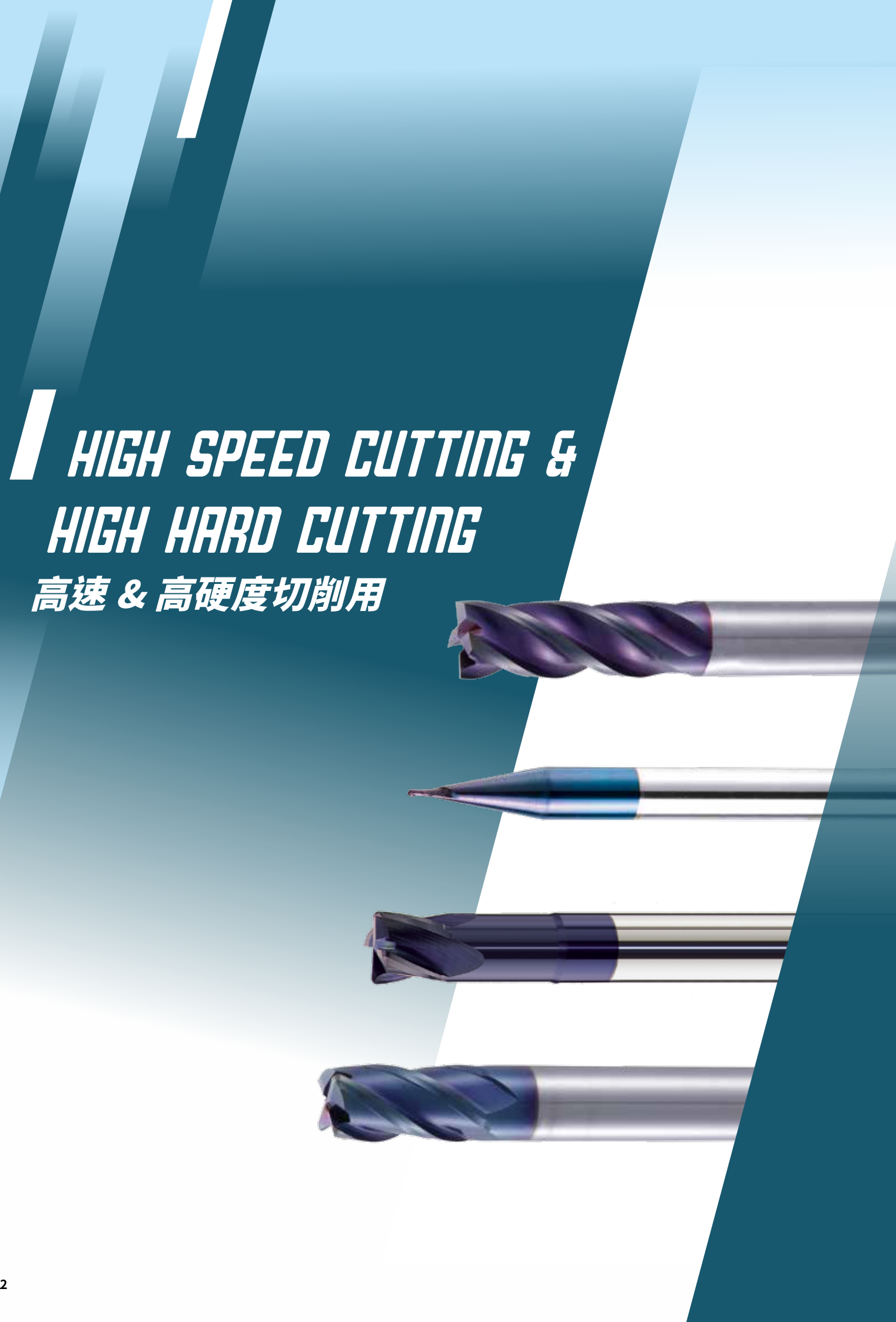
High Speed Cutting & High Hard Cutting

Standard 4 Flutes Square End Mills

4 刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用



型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
VEG 0104	1.0	3	50	4
VEG 0154	1.5	4	50	4
VEG 0204	2.0	6	50	4
VEG 0254	2.5	7	50	4
VEG 0304	3.0	8	50	4
VEG 0304A	3.0	8	50	3
VEG 0404	4.0	11	50	4
VEG 0504	5.0	13	50	6
VEG 0604	6.0	15	50	6
VEG 0804	8.0	20	60	8
VEG 1004	10.0	30	75	10
VEG 1204	12.0	30	75	12
VEG 1404	14.0	45	100	16
VEG 1604	16.0	50	100	16
VEG 1804	18.0	50	100	20
VEG 2004	20.0	50	100	20
VEG 2504	25.0	50	100	25



HIGH SPEED CUTTING & HIGH HARD CUTTING 高速 & 高硬度切削用

High Speed Cutting & High Hard Cutting

Standard 2 Flutes Ball Nose End Mills

2刃球型立銼刀 極細微粒碳化鎢 高速 & 高硬度切削用

UMG	0.2 μm	CO 9%	HRC >65	ALTIN	30°	2 Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia		
VB 0102	R0.5	2	50	4		
VB 0152	R0.75	3	50	4		
VB 0202	R1.0	4	50	4		
VB 0252	R1.25	5	50	4		
VB 0302	R1.5	6	50	4		
VB 0302A	R1.5	6	50	3		
VB 0402	R2.0	8	50	4		
VB 0502	R2.5	10	50	6		
VB 0602	R3.0	12	50	6		
VB 0802	R4.0	16	60	8		
VB 1002	R5.0	20	75	10		
VB 1202	R6.0	24	75	12		
VB 1602	R8.0	32	100	16		
VB 2002	R10.0	32	100	20		

High Speed Cutting & High Hard Cutting

Standard 4 Flutes Ball Nose End Mills

4刃球型立銼刀 極細微粒碳化鎢 高速 & 高硬度切削用

UMG	0.2 μm	CO 9%	HRC >65	ALTIN	30°	4 Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia		
VB 0104	R0.5	2	50	4		
VB 0154	R0.75	3	50	4		
VB 0204	R1.0	4	50	4		
VB 0304	R1.5	6	50	4		
VB 0304A	R1.5	6	50	3		
VB 0404	R2.0	8	50	4		
VB 0504	R2.5	10	50	6		
VB 0604	R3.0	12	50	6		
VB 0804	R4.0	16	60	8		
VB 1004	R5.0	20	75	10		
VB 1204	R6.0	24	75	12		
VB 1604	R8.0	32	100	16		
VB 2004	R10.0	32	100	20		

High Speed Cutting & High Hard Cutting

Standard 2 Flutes Ball Nose End Mills

2刃球型立銼刀 極細微粒碳化鎢 高速 & 高硬度切削用

UMG	0.2 μm	CO 9%	HRC >65	nAcoB	30°	2 Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia		
VBN 0102	R0.5	2	50	4		
VBN 0152	R0.75	3	50	4		
VBN 0202	R1.0	4	50	4		
VBN 0252	R1.25	5	50	4		
VBN 0302	R1.5	6	50	4		
VBN 0302A	R1.5	6	50	3		
VBN 0402	R2.0	8	50	4		
VBN 0502	R2.5	10	50	6		
VBN 0602	R3.0	12	50	6		
VBN 0802	R4.0	16	60	8		
VBN 1002	R5.0	20	75	10		
VBN 1202	R6.0	24	75	12		
VBN 1602	R8.0	32	100	16		
VBN 2002	R10.0	32	100	20		

High Speed Cutting & High Hard Cutting

Long Shank 2 Flutes Ball Nose End Mills

長柄型 2刃球型立銼刀 極細微粒碳化鎢 高速 & 高硬度切削用

UMG	0.2 μm	CO 9%	HRC >65	nAcoB	30°	2 Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia		
VIB 0102	R0.5	2	75	4		
VIB 0102A	R0.5	2	75	6		
VIB 0152	R0.75	3	75	4		
VIB 0152A	R0.75	3	75	6		
VIB 0202	R1.0	4	75	4		
VIB 0202A	R1.0	4	75	6		
VIB 0302	R1.5	6	75	4		
VIB 0302A	R1.5	6	75	6		
VIB 0402	R2.0	8	75	4		
VIB 0402A	R2.0	8	75	6		
VIB 0502	R2.5	10	75	6		
VIB 0602	R3.0	12	75	6		
VIB 0802	R4.0	16	75	8		
VJB 0202	R1.0	4	100	6		
VJB 0302	R1.5	6	100	6		
VJB 0402	R2.0	8	100	6		
VJB 0602	R3.0	12	100	6		
VJB 0802	R4.0	16	100	8		
VJB 1002	R5.0	20	100	10		
VJB 1202	R6.0	24	100	12		

High Speed Cutting & High Hard Cutting

4 Flutes Square End Mills

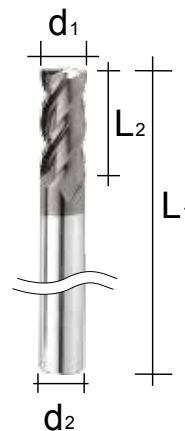
4刃立銼刀 極細微粒碳化鎢 高速 & 高硬度切削用

UMG	0.2 μm	CO 9%	HRC >65	ALTIN	45°	4 Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia		
VEA 0504	5.0	13	50	6		
VEA 0604	6.0	15	50	6		
VEA 0804	8.0	20	60	8		
VEA 1004	10.0	30	75	10		
VEA 1204	12.0	30	75	12		
VEA 1404	14.0	45	100	16		
VEA 1604	16.0	50	100	16		
VEA 1804	18.0	50	100	20		
VEA 2004	20.0	50	100	20		
VEA 2504	25.0	50	100	25		

High Speed Cutting & High Hard Cutting

Standard 4 Flutes Square End Mills

4刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

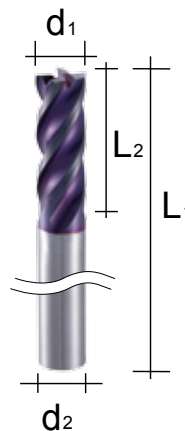


UMG	0.2 μm	CO 9%	HRC ▶65	ALTIN	35°	4Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia		
VE 0104	1.0	3	50	4		
VE 0154	1.5	4	50	4		
VE 0204	2.0	6	50	4		
VE 0254	2.5	7	50	4		
VE 0304	3.0	8	50	4		
VE 0304A	3.0	8	50	3		
VE 0404	4.0	11	50	4		
VE 0504	5.0	13	50	6		
VE 0604	6.0	15	50	6		
VE 0804	8.0	20	60	8		
VE 1004	10.0	30	75	10		
VE 1204	12.0	30	75	12		
VE 1404	14.0	45	100	16		
VE 1604	16.0	50	100	16		
VE 1804	18.0	50	100	20		
VE 2004	20.0	50	100	20		
VE 2504	25.0	50	100	25		

High Speed Cutting & High Hard Cutting

4 Flutes Square End Mills

4刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

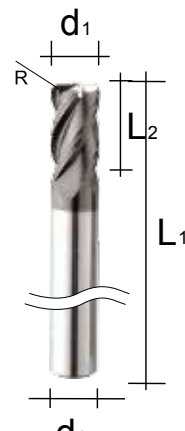


UMG	0.2 μm	CO 9%	HRC ▶65	nAcoB	35°	4Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia		
VEN 0104	1.0	3	50	4		
VEN 0154	1.5	4	50	4		
VEN 0204	2.0	6	50	4		
VEN 0304	3.0	8	50	4		
VEN 0404	4.0	11	50	4		
VEN 0504	5.0	13	50	6		
VEN 0604	6.0	15	50	6		
VEN 0804	8.0	20	60	8		
VEN 1004	10.0	30	75	10		
VEN 1204	12.0	30	75	12		
VEN 1604	16.0	50	100	16		
VEN 2004	20.0	50	100	20		

High Speed Cutting & High Hard Cutting

4 Flutes Corner Radius End Mills

圓鼻 4刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

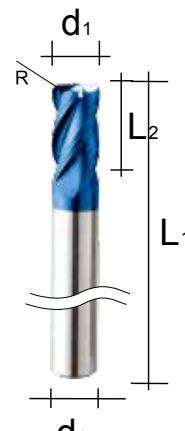


UMG	0.2 μm	CO 9%	HRC ▶65	ALTIN	35°	4Flutes	R
型號	刃徑(d1)	R	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Corner R	Flute Length	O.A.L	Shank Dia		
VER 0102	1.0	0.2	2	50	4		
VER 0202	2.0	0.2	4	50	4		
VER 0205	2.0	0.5	4	50	4		
VER 0252	2.5	0.2	5	50	4		
VER 0255	2.5	0.5	5	50	4		
VER 0302	3.0	0.2	6	50	4		
VER 0305	3.0	0.5	6	50	4		
VER 0310	3.0	1.0	6	50	4		
VER 0402	4.0	0.2	8	50	4		
VER 0405	4.0	0.5	8	50	4		
VER 0410	4.0	1.0	8	50	4		
VER 0505	5.0	0.5	10	50	6		
VER 0510	5.0	1.0	10	50	6		
VER 0602	6.0	0.2	12	50	6		
VER 0605	6.0	0.5	12	50	6		
VER 0610	6.0	1.0	12	50	6		
VER 0615	6.0	1.5	12	50	6		
VER 0620	6.0	2.0	12	50	6		
VER 0805	8.0	0.5	16	60	8		
VER 0810	8.0	1.0	16	60	8		
VER 0820	8.0	2.0	16	60	8		
VER 1005	10.0	0.5	20	75	10		
VER 1010	10.0	1.0	20	75	10		
VER 1020	10.0	2.0	20	75	10		
VER 1030	10.0	3.0	20	75	10		
VER 1205	12.0	0.5	24	75	12		
VER 1210	12.0	1.0	24	75	12		
VER 1220	12.0	2.0	24	75	12		
VER 1230	12.0	3.0	24	75	12		

High Speed Cutting & High Hard Cutting

4 Flutes Corner Radius End Mills

圓鼻 4刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

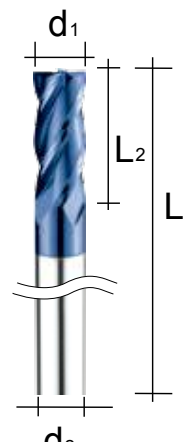


UMG	0.2 μm	CO 9%	HRC ▶65	nAcoB	35°	4Flutes	R
型號	刃徑(d1)	R	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Corner R	Flute Length	O.A.L	Shank Dia		
VERB 0102	1.0	0.2	2	50	4		
VERB 0202	2.0	0.2	4	50	4		
VERB 0205	2.0	0.5	4	50	4		
VERB 0252	2.5	0.2	5	50	4		
VERB 0255	2.5	0.5	5	50	4		
VERB 0302	3.0	0.2	6	50	4		
VERB 0305	3.0	0.5	6	50	4		
VERB 0310	3.0	1.0	6	50	4		
VERB 0402	4.0	0.2	8	50	4		
VERB 0405	4.0	0.5	8	50	4		
VERB 0410	4.0	1.0	8	50	4		
VERB 0505	5.0	0.5	10	50	6		
VERB 0510	5.0	1.0	10	50	6		
VERB 0602	6.0	0.2	12	50	6		
VERB 0605	6.0	0.5	12	50	6		
VERB 0610	6.0	1.0	12	50	6		
VERB 0615	6.0	1.5	12	50	6		
VERB 0620	6.0	2.0	12	50	6		
VERB 0805	8.0	0.5	16	60	8		
VERB 0810	8.0	1.0	16	60	8		
VERB 0820	8.0	2.0	16	60	8		
VERB 1005	10.0	0.5	20	75	10		
VERB 1010	10.0	1.0	20	75	10		
VERB 1020	10.0	2.0	20	75	10		
VERB 1205	12.0	0.5	24	75	12		
VERB 1210	12.0	1.0	24	75	12		
VERB 1220	12.0	2.0	24	75	12		

High Speed Cutting & High Hard Cutting

4 Flutes Short Length Long Square End Mills

長柄型 4刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

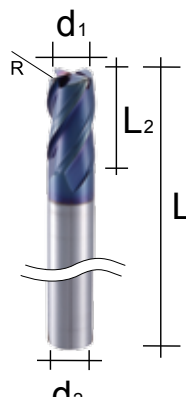


UMG	0.2 μm	CO 9%	HRC ▶60	nAcoB	35°	4Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia		
VEL 0104	1.0	3	75	4		
VEL 0104A	1.0	3	100	6		
VEL 0154	1.5	4	75	4		
VEL 0154A	1.5	4	100	6		
VEL 0204	2.0	6	75	4		
VEL 0204A	2.0	6	100	6		
VEL 0304	3.0	8	75	4		
VEL 0304A	3.0	8	100	6		
VEL 0404	4.0	11	75	4		
VEL 0404A	4.0	11	100	6		
VEL 0504	5.0	13	75	6		
VEL 0504A	5.0	13	100	6		
VEL 0604	6.0	15	75	6		
VEL 0604A	6.0	15	100	6		
VEL 0604B	6.0	15	150	6		
VEL 0804	8.0	20	75	8		
VEL 0804A	8.0	20	100	8		
VEL 0804B	8.0	20	150	8		
VEL 1004	10.0	25	100	10		
VEL 1004A	10.0	25	150	10		
VEL 1204	12.0	30	100	12		
VEL 1204A	12.0	30	150	12		
VEL 1604	16.0	45	150	16		
VEL 1604A	16.0	45	200	16		
VEL 2004	20.0	50	150	20		
VEL 2004A	20.0	50	200	20		

High Speed Cutting & High Hard Cutting

4 Flutes Long Shank Corner Radius End Mills

長柄圓鼻 4刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用



UMG	0.2 μm	CO 9%	HRC ▶65	nAcoB	35°	4Flutes	R
型號	刃徑(d1)	R	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Corner R	Flute Length	O.A.L	Shank Dia		
VLER 0605	6.0	0.5	12	75	6		
VLER 0605A	6.0	0.5	12	100	6		
VLER 0610	6.0	1.0	12	75	6		
VLER 0610A	6.0	1.0	12	100	6		
VLER 0805	8.0	0.5	16	100	8		
VLER 0810	8.0	1.0	16	100	8		
VLER 1005	10.0	0.5	20	100	10		
VLER 1010	10.0	1.0	20	100	10		
VLER 1020	10.0	2.0	20	100	10		
VLER 1210	12.0	1.0	24	100	12		
VLER 1220	12.0	2.0	24	100	12		

