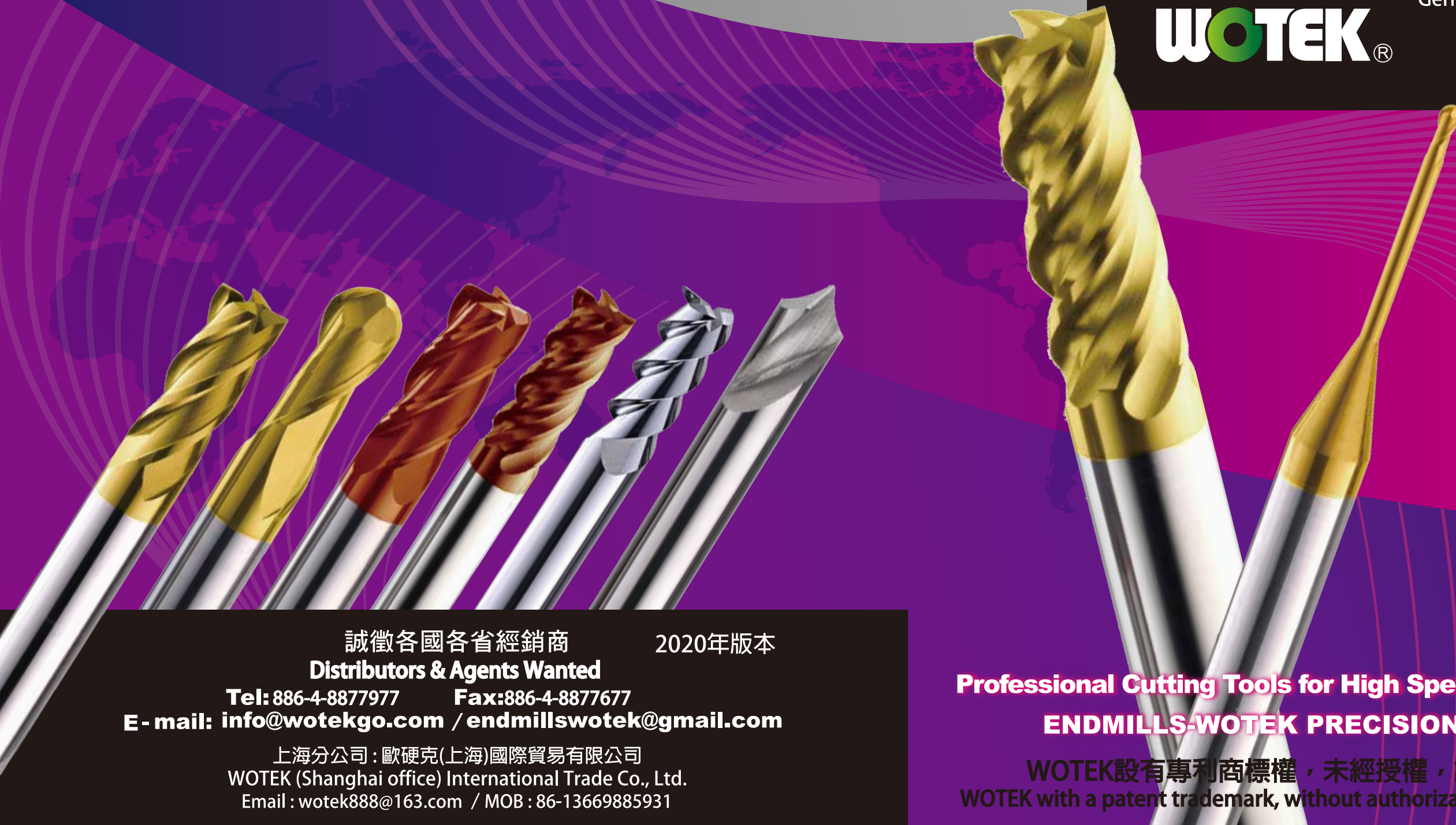


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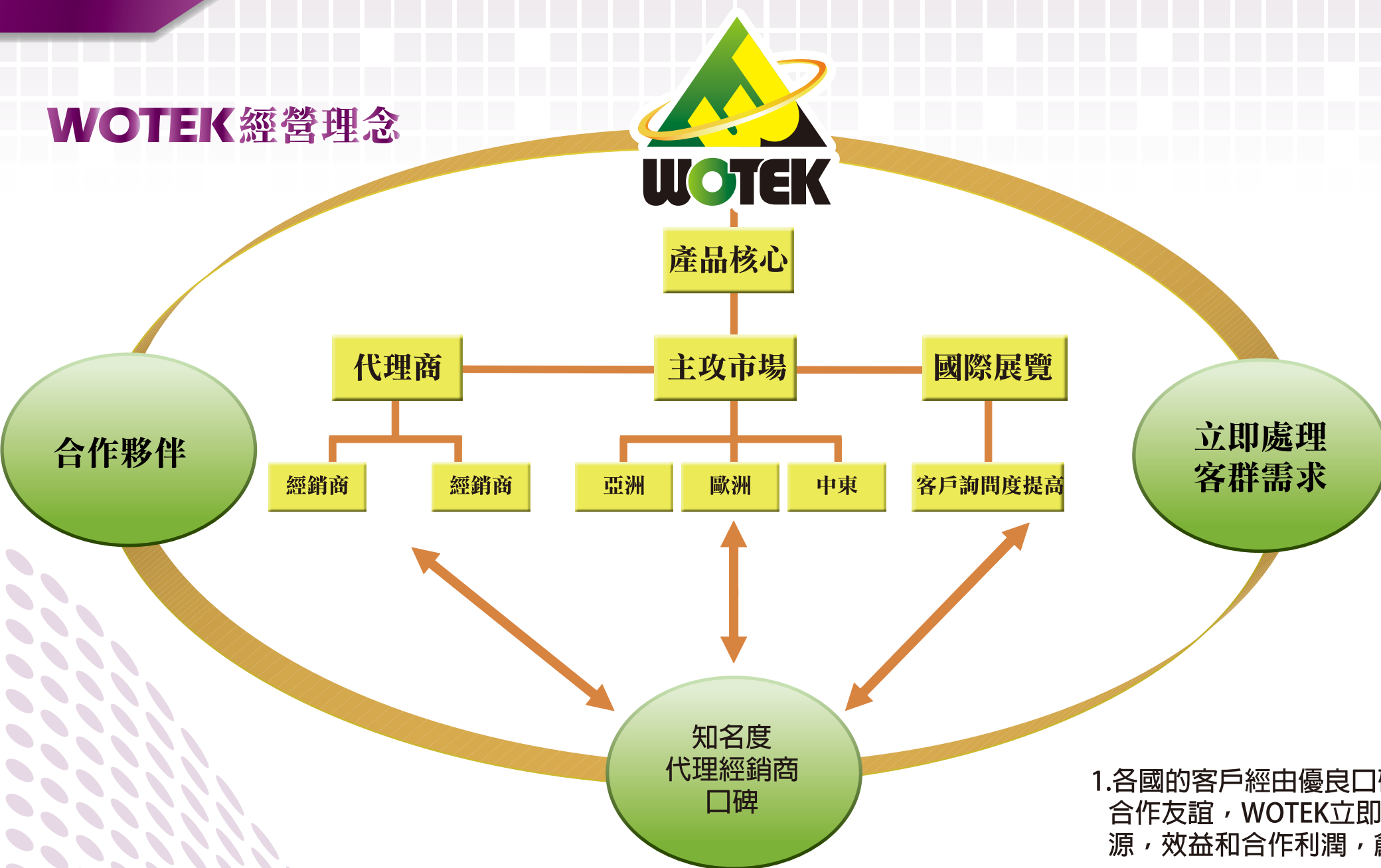
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WOTEK with a patent trademark, without authorization, do not use & counterfeiting.