High Speed Cutting & High Hard Cutting

Short Flute 4 Flutes Corner Radius End Mills

短刃 圓鼻4刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

UMG 0.2μm CO9% HRC▶65 nAcoB 25° 4Flutes R								
型號	刃徑(d1)	R	刃長(L2)	有效長(L3)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Corner R	Flute Length	Effective Length	O.A.L	Shank Dia		
VMR 0605	6	0.5	6	15	50	6		
VMR 0610	6	1.0	6	15	50	6		
VMR 0805	8	0.5	8	20	50	8		
VMR 0810	8	1.0	8	20	50	8		
VMR 1010	10	1.0	10	25	50	10		
VMR 1020	10	2.0	10	25	75	10		
VMR 1030	10	3.0	10	25	75	10		
VMR 1210	12	1.0	12	30	75	12		
VMR 1220	12	2.0	12	30	75	12		

HIGH SPEED CUTTING & HIGH HARD CUTTING 高速 & 高硬度切削用

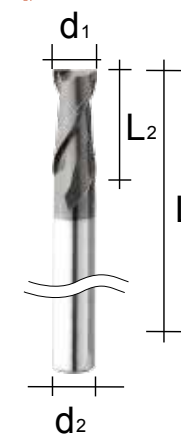


End mill 平刀系列

High Speed Cutting & High Hard Cutting

2 Flutes Square End Mills

2刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用



型號	直徑(d1)	刃長(L2)	全長(L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HE 0102	1.0	3	50	4
HE 0152	1.5	4	50	4
HE 0202	2.0	6	50	4
HE 0252	2.5	7	50	4
HE 0302	3.0	8	50	4
HE 0302A	3.0	8	50	3
HE 0402	4.0	11	50	4
HE 0502	5.0	13	50	6
HE 0602	6.0	15	50	6
HE 0802	8.0	20	60	8
HE 1002	10.0	30	75	10
HE 1202	12.0	30	75	12
HE 1402	14.0	45	100	16
HE 1602	16.0	50	100	16
HE 1802	18.0	50	100	20
HE 2002	20.0	50	100	20
HE 2502	25.0	50	100	25

High Speed Cutting & High Hard Cutting

4 Flutes Square End Mills

4刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用



型號	直徑(d1)	刃長(L2)	全長(L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HEA 0104	1.0	3	50	4
HEA 0154	1.5	4	50	4
HEA 0204	2.0	6	50	4
HEA 0254	2.5	7	50	4
HEA 0304	3.0	8	50	4
HEA 0404	4.0	11	50	4
HEA 0504	5.0	13	50	6
HEA 0604	6.0	15	50	6
HEA 0804	8.0	20	60	8
HEA 1004	10.0	30	75	10
HEA 1204	12.0	30	75	12
HEA 1404	14.0	45	100	16
HEA 1604	16.0	50	100	16
HEA 1804	18.0	50	100	20
HEA 2004	20.0	50	100	20
HEA 2504	25.0	50	100	25

High Speed Cutting & High Hard Cutting

Micro Diameter Miniature 2 Flutes End Mills

微小徑 2刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用



型號	直徑(d1)	刃長(L2)	全長(L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HSE 0022	0.2	0.4	50	4
HSE 0032	0.3	0.6	50	4
HSE 0042	0.4	0.8	50	4
HSE 0052	0.5	1.0	50	4
HSE 0062	0.6	1.2	50	4
HSE 0072	0.7	1.4	50	4
HSE 0082	0.8	1.6	50	4
HSE 0092	0.9	1.8	50	4
HSE 0122	1.2	3	50	4
HSE 0142	1.4	3	50	4
HSE 0162	1.6	4	50	4
HSE 0182	1.8	5	50	4

High Speed Cutting & High Hard Cutting

4 Flutes Square End Mills

4刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

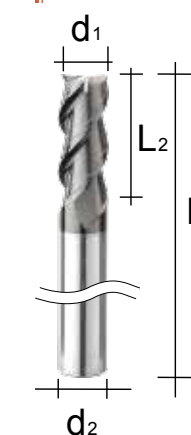


型號	直徑(d1)	刃長(L2)	全長(L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HE 0104	1.0	3	50	4
HE 0154	1.5	4	50	4
HE 0204	2.0	6	50	4
HE 0254	2.5	7	50	4
HE 0304	3.0	8	50	4
HE 0304A	3.0	8	50	3
HE 0404	4.0	11	50	4
HE 0504	5.0	13	50	6
HE 0604	6.0	15	50	6
HE 0804	8.0	20	60	8
HE 1004	10.0	30	75	10
HE 1204	12.0	30	75	12
HE 1404	14.0	45	100	16
HE 1604	16.0	50	100	16
HE 1804	18.0	50	100	20
HE 2004	20.0	50	100	20
HE 2504	25.0	50	100	25

High Speed Cutting & High Hard Cutting

3 Flutes Square End Mills

3刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用



型號	直徑(d1)	刃長(L2)	全長(L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HEF 0103	1.0	3	50	4
HEF 0203	2.0	6	50	4
HEF 0303	3.0	8	50	4
HEF 0403	4.0	11	50	4
HEF 0503	5.0	13	50	6
HEF 0603	6.0	15	50	6
HEF 0803	8.0	20	60	8
HEF 1003	10.0	30	75	10
HEF 1203	12.0	30	75	12
HEF 1603	16.0	50	100	16
HEF 2003	20.0	50	100	20
HEF 2503	25.0	50	100	25

High Speed Cutting & High Hard Cutting

4 Flutes Square End Mills

4刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HEB 0204	2.0	6	50	4
HEB 0204A	2.0	6	50	6
HEB 0304	3.0	8	50	4
HEB 0304A	3.0	8	50	6
HEB 0404	4.0	11	50	4
HEB 0404A	4.0	11	50	6
HEB 0504	5.0	13	50	6
HEB 0604	6.0	16	50	6
HEB 0804	8.0	20	60	8
HEB 1004	10.0	30	75	10
HEB 1204	12.0	30	75	12
HEB 1604	16.0	40	100	16
HEB 2004	20.0	45	100	20

High Speed Cutting & High Hard Cutting

4 Flutes Square End Mills

4刃立銑刀 極細微粒碳化鎢 高速極高硬度切削用

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HEG 0204	2.0	6	50	4
HEG 0204A	2.0	6	50	6
HEG 0304	3.0	8	50	4
HEG 0304A	3.0	8	50	6
HEG 0404	4.0	11	50	4
HEG 0404A	4.0	11	50	6
HEG 0504	5.0	13	50	6
HEG 0604	6.0	16	50	6
HEG 0804	8.0	20	60	8
HEG 1004	10.0	30	75	10
HEG 1204	12.0	30	75	12
HEG 1604	16.0	40	100	16
HEG 2004	20.0	45	100	20

High Speed Cutting & High Hard Cutting

6 Flutes Long Shank End Mills

長刃型 6刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
LHVT 0606	6.0	25	75	6
LHVT 0606A	6.0	30	100	6
LHVT 0806	8.0	35	75	8
LHVT 0806A	8.0	35	100	8
LHVT 1006	10.0	40	100	10
LHVT 1006A	10.0	40	150	10
LHVT 1206	12.0	45	100	12
LHVT 1206A	12.0	45	150	12
LHVT 1606	16.0	60	150	16
LHVT 1606A	16.0	100	200	16
LHVT 2006	20.0	80	150	20
LHVT 2006A	20.0	100	200	20

High Speed Cutting & High Hard Cutting

Long Neck Short Length Square 2 Flutes End Mills

長頸短刀 2刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

型號	直徑(d1)	刃長(L2)	有效長(L3)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	Effective Length	O.A.L	Shank Dia
HNE 0402	0.4	0.8	2	50	4
HNE 0404	0.4	0.8	4	50	4
HNE 0504	0.5	1.0	4	50	4
HNE 0506	0.5	1.0	6	50	4
HNE 0604	0.6	1.2	4	50	4
HNE 0606	0.6	1.2	6	50	4
HNE 0608	0.6	1.2	8	50	4
HNE 0804	0.8	1.6	4	50	4
HNE 0806	0.8	1.6	6	50	4
HNE 0808	0.8	1.6	8	50	4
HNE 1006	1.0	3.0	6	50	4
HNE 1008	1.0	3.0	8	50	4
HNE 1010	1.0	3.0	10	50	4
HNE 1012	1.0	3.0	12	50	4
HNE 1016	1.0	3.0	16	50	4
HNE 1506	1.5	4.0	6	50	4
HNE 1508	1.5	4.0	8	50	4
HNE 1510	1.5	4.0	10	50	4
HNE 1512	1.5	4.0	12	50	4
HNE 1516	1.5	4.0	16	50	4
HNE 2008	2.0	6.0	8	50	4
HNE 2010	2.0	6.0	10	50	4
HNE 2012	2.0	6.0	12	50	4
HNE 2014	2.0	6.0	14	50	4
HNE 2016	2.0	6.0	16	50	4
HNE 2020	2.0	6.0	20	50	4
HNE 3010	3.0	6.0	10	50	4
HNE 3012	3.0	6.0	12	50	4
HNE 3014	3.0	6.0	14	50	4
HNE 3016	3.0	6.0	16	50	4
HNE 3020	3.0	6.0	20	60	6
HNE 3025	3.0	6.0	25	60	6
HNE 4014	4.0	10	14	75	6
HNE 4016	4.0	10	16	75	6
HNE 4020	4.0	10	20	75	6
HNE 4025	4.0	10	25	75	6
HNE 4030	4.0	10	30	75	6

High Speed Cutting & High Hard Cutting

Heavy Cutting 3 Flutes End Mills

重切削 3刃波浪銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

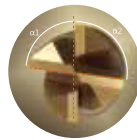
型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HXW 0603	6.0	16	50	6
HXW 0803	8.0	20	60	8
HXW 1003	10.0	30	75	10
HXW 1203	12.0	30	75	12
HXW 1603	16.0	45	100	16
HXW 2003	20.0	50	120	20

High Speed Cutting & High Hard Cutting

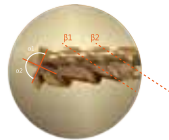
4 Flutes Square Variable Helix Angle End Mills

長柄 4刃變化螺旋立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HVE 0304	3.0	8	50	6
HVE 0404	4.0	11	50	6
HVE 0504	5.0	13	50	6
HVE 0604	6.0	16	50	6
HVE 0804	8.0	20	60	8
HVE 1004	10.0	25	75	10
HVE 1204	12.0	30	75	12
HVE 1604	16.0	40	100	16
HVE 2004	20.0	45	100	20



底刃不等距分割
Unequal spacing of end teeth



外周刃不等距導程
variable-lead of peripheral cutting edge

High Speed Cutting & High Hard Cutting

Long Neck Short Length Square 4 Flutes End Mills

長頸短刀 4刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

型號	直徑(d1)	刃長(L2)	有效長(L3)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	Effective Length	O.A.L	Shank Dia
4HNE 1006	1.0	3.0	6	50	4
4HNE 1008	1.0	3.0	8	50	4
4HNE 1010	1.0	3.0	10	50	4
4HNE 1012	1.0	3.0	12	50	4
4HNE 1016	1.0	3.0	16	50	4
4HNE 1506	1.5	4.0	6	50	4
4HNE 1508	1.5	4.0	8	50	4
4HNE 1510	1.5	4.0	10	50	4
4HNE 1512	1.5	4.0	12	50	4
4HNE 1516	1.5	4.0	16	50	4
4HNE 2008	2.0	6.0	8	50	4
4HNE 2010	2.0	6.0	10	50	4
4HNE 2012	2.0	6.0	12	50	4
4HNE 2014	2.0	6.0	14	50	4
4HNE 2016	2.0	6.0	16	50	4
4HNE 2020	2.0	6.0	20	50	4
4HNE 3010	3.0	6.0	10	50	4
4HNE 3012	3.0	6.0	12	50	4
4HNE 3014	3.0	6.0	14	50	4
4HNE 3016	3.0	6.0	16	50	4
4HNE 3020	3.0	6.0	20	60	6
4HNE 3025	3.0	6.0	25	60	6
4HNE 4014	4.0	10	14	75	6
4HNE 4016	4.0	10	16	75	6
4HNE 4020	4.0	10	20	75	6
4HNE 4025	4.0	10	25	75	6
4HNE 4030	4.0	10	30	75	6

High Speed Cutting & High Hard Cutting

Heavy Cutting 4 Flutes End Mills

重切削 4刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HXE 0204	2.0	6	50	4
HXE 0254A	2.0	6	50	6
HXE 0304	3.0	8	50	4
HXE 0304A	3.0	8	75	6
HXE 0404	4.0	11	50	4
HXE 0404A	4.0	11	75	6
HXE 0504	5.0	13	50	6
HXE 0604	6.0	15	50	6
HXE 0604A	6.0	15	75	6
HXE 0804	8.0	20	60	8
HXE 0804A	8.0	20	100	8
HXE 1004	10.0	25	75	10
HXE 1004A	10.0	25	100	10
HXE 1204	12.0	30	75	12
HXE 1204A	12.0	30	100	12
HXE 1604	16.0	40	100	16
HXE 1604A	16.0	40	150	16
HXE 2004	20.0	40	100	20
HXE 2004A	20.0	40	150	20

High Speed Cutting & High Hard Cutting

6 Flutes Square End Mills

6刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HVT 0606	6.0	15	50	6
HVT 0806	8.0	20	60	8
HVT 1006	10.0	25	75	10
HVT 1206	12.0	30	75	12
HVT 1606	16.0	40	100	16
HVT 2006	20.0	40	100	20
HVT 2506	25.0	40	100	25

High Speed Cutting & High Hard Cutting

2 Flutes Long Shank Short Length Square End Mills

長柄短刀 2刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HEL 0102	1.0	3	75	4
HEL 0202	2.0	6	75	4
HEL 0302	3.0	8	75	4
HEL 0402	4.0	10	75	4
HEL 0502	5.0	13	75	6
HEL 0602	6.0	15	75	6
HEL 0802	8.0	20	75	8
HEI 0302	3.0	8	100	4
HEI 0302A	3.0	8	100	6
HEI 0402	4.0	10	100	4
HEI 0402A	4.0	10	100	6
HEI 0502	5.0	13	100	6
HEI 0602	6.0	15	100	6
HEI 0802	8.0	20	100	8
HEI 1002	10.0	25	100	10
HEI 1202	12.0	30	100	12
HEJ 0602	6.0	15	150	6
HEJ 0802	8.0	20	150	8
HEJ 1002	10.0	25	150	10
HEJ 1202	12.0	30	150	12
HEJ 1402	14.0	45	150	16
HEJ 1602	16.0	45	150	16
HEJ 1802	18.0	45	150	20

High Speed Cutting & High Hard Cutting

4 Flutes Short Length Long Square End Mills

長柄型 4刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HEL 0104	1.0	3	75	4
HEL 0104A	1.0	3	100	6
HEL 0154	1.5	4	75	4
HEL 0154A	1.5	4	100	6
HEL 0204	2.0	6	75	4
HEL 0204A	2.0	6	100	6
HEL 0304	3.0	8	75	4
HEL 0304A	3.0	8	100	6
HEL 0404	4.0	11	75	4
HEL 0404A	4.0	11	100	6
HEL 0504	5.0	13	75	6
HEL 0504A	5.0	13	100	6
HEL 0604	6.0	15	75	6
HEL 0604A	6.0	15	100	6
HEL 0604B	6.0	15	150	6
HEL 0804	8.0	20	75	8
HEL 0804A	8.0	20	100	8
HEL 0804B	8.0	20	150	8
HEL 1004	10.0	25	100	10
HEL 1004A	10.0	25	150	10
HEL 1204	12.0	30	100	12
HEL 1204A	12.0	30	150	12
HEL 1604	16.0	45	150	16
HEL 1604A	16.0	45	200	16
HEL 2004	20.0	50	150	20
HEL 2004A	20.0	50	200	20

High Speed Cutting & High Hard Cutting

Long Flutes Square 2 Flutes End Mills

長刃型 2刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HEL F 0202	2.0	15	75	4
HEL F 0302	3.0	15	75	4
HEL F 0402	4.0	20	75	4
HEL F 0502	5.0	25	75	6
HEL F 0602	6.0	25	75	6
HEL F 0602A	6.0	30	100	6
HEL F 0802	8.0	25	75	8
HEL F 0802A	8.0	35	100	8
HEL F 1002	10.0	40	100	10
HEL F 1002A	10.0	40	150	10
HEL F 1202	12.0	45	100	12
HEL F 1202A	12.0	45	150	12
HEL F 1402	14.0	60	150	16
HEL F 1602	16.0	75	150	16
HEL F 1802	18.0	75	150	20
HEL F 2002	20.0	75	150	20

High Speed Cutting & High Hard Cutting

4 Flutes Long Shank Square End Mills

長刃型 4刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HEL F 0204	2.0	15	75	4
HEL F 0304	3.0	15	75	6
HEL F 0404	4.0	20	75	6
HEL F 0504	5.0	25	75	6
HEL F 0604	6.0	25	75	6
HEL F 0604A	6.0	30	100	6
HEL F 0804	8.0	25	75	8
HEL F 0804A	8.0	35	100	8
HEL F 1004	10.0	45	100	10
HEL F 1004A	10.0	45	150	10
HEL F 1204	12.0	45	100	12
HEL F 1204A	12.0	45	150	12
HEL F 1404	14.0	75	150	16
HEL F 1604	16.0	75	150	16
HEL F 1804	18.0	75	150	20
HEL F 2004	20.0	75	150	20

Ball Nose End mill
球刀系列

High Speed Cutting & High Hard Cutting

Standard 2 Flutes Ball Nose End Mills

2刃球型立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HB 0102	R0.5	2	50	4
HB 0152	R0.75	3	50	4
HB 0202	R1.0	4	50	4
HB 0252	R1.25	5	50	4
HB 0302	R1.5	6	50	4
HB 0302A	R1.5	6	50	3
HB 0402	R2.0	8	50	4
HB 0502	R2.5	10	50	6
HB 0602	R3.0	12	50	6
HB 0802	R4.0	16	60	8
HB 1002	R5.0	20	75	10
HB 1202	R6.0	24	75	12
HB 1602	R8.0	32	100	16
HB 2002	R10.0	32	100	20

High Speed Cutting & High Hard Cutting

Micro Diameter 2 Flutes Ball Nose End Mills

微小徑 2刃球型立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HSB 0022	R0.10	0.4	50	4
HSB 0032	R0.15	0.6	50	4
HSB 0042	R0.20	0.8	50	4
HSB 0052	R0.25	1.0	50	4
HSB 0062	R0.30	1.2	50	4
HSB 0072	R0.35	1.4	50	4
HSB 0082	R0.40	1.6	50	4
HSB 0092	R0.45	1.8	50	4
HSB 0122	R0.6	2.4	50	4
HSB 0142	R0.7	2.8	50	4
HSB 0162	R0.8	3.2	50	4
HSB 0182	R0.9	3.6	50	4

High Speed Cutting & High Hard Cutting

Standard 2 Flutes Ball Nose End Mills

2刃球型立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HBA 0102	R0.5	2	50	6
HBA 0152	R0.75	3	50	6
HBA 0202	R1.0	4	50	6
HBA 0252	R1.25	5	50	6
HBA 0302	R1.5	6	50	6
HBA 0402	R2.0	8	50	6

High Speed Cutting & High Hard Cutting

Standard 2 Flutes Ball Nose End Mills

2 刃球型立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HBG 0104	R0.5	2	50	4
HBG 0154	R0.75	3	50	4
HBG 0204	R1.0	4	50	4
HBG 0304	R1.5	6	50	4
HBG 0304A	R1.5	6	50	3
HBG 0404	R2.0	8	50	4
HBG 0504	R2.5	10	50	6
HBG 0604	R3.0	12	50	6
HBG 0804	R4.0	16	60	8
HBG 1004	R5.0	20	75	10
HBG 1204	R6.0	24	75	12
HBG 1604	R8.0	32	100	16
HBG 2004	R10.0	32	100	20

High Speed Cutting & High Hard Cutting

Standard 4 Flutes Ball Nose End Mills

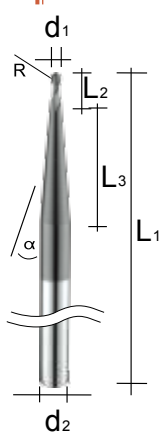
4刃球型立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HB 0104	R0.5	2	50	4
HB 0154	R0.75	3	50	4
HB 0204	R1.0	4	50	4
HB 0304	R1.5	6	50	4
HB 0304A	R1.5	6	50	3
HB 0404	R2.0	8	50	4
HB 0504	R2.5	10	50	6
HB 0604	R3.0	12	50	6
HB 0804	R4.0	16	60	8
HB 1004	R5.0	20	75	10
HB 1204	R6.0	24	75	12
HB 1604	R8.0	32	100	16
HB 2004	R10.0	32	100	20

High Speed Cutting & High Hard Cutting

Long Neck Taper 2 Flutes Ball Nose End Mills

長斜頸 2刃強力球型立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用



型號	直徑(d1)	刃長(L2)	斜頸(α)	斜頸長(L3)	全長(L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	Taper Angle	Flute Length	O.A.L	Shank Dia
HLB 0103	R0.5	2	3°	32	75	6
HLB 0105	R0.5	2	5°	32	75	6
HLB 0203	R1.0	4	3°	27	100	6
HLB 0205	R1.0	4	5°	27	100	6
HLB 0315	R1.5	6	1.5°	35	100	6
HLB 0303	R1.5	6	3°	35	100	6
HLB 0415	R2.0	8	1.5°	28	100	6
HLB 0403	R2.0	8	3°	28	100	6
HLB 0603	R3.0	12	3°	32	100	8
HLB 0605	R3.0	12	5°	35	100	10
HLB 0603A	R3.0	12	3°	32	150	8
HLB 0605A	R3.0	12	5°	35	150	10
HLB 0803	R4.0	16	3°	36	100	10
HLB 0805	R4.0	16	5°	39	100	12
HLB 0803A	R4.0	16	3°	36	150	10
HLB 0805A	R4.0	16	5°	39	150	12
HLB 1003	R5.0	20	3°	40	100	12
HLB 1003A	R5.0	20	3°	40	150	12
HLB 1205	R6.0	24	5°	47	100	16

High Speed Cutting & High Hard Cutting

Long Neck Short 2 Flutes Ball Nose End Mills

長頸短刃 2刃球型立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用



型號	直徑(d1)	刃長(L2)	有效長(L3)	全長(L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	Effective Length	O.A.L	Shank Dia
HNB 0402	R0.2	0.8	2	50	4
HNB 0404	R0.2	0.8	4	50	4
HNB 0504	R0.25	1.0	4	50	4
HNB 0506	R0.25	1.0	6	50	4
HNB 0604	R0.3	1.2	4	50	4
HNB 0606	R0.3	1.2	6	50	4
HNB 0608	R0.3	1.2	8	50	4
HNB 0804	R0.4	1.2	4	50	4
HNB 0806	R0.4	1.2	6	50	4
HNB 0808	R0.4	1.2	8	50	4
HNB 0810	R0.4	1.2	10	50	4
HNB 1004	R0.5	1.5	4	50	4
HNB 1006	R0.5	1.5	6	50	4
HNB 1008	R0.5	1.5	8	50	4
HNB 1010	R0.5	1.5	10	50	4
HNB 1012	R0.5	1.5	12	50	4
HNB 1506	R0.75	3.0	6	50	4
HNB 1508	R0.75	3.0	8	50	4
HNB 1512	R0.75	3.0	12	50	4
HNB 1516	R0.75	3.0	16	50	4
HNB 1520	R0.75	3.0	20	50	4
HNB 2006	R1.0	4.0	6	50	4
HNB 2008	R1.0	4.0	8	50	4
HNB 2012	R1.0	4.0	12	50	4
HNB 2016	R1.0	4.0	16	50	4
HNB 2020	R1.0	4.0	20	50	4
HNB 3008	R1.5	4.0	8	50	4
HNB 3012	R1.5	4.0	12	50	4
HNB 3016	R1.5	4.0	16	50	4
HNB 3020	R1.5	4.0	20	60	6
HNB 3025	R1.5	4.0	25	60	6
HNB 4010	R2.0	5.0	10	75	6
HNB 4016	R2.0	5.0	16	75	6
HNB 4020	R2.0	5.0	20	75	6
HNB 4025	R2.0	5.0	25	75	6
HNB 4030	R2.0	5.0	30	75	6

Corner Radius End mill

圓鼻系列

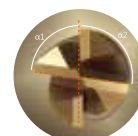
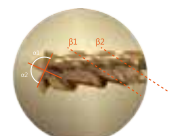
High Speed Cutting & High Hard Cutting

4 Flutes Corner Radius Square Variable Angle End Mills

4刃圓鼻變化螺旋立銑刀 高速 & 高硬度切削用



型號	直徑(d1)	R	刃長(L2)	全長(L1)	柄徑(d2)
Type NO.	Diameter	Corner R	Flute Length	O.A.L	Shank Dia
HVER 0305	3	0.5	6	50	6
HVER 0405	4	0.5	8	50	6
HVER 0505	5	0.5	10	50	6
HVER 0605	6	0.5	12	50	6
HVER 0610	6	1	12	50	6
HVER 0805	8	0.5	16	60	8
HVER 0810	8	1	16	60	8
HVER 1005	10	0.5	20	75	10
HVER 1010	10	1	20	75	10
HVER 1205	12	0.5	24	75	12
HVER 1210	12	1	24	75	12
HVER 1610	1	1	32	100	16
HVER 1620	2	2	32	100	16
HVER 2010	1	1	40	100	20
HVER 2020	2	2	40	100	20

底刃不等距分割
Unequal spacing of end teeth外周刃不等距導程
variable lead of peripheral cutting edge

High Speed Cutting & High Hard Cutting

Long Shank 2 Flutes Ball Nose End Mills

長柄型 2刃球型立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用



型號	直徑(d1)	刃長(L2)	全長(L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
HIB 0102	R0.5	2	75	4
HIB 0102A	R0.5	2	75	6
HIB 0152	R0.75	3	75	4
HIB 0152A	R0.75	3	75	6
HIB 0202	R1.0	4	75	4
HIB 0202A	R1.0	4	75	6
HIB 0302	R1.5	6	75	4
HIB 0302A	R1.5	6	75	6
HIB 0402	R2.0	8	75	4
HIB 0402A	R2.0	8	75	6
HIB 0502	R2.5	10	75	6
HIB 0602	R3.0	12	75	6
HIB 0802	R4.0	16	75	8
HJB 0202	R1.0	4	100	6
HJB 0302	R1.5	6	100	6
HJB 0402	R2.0	8	100	6
HJB 0602	R3.0	12	100	6
HJB 0802	R4.0	16	100	8
HJB 1002	R5.0	20	100	10
HJB 1202	R6.0	24	100	12
HKB 0602	R3.0	12	150	6
HKB 0802	R4.5	16	150	8
HKB 1002	R5.0	20	150	10
HKB 1202	R6.0	24	150	12
HKB 1602	R8.0	32	150	16
HKB 2002	R10.0	40	150	20
HKB 2502	R 12.5	40	150	25

High Speed Cutting & High Hard Cutting

2 Flutes Corner Radius Square End Mills

圓鼻 2刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用



型號	刃徑(d1)	R	刃長(L2)	全長(L1)	柄徑(d2)
Type NO.	Diameter	Corner R	Flute Length	O.A.L	Shank Dia
HNR 0102	1.0	0.2	2	50	4
HNR 0202	2.0	0.2	4	50	4
HNR 0205	2.0	0.5	4	50	4
HNR 0302	3.0	0.2	6	50	4
HNR 0305	3.0	0.5	6	50	4
HNR 0310	3.0	1.0	6	50	4
HNR 0402	4.0	0.2	8	50	4
HNR 0405	4.0	0.5	8	50	4
HNR 0410	4.0	1.0	8	50	4
HNR 0602	6.0	0.2	12	50	6
HNR 0605	6.0	0.5	12	50	6
HNR 0610	6.0	1.0	12	50	6
HNR 0620	6.0	2.0	12	60	6
HNR 0805	8.0	0.5	16	60	8
HNR 0810	8.0	1.0	16	60	8
HNR 0820	8.0	2.0	16	60	8
HNR 1005	10.0	0.5	20	75	10
HNR 1010	10.0	1.0	20	75	10
HNR 1020	10.0	2.0	20	75	10
HNR 1205	12.0	0.5	24	75	12
HNR 1210	12.0	1.0	24	75	12
HNR 1220	12.0	2.0	24	75	12
HNR 1230	12.0	3.0	24	75	12

High Speed Cutting & High Hard Cutting

4 Flutes Corner Radius End Mills

圓鼻 4刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用

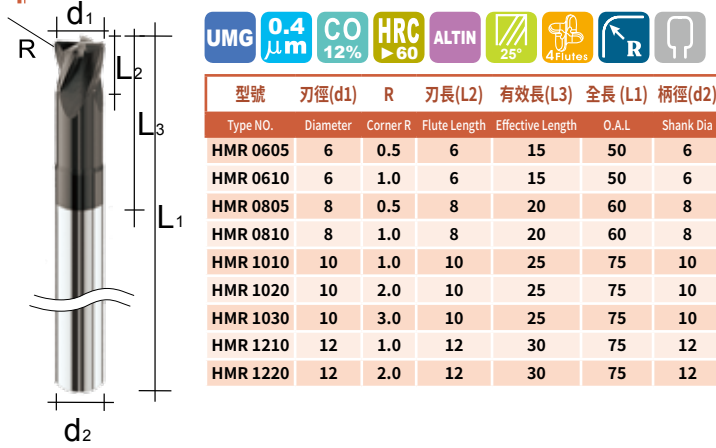


型號	刃徑(d1)	R	刃長(L2)	全長(L1)	柄徑(d2)
Type NO.	Diameter	Corner R	Flute Length	O.A.L	Shank Dia
HER 0102	1.0	0.2	2	50	4
HER 0202	2.0	0.2	4	50	4
HER 0205	2.0	0.5	4	50	4
HER 0252	2.5	0.2	5	50	4
HER 0255	2.5	0.5	5	50	4
HER 0302	3.0	0.2	6	50	4
HER 0305	3.0	0.5	6	50	4
HER 0310	3.0	1.0	6	50	4
HER 0402	4.0	0.2	8	50	4
HER 0405	4.0	0.5	8	50	4
HER 0410	4.0	1.0	8	50	4
HER 0505	5.0	0.5	10	50	6
HER 0510	5.0	1.0	10	50	6
HER 0602	6.0	0.2	12	50	6
HER 0605	6.0	0.5	12	50	6
HER 0610	6.0	1.0	12	50	6
HER 0615	6.0	1.5	12	50	6
HER 0620	6.0	2.0	12	50	6
HER 0805	8.0	0.5	16	60	8
HER 0810	8.0	1.0	16	60	8
HER 0820	8.0	2.0	16	60	8
HER 1005	10.0	0.5	20	75	10
HER 1010	10.0	1.0	20	75	10
HER 1020	10.0	2.0	20	75	10
HER 1030	10.0	3.0	20	75	10
HER 1205	12.0	0.5	24	75	12
HER 1210	12.0	1.0	24	75	12
HER 1220	12.0	2.0	24	75	12
HER 1230	12.0	3.0	24	75	12

High Speed Cutting & High Hard Cutting

Short Flute 4 Flutes Corner Radius End Mills

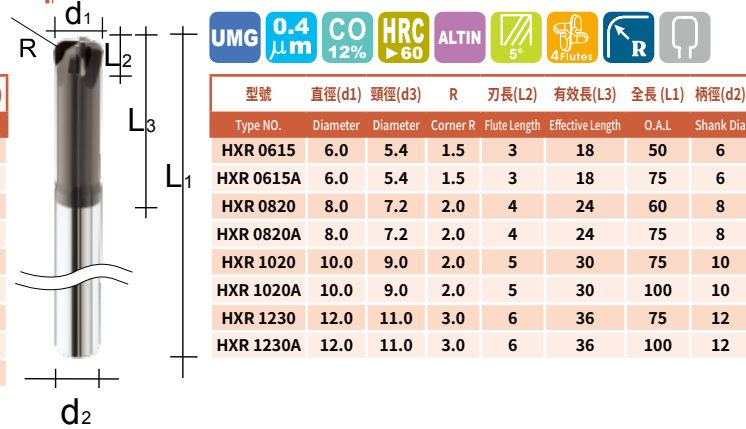
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High Speed Cutting & High Hard Cutting

Heavy Cutting 4 Flutes Corner Radius End Mills

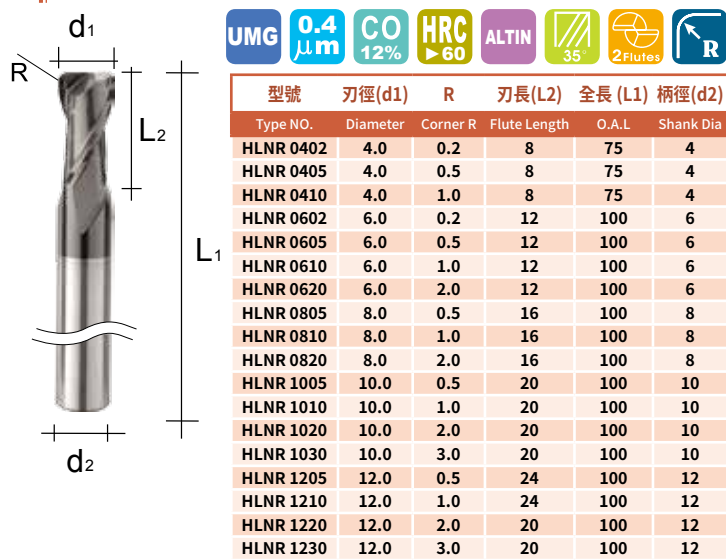
重切削 圓鼻4刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用



High Speed Cutting & High Hard Cutting

2 Flutes Long Shank Corner Radius Square End Mills

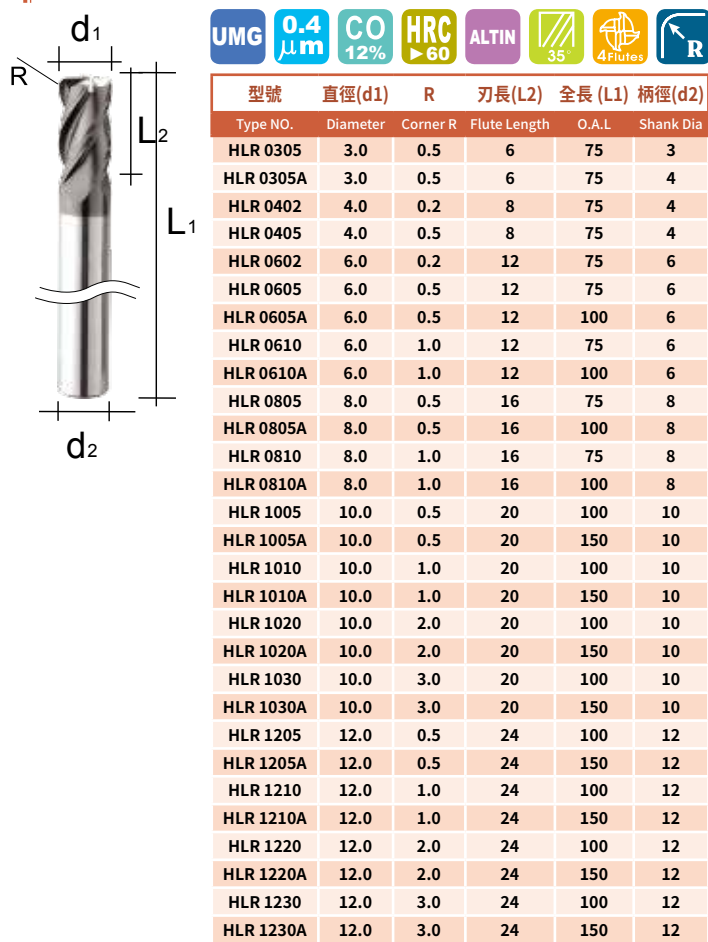
長柄圓鼻 2刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用