WOTEK 經營理念



- 1.各國的客戶經由優良口碑得知WOTEK，了解產品價值進而建立與WOTEK的合作友誼，WOTEK立即協助您將產品導入當地市場，共享WOTEK的參展資源，效益和合作利潤，創造雙贏面。
- 2.WOTEK的主要市場位於“亞洲”，“歐洲”及“中東”，明確統整市場，提高產能，大幅提升與您的合作效益。
- 3.積極參展提升品牌能見度，透過“知名度”，“代理經銷商”或“口碑”與我司聯絡，我司將立即處理您的需求，與WOTEK建立長期的互動情誼，增進彼此的利益互惠以達永續經營的目的。

WOTEK Management Concepts

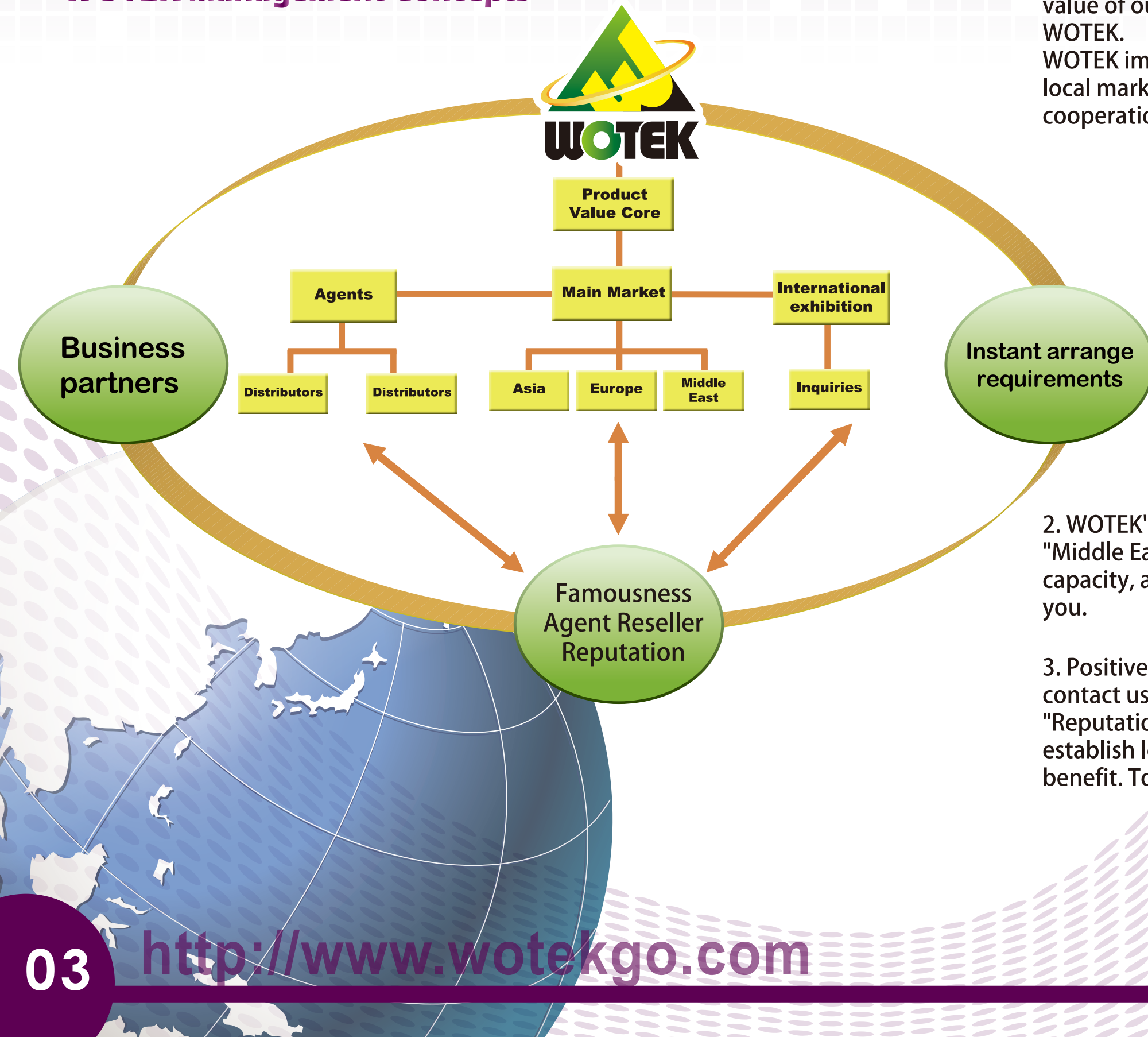
Wotek manage concept circle.

1. Customers knows WOTEK through reputation, understand the value of our products and establish a cooperative friendship with WOTEK.
WOTEK immediately assists you in introducing products into the local market, sharing WOTEK's exhibitions resources, benefits and cooperation profits to create a win-win situation.



2. WOTEK's main markets are located in "Asia", "Europe" and "Middle East". It is clear to unify the market, increases production capacity, and greatly enhance the efficiency of cooperation with you.