High Speed Cutting & High Hard Cutting

4 Flutes Long Shank Corner Radius End Mills

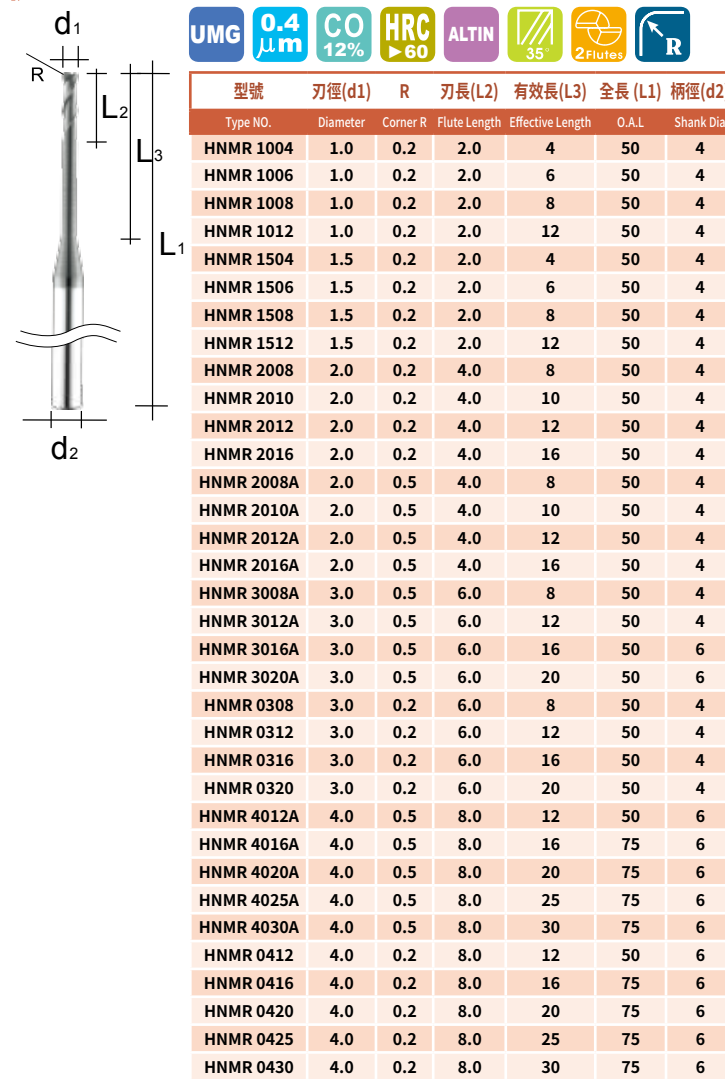
長柄圓鼻 4刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用



High Speed Cutting & High Hard Cutting

2 Flutes Long Neck Corner Radius End Mills

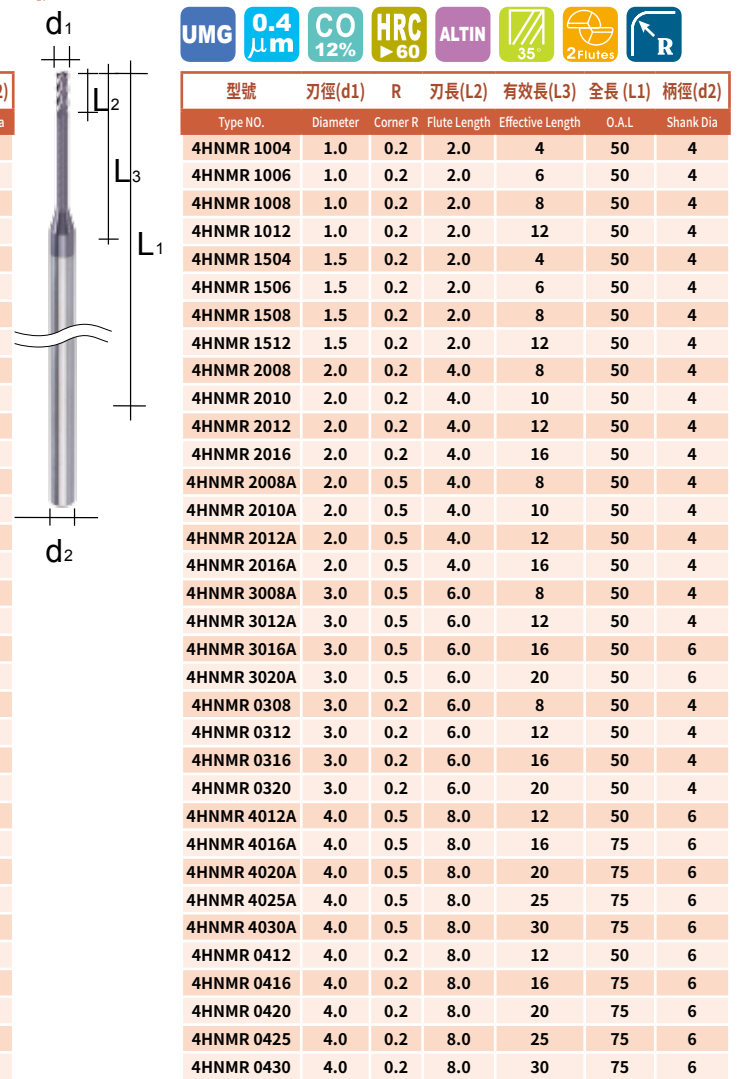
長頸短刃圓鼻 2刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用



High Speed Cutting & High Hard Cutting

4 Flutes Long Neck Corner Radius End Mills

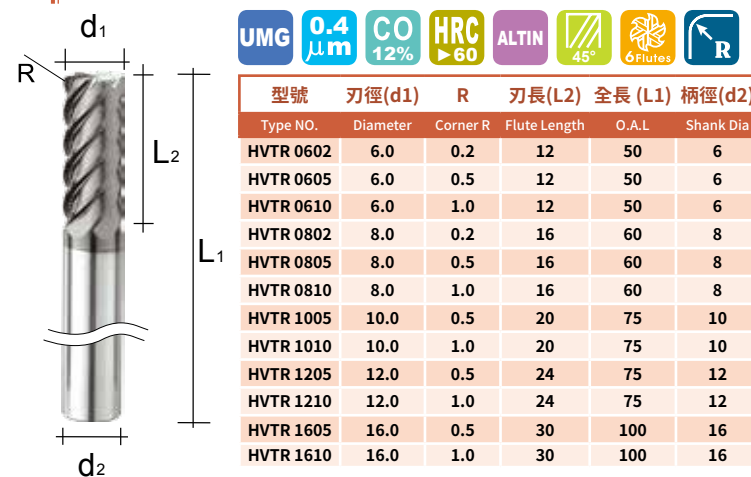
長頸短刃圓鼻 4 刃立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用



High Speed Cutting & High Hard Cutting

6 Flutes Corner Radius End Mills

微小徑 6刃圓鼻立銑刀 極細微粒碳化鎢 高速 & 高硬度切削用



J SERIES

J 系列



End Mills Series

2 Flutes Square End Mills

2刃立銑刀 超微粒碳化鎢

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
JE 0102	1.0	3	50	4
JE 0152	1.5	4	50	4
JE 0202	2.0	6	50	4
JE 0252	2.5	7	50	4
JE 0302	3.0	8	50	4
JE 0302A	3.0	8	50	3
JE 0402	4.0	11	50	4
JE 0502	5.0	13	50	6
JE 0602	6.0	15	50	6
JE 0802	8.0	20	60	8
JE 1002	10.0	30	75	10
JE 1202	12.0	30	75	12
JE 1402	14.0	45	100	16
JE 1602	16.0	50	100	16
JE 1802	18.0	50	100	20
JE 2002	20.0	50	100	20
JE 2502	25.0	50	100	25

End Mills Series

4 Flutes Square End Mills

4刃立銑刀 超微粒碳化鎢

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
JE 0104	1.0	3	50	4
JE 0154	1.5	4	50	4
JE 0204	2.0	6	50	4
JE 0254	2.5	7	50	4
JE 0304	3.0	8	50	4
JE 0304A	3.0	8	50	3
JE 0404	4.0	11	50	4
JE 0504	5.0	13	50	6
JE 0604	6.0	15	50	6
JE 0804	8.0	20	60	8
JE 1004	10.0	30	75	10
JE 1204	12.0	30	75	12
JE 1404	14.0	45	100	16
JE 1604	16.0	50	100	16
JE 1804	18.0	50	100	20
JE 2004	20.0	50	100	20
JE 2504	25.0	50	100	25

End Mills Series

3 Flutes Square End Mills

3刃立銑刀 超微粒碳化鎢

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
JEF 0103	1.0	3	50	4
JEF 0203	2.0	6	50	4
JEF 0303	3.0	8	50	4
JEF 0403	4.0	11	50	4
JEF 0503	5.0	13	50	6
JEF 0603	6.0	15	50	6
JEF 0803	8.0	20	60	8
JEF 1003	10.0	30	75	10
JEF 1203	12.0	30	75	12
JEF 1603	16.0	50	100	16
JEF 2003	20.0	50	100	20
JEF 2503	25.0	50	100	25

End Mills Series

4 Flutes Square End Mills

4刃立銑刀 超微粒碳化鎢

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
JEA 0104	1.0	3	50	4
JEA 0154	1.5	4	50	4
JEA 0204	2.0	6	50	4
JEA 0254	2.5	7	50	4
JEA 0304	3.0	8	50	4
JEA 0304A	3.0	8	50	3
JEA 0404	4.0	11	50	4
JEA 0504	5.0	13	50	6
JEA 0604	6.0	15	50	6
JEA 0804	8.0	20	60	8
JEA 1004	10.0	30	75	10
JEA 1204	12.0	30	75	12
JEA 1404	14.0	45	100	16
JEA 1604	16.0	50	100	16
JEA 1804	18.0	50	100	20
JEA 2004	20.0	50	100	20
JEA 2504	25.0	50	100	25

End Mills Series

4 Flutes Long Shank Square End Mills

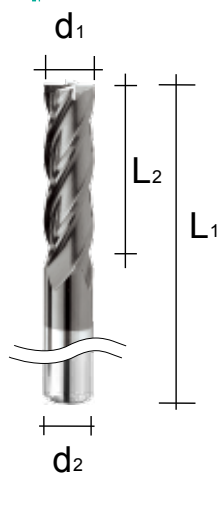
長柄型 4刃立銑刀 超微粒碳化鎢

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
JEL 0104	1.0	3	75	4
JEL 0104A	1.0	3	100	6
JEL 0154	1.5	4.5	75	4
JEL 0154A	1.5	4.5	100	6
JEL 0204	2.0	6	75	4
JEL 0204A	2.0	6	100	6
JEL 0304	3.0	8	75	4
JEL 0304A	3.0	8	100	6
JEL 0404	4.0	10	75	4
JEL 0404A	4.0	10	100	6
JEL 0504	5.0	13	75	6
JEL 0504A	5.0	13	100	6
JEL 0604	6.0	15	75	6
JEL 0604A	6.0	15	100	6
JEL 0604B	6.0	15	150	6
JEL 0804	8.0	20	75	8
JEL 0804A	8.0	20	100	8
JEL 0804B	8.0	20	150	8
JEL 1004	10.0	30	100	10
JEL 1004A	10.0	30	150	10
JEL 1204	12.0	30	100	12
JEL 1204A	12.0	30	150	12
JEL 1604	16.0	50	150	16
JEL 1604A	16.0	50	200	16
JEL 2004	20.0	50	150	20
JEL 2004A	20.0	50	200	20

End Mills Series

4 Flutes Short Length Long Square End Mills

長刃型 4刃立銑刀 超微粒碳化鎢

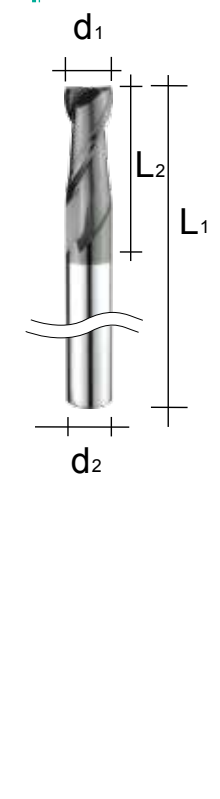


MG	0.6 μm	CO 10%	HRC ▶55	TIALN	35°	4Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia		
JELF 0204	2.0	10	75	4		
JELF 0304	3.0	15	75	6		
JELF 0404	4.0	20	75	6		
JELF 0504	5.0	25	75	6		
JELF 0604	6.0	25	75	6		
JELF 0604A	6.0	30	100	6		
JELF 0804	8.0	25	75	8		
JELF 0804A	8.0	35	100	8		
JELF 1004	10.0	45	100	10		
JELF 1004A	10.0	50	150	10		
JELF 1204	12.0	45	100	12		
JELF 1204A	12.0	50	150	12		
JELF 1404	14.0	60	150	16		
JELF 1604	16.0	75	150	16		
JELF 1804	18.0	75	150	20		
JELF 2004	20.0	75	150	20		

End Mills Series

2 Flutes Long Short Length Square End Mills

長柄型 2刃立銑刀 超微粒碳化鎢

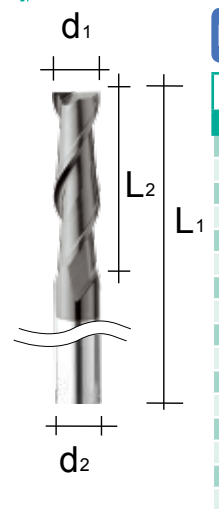


MG	0.6 μm	CO 10%	HRC ▶55	TIALN	35°	2Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia		
JEL 0102	1.0	3	75	4		
JEL 0202	2.0	6	75	4		
JEL 0302	3.0	8	75	4		
JEL 0402	4.0	10	75	4		
JEL 0502	5.0	13	75	6		
JEL 0602	6.0	15	75	6		
JEL 0802	8.0	20	75	8		
JEI 0302	3.0	8	100	4		
JEI 0302A	3.0	8	100	6		
JEI 0402	4.0	10	100	4		
JEI 0402A	4.0	10	100	6		
JEI 0502	5.0	13	100	6		
JEI 0602	6.0	15	100	6		
JEI 0802	8.0	20	100	8		
JEI 1002	10.0	25	100	10		
JEI 1202	12.0	30	100	12		
JEJ 0602	6.0	15	150	6		
JEJ 0802	8.0	20	150	8		
JEJ 1002	10.0	25	150	10		
JEJ 1202	12.0	30	150	12		
JEJ 1402	14.0	45	150	16		
JEJ 1602	16.0	45	150	16		
JEJ 1802	18.0	45	150	20		
JEJ 2002	20.0	50	150	20		

End Mills Series

2 Flutes Short Length Long Square End Mills

長刃型 2刃立銑刀 超微粒碳化鎢



MG	0.6 μm	CO 10%	HRC ▶55	TIALN	35°	2Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia		
JELF 0202	2.0	10	75	4		
JELF 0302	3.0	15	75	4		
JELF 0402	4.0	20	75	4		
JELF 0502	5.0	25	75	6		
JELF 0602	6.0	25	75	6		
JELF 0602A	6.0	30	100	6		
JELF 0802	8.0	25	75	8		
JELF 0802A	8.0	35	100	8		
JELF 1002	10.0	40	100	10		
JELF 1002A	10.0	40	150	10		
JELF 1202	12.0	45	100	12		
JELF 1202A	12.0	50	150	12		
JELF 1402	14.0	60	150	16		
JELF 1602	16.0	75	150	16		
JELF 1802	18.0	75	150	20		
JELF 2002	20.0	75	150	20		

End Mills Series

2 Flutes Taper Square End Mills

斜度刀 2刃立銑刀 超微粒碳化鎢

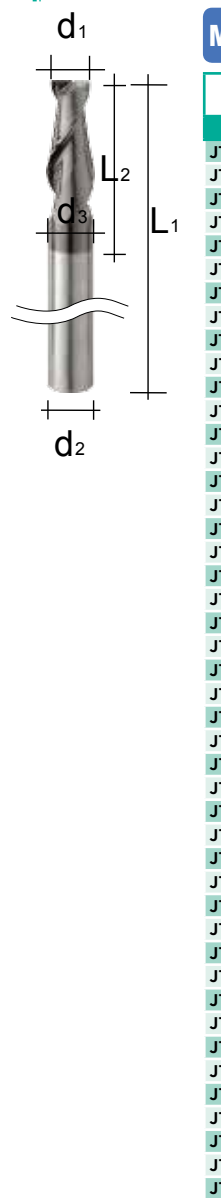


MG	0.6 μm	CO 10%	HRC ▶55	TIALN	35°	2Flutes
型號	先端徑(d1)	刃長(L2)	斜度(α)	粗端徑(d3)	全長 (L1)	柄徑 (d2)
Type NO.	Small Mill Dia	Flute Length	Flute Length	Large Mill Dia	O.A.L	Shank Dia
JTA 010005	1.0	4	0.5°	1.07	50	4
JTA 010010	1.0	4	1°	1.14	50	4
JTA 010015	1.0	4	1.5°	1.21	50	4
JTA 010020	1.0	4	2°	1.28	50	4
JTA 010025	1.0	4	2.5°	1.35	50	4
JTA 010030	1.0	4	3°	1.42	50	4
JTA 010050	1.0	5	5°	1.7	50	4
JTA 010070	1.0	5	7°	1.98	50	4
JTA 010100	1.5	5	10°	2.41	50	4
JTA 015005	1.5	5	0.5°	1.59	50	4
JTA 015010	1.5	5	1°	1.67	50	4
JTA 015015	1.5	5	1.5°	1.76	50	4
JTA 015020	1.5	5	2°	1.85	50	4
JTA 015025	1.5	5	2.5°	1.93	50	4
JTA 015030	1.5	5	3°	2.02	50	4
JTA 015050	1.5	5	5°	2.37	50	4
JTA 015070	1.5	5	7°	2.73	50	4
JTA 015100	1.5	5	10°	3.26	50	4
JTA 020005	2.0	6	0.5°	2.10	50	4
JTA 020010	2.0	6	1°	2.21	50	4
JTA 020015	2.0	6	1.5°	2.31	50	4
JTA 020020	2.0	6	2°	2.41	50	4
JTA 020025	2.0	6	2.5°	2.52	50	4
JTA 020030	2.0	6	3°	2.62	50	4
JTA 020050	2.0	6	5°	3.05	50	4
JTA 020070	2.0	6	7°	3.47	50	4
JTA 020100	2.0	6	10°	4.12	50	4
JTA 025005	2.5	8	0.5°	2.64	50	4
JTA 025010	2.5	8	1°	2.78	50	4
JTA 025015	2.5	8	1.5°	2.91	50	4
JTA 025020	2.5	8	2°	3.05	50	4
JTA 025025	2.5	8	2.5°	3.20	50	4
JTA 025030	2.5	8	3°	3.33	50	4
JTA 025050	2.5	8	5°	3.90	50	4
JTA 025070	2.5	8	7°	4.46	50	4
JTA 025100	2.5	8	10°	5.32	50	4
JTA 030005	3.0	10	0.5°	3.17	50	4
JTA 030010	3.0	10	1°	3.35	50	4
JTA 030015	3.0	10	1.5°	3.52	50	4
JTA 030020	3.0	10	2°	3.69	50	4
JTA 030025	3.0	10	2.5°	3.87	50	4
JTA 030030	3.0	10	3°	4.05	50	6
JTA 030050	3.0	10	5°	4.75	50	6
JTA 030070	3.0	10	7°	5.45	50	6
JTA 030100	3.0	10	10°	6.53	60	8