3. Positive participate the exhibitions to improve brand visibility, contact us through "Famousness", "Agent Reseller" or "Reputation", we will immediately handle your needs, and establish long-term interaction with WOTEK to promote mutual benefit. To achieve the purpose of sustainable operation.



品牌介紹

WOTEK是致力於研發鎢鋼銑刀供應商，來自亞洲最美麗的寶島-台灣。
「設計創新、品質之承諾、服務快速、信賴重視」為WOTEK精神之指標。

專業領域：

- 圓棒堅持採用穩定性高的德國進口鎢鋼棒材。
- 鍍層採用瑞士”高科技”鍍層/日本”最先進”蝸牛鍍層。
- 層可同時提升鋼刀具的硬度、抗高溫、抗磨耗及抗振動及增加刀具壽命,並可全天候加工。
- 採用德國進口7軸及8軸磨刀機，不”僅”改變銑刀的開刀方式並大幅提升刀具壽命，減少停機換刀的時間。
- 檢測儀器引進瑞士、德國及澳洲高精密度的2D、3D檢測儀，嚴格控管刀具的刃徑、外徑柄徑及同心度公差。

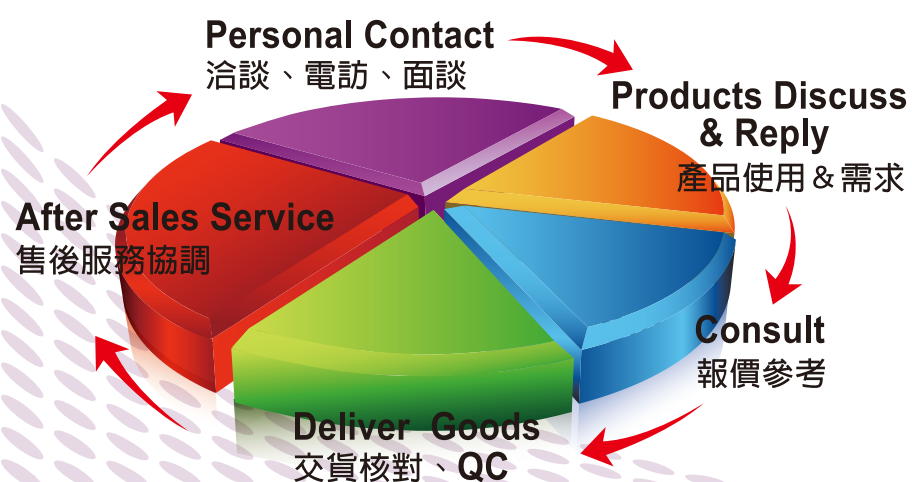
COMPANY INFORMATION

WOTEK is a manufacturer of carbide end mills also researching and developing company in the most beautiful island – Taiwan.

WOTEK is dedicating “Design innovation, Quality commitment, Express service, Trust and Consideration”

PROFESSIONAL TERRITORY：

- Rod bars adoption high steady quality materials from Germany.
- Adoption Hi Tech coating “Oerlikon-Balzer” from Switerland and most advanced tech snail coating from Japan.
- 7-axis and 8-axis grinding machines imported from Germany are not only change the end mills design and greatly increase the tools life and reduces the CNC machines ceases for changing cutters.
- The measure machines are imported from Switzerland, Germany and Australia with high-precision 2D and 3D detectors, which strictly control the diameter, outer diameter, shank diameter and concentricity tolerance of the tools.
- The coating can simultaneously improve the tools life, anti-high temperature resistance, wear resistance and vibration resistance, further machining all day.



應用範圍 APPLICATION



V2 SERIES grain size:0.2um

Drill / milling application, e. g. for high wear resistance materials, for stainless steels, for composite materials like kevlar and Graphite Reinforced Plastics. For PCB routers. For high speed cutting. For dry cutting.



G4 SERIES grain size:0.4um

Drill / milling application, e. g. for titanium alloys, heat-resistant alloys, stainless steels, hardened steels, grey cast iron, fiberglass reinforced plastics, composite materials. For machine taps.



P6 SERIES grain size:0.6um

For titanium alloys, heat-resistant alloys, austenitic stainless steels, grey cast iron, fiberglass reinforced plastics.

Type 刀具種類	Grain Size 晶粒度	Carbide 材質系列	Coating 鍍層	Work Material 硬度	Helix Angle 螺旋角	Flute 刃數	Flute Edge 刀型
Square End Mills							
Ball Nose	Grain Size 0.2µm	Carbide NaNo MG	Coating Carbide End Mills Aluminum-Cutting	HRC 25	Helix Angle 5°	Flute 1	Flute Edge 90° SQUARE
Corner Radius	Grain Size 0.4µm	Carbide Super MG	Coating Naco Blue DLC	HRC 30	Helix Angle 25°	Flute 2	Flute Edge Ball
Micro Diameter	Grain Size 0.6µm	Carbide MG	Coating ceed CrN	HRC 40	Helix Angle 30°	Flute 3	Flute Edge R Corner
Tapered			Coating AICrN Tialn	HRC 45 50	Helix Angle 35° 40°	Flute 4 6	Flute Edge Tapered 90° Long Neck
Roughing			Coating NaNo	HRC 55	Helix Angle 45°	Flute 8	Flute Edge R Long Neck
Long Neck			Coating F	HRC 58	Helix Angle 50°		Flute Edge R Long Neck
Aluminum Cutting				HRC 60	Helix Angle 55°		Flute Edge Clearance
Drills				HRC 62	Helix Angle 60°		
Sawblad				HRC 65	Helix Angle		
				HRC 70			















碳化鎢材質表 Solid Carbide Material						
產品等級	鈷含量	硬 度		韌性	抗折力	晶粒度
Grade	Cobalt Content	Hardness		K1c	TRS	Grain Size
	[wt%]	HV30	HRA			
		[kg/mm²]	[ISO 3738]	[MNm ^{-3/2}]	[N/mm²]	[µm]
V2 SERIES	9.0	1950	93.9	9.3	>4000	0.2
G4 SERIES	12.0	1680	92.5	10.0	>4000	0.4
P6 SERIES	10.0	1610	92.0	10.5	>4000	0.6

鍍膜名稱 Coating Layer	特 性 Key Characteristion	主要應用範圍 Primary Applications
X CEED TIALN	優秀的抗氧化性 Excellent oxidation resistance	專為鎢鋼切削工具設計的高硬度材機械加工用膜層，擁有極對的硬度和絕佳的熱度及化學安定性。 Machining of difficult to machine materials like titanium alloys like as TiAl6V4, inconel Machining of hard materials > 65 HRC High speed. machining.
AICRN(G6) TIALN	優秀的抗氧化性 Excellent oxidation resistance	專為鎢鋼切削工具設計的高硬度材機械加工用膜層，擁有極對的硬度和絕佳的熱度及化學安定性。 Machining of difficult to machine materials like titanium alloys like as TiAl6V4, inconel Machining of hard materials > 60 HRC High speed. machining.
X TREME TIALN	優秀的抗氧化性 Excellent oxidation resistance	專為鎢鋼切削工具設計的高硬度材機械加工用膜層，擁有極對的硬度和絕佳的熱度及化學安定性。 A specialized coating designed specifically for use on carbide end mills for the machining of hardened steel work pieces. Designed for high speed and semi-dry or dry machining operations.
FUTURA-NANO TIALN	優秀的抗氧化性 Excellent oxidation resistance	除了擁有Futura的特性外，更強化了附著力，硬度及減低內應力。適用於高硬度模具鋼材之高速，乾式切削等各類切削工具，及需耐溫 耐腐蝕性場合之模具，工具零配件等。 The characteristics of FUTURA are maintained and even improved in excellent adhesion, higher hardness, and lower residual compressive stress. Excellent for machining cast iron, stainless steel, nickel-based high temperature alloys and titanium alloys. Designed for high speed and semi-dry or dry machining operations.
FUTURA TIALN	附著力佳而耐腐蝕性及抗氧化性佳 Good adhesion, good corrosion and oxidation resistance	多層膜結構，具有良好的熱傳導率和優秀化學安定性，適用於高硬度模具鋼材之高速，乾式切削等各類切削工具，及需耐溫，耐腐蝕性場合之模具，工具等配件。 A multilayer coating designed for a wide range of carbide, cermet and high speed steel tooling. Excellent for machining cast iron, stainless steel, nickel-based high temperature alloys and titanium alloys. Designed for high speed and semi-dry or dry machining operations.
CrN	附著力佳而耐腐蝕性及抗氧化性佳 Good adhesion, good corrosion and oxidation resistance.	可取代傳統鍍鉻，比鍍鉻更耐磨，適用於模具。零件類耐氧化，耐腐蝕之極佳鍍膜，如防止膠膜射出，壓鑄粉末燒結等之黏著沾黏現象。 Machining copper Metal forming Plastic Molding.
DLC	潤滑性佳降低磨耗 Enhanced sliding wear capacity with high lubricity	適用於切削鋁合金，銅合金，具低摩擦係數，運用於精密工件及引擎零件均有良好效果。 Precision components; forming, molding; cutting aluminum alloys.
nACo (nc-ALTiN) (a-Si3N4)		

顏色	納米硬度高達	厚度	摩擦(微動)	最大使用溫度
Color	Nanohardness up to [GPa]	Thickness [µm]	Friction (fretting)	Max. usage temp.
紫藍色 Violet-blue	41 Gpa	42739 µm	0.4 coeff	1200°C




















鋼，硬化鋼
合金鋼高溫合金
Steels · Hardened Steels
Alloyed Steels Superalloys

NANO SUPER MICRO GRAIN



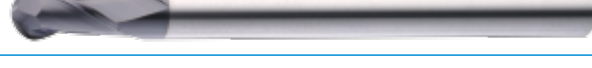

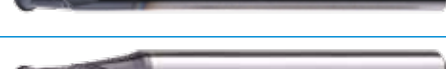

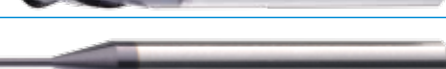
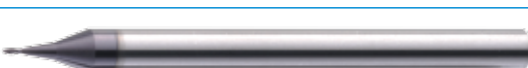


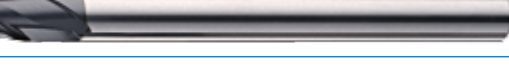
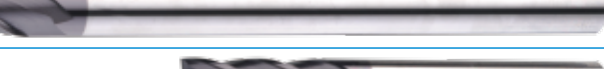
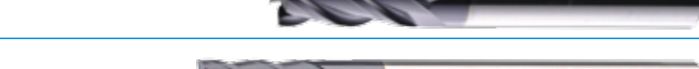
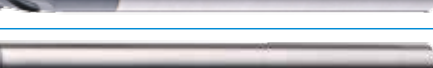
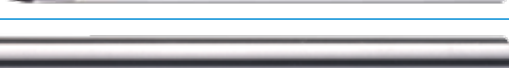





- P15 **V2B-2T-XC** 奈米極細超微粒球刀2刃
Ball Nose End Mills-2 Flute 
- P15 **V2B-4T-XC** 奈米極細超微粒球刀4刃
Ball Nose End Mills-4 Flute 
- P15 **V2SB-2T-XC** 奈米極細超微粒微小徑球刀2刃
Micro Diameter Ball Nose End Mills-2 Flute 
- P15 **V2SE-2T-XC** 奈米極細超微粒微小徑平刀2刃
Micro Diameter Square End Mills-2 Flute 
- P16 **V2E-2T-XC** 奈米極細超微粒平刀2刃
Square End Mills-2 Flute 
- P16 **V2E-4T-XC** 奈米極細超微粒平刀4刃
Square End Mills-4 Flute 
- P16 **V2R-2T-XC** 奈米極細超微粒圓鼻刀2刃
Corner Radius End Mills-2 Flute 
- P16 **V2R-4T-XC** 奈米極細超微粒圓鼻刀4刃
Corner Radius End Mills-4 Flute 
- P17 **V2B-2T** 奈米極細超微粒球刀2刃
Ball Nose End Mills-2 Flute 
- P17 **V2E-4T** 奈米極細超微粒平刀4刃
Square End Mills-4 Flute 
- P17 **V2R-4T** 奈米極細超微粒圓鼻刀4刃
Corner Radius End Mills-4 Flute 
- P18 **V2B-2T-NB** 奈米極細超微粒球刀2刃
Ball Nose End Mills-2 Flute 
- P18 **V2E-4T-NB** 奈米極細超微粒平刀4刃
Square End Mills-4 Flute 
- P18 **V2R-4T-NB** 奈米極細超微粒圓鼻刀4刃
Corner Radius End Mills-4 Flute 