End Mills Series

2 Flutes Taper Square End Mills

斜度刀 2刃立銑刀 超微粒碳化鎢



MG	0.6 μm	CO 10%	HRC ▶55	TIALN	35°	2Flutes
型號	先端徑(d1)	刃長(L2)	斜度(α)	粗端徑(d3)	全長 (L1)	柄徑 (d2)
Type NO.	Small Mill Dia	Flute Length	Flute Length	Large Mill Dia	O.A.L	Shank Dia
JTA 040005	4.0	15	0.5°	4.26	50	6
JTA 040010	4.0	15	1°	4.52	50	6
JTA 040015	4.0	15	1.5°	4.79	50	6
JTA 040020	4.0	15	2°	5.04	50	6
JTA 040025	4.0	15	2.5°	5.31	50	6
JTA 040030	4.0	15	3°	5.57	50	6
JTA 040050	4.0	15	5°	6.62	60	8
JTA 040070	4.0	15	7°	7.68	60	8
JTA 040100	4.0	15	10°	9.30	75	10
JTA 050005	5.0	20	0.5°	5.34	55	6
JTA 050010	5.0	20	1°	5.70	55	6
JTA 050015	5.0	20	1.5°	6.04	60	8
JTA 050020	5.0	20	2°	6.39	60	8
JTA 050025	5.0	20	2.5°	6.74	60	8
JTA 050030	5.0	20	3°	7.10	60	8
JTA 050050	5.0	20	5°	8.50	75	10
JTA 050070	5.0	20	7°	9.91	75	10
JTA 050100	5.0	20	10°	12.05	75	12
JTA 060005	6.0	20	0.5°	6.35	60	8
JTA 060010	6.0	20	1°	6.70	60	8
JTA 060015	6.0	20	1.5°	7.05	60	8
JTA 060020	6.0	20	2°	7.40	60	8
JTA 060025	6.0	20	2.5°	7.75	60	8
JTA 060030	6.0	20	3°	8.10	75	10
JTA 060050	6.0	20	5°	9.50	75	10
JTA 060070	6.0	20	7°	10.91	75	12
JTA 060100	6.0	20	10°	13.05	75	12
JTA 080005	8.0	25	0.5°	8.44	75	10
JTA 080010	8.0	25	1°	8.87	75	10
JTA 080015	8.0	25	1.5°	9.31	75	10
JTA 080020	8.0	25	2°	9.74	75	10
JTA 080025	8.0	25	2.5°	10.18	75	12
JTA 080030	8.0	25	3°	10.62	75	12
JTA 080050	8.0	25	5°	12.37	100	12
JTA 080070	8.0	25	7°	14.14	100	16
JTA 080100	8.0	25	10°	16.82	100	16
JTA 100005	10.0	35	0.5°	10.61	100	12
JTA 100010	10.0	35	1°	11.22	100	12
JTA 100015	10.0	35	1.5°	11.83	100	12
JTA 100020	10.0	35	2°	12.44	100	12
JTA 100025	10.0	35	2.5°	13.06	100	12
JTA 100030	10.0	35	3°	13.67	100	12
JTA 100050	10.0	35	5°	16.12	100	16
JTA 100070	10.0	35	7°	18.60	100	16
JTA 100100	10.0	35	10°	22.34	100	16

End Mills Series

3 Flutes Roughing End Mills

3刃細齒立銑刀 超微粒碳化鎢

MG

0.6
μm

CO
10%

HRC
▶55

TIALN

45°

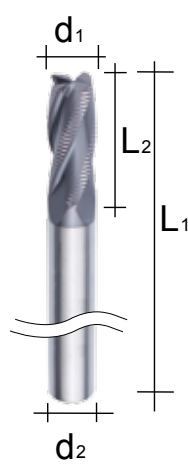
3Flutes

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
JWA 0603	6.0	15	50	6
JWA 0803	8.0	20	60	8
JWA 1003	10.0	25	75	10
JWA 1203	12.0	30	75	12
JWA 1603	16.0	40	100	16
JWA 2003	20.0	40	100	20

End Mills Series

4 Flutes Roughing End Mills

4刃細齒立銑刀 超微粒碳化鎢

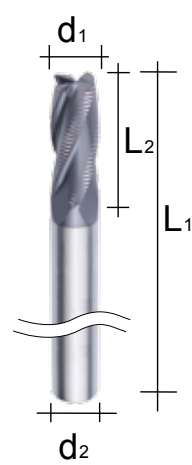


型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
JWA 0604	6.0	15	50	6
JWA 0804	8.0	20	60	8
JWA 1004	10.0	25	75	10
JWA 1204	12.0	30	75	12
JWA 1604	16.0	40	100	16
JWA 2004	20.0	40	100	20

End Mills Series

4 Flutes long Shank Square Roughing End Mills

長柄4刃細齒銑刀 超微粒碳化鎢

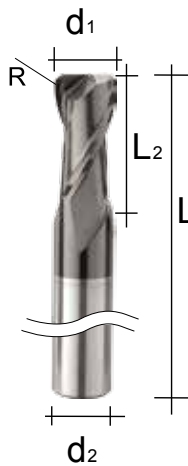


型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
LJWA 0604	6.0	15	100	6
LJWA 0804	8.0	20	100	8
LJWA 1004	10.0	25	100	10
LJWA 1204	12.0	30	100	12
LJWA 1604	16.0	40	150	16
LJWA 2004	20.0	40	150	20

Corner Radius End Mills

2 Flutes Corner Radius Square End Mills

圓鼻 2刃立銑刀 超微粒碳化鎢



型號	刃徑(d1)	R	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Corner R	Flute Length	O.A.L	Shank Dia
JNR 0102	1.0	0.2	2	50	4
JNR 0202	2.0	0.2	4	50	4
JNR 0205	2.0	0.5	4	50	4
JNR 0302	3.0	0.2	6	50	4
JNR 0305	3.0	0.5	6	50	4
JNR 0310	3.0	1.0	6	50	4
JNR 0402	4.0	0.2	8	50	4
JNR 0405	4.0	0.5	8	50	4
JNR 0410	4.0	1.0	8	50	4
JNR 0602	6.0	0.2	12	50	6
JNR 0605	6.0	0.5	12	50	6
JNR 0610	6.0	1.0	12	50	6
JNR 0620	6.0	2.0	12	60	6
JNR 0805	8.0	0.5	16	60	8
JNR 0810	8.0	1.0	16	60	8
JNR 0820	8.0	2.0	16	60	8
JNR 1005	10.0	0.5	20	75	10
JNR 1010	10.0	1.0	20	75	10
JNR 1020	10.0	2.0	20	75	10
JNR 1205	12.0	0.5	24	75	12
JNR 1210	12.0	1.0	24	75	12
JNR 1220	12.0	2.0	24	75	12
JNR 1230	12.0	3.0	24	75	12

Corner Radius End Mills

2 Flutes Long Shank Corner Radius End Mills

長柄圓鼻 2刃立銑刀 超微粒碳化鎢

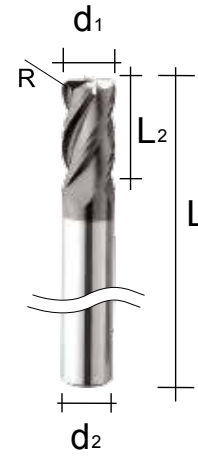


型號	刃徑(d1)	R	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Corner R	Flute Length	O.A.L	Shank Dia
JLNR 0402	4.0	0.2	8	75	4
JLNR 0405	4.0	0.5	8	75	4
JLNR 0410	4.0	1.0	8	75	4
JLNR 0602	6.0	0.2	12	100	6
JLNR 0605	6.0	0.5	12	100	6
JLNR 0610	6.0	1.0	12	100	6
JLNR 0620	6.0	2.0	12	100	6
JLNR 0805	8.0	0.5	16	100	8
JLNR 0810	8.0	1.0	16	100	8
JLNR 0820	8.0	2.0	16	100	8
JLNR 1005	10.0	0.5	20	100	10
JLNR 1010	10.0	1.0	20	100	10
JLNR 1020	10.0	2.0	20	100	10
JLNR 1030	10.0	3.0	20	100	10
JLNR 1205	12.0	0.5	24	100	12
JLNR 1210	12.0	1.0	24	100	12
JLNR 1220	12.0	2.0	20	100	12
JLNR 1230	12.0	3.0	20	100	12

Corner Radius End Mills

4 Flutes Corner Radius End Mills

圓鼻 4刃立銑刀 超微粒碳化鎢

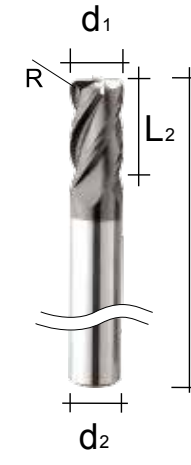


型號	刃徑(d1)	R	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Corner R	Flute Length	O.A.L	Shank Dia
JER 0102	1.0	0.2	2	50	4
JER 0202	2.0	0.2	4	50	4
JER 0205	2.0	0.5	4	50	4
JER 0252	2.5	0.2	5	50	4
JER 0255	2.5	0.5	5	50	4
JER 0302	3.0	0.2	6	50	4
JER 0305	3.0	0.5	6	50	4
JER 0310	3.0	1.0	6	50	4
JER 0402	4.0	0.2	8	50	4
JER 0405	4.0	0.5	8	50	4
JER 0410	4.0	1.0	8	50	4
JER 0505	5.0	0.5	10	50	6
JER 0510	5.0	1.0	10	50	6
JER 0602	6.0	0.2	12	50	6
JER 0605	6.0	0.5	12	50	6
JER 0610	6.0	1.0	12	50	6
JER 0615	6.0	1.5	12	50	6
JER 0620	6.0	2.0	12	50	6
JER 0805	8.0	0.5	16	60	8
JER 0810	8.0	1.0	16	60	8
JER 0820	8.0	2.0	16	60	8
JER 1005	10.0	0.5	20	75	10
JER 1010	10.0	1.0	20	75	10
JER 1020	10.0	2.0	20	75	10
JER 1030	10.0	3.0	20	75	10
JER 1205	12.0	0.5	24	75	12
JER 1210	12.0	1.0	24	75	12
JER 1220	12.0	2.0	24	75	12
JER 1230	12.0	3.0	24	75	12
JER 1610	16.0	1.0	32	100	16
JER 1620	16.0	2.0	32	100	16
JER 1630	16.0	3.0	32	100	16

Corner Radius End Mills

4 Flutes Long Shank Corner Radius End Mills

長柄圓鼻 4刃立銑刀 超微粒碳化鎢

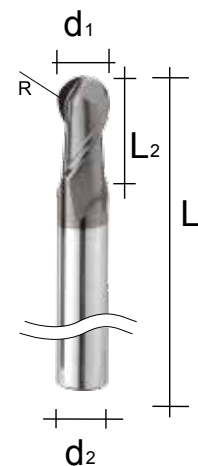


型號	刃徑(d1)	R	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Corner R	Flute Length	O.A.L	Shank Dia
JLR 0305	3.0	0.5	6	75	3
JLR 0305A	3.0	0.5	6	75	4
JLR 0402	4.0	0.2	8	75	4
JLR 0405	4.0	0.5	8	75	4
JLR 0602	6.0	0.2	12	75	6
JLR 0605	6.0	0.5	12	75	6
JLR 0605A	6.0	0.5	12	100	6
JLR 0610	6.0	1.0	12	75	6
JLR 0610A	6.0	1.0	12	100	6
JLR 0805	8.0	0.5	16	75	8
JLR 0805A	8.0	0.5	16	100	8
JLR 0810	8.0	1.0	16	75	8
JLR 0810A	8.0	1.0	16	100	8
JLR 1005	10.0	0.5	20	100	10
JLR 1005A	10.0	0.5	20	150	10
JLR 1010	10.0	1.0	20	100	10
JLR 1010A	10.0	1.0	20	150	10
JLR 1020	10.0	2.0	20	100	10
JLR 1020A	10.0	2.0	20	150	10
JLR 1030	10.0	3.0	20	100	10
JLR 1030A	10.0	3.0	20	150	10
JLR 1205	12.0	0.5	24	100	12
JLR 1205A	12.0	0.5	24	150	12
JLR 1210	12.0	1.0	24	100	12
JLR 1210A	12.0	1.0	24	150	12
JLR 1220	12.0	2.0	24	100	12
JLR 1220A	12.0	2.0	24	150	12
JLR 1230	12.0	3.0	24	100	12
JLR 1230A	12.0	3.0	24	150	12

Ball Nose End Mills Series

2 Flutes Ball Nose End Mills

2刃球形立銑刀 超微粒碳化鎢

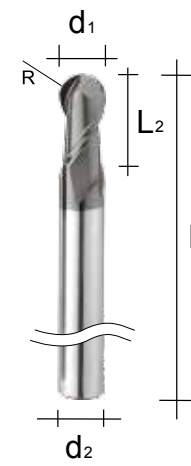


型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
JB 0102	R0.5	2	50	4
JB 0152	R0.75	3	50	4
JB 0202	R1.0	4	50	4
JB 0252	R1.25	5	50	4
JB 0302	R1.5	6	50	4
JB 0302A	R1.5	6	50	3
JB 0402	R2.0	8	50	4
JB 0502	R2.5	10	50	6
JB 0602	R3.0	12	50	6
JB 0802	R4.0	16	60	8
JB 1002	R5.0	20	75	10
JB 1202	R6.0	24	75	12
JB 1602	R8.0	32	100	16
JB 2002	R10.0	32	100	20

Ball Nose End Mills Series

2 Flutes Ball Nose End Mills

2刃球形立銑刀 超微粒碳化鎢

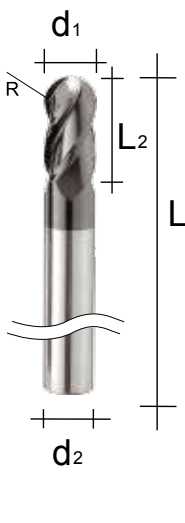


型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
JBA 0102	R0.5	2	50	6
JBA 0152	R0.75	3	50	6
JBA 0202	R1.0	4	50	6
JBA 0252	R1.25	5	50	6
JBA 0302	R1.5	6	50	6
JBA 0402	R2.0	8	50	6

Ball Nose End Mills Series

4 Flutes Ball Nose End Mills

4刃球型立銑刀 超微粒碳化鎢

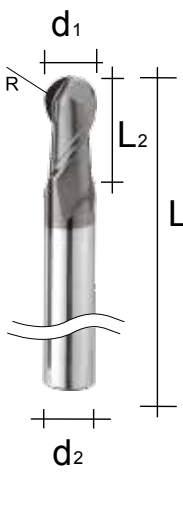


MG	0.6 μm	CO 10%	HRC >55	TIALN	30°	4 Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia		
JB 0104	R0.5	2	50	4		
JB 0154	R0.75	3	50	4		
JB 0204	R1.0	4	50	4		
JB 0254	R1.25	5	50	4		
JB 0304	R1.5	6	50	4		
JB 0304A	R1.5	6	50	3		
JB 0404	R2.0	8	50	4		
JB 0504	R2.5	10	50	6		
JB 0604	R3.0	12	50	6		
JB 0804	R4.0	16	60	8		
JB 1004	R5.0	20	75	10		
JB 1204	R6.0	24	75	12		
JB 1604	R8.0	32	100	16		
JB 2004	R10.0	32	100	20		

Ball Nose End Mills Series

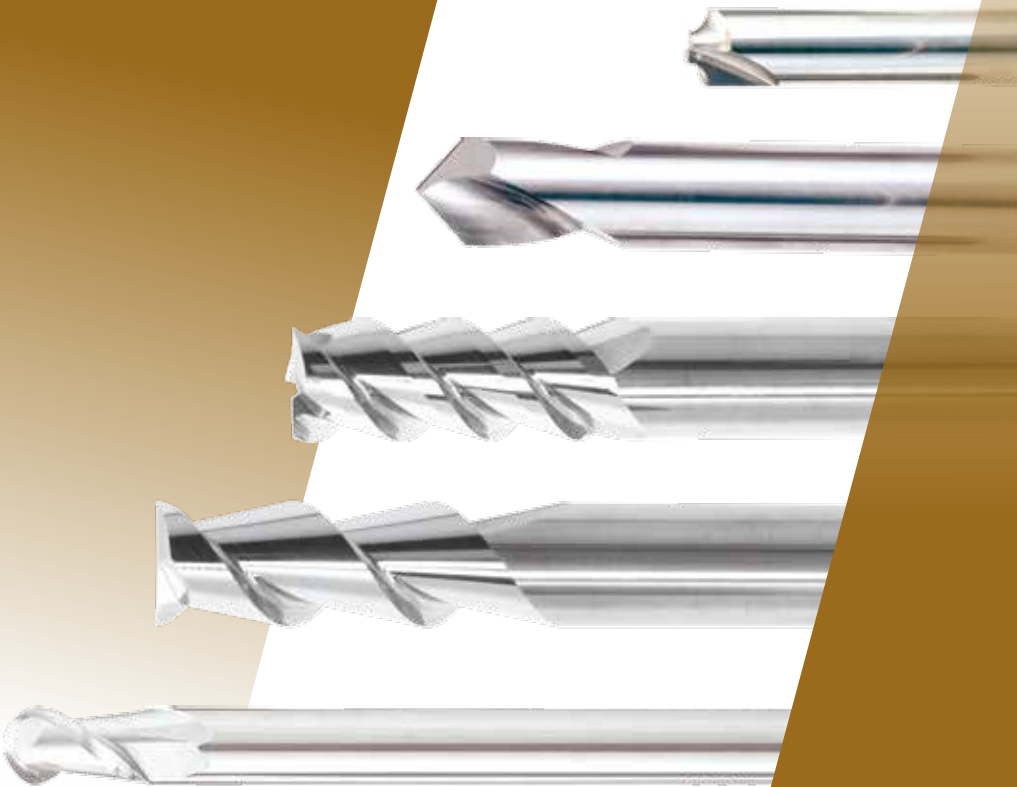
2 Flutes Long Shank Ball Nose End Mills

長柄 2刃球型立銑刀 超微粒碳化鎢



MG	0.6 μm	CO 10%	HRC >55	TIALN	30°	2 Flutes
型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)		
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia		
JIB 0102	R0.5	2	75	4		
JIB 0102A	R0.5	2	75	6		
JIB 0152	R0.75	3	75	4		
JIB 0152A	R0.75	3	75	6		
JIB 0202	R1.0	4	75	4		
JIB 0202A	R1.0	4	75	6		
JIB 0302	R1.5	6	75	4		
JIB 0302A	R1.5	6	75	6		
JIB 0402	R2.0	8	75	4		
JIB 0402A	R2.0	8	75	6		
JIB 0502	R2.5	10	75	6		
JIB 0602	R3.0	12	75	6		
JIB 0802	R4.0	16	75	8		
JJB 0202	R1.0	4	100	6		
JJB 0302	R1.5	6	100	6		
JJB 0402	R2.0	8	100	6		
JJB 0602	R3.0	12	100	6		
JJB 0802	R4.0	16	100	8		
JJB 1002	R5.0	20	100	10		
JJB 1202	R6.0	24	100	12		
JKB 0602	R3.0	12	150	6		
JKB 0802	R4.0	16	150	8		
JKB 1002	R5.0	20	150	10		
JKB 1202	R6.0	24	150	12		
JKB 1602	R8.0	32	150	16		
JKB 2002	R10.0	40	150	20		
JKB 2502	R12.5	40	150	25		