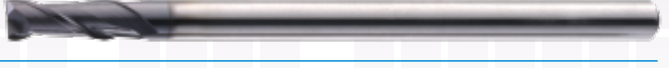

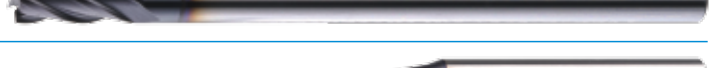
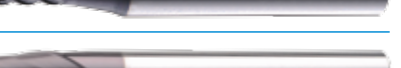





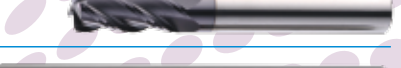
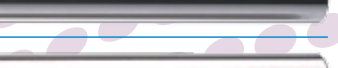






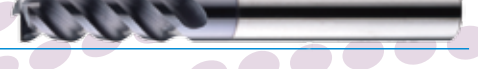


SUPER MICRO GRAIN

- P19 **G4B-2T** 極細超微粒球刀2刃
Ball Nose End Mills-2 Flute 
- P19 **G4B75L-2T** 極細超微粒長柄球刀2刃
Ball Nose End Mills-2 Flute 
- P19 **G4B100L-2T** 極細超微粒長柄球刀2刃
Ball Nose End Mills-2 Flute 
- P19 **G4B150L-2T** 極細超微粒長柄球刀2刃
Ball Nose End Mills-2 Flute 
- P19 **G4SB-2T** 極細超微粒微小徑專用球刀2刃
Ball Nose End Mills-2 Flute 
- P20 **G4SB3D-2T** 極細超微粒微小徑專用球刀2刃 3柄徑
Ball Nose End Mills 2 Flute 














- P20 **G4JB-2T** 極細超微粒深溝專用球刀2刃
Ball Nose End Mills-2 Flute 
- P21 **G4B-4T** 極細超微粒球刀4刃
Ball Nose End Mills-4 Flute 
- P21 **G4B3D-2T** 極細超微粒球刀2刃 3柄徑
Ball Nose End Mills-2 Flute 
- P21 **G4B6D-2T** 極細超微粒球刀2刃 6柄徑
Ball Nose End Mills-2 Flute 
- P22 **G4E-2T** 極細超微粒平刀2刃
Square End Mills-2 Flute 
- P22 **G4E-4T** 極細超微粒平刀4刃
Square End Mills-4 Flute 
- P22 **G4E45-4T** 極細超微粒平刀4刃-45度螺旋角
Square End Mills-4 Flute 
- P22 **G4E45-6T** 極細超微粒平刀6刃-45度螺旋角
Square End Mills-6 Flute 
- P23 **G4E6D-2T** 極細超微粒平刀2刃 3柄徑
Square End Mills-2 Flute 
- P23 **G4E6D-4T** 極細超微粒平刀4刃 6柄徑
Square End Mills-4 Flute 
- P23 **G4SE-2T** 極細超微粒微小徑平刀2刃
Square End Mills-2 Flute 
- P23 **G4SE3D-2T** 極細超微粒微小徑平刀2刃 3柄徑
Square End Mills-2 Flute 
- P24 **G4E3D-2T** 極細超微粒平刀2刃 3柄徑
Square End Mills-2 Flute 
- P24 **G4E3D-4T** 極細超微粒平刀4刃 6柄徑
Square End Mills-4 Flute 
- P24 **G4JE-2T** 極細超微粒深溝專用平刀2刃
Square End Mills-2 Flute 
- P25 **G4R-4T** 極細超微粒圓鼻刀4刃
Corner Radius End Mills-4 Flute 
- P25 **G4R-2T** 極細超微粒圓鼻刀2刃
Corner Radius End Mills-2 Flute 
- P26 **G4ZE-4T** 極細超微粒平刀4刃 圓溝
Square End Mills-4 Flute 
- P26 **G4QE38-4T** 極細超微粒平刀4刃 不等分割 35/38螺旋角
Square End Mills-4 Flute 

MICRO GRAIN

- P27 **P6B-2T** 極超微粒球刀2刃
Ball Nose End Mills-2 Flute 
- P27 **P6B75L-2T** 極超微粒長柄球刀2刃
Ball Nose End Mills-2 Flute 
- P27 **P6B100L-2T** 極超微粒長柄球刀2刃
Ball Nose End Mills-2 Flute 
- P27 **P6B150L-2T** 極超微粒長柄球刀2刃
Ball Nose End Mills-2 Flute 
- P27 **P6B3D-2T** 極超微粒3柄球刀2刃
Ball Nose End Mills-2 Flute 
- P27 **P6B6D-2T** 極超微粒6柄球刀2刃
Ball Nose End Mills-2 Flute 
- P28 **P6B-4T** 極超微粒球刀4刃
Ball Nose End Mills-4 Flute 
- P28 **P6JB-2T** 極超微粒深溝專用球刀2刃
Ball Nose End Mills-2 Flute 
- P28 **P6SB-2T** 極超微粒微小徑專用球刀2刃
Ball Nose End Mills-2 Flute 
- P29 **P6E-2T** 極超微粒平刀2刃
Square End Mills-2 Flute 
- P29 **P6E75L-2T** 極超微粒長柄平刀2刃
Square End Mills-2 Flute 
- P29 **P6E100L-2T** 極超微粒長柄平刀2刃
Square End Mills-2 Flute 
- P29 **P6E150L-2T** 極超微粒長柄平刀2刃
Square End Mills-2 Flute 
- P30 **P6E-4T** 極超微粒平刀4刃
Square End Mills-4 Flute 
- P30 **P6E75L-4T** 極超微粒長柄平刀4刃
Square End Mills-4 Flute 
- P30 **P6E100L-4T** 極超微粒長柄平刀4刃
Square End Mills-4 Flute 
- P30 **P6E150L-4T** 極超微粒長柄平刀4刃
Square End Mills-4 Flute 
- P31 **P6E45-3T** 極超微粒平刀3刃-45度螺旋角
Square End Mills-3 Flute 
- P31 **P6E45-4T** 極超微粒平刀4刃-45度螺旋角
Square End Mills-4 Flute 
- P31 **P6E45-6T** 極超微粒平刀6刃-45度螺旋角
Square End Mills-6 Flute 

- P32 **P6E3D-2T** 極超微粒3柄平刀2刃
Square End Mills-2 Flute 
- P32 **P6E6D-2T** 極超微粒6柄平刀2刃
Square End Mills-2 Flute 
- P32 **P6E3D-4T** 極超微粒3柄平刀4刃
Square End Mills-4 Flute 
- P32 **P6E6D-4T** 極超微粒6柄平刀4刃
Ball Nose End Mills-2 Flute 
- P33 **P6FE-2T** 極超微粒長刃平刀2刃
Square End Mills-2 Flute 
- P33 **P6FE-4T** 極超微粒長刃平刀4刃
Square End Mills-4 Flute 
- P33 **P6JE-2T** 極超微粒深溝專用平刀2刃
Square End Mills-2 Flute 
- P34 **P6SE-2T** 極超微粒微小徑平刀2刃
Square End Mills-2 Flute 
- P35 **P6NE-2T** 極超微粒斜度平刀2刃
End Mills-2 Flute 
- P36 **P6R-2T** 極超微粒圓鼻刀2刃
Corner Radius End Mills-2 Flute 
- P36 **P6R-4T** 極超微粒圓鼻刀4刃
Corner Radius End Mills-4 Flute 
- P37 **P6LR-2T** 極超微粒長柄圓鼻刀2刃
Corner Radius End Mills-2 Flute 
- P37 **P6LR-4T** 極超微粒長柄圓鼻刀4刃
Corner Radius End Mills-4 Flute 
- P38 **P6M40-3T** 極超微粒粗精銑刀(細目)3刃
Roughing End Mills-3 Flute 
- P38 **P6M40-4T** 極超微粒粗精銑刀(細目)4刃
Roughing End Mills-4 Flute 
- P38 **P6W25-3T** 極超微粒粗銑刀(粗目)3刃
Roughing End Mills-3 Flute 
- P38 **P6W25-4T** 極超微粒粗銑刀(粗目)4刃
Roughing End Mills-4 Flute 
- P39 **P6SB3D-2T** 極超微粒微小徑專用球刀2刃 3柄徑
Ball Nose End Mills-2 Flute 
- P39 **P6SE3D-2T** 極超微粒微小徑平刀2刃 3柄徑
Square End Mills-2 Flute 
- P40 **P6ZE-4T** 極超微粒平刀4刃 重切削
Square End Mills-4 Flute 

SOFT MATERIALS CUTTING

- P41 **P6A45-2T** 極超微粒全鏡面銅鋁合金專用平刀2刃
Aluminum Cutting Square End Mills-2 Flute 
- P41 **P6A45-3T** 極超微粒全鏡面銅鋁合金專用平刀3刃
Aluminum Cutting Square End Mills-3 Flute 
- P42 **P6AB25-2T** 極超微粒銅鋁合金專用球刀2刃
Aluminum Cutting Ball Nose End Mills-2 Flute 
- P42 **P6AR45-2T** 極超微粒銅鋁專用圓鼻刀2刃
Aluminum Cutting Corner Radius End Mills-2 Flute 
- P42 **P6AE45-2T** 極超微粒銅鋁合金專用平刀2刃
Aluminum Cutting Square End Mills-2 Flute 
- P42 **P6AE45-3T** 極超微粒銅鋁合金專用平刀3刃
Aluminum Cutting Square End Mills-3 Flute 
- P43 **P6AE55-2T** 極超微粒銅鋁專用利刃平刀2刃
Aluminum Cutting Square End Mills-2 Flute 
- P43 **P6AE55-3T** 極超微粒銅鋁專用利刃平刀3刃
Aluminum Cutting Square End Mills-3 Flute 
- P43 **P6AEF55-2T** 極超微粒銅鋁專用長刃平刀2刃
Aluminum Cutting Square End Mills-2 Flute 
- P43 **P6AEF55-3T** 極超微粒銅鋁專用長刃平刀3刃
Aluminum Cutting Square End Mills-3 Flute 
- P44 **P6AR45-3T** 極超微粒銅鋁專用圓鼻刀3刃
Aluminum Cutting Corner Radius End Mills-3 Flute 
- P44 **P6AW38-3T** 極超微粒銅鋁專用粗銼刀3刃
Aluminum Cutting Roughing End Mills-3 Flute 
- P44 **P6AVE50-3T** 極超微粒銅鋁專用平刀3刃重切削
Aluminum Cutting Square End Mills-3 Flute 

End Mills Nickel based alloy Titanium alloy Cutting

- P45 **NQE** 鎳基/鈦合金專用刀
End Mills Nickel based alloy Titanium alloy Cutting 

End Mills CrMo alloy Cutting

- P49 **CQE** 鉻鉬鋼專用刀
End Mills CrMo alloy Cutting 





End Mills Stainless Steel Cutting

- P51 **SSQE** 不鏽鋼專用刀
End Mills Stainless Steel Cutting 

End Mills Graphite dedicated Cutting

- P53 **P6G** 石墨專用刀
End Mills Graphite dedicated Cutting 

DRILLS

- P57 **DKD** 內冷式全鎢鋼鑽頭
Tungsten Carbide Coated Drill With Coolant Through Hole 
- P60 **DOD** 內冷式全鎢鋼鑽頭
Tungsten Carbide Coated Drill With Coolant Through Hole 
- P62 **DFD** 全鎢鋼鑽頭
Tungsten Carbide Coated Drill 
- P65 **DCD** 全鎢鋼鑽頭
Tungsten Carbide Coated Drill 

SPOTTING DRILLS

- P67 **P6P** 60度,90度,120度 定位鑽
60°, 90°, 120°, Spotting Drills 

SAWBLADE

- P68 **P6CA** 全鎢鋼鋸片
Tungsten Circular Sawblade 
- P68 **H6CA** HSS小徑槽鋸片
HSS Small Diameter Slotting Circular Sawblade 



品牌介紹
COMPANY INFORMATION

V2 奈米
極細超微粒

V2 奈米極細超微粒
NANO SUPER MICRO GRAIN

G4 極細超微粒
SUPER MICRO GRAIN

P6 極超微粒
MICRO GRAIN

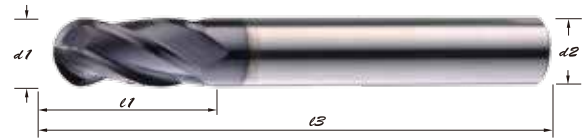
P6 極超微粒
(Soft Materials Cutting)



V2B-2T-XC 奈米極細超微粒球刀2刃
Ball Nose End Mills-2 Flute

Grain Size: 0.2µm, Carbide: NaNo MG, Coating: XC, HRC: 70, Helix Angle: 30°, Flutes: 2, Flute Edge: Ball