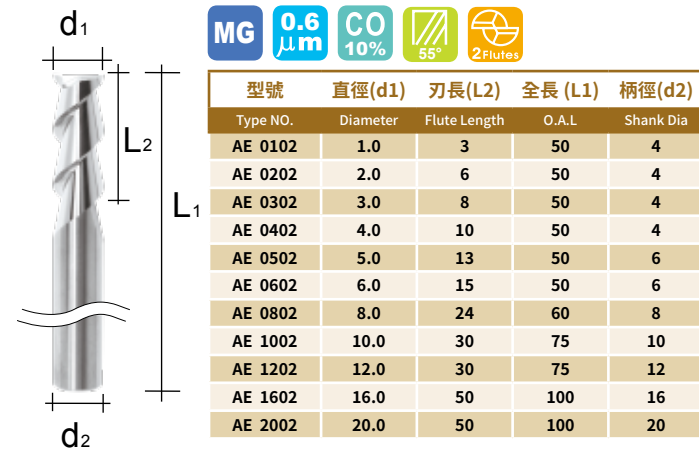
SOFT MATERIALS
CUTTING SERIES
軟金屬系列



Soft Materials Cutting Series

2 Flutes Aluminum Square End Mills

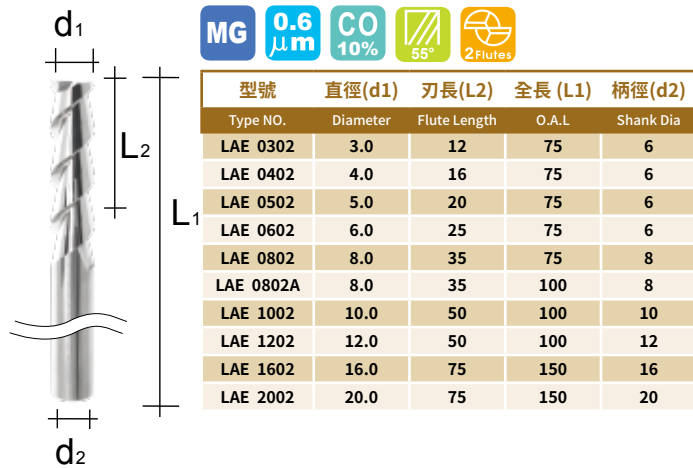
鋁合金專用 2刃立銑刀 超微粒碳化鎢



Soft Materials Cutting Series

2 Flutes Long Shank Square End Mills

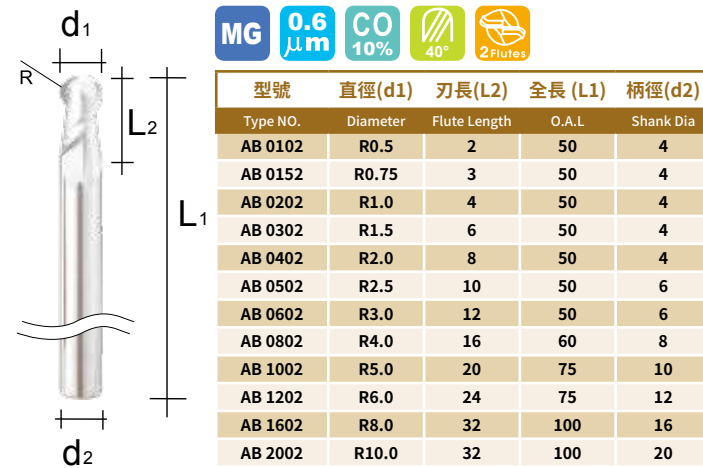
鋁合金專用 2刃長刃立銑刀 超微粒碳化鎢 列



Soft Materials Cutting Series

2 Flutes Aluminum Ball Nose End Mills

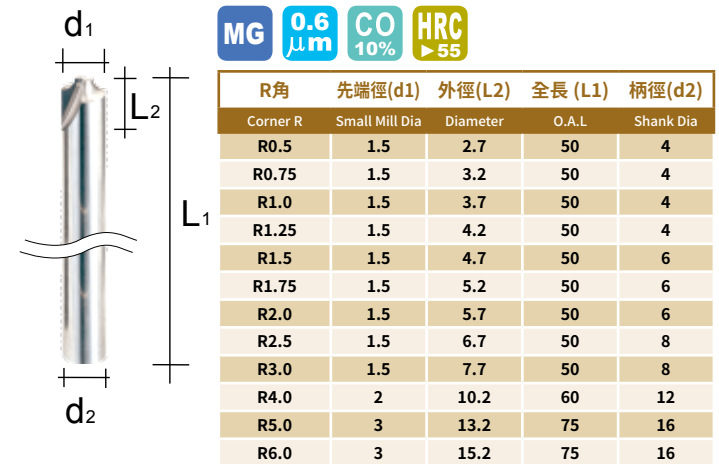
鋁合金專用 2刃球型立銑刀 超微粒碳化鎢



Soft Materials Cutting Series

3F Corner Rounding Cutter

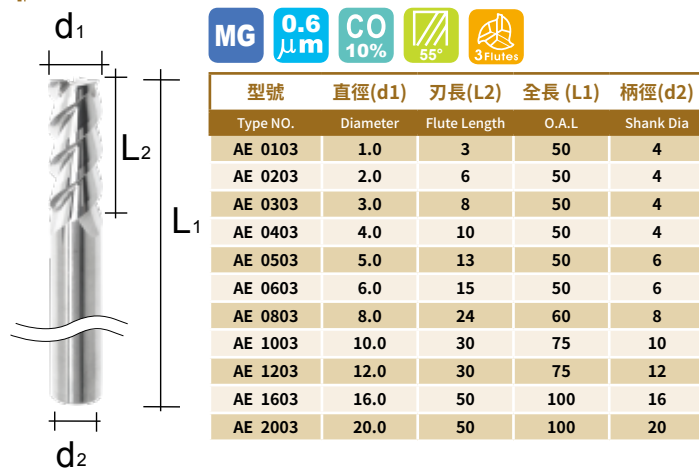
外角R刀 3刃立銑刀 超微粒碳化鎢



Soft Materials Cutting Series

3 Flutes Aluminum Square End Mills

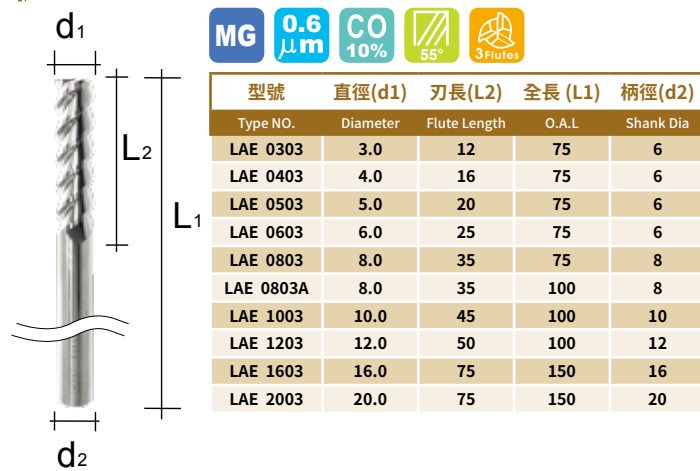
鋁合金專用 3刃立銑刀 超微粒碳化鎢



Soft Materials Cutting Series

3 Flutes Long Shank Square End Mills

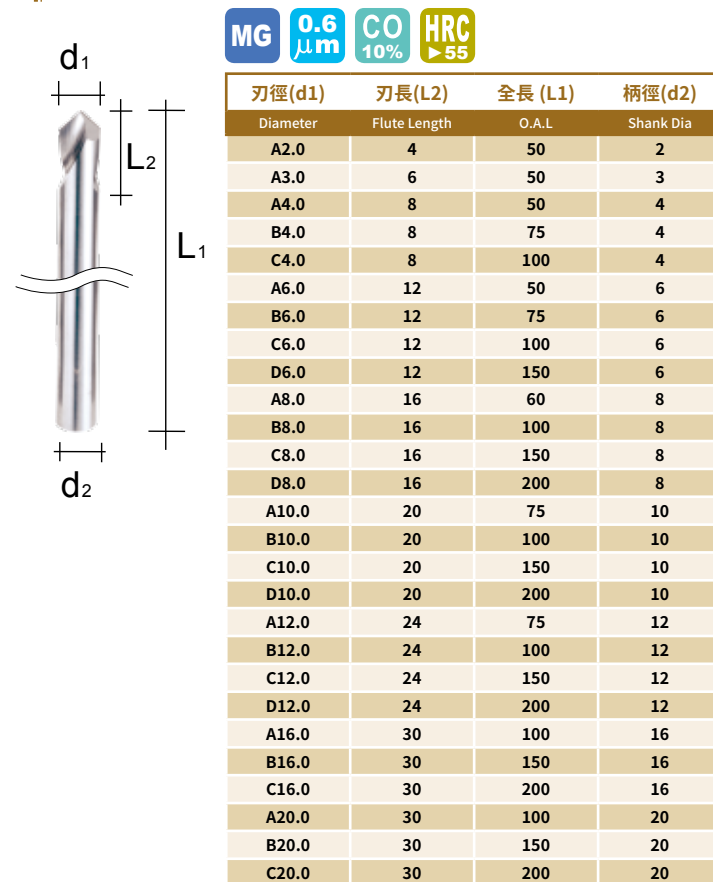
鋁合金專用 3刃立銑刀 超微粒碳化鎢



Soft Materials Cutting Series

NC Spot Drills 60,90,120 Degree End Mills

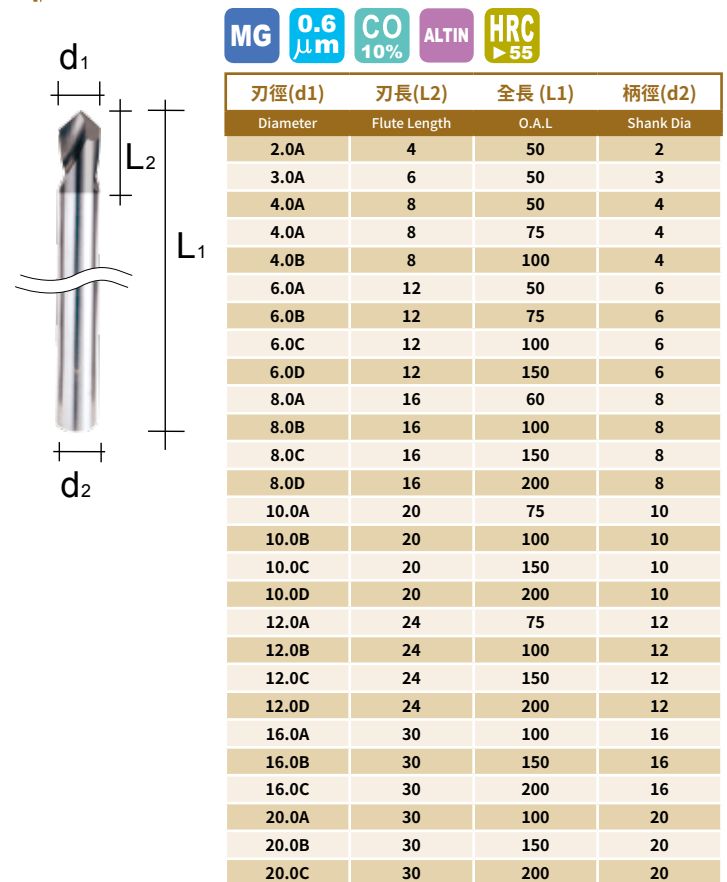
60度 90度 120度 2刃定位鑽頭 超微粒碳化鎢



Soft Materials Cutting Series

NC Spot Drills 60,90,120 Degree End Mills

60度 90度 120度 2刃定位鑽頭 超微粒碳化鎢



Soft Materials Cutting Series

3 Flutes Aluminum Square End Mills

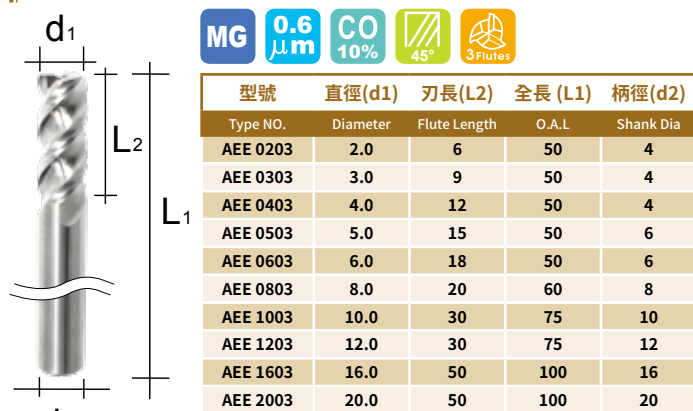
鋁合金專用 3刃波浪立銑刀 超微粒碳化鎢



Soft Materials Cutting Series

3 Flutes Aluminum Square End Mills

鋁合金專用 3刃立銑刀 超微粒碳化鎢



Soft Materials Cutting Series

Micro Diameter 2 Flutes Ball Nose End Mills

鋁合金專用微小徑 2 刃球型立銑刀

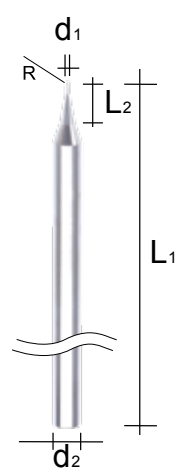
MG

0.6
μm

CO
10%

30°

2 Flutes



型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
ASB 0022	R0.10	0.4	50	4
ASB 0032	R0.15	0.6	50	4
ASB 0042	R0.20	0.8	50	4
ASB 0052	R0.25	1.0	50	4
ASB 0062	R0.30	1.2	50	4
ASB 0072	R0.35	1.4	50	4
ASB 0082	R0.40	1.6	50	4
ASB 0092	R0.45	1.8	50	4
ASB 0122	R0.6	2.4	50	4
ASB 0142	R0.7	2.8	50	4
ASB 0162	R0.8	3.2	50	4
ASB 0182	R0.9	3.6	50	4

Soft Materials Cutting Series

Micro Diameter Miniature 2 Flutes End Mills

鋁合金專用微小徑 2 刃立銑刀

MG

0.6
μm

CO
10%

35°

2 Flutes



型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
ASE 0022	0.2	0.4	50	4
ASE 0032	0.3	0.6	50	4
ASE 0042	0.4	0.8	50	4
ASE 0052	0.5	1.0	50	4
ASE 0062	0.6	1.2	50	4
ASE 0072	0.7	1.4	50	4
ASE 0082	0.8	1.6	50	4
ASE 0092	0.9	1.8	50	4
ASE 0122	1.2	3	50	4
ASE 0142	1.4	3	50	4
ASE 0162	1.6	4	50	4
ASE 0182	1.8	5	50	4

CARBIDE DRILLS SERIES
HIGH PERFORMANCE DRILLS
鑽頭系列



Micro Precision Drills

For Aluminium, Copper, Plastics, Composite Material

鋁、銅、塑膠、塑膠複合材料 超微粒鎢鋼微小徑鑽頭



型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
DSE 0030	0.30	1.9	25	1.00
DSE 0035	0.35	2.4	25	1.00
DSE 0040	0.40	3.0	25	1.00
DSE 0045	0.45	3.0	25	1.00
DSE 0050	0.50	3.4	25	1.00
DSE 0055	0.55	3.9	25	1.00
DSE 0060	0.60	3.9	25	1.00
DSE 0065	0.65	4.2	25	1.00
DSE 0070	0.70	4.8	25	1.00
DSE 0075	0.75	4.8	25	1.00
DSE 0080	0.80	5.3	25	1.50
DSE 0085	0.85	5.3	25	1.50
DSE 0090	0.90	6.0	25	1.50
DSE 0095	0.95	6.0	25	1.50
DSE 0100	1.00	6.8	25	1.50
DSE 0105	1.05	6.8	25	1.50
DSE 0110	1.10	7.6	25	1.50
DSE 0115	1.15	7.6	25	1.50
DSE 0120	1.20	8.5	25	1.50
DSE 0125	1.25	8.5	25	1.50
DSE 0130	1.30	8.5	25	1.50
DSE 0135	1.35	9.5	25	1.50
DSE 0140	1.40	9.5	25	1.50