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
V2B-0102-XC	R0.5	2	50	4
V2B-0152-XC	R0.75	3	50	4
V2B-0202-XC	R1	4	50	4
V2B-0252-XC	R1.25	5	50	4
V2B-0302-XC	R1.5	6	50	4
V2B-0352-XC	R1.75	7	50	4
V2B-0402-XC	R2	8	50	4
V2B-0452-XC	R2.25	9	50	6
V2B-0502-XC	R2.5	10	50	6
V2B-0552-XC	R2.75	11	50	6
V2B-0602-XC	R3	12	50	6
V2B-0702-XC	R3.5	14	60	8
V2B-0802-XC	R4	16	60	8
V2B-0902-XC	R4.5	18	75	10
V2B-1002-XC	R5	20	75	10
V2B-1102-XC	R5.5	22	75	12
V2B-1202-XC	R6	24	75	12
V2B-1402-XC	R7	28	100	16
V2B-1602-XC	R8	32	100	16
V2B-1802-XC	R9	36	100	20
V2B-2002-XC	R10	40	100	20



V2B-4T-XC 奈米極細超微粒球刀4刃
Ball Nose End Mills-4 Flute

Grain Size: 0.2µm, Carbide: NaNo MG, Coating: XC, HRC: 70, Helix Angle: 30°, Flutes: 4, Flute Edge: Ball

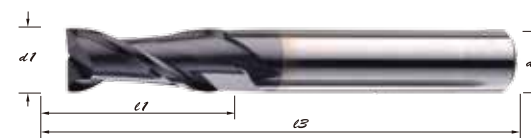
Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
V2B-0104-XC	R0.5	2	50	4
V2B-0154-XC	R0.75	3	50	4
V2B-0204-XC	R1	4	50	4
V2B-0254-XC	R1.25	5	50	4
V2B-0304-XC	R1.5	6	50	4
V2B-0354-XC	R1.75	7	50	4
V2B-0404-XC	R2	8	50	4
V2B-0454-XC	R2.25	9	50	6
V2B-0504-XC	R2.5	10	50	6
V2B-0554-XC	R2.75	11	50	6
V2B-0604-XC	R3	12	50	6
V2B-0704-XC	R3.5	14	60	8
V2B-0804-XC	R4	16	60	8
V2B-0904-XC	R4.5	18	75	10
V2B-1004-XC	R5	20	75	10
V2B-1104-XC	R5.5	22	75	12
V2B-1204-XC	R6	24	75	12
V2B-1404-XC	R7	28	100	16
V2B-1604-XC	R8	32	100	16
V2B-1804-XC	R9	36	100	20
V2B-2004-XC	R10	40	100	20



V2SE-2T-XC 奈米極細超微粒小徑平刀2刃
Square End Mills-2 Flute

Grain Size: 0.2µm, Carbide: NaNo MG, Coating: XC, HRC: 65, Helix Angle: 30°, Flutes: 2, Flute Edge: SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
V2SE-0022-XC	0.2	0.4	50	4
V2SE-0032-XC	0.3	0.6	50	4
V2SE-0042-XC	0.4	0.8	50	4
V2SE-0052-XC	0.5	1	50	4
V2SE-0062-XC	0.6	1.2	50	4
V2SE-0072-XC	0.7	1.4	50	4
V2SE-0082-XC	0.8	1.6	50	4
V2SE-0092-XC	0.9	1.8	50	4
V2SE-0112-XC	1.1	3	50	4
V2SE-0122-XC	1.2	3	50	4
V2SE-0132-XC	1.3	3	50	4
V2SE-0142-XC	1.4	3	50	4
V2SE-0162-XC	1.6	4	50	4
V2SE-0172-XC	1.7	4	50	4
V2SE-0182-XC	1.8	4	50	4
V2SE-0192-XC	1.9	4	50	4
V2SE-0212-XC	2.1	6	50	4
V2SE-0222-XC	2.2	6	50	4
V2SE-0232-XC	2.3	6	50	4
V2SE-0242-XC	2.4	6	50	4
V2SE-0262-XC	2.6	8	50	4
V2SE-0272-XC	2.7	8	50	4
V2SE-0282-XC	2.8	8	50	4
V2SE-0292-XC	2.9	8	50	4



V2E-2T-XC 奈米極細超微粒平刀2刃
Square End Mills-2 Flute

Grain Size: 0.2µm, Carbide: NaNo MG, Coating: XC, HRC: 70, Helix Angle: 35°, Flutes: 2, Flute Edge: SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
V2E-0102-XC	1	3	50	4
V2E-0152-XC	1.5	4	50	4
V2E-0202-XC	2	6	50	4
V2E-0252-XC	2.5	8	50	4
V2E-0302-XC	3	8	50	4
V2E-0352-XC	3.5	10	50	4
V2E-0402-XC	4	11	50	4
V2E-0452-XC	4.5	13	50	6
V2E-0502-XC	5	13	50	6
V2E-0552-XC	5.5	13	50	6
V2E-0602-XC	6	16	50	6
V2E-0652-XC	6.5	16	60	8
V2E-0702-XC	7	16	60	8
V2E-0752-XC	7.5	16	60	8
V2E-0802-XC	8	20	60	8
V2E-0852-XC	8.5	20	75	10
V2E-0902-XC	9	20	75	10
V2E-0952-XC	9.5	25	75	10
V2E-1002-XC	10	25	75	10
V2E-1102-XC	11	30	75	12
V2E-1152-XC	11.5	30	75	12
V2E-1202-XC	12	30	75	12
V2E-1402-XC	14	40	100	16
V2E-1602-XC	16	40	100	16
V2E-1802-XC	18	45	100	20
V2E-2002-XC	20	45	100	20



V2R-2T-XC 奈米極細超微粒圓鼻刀2刃
Corner Radius End Mills-2 Flute

Grain Size: 0.2µm, Carbide: NaNo MG, Coating: XC, HRC: 70, Helix Angle: 35°, Flutes: 2, Flute Edge: R Corner

Type No. 型號	Diameter 直徑d1	Corner R R角r	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
V2R-06032-XC	6	0.3	15	50	6
V2R-06052-XC	6	0.5	15	50	6
V2R-06102-XC	6	1	15	50	6
V2R-08032-XC	8	0.3	20	60	8
V2R-08052-XC	8	0.5	20	60	8
V2R-08102-XC	8	1	20	60	8
V2R-10052-XC	10	0.5	25	75	10
V2R-10102-XC	10	1	25	75	10
V2R-10152-XC	10	1.5	25	75	10
V2R-10202-XC	10	2	25	75	10
V2R-10302-XC	10	3	25	75	10
V2R-12052-XC	12	0.5	30	75	12
V2R-12102-XC	12	1	30	75	12
V2R-12152-XC	12	1.5	30	75	12
V2R-12202-XC	12	2	30	75	12
V2R-12302-XC	12	3	30	75	12
V2R-16102-XC	16	1	40	100	16
V2R-16202-XC	16	2	40	100	16
V2R-16302-XC	16	3	40	100	16