Soild Carbide Drills

銑刀柄鎢鋼高速鑽頭

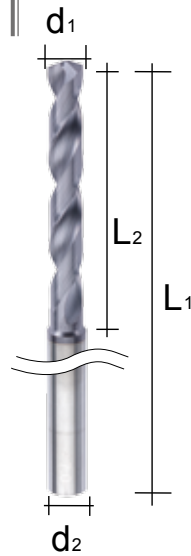


型號	直徑(d1)	刃長(L2)	全長(L1)	柄徑 (L2)
Type NO.	Diameter	Ditch length	O.A.L	Shank Dia
DE 0200	2.0	13	44	3
DE 0210	2.1	13	44	3
DE 0220	2.2	13	44	3
DE 0230	2.3	13	44	3
DE 0240	2.4	15	46	3
DE 0250	2.5	15	46	3
DE 0260	2.6	15	46	3
DE 0270	2.7	17	48	3
DE 0280	2.8	17	48	3
DE 0290	2.9	17	48	3
DE 0300	3.0	17	48	3
DE 0310	3.1	19	50	4
DE 0320	3.2	19	50	4
DE 0330	3.3	19	50	4
DE 0340	3.4	21	52	4
DE 0350	3.5	21	52	4
DE 0360	3.6	21	52	4
DE 0370	3.7	21	52	4
DE 0380	3.8	21	52	4
DE 0390	3.9	21	52	4
DE 0400	4.0	21	52	4
DE 0410	4.1	21	63	6
DE 0420	4.2	21	63	6
DE 0430	4.3	21	63	6
DE 0440	4.4	25	68	6
DE 0450	4.5	25	683	6
DE 0460	4.6	25	68	6
DE 0470	4.7	25	68	6
DE 0480	4.8	27	70	6
DE 0490	4.9	27	70	6
DE 0500	5.0	27	70	6
DE 0510	5.1	27	70	6
DE 0520	5.2	27	70	6

型號	直徑(d1)	刃長(d2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Ditch length	O.A.L	Shank Dia
DE 0530	5.3	27	70	6
DE 0540	5.4	29	72	6
DE 0550	5.5	29	72	6
DE 0560	5.6	29	72	6
DE 0570	5.7	29	72	6
DE 0580	5.8	29	72	6
DE 0590	5.9	29	72	6
DE 0600	6.0	29	72	6
DE 0610	6.1	32	75	8
DE 0620	6.2	32	75	8
DE 0630	6.3	32	75	8
DE 0640	6.4	32	75	8
DE 0650	6.5	32	75	8
DE 0660	6.6	32	75	8
DE 0670	6.7	32	75	8
DE 0680	6.8	35	78	8
DE 0690	6.9	35	78	8
DE 0700	7.0	35	78	8
DE 0710	7.1	35	78	8
DE 0720	7.2	35	78	8
DE 0730	7.3	35	78	8
DE 0740	7.4	35	78	8
DE 0750	7.5	35	78	8
DE 0760	7.6	35	78	8
DE 0770	7.7	35	78	8
DE 0780	7.8	35	78	8
DE 0790	7.9	35	78	8
DE 0800	8.0	35	78	8
DE 0810	8.1	38	87	10
DE 0820	8.2	38	87	10
DE 0830	8.3	38	87	10
DE 0840	8.4	38	87	10
DE 0850	8.5	38	87	10
DE 0860	8.6	41	90	10
DE 0870	8.7	41	90	10
DE 0880	8.8	41	90	10
DE 0890	8.9	41	90	10
DE 0900	9.0	41	90	10
DE 0910	9.1	41	90	10
DE 0920	9.2	41	90	10
DE 0930	9.3	41	90	10
DE 0940	9.4	41	90	10
DE 0950	9.5	41	90	10
DE 0960	9.6	44	93	10
DE 0970	9.7	44	93	10
DE 0980	9.8	44	93	10
DE 0990	9.9	44	93	10
DE 1000	10.0	44	93	10
DE 1010	10.1	44	100	12
DE 1020	10.2	44	100	12
DE 1030	10.3	44	100	12
DE 1040	10.4	44	100	12
DE 1050	10.5	44	100	12
DE 1060	10.6	44	100	12
DE 1070	10.7	48	104	12
DE 1080	10.8	48	104	12
DE 1090	10.9	48	104	12
DE 1100	11.0	48	104	12
DE 1110	11.1	48	104	12
DE 1120	11.2	48	104	12
DE 1130	11.3	48	104	12
DE 1140	11.4	48	104	12
DE 1150	11.5	48	104	12
DE 1160	11.6	48	104	12
DE 1170	11.7	48	104	12
DE 1180	11.8	48	104	12
DE 1190	11.9	48	104	12
DE 1200	12.0	48	104	12
DE 1210	12.1	50	105	14
DE 1220	12.2	50	105	14
DE 1230	12.3	50	105	14
DE 1240	12.4	50	105	14
DE 1250	12.5	50	105	14
DE 1260	12.6	50	105	14
DE 1270	12.7	50	105	14
DE 1280	12.8	50	105	14
DE 1290	12.9	50	105	14
DE 1300	13.0	50	105	14

High Performance Drills

高速加工用 極超硬 極超微粒鎢鋼塗層高速鑽頭

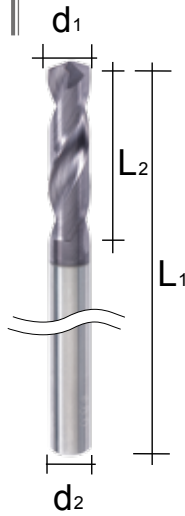


型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
DEF 0300	3.0	28	66	6
DEF 0310	3.1	28	66	6
DEF 0320	3.2	28	66	6
DEF 0330	3.3	28	66	6
DEF 0340	3.4	28	66	6
DEF 0350	3.5	28	66	6
DEF 0360	3.6	28	66	6
DEF 0370	3.7	28	66	6
DEF 0380	3.8	36	74	6
DEF 0390	3.9	36	74	6
DEF 0400	4.0	36	74	6
DEF 0410	4.1	36	74	6
DEF 0420	4.2	36	74	6
DEF 0430	4.3	36	74	6
DEF 0440	4.4	36	74	6
DEF 0450	4.5	36	74	6
DEF 0460	4.6	36	74	6
DEF 0470	4.7	36	74	6
DEF 0480	4.8	44	82	6
DEF 0490	4.9	44	82	6
DEF 0500	5.0	44	82	6
DEF 0510	5.1	44	82	6
DEF 0520	5.2	44	82	6
DEF 0530	5.3	44	82	6
DEF 0540	5.4	44	82	6
DEF 0550	5.5	44	82	6
DEF 0560	5.6	44	82	6
DEF 0570	5.7	44	82	6
DEF 0580	5.8	44	82	6
DEF 0590	5.9	44	82	6
DEF 0600	6.0	44	82	6
DEF 0610	6.1	53	91	8
DEF 0620	6.2	53	91	8
DEF 0630	6.3	53	91	8
DEF 0640	6.4	53	91	8
DEF 0650	6.5	53	91	8
DEF 0660	6.6	53	91	8
DEF 0670	6.7	53	91	8
DEF 0680	6.8	53	91	8
DEF 0690	6.9	53	91	8
DEF 0700	7.0	53	91	8
DEF 0710	7.1	53	91	8
DEF 0720	7.2	53	91	8
DEF 0730	7.3	53	91	8
DEF 0740	7.4	53	91	8
DEF 0750	7.5	53	91	8
DEF 0760	7.6	53	91	8
DEF 0770	7.7	53	91	8
DEF 0780	7.8	53	91	8
DEF 0790	7.9	53	91	8
DEF 0800	8.0	53	91	8
DEF 0810	8.1	61	103	10
DEF 0820	8.2	61	103	10
DEF 0830	8.3	61	103	10
DEF 0840	8.4	61	103	10
DEF 0850	8.5	61	103	10
DEF 0860	8.6	61	103	10
DEF 0870	8.7	61	103	10
DEF 0880	8.8	61	103	10
DEF 0890	8.9	61	103	10
DEF 0900	9.0	61	103	10
DEF 0910	9.1	61	103	10
DEF 0920	9.2	61	103	10
DEF 0930	9.3	61	103	10
DEF 0940	9.4	61	103	10
DEF 0950	9.5	61	103	10
DEF 0960	9.6	61	103	10
DEF 0970	9.7	61	103	10
DEF 0980	9.8	61	103	10
DEF 0990	9.9	61	103	10
DEF 1000	10.0	61	103	10
DEF 1020	10.2	71	118	12
DEF 1050	10.5	71	118	12
DEF 1080	10.8	71	118	12
DEF 1100	11.0	71	118	12

型號	直徑(d1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia
DEF 1150	11.5	71	118	12
DEF 1200	12.0	71	118	12
DEF 1250	12.5	77	124	14
DEF 1300	13.0	77	124	14
DEF 1350	13.5	77	124	14
DEF 1400	14.0	77	124	14
DEF 1450	14.5	83	133	16
DEF 1500	15.0	83	133	16
DEF 1550	15.5	83	133	16
DEF 1600	16.0	83	133	16
DEF 1650	16.5	93	143	18
DEF 1700	17.0	93	143	18
DEF 1750	17.5	93	143	18
DEF 1800	18.0	93	143	18
DEF 1850	18.5	101	153	20
DEF 1900	19.0	101	153	20
DEF 1950	19.5	101	153	20
DEF 2000	20.0	101	153	20

Soild Carbide Drills

TiAlN 鎢鋼直柄短刃鑽頭 DIN 1897

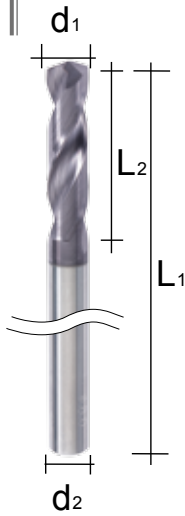


型號	直徑(d1)	刃長(d2)	全長(L1)
Type NO.	Diameter	Ditch length	O.A.L
DEE 0100	1.0	6	26
DEE 0110	1.1	7	28
DEE 0120	1.2	8	30
DEE 0130	1.3	8	30
DEE 0140	1.4	9	32
DEE 0150	1.5	9	32
DEE 0160	1.6	10	34
DEE 0170	1.7	10	34
DEE 0180	1.8	11	36
DEE 0190	1.9	11	36
DEE 0200	2.0	12	38
DEE 0210	2.1	12	38
DEE 0220	2.2	13	40
DEE 0230	2.3	13	40
DEE 0240	2.4	14	43
DEE 0250	2.5	14	43
DEE 0260	2.6	14	43
DEE 0270	2.7	16	46
DEE 0280	2.8	16	46
DEE 0290	2.9	16	46
DEE 0300	3.0	16	46
DEE 0310	3.1	18	49
DEE 0320	3.2	18	49
DEE 0330	3.3	18	49
DEE 0340	3.4	20	52
DEE 0350	3.5	20	52
DEE 0360	3.6	20	52
DEE 0370	3.7	20	52
DEE 0380	3.8	22	55
DEE 0390	3.9	22	55
DEE 0400	4.0	22	55
DEE 0410	4.1	22	55
DEE 0420	4.2	22	55
DEE 0430	4.3	24	58
DEE 0440	4.4	24	58
DEE 0450	4.5	24	58
DEE 0460	4.6	24	58
DEE 0470	4.7	24	58
DEE 0480	4.8	26	62
DEE 0490	4.9	26	62
DEE 0500	5.0	26	62
DEE 0510	5.1	26	62
DEE 0520	5.2	26	62
DEE 0530	5.3	26	62
DEE 0540	5.4	28	66
DEE 0550	5.5	28	66
DEE 0560	5.6	28	66
DEE 0570	5.7	28	66
DEE 0580	5.8	28	66
DEE 0590	5.9	28	66
DEE 0600	6.0	28	66
DEE 0610	6.1	31	70
DEE 0620	6.2	31	70
DEE 0630	6.3	31	70
DEE 0640	6.4	31	70
DEE 0650	6.5	31	70
DEE 0660	6.6	31	70
DEE 0670	6.7	31	70
DEE 0680	6.8	34	74
DEE 0690	6.9	34	74
DEE 0700	7.0	34	74
DEE 0710	7.1	34	74
DEE 0720	7.2	34	74
DEE 0730	7.3	34	74
DEE 0740	7.4	34	74
DEE 0750	7.5	34	74
DEE 0760	7.6	37	79
DEE 0770	7.7	37	79
DEE 0780	7.8	37	79
DEE 0790	7.9	37	79
DEE 0800	8.0	37	79
DEE 0810	8.1	37	79
DEE 0820	8.2	37	79
DEE 0830	8.3	37	79

型號	直徑(d1)	刃長(d2)	全長(L1)
Type NO.	Diameter	Ditch length	O.A.L
DEE 0840	8.4	37	79
DEE 0850	8.5	37	79
DEE 0860	8.6	40	84
DEE 0870	8.7	40	84
DEE 0880	8.8	40	84
DEE 0890	8.9	40	84
DEE 0900	9.0	40	84
DEE 0910	9.1	40	84
DEE 0920	9.2	40	84
DEE 0930	9.3	40	84
DEE 0940	9.4	40	84
DEE 0950	9.5	40	84
DEE 0960	9.6	43	89
DEE 0970	9.7	43	89
DEE 0980	9.8	43	89
DEE 0990	9.9	43	89
DEE 1000	10.0	43	89
DEE 1010	10.1	43	89
DEE 1020	10.2	43	89
DEE 1030	10.3	43	89
DEE 1040	10.4	43	89
DEE 1050	10.5	43	89
DEE 1060	10.6	43	89
DEE 1070	10.7	43	89
DEE 1080	10.8	47	95
DEE 1090	10.9	47	95
DEE 1100	11.0	47	95
DEE 1110	11.0	47	95
DEE 1120	11.2	47	95
DEE 1130	11.3	47	95
DEE 1140	11.4	47	95
DEE 1150	11.5	47	95
DEE 1160	11.6	47	95
DEE 1170	11.7	47	95
DEE 1180	11.8	47	95
DEE 1190	11.9	51	95
DEE 1200	12.0	51	102
DEE 1210	12.1	51	102
DEE 1220	12.2	51	102
DEE 1230	12.3	51	102
DEE 1240	12.4	51	102
DEE 1250	12.5	51	102
DEE 1260	12.6	51	102
DEE 1270	12.7	51	102
DEE 1280	12.8	51	102
DEE 1290	12.9	51	102
DEE 1300	13.0	51	102

Soild Carbide Drills

TiAlN 鎢鋼直柄鑽頭 DIN 338TiAlN

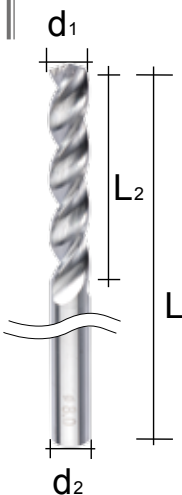


型號	直徑(d1)	刃長(d2)	全長(L1)
Type NO.	Diameter	Ditch length	O.A.L
DEEF 0100	1.0	12	34
DEEF 0110	1.1	12	36
DEEF 0120	1.2	16	38
DEEF 0130	1.3	16	38
DEEF 0140	1.4	18	40
DEEF 0150	1.5	18	40
DEEF 0160	1.6	20	43
DEEF 0170	1.7	20	43
DEEF 0180	1.8	22	46
DEEF 0190	1.9	22	46
DEEF 0200	2.0	24	49
DEEF 0210	2.1	24	49
DEEF 0220	2.2	27	53
DEEF 0230	2.3	27	53
DEEF 0240	2.4	30	57
DEEF 0250	2.5	30	57
DEEF 0260	2.6	30	57
DEEF 0270	2.7	33	61
DEEF 0280	2.8	33	61
DEEF 0290	2.9	33	61
DEEF 0300	3.0	33	61
DEEF 0310	3.1	36	65
DEEF 0320	3.2	36	65
DEEF 0330	3.3	36	65
DEEF 0340	3.4	39	70
DEEF 0350	3.5	39	70
DEEF 0360	3.6	39	70
DEEF 0370	3.7	39	70
DEEF 0380	3.8	43	75
DEEF 0390	3.9	43	75
DEEF 0400	4.0	43	75
DEEF 0410	4.1	43	75
DEEF 0420	4.2	43	75
DEEF 0430	4.3	47	80
DEEF 0440	4.4	47	80
DEEF 0450	4.5	47	80
DEEF 0460	4.6	47	80
DEEF 0470	4.7	47	80
DEEF 0480	4.8	52	86
DEEF 0490	4.9	52	86
DEEF 0500	5.0	52	86
DEEF 0510	5.1	52	86
DEEF 0520	5.2	52	86
DEEF 0530	5.3	52	86
DEEF 0540	5.4	57	93
DEEF 0550	5.5	57	93
DEEF 0560	5.6	57	93
DEEF 0570	5.7	57	93
DEEF 0580	5.8	57	93
DEEF 0590	5.9	57	93
DEEF 0600	6.0	57	93
DEEF 0610	6.1	63	101
DEEF 0620	6.2	63	101
DEEF 0630	6.3	63	101
DEEF 0640	6.4	63	101
DEEF 0650	6.5	63	101
DEEF 0660	6.6	63	101
DEEF 0670	6.7	63	101
DEEF 0680	6.8	69	109
DEEF 0690	6.9	69	109
DEEF 0700	7.0	69	109
DEEF 0710	7.1	69	109
DEEF 0720	7.2	69	109
DEEF 0730	7.3	69	109
DEEF 0740	7.4	69	109
DEEF 0750	7.5	69	109
DEEF 0760	7.6	75	117
DEEF 0770	7.7	75	117
DEEF 0780	7.8	75	117
DEEF 0790	7.9	75	117
DEEF 0800	8.0	75	117
DEEF 0810	8.1	75	117
DEEF 0820	8.2	75	117
DEEF 0830	8.3	75	117

型號	直徑(d1)	刃長(d2)	全長(L1)
Type NO.	Diameter	Ditch length	O.A.L
DEEF 0840	8.4	75	117
DEEF 0850	8.5	75	117
DEEF 0860	8.6	81	125
DEEF 0870	8.7	81	125
DEEF 0880	8.8	81	125
DEEF 0890	8.9	81	125
DEEF0900	9.0	81	125
DEEF 0910	9.1	81	125
DEEF 0920	9.2	81	125
DEEF 0930	9.3	81	125
DEEF 0940	9.4	81	125
DEEF 0950	9.5	81	125
DEEF 0960	9.6	87	133
DEEF 0970	9.7	87	133
DEEF 0980	9.8	87	133
DEEF 0990	9.9	87	133
DEEF 1000	10.0	87	133
DEEF 1010	10.1	87	133
DEEF 1020	10.2	87	133
DEEF 1030	10.3	87	133
DEEF 1040	10.4	87	133
DEEF 1050	10.5	87	133
DEEF 1060	10.6	87	133
DEEF 1070	10.7	87	133
DEEF 1080	10.8	94	142
DEEF 1090	10.9	94	142
DEEF 1100	11.0	94	142
DEEF 1110	11.0	94	142
DEEF 1120	11.2	94	142
DEEF 1130	11.3	94	142
DEEF 1140	11.4	94	142
DEEF 1150	11.5	94	142
DEEF 1160	11.6	94	142
DEEF 1170	11.7	94	142
DEEF 1180	11.8	94	142
DEEF 1190	11.9	101	151
DEEF 1200	12.0	101	151
DEEF 1210	12.1	101	151
DEEF 1220	12.2	101	151
DEEF 1230	12.3	101	151
DEEF 1240	12.4	101	151
DEEF 1250	12.5	101	151
DEEF 1260	12.6	101	151
DEEF 1270	12.7	101	151
DEEF 1280	12.8	101	151
DEEF 1290	12.9	101	151
DEEF 1300	13.0	101	151

3-Flute Drills For Aluminium,Copper

鋁銅合金專用 3 刃鑽頭



MG

DIN 6539

135°

5XD

3Flutes

型號	直徑(d1)	刃長(L2)	全長 (L1)
Type NO.	Diameter	Flute Length	O.A.L
DA 0300	3.0	22	46
DA 0310	3.1	24	49
DA 0320	3.2	24	49
DA 0330	3.3	24	49
DA 0340	3.4	27	52
DA 0350	3.5	27	52
DA 0360	3.6	27	52
DA 0370	3.7	27	52
DA 0380	3.8	30	55
DA 0390	3.9	30	55
DA 0400	4.0	30	55
DA 0410	4.1	30	55
DA 0420	4.2	30	55
DA 0430	4.3	32	58
DA 0440	4.4	32	58
DA 0450	4.5	32	58
DA 0460	4.6	32	58
DA 0470	4.7	32	58
DA 0480	4.8	35	62
DA 0490	4.9	35	62
DA 0500	5.0	35	62
DA 0510	5.1	35	62
DA 0520	5.2	35	62
DA 0530	5.3	35	62
DA 0540	5.4	39	66
DA 0550	5.5	39	66
DA 0560	5.6	39	66
DA 0570	5.7	39	66
DA 0580	5.8	39	66
DA 0590	5.9	39	66
DA 0600	6.0	39	66
DA 0610	6.1	42	70
DA 0620	6.2	42	70
DA 0630	6.3	42	70
DA 0640	6.4	42	70
DA 0650	6.5	42	70
DA 0660	6.6	42	70
DA 0670	6.7	42	70
DA 0680	6.8	45	74
DA 0690	6.9	45	74
DA 0700	7.0	45	74
DA 0710	7.1	45	74
DA 0720	7.2	45	74
DA 0730	7.3	45	74
DA 0740	7.4	45	74
DA 0750	7.5	45	74
DA 0760	7.6	48	79
DA 0770	7.7	48	79
DA 0780	7.8	48	79
DA 0790	7.9	48	79
DA 0800	8.0	48	79
DA 0810	8.1	48	79
DA 0820	8.2	48	79
DA 0830	8.3	48	79
DA 0840	8.4	48	79
DA 0850	8.5	48	79
DA 0860	8.6	52	84
DA 0870	8.7	52	84
DA 0880	8.8	52	84
DA 0890	8.9	52	84
DA 0900	9.0	52	84
DA 0910	9.1	52	84
DA 0920	9.2	52	84
DA 0930	9.3	52	84
DA 0940	9.4	52	84
DA 0950	9.5	52	84
DA 0960	9.6	55	89
DA 0970	9.7	55	89
DA 0980	9.8	55	89
DA 0990	9.9	55	89
DA 1000	10.0	55	89
DA 1020	10.2	55	89
DA 1050	10.5	55	89
DA 1080	10.8	60	95
DA 1100	11.0	60	95
DA 1150	11.5	60	95
DA 1200	12.0	65	102
DA 1250	12.5	65	102
DA 1300	13.0	65	102

Combined Drill and Chamfer Tool

極超硬 極超微粒鎢鋼塗層階梯鑽頭



UMG

90°
D2
d1

145°

2Flutes

TIALN

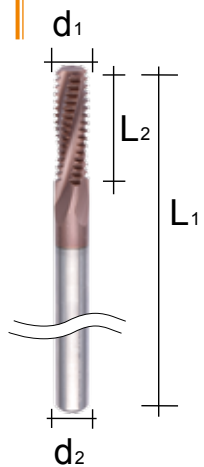
型號	直徑(d1)	刃長(L1)	刃長(L2)	全長 (L1)	柄徑(d2)
Type NO.	Diameter	Flute Length	Flute Length	O.A.L	Shank Dia
M4	3.3	11.4	28	66	6
M5	4.2	13.6	28	66	6
M6	5.0	16.5	41	79	8
M8	6.8	21.0	47	89	10
M10	8.5	25.5	55	102	12
M12	10.2	30.0	60	107	14
M14	12.0	34.5	65	115	16
M16	14.0	38.5	73	123	18

THREAD MILLING TOOL SERIES 螺紋銑刀系列



Thread Milling Tool Series

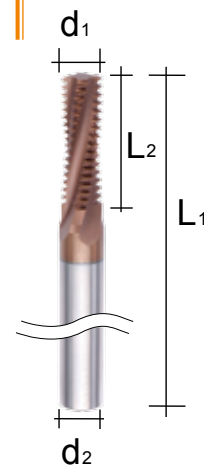
高硬度用螺紋銑刀



型號	直徑 (L1)	刃長(d2)	全長(d2)	柄徑(d2)	刃數(d2)	螺距(d1)	粗牙(L2)	細牙(L1)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia	Flute	Pitch	Coarse	Fine
TR 230505	2.3	5.2	40	6	4	0.5	M3	≥M4
TR 230507	2.3	7.2	40	6	4	0.5	M3	≥M4
TR 300707	3.0	7.28	40	6	4	0.7	M4	
TR 300710	3.0	10.08	40	6	4	0.7	M4	
TR 380809	3.8	9.12	50	6	4	0.8	M5	
TR 380812	3.8	12.32	50	6	4	0.8	M5	
TR 451010	4.5	10.4	60	6	4	1.0	M6	≥M8
TR 451014	4.5	14.4	60	6	4	1.0	M6	≥M8
TR 6012514	6.0	14.25	60	6	4	1.25	M8	≥M10
TR 6012519	6.0	19.25	60	6	4	1.25	M8	≥M10

Thread Milling Tool Series

高硬度用螺紋銑刀



型號	直徑 (L1)	刃長(d2)	全長(d2)	柄徑(d2)	刃數(d2)	螺距(d1)	螺牙(d2)
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia	Flute	Pitch	Thread Siae
TH 023005M3	2.3	5.2	40	6	3	0.5	M3
TH 023007M3	2.3	7.2	40	6	3	0.5	M3
TH 030007M4	3.0	7.28	40	6	3	0.7	M4
TH 030010M4	3.0	10.08	40	6	3	0.7	M4
TH 038009M5	3.8	9.12	50	6	3	0.8	M5
TH 038012M5	3.8	12.32	50	6	3	0.8	M5
TH 045010M6	4.5	10.4	60	6	3	1.0	M6
TH 045014M6	4.5	14.4	60	6	3	1.0	M6
TH 060014M8	6.0	14.25	60	8	3	1.25	M8
TH 060019M8	6.0	19.25	60	8	3	1.25	M8
TH 075017M10	7.5	17.1	60	8	3	1.5	M10
TH 075024M10	7.5	24.6	75	8	3	1.5	M10
TH 080019M12	8.0	19.95	60	8	3	1.75	M12
TH 080028M12	8.0	28.7	75	8	3	1.75	M12
TH 090019M12	9.0	19.95	75	10	4	1.75	M12
TH 090028M12	9.0	28.7	75	10	4	1.75	M12
TH 100026M14	10.0	26.8	75	10	4	2.0	M14
TH 100038M14	10.0	38.8	100	10	4	2.0	M14
TH 120026M16	12.0	26.8	80	12	4	2.0	M16
TH 120038M16	12.0	38.8	100	12	4	2.0	M16
TH 120031M18	12.0	31	100	12	4	2.5	M18
TH 120043M18	12.0	43.5	100	12	4	2.5	M18
TH 140033M20	14.0	33.5	100	14	4	2.5	M20
TH 140048M20	14.0	48.5	100	14	4	2.5	M20
TH 160040M24	16.0	40.2	100	16	5	3.0	M24
TH 160058M24	16.0	58.2	120	16	5	3.0	M24

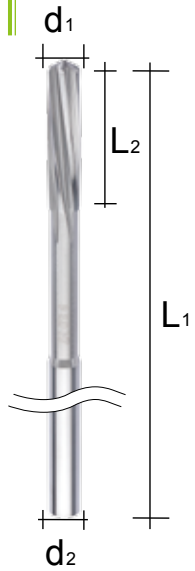
CARBIDE REAMERS

銑刀系列



Machine Reamers In Steps of 0.1mm

鎢鋼鉋刀 超硬 (0.1mm 指定單位)

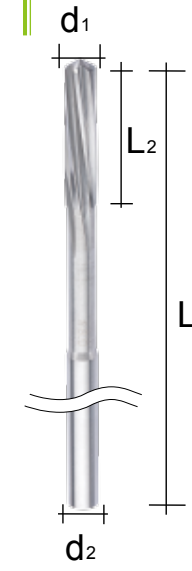


型號	直徑(d1)	刃長(L2)	全長(L1)	刃數
Type NO.	Diameter	Flute Length	O.A.L	Flute
RE 0100	1.0	6	34	4
RE 0110	1.1	7	36	4
RE 0120	1.2	7	38	4
RE 0120	1.3	7	38	4
RE 0140	1.4	8	40	4
RE 0150	1.5	8	40	4
RE 0160	1.6	9	43	4
RE 0170	1.7	9	43	4
RE 0180	1.8	10	46	4
RE 0190	1.9	10	46	4
RE 0200	2.0	11	49	4
RE 0210	2.1	11	49	4
RE 0220	2.2	12	53	4
RE 0230	2.3	12	53	4
RE 0240	2.4	14	57	4
RE 0250	2.5	14	57	4
RE 0260	2.6	14	57	4
RE 0270	2.7	15	61	4
RE 0280	2.8	15	61	4
RE 0290	2.9	15	61	4
RE 0300	3.0	15	61	4
RE 0310	3.1	16	65	4
RE 0320	3.2	16	65	4
RE 0330	3.3	16	65	4
RE 0340	3.4	18	70	4
RE 0350	3.5	18	70	4
RE 0360	3.6	18	70	4
RE 0370	3.7	19	70	4
RE 0380	3.8	19	75	4
RE 0390	3.9	19	75	4
RE 0400	4.0	19	75	4
RE 0410	4.1	19	75	4
RE 0420	4.2	19	75	4
RE 0430	4.3	21	80	4
RE 0440	4.4	21	80	4
RE 0450	4.5	21	80	4
RE 0460	4.6	21	80	6
RE 0470	4.7	21	80	6
RE 0480	4.8	23	86	6
RE 0490	4.9	23	86	6
RE 0500	5.0	23	86	6
RE 0510	5.1	23	86	6
RE 0520	5.2	23	86	6
RE 0530	5.3	23	86	6
RE 0540	5.4	26	93	6
RE 0550	5.5	26	93	6
RE 0560	5.6	26	93	6
RE 0570	5.7	26	93	6
RE 0580	5.8	26	93	6
RE 0590	5.9	26	93	6
RE 0600	6.0	26	93	6
RE 0610	6.1	28	101	6
RE 0620	6.2	28	101	6
RE 0630	6.3	28	101	6
RE 0640	6.4	28	101	6
RE 0650	6.5	28	101	6
RE 0660	6.6	28	101	6
RE 0670	6.7	31	101	6
RE 0680	6.8	31	109	6
RE 0690	6.9	31	109	6
RE 0700	7.0	31	109	6
RE 0710	7.1	31	109	6
RE 0720	7.2	31	109	6
RE 0730	7.3	31	109	6
RE 0740	7.4	31	109	6
RE 0750	7.5	31	109	6
RE 0760	7.6	33	117	6
RE 0770	7.7	33	117	6
RE 0780	7.8	33	117	6
RE 0790	7.9	33	117	6
RE 0800	8.0	33	117	6
RE 0810	8.1	33	117	6
RE 0820	8.2	33	117	6
RE 0830	8.3	33	117	6
RE 0840	8.4	33	117	6
RE 0850	8.5	33	117	6
RE 0860	8.6	36	125	6
RE 0870	8.7	36	125	6
RE 0880	8.8	36	125	6
RE 0890	8.9	36	125	6

型號	直徑(d1)	刃長(L2)	全長(L1)	刃數
Type NO.	Diameter	Flute Length	O.A.L	Flute
RE 0900	9.0	36	125	6
RE 0910	9.1	36	125	6
RE 0920	9.2	36	125	6
RE 0930	9.3	36	125	6
RE 0940	9.4	36	125	6
RE 0950	9.5	36	125	6
RE 0960	9.6	38	133	6
RE 0970	9.7	38	133	6
RE 0980	9.8	38	133	6
RE 0990	9.9	38	133	6
RE 1000	10.0	38	133	6
RE 1010	10.1	38	133	6
RE 1020	10.2	38	133	6
RE 1030	10.3	38	133	6
RE 1040	10.4	38	133	6
RE 1050	10.5	38	133	6
RE 1060	10.6	38	133	6
RE 1070	10.7	41	142	6
RE 1080	10.8	41	142	6
RE 1090	10.9	41	142	6
RE 1100	11.0	41	142	6
RE 1110	11.1	41	142	6
RE 1120	11.2	41	142	6
RE 1130	11.3	41	142	6
RE 1140	11.4	41	142	6
RE 1150	11.5	41	142	6
RE 1160	11.6	41	142	6
RE 1170	11.7	41	142	6
RE 1180	11.8	41	142	6
RE 1190	11.9	44	151	6
RE 1200	12.0	44	151	6

NC Machine Reamers

超微粒鎢鋼NC機械鉋刀



型號	直徑(d1)	刃長(L2)	全長(L1)	柄徑(L1)	刃數
Type NO.	Diameter	Flute Length	O.A.L	Shank Dia	Flute
REA0198	1.98	11	49	2	4
REA0199	1.99	11	49	2	4
REA0200	2.00	11	49	2	4
REA0201	2.01	11	49	2	4
REA0202	2.02	11	49	2	4
REA0203	2.03	11	49	2	4
REA0297	2.97	15	61	3	4
REA0298	2.98	15	61	3	4
REA0299	2.99	15	61	3	4
REA0300	3.00	15	61	3	4
REA0301	3.01	15	61	3	4
REA0302	3.02	15	61	3	4
REA0303	3.03	15	61	3	4
REA0397	3.97	19	75	4	4
REA0398	3.98	19	75	4	4
REA0399	3.99	19	75	4	4
REA0400	4.00	19	75	4	4
REA0401	4.01	19	75	4	4
REA0402	4.02	19	75	4	4
REA0403	4.03	19	75	4	4
REA0497	4.97	23	86	5	6
REA0498	4.98	23	86	5	6
REA0499	4.99	23	86	5	6
REA0500	5.00	23	86	5	6
REA0501	5.01	23	86	5	6
REA0502	5.02	23	86	5	6
REA0503	5.03	23	86	5	6
REA0579	5.97	26	93	6	6
REA0598	5.98	26	93	6	6
REA0599	5.99	26	93	6	6
REA0600	6.00	26	93	6	6
REA0601	6.01	26	93	6	6
REA0602	6.02	26	93	6	6
REA0603	6.03	26	93	6	6
REA0797	7.97	33	117	8	6
REA0798	7.98	33	117	8	6
REA0799	7.99	33	117	8	6
REA0800	8.00	33	117	8	6
REA0801	8.01	33	117	8	6
REA0802	8.02	33	117	8	6
REA0803	8.03	33	117	8	6
REA0997	9.97	38	133	10	6
REA0998	9.98	38	133	10	6
REA0999	9.99	38	133	10	6
REA1000	10.00	38	133	10	6
REA1001	10.01	38	133	10	6
REA1002	10.02	38	133	10	6
REA1003	10.03	38	133	10	6
REA1197	11.97	44	151	12	6
REA1198	11.98	44	151	12	6
REA1199	11.99	44	151	12	6
REA1200	12.00	44	151	12	6
REA1201	12.01	44	151	12	6
REA1202	12.02	44	151	12	6
REA1203	12.03	44	151	12	6

DENTAL MILLING TOOLS



NANO-Mill

Compatible with Sirona[®]
適用於 **Sirona[®]** 設備

Compatible with VHF[®] - S1, S2, K5
適用於 **VHF[®]** - S1, S2, K5 設備

Compatible with Yenadent[®]
適用於 **Yenadent[®]** 設備

Compatible with KaVo-Everest[®]
適用於 **KaVo-Everest[®]** 設備

Compatible with imes-icore[®]
適用於 **imes-icore[®]** 設備

Compatible with VHF[®] - K3, K4
適用於 **VHF[®]** - K3, K4 設備

Compatible with 3M-ESPE[®]
適用於 **3M-ESPE[®]** 設備

Compatible with imes-icore[®]
適用於 **imes-icore[®]** 設備

Compatible with Zirkonzahn[®] - M4
適用於 **Zirkonzahn[®]** - M4 設備

Compatible with ARUM[®]
適用於 **ARUM[®]** 設備

Compatible with ROLAND[®]
適用於 **ROLAND[®]** 設備

Compatible with Amann Girrbach[®]
適用於 **Amann Girrbach[®]** 設備

Compatible with Cercon Brain Expert[®]
適用於 **Cercon Brain Expert[®]** 設備

Compatible with Zirkonzahn[®] - M4
適用於 **Zirkonzahn[®]** - M4 設備

Compatible with Wieland[®] - Zenotec
適用於 **Wieland[®]** - Zenotec 設備



Nano-Mill Technology Co., Ltd

No.2-30-5, Letian Ln, Fengshu Village, Nantun Dist.,
Taichung City 40870, Taiwan
TEL:+886-4-24791765 FAX:+886-4-24791725
mail: nano.mill@msa.hinet.net www.nano-mill.com