V2E-4T-XC 奈米極細超微粒平刀4刃
Square End Mills 4 Flute

Grain Size: 0.2µm, Carbide: NaNo MG, Coating: XC, HRC: 70, Helix Angle: 35°, Flutes: 4, Flute Edge: SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
V2E-0104-XC	1	3	50	4
V2E-0154-XC	1.5	4	50	4
V2E-0204-XC	2	6	50	4
V2E-0254-XC	2.5	8	50	4
V2E-0304-XC	3	8	50	4
V2E-0354-XC	3.5	10	50	4
V2E-0404-XC	4	11	50	4
V2E-0454-XC	4.5	13	50	6
V2E-0504-XC	5	13	50	6
V2E-0554-XC	5.5	13	50	6
V2E-0604-XC	6	16	50	6
V2E-0654-XC	6.5	16	60	8
V2E-0704-XC	7	16	60	8
V2E-0754-XC	7.5	16	60	8
V2E-0804-XC	8	20	60	8
V2E-0854-XC	8.5	20	75	10
V2E-0904-XC	9	20	75	10
V2E-0954-XC	9.5	25	75	10
V2E-1004-XC	10	25	75	10
V2E-1104-XC	11	30	75	12
V2E-1154-XC	11.5	30	75	12
V2E-1204-XC	12	30	75	12
V2E-1404-XC	14	40	100	16
V2E-1604-XC	16	40	100	16
V2E-1804-XC	18	45	100	20
V2E-2004-XC	20	45	100	20



V2R-4T-XC 奈米極細超微粒圓鼻刀4刃
Corner Radius End Mills-4 Flute

Grain Size: 0.2µm, Carbide: NaNo MG, Coating: XC, HRC: 70, Helix Angle: 35°, Flutes: 4, Flute Edge: R Corner

Type No. 型號	Diameter 直徑d1	Corner R R角r	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
V2R-06034-XC	6	0.3	15	50	6
V2R-06054-XC	6	0.5	15	50	6
V2R-06104-XC	6	1	15	50	6
V2R-08034-XC	8	0.3	20	60	8
V2R-08054-XC	8	0.5	20	60	8
V2R-08104-XC	8	1	20	60	8
V2R-10054-XC	10	0.5	25	75	10
V2R-10104-XC	10	1	25	75	10
V2R-10154-XC	10	1.5	25	75	10
V2R-10204-XC	10	2	25	75	10
V2R-10304-XC	10	3	25	75	10
V2R-12054-XC	12	0.5	30	75	12
V2R-12104-XC	12	1	30	75	12
V2R-12154-XC	12	1.5	30	75	12
V2R-12204-XC	12	2	30	75	12
V2R-12304-XC	12	3	30	75	12
V2R-16104-XC	16	1	40	100	16
V2R-16204-XC	16	2	40	100	16
V2R-16304-XC	16	3	40	100	16

V2 奈米極細超微粒

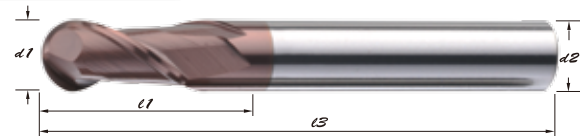
品牌介紹 COMPANY INFORMATION

V2 奈米極細超微粒 NANO SUPER MICRO GRAIN

G4 極細超微粒 SUPER MICRO GRAIN

P6 極超微粒 MICRO GRAIN

P6 極超微粒 (Soft Materials Cutting)

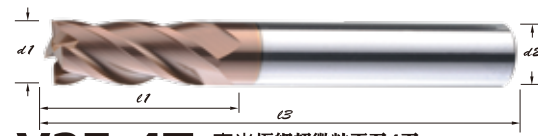


V2B-2T 奈米極細超微粒球刀2刃
Ball Nose End Mills-2 Flute

Grain Size: 0.2µm | Carbide: NaNo MG | Coating: TOP TiAlN | HRC: 70 | Helix Angle: 30° | Flutes: 2 | Flute Edge: Ball

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
V2B-0102	R0.5	2	50	4
V2B-0152	R0.75	3	50	4
V2B-0202	R1	4	50	4
V2B-0252	R1.25	5	50	4
V2B-0302	R1.5	6	50	4
V2B-0352	R1.75	7	50	4
V2B-0402	R2	8	50	4
V2B-0452	R2.25	9	50	6
V2B-0502	R2.5	10	50	6
V2B-0552	R2.75	11	50	6
V2B-0602	R3	12	50	6
V2B-0702	R3.5	14	60	8
V2B-0802	R4	16	60	8
V2B-0902	R4.5	18	75	10
V2B-1002	R5	20	75	10
V2B-1102	R5.5	22	75	12
V2B-1202	R6	24	75	12
V2B-1402	R7	28	100	16
V2B-1602	R8	32	100	16
V2B-1802	R9	36	100	20
V2B-2002	R10	40	100	20

unit: mm

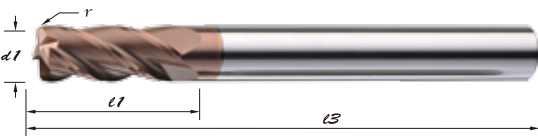


V2E-4T 奈米極細超微粒平刀4刃
Square End Mills-4 Flute

Grain Size: 0.2µm | Carbide: NaNo MG | Coating: TOP TiAlN | HRC: 70 | Helix Angle: 35° | Flutes: 4 | Flute Edge: SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
V2E-0104	1	3	50	4
V2E-0154	1.5	4	50	4
V2E-0204	2	6	50	4
V2E-0254	2.5	8	50	4
V2E-0304	3	8	50	4
V2E-0354	3.5	10	50	4
V2E-0404	4	11	50	4
V2E-0454	4.5	13	50	6
V2E-0504	5	13	50	6
V2E-0554	5.5	13	50	6
V2E-0604	6	16	50	6
V2E-0654	6.5	16	60	8
V2E-0704	7	16	60	8
V2E-0754	7.5	16	60	8
V2E-0804	8	20	60	8
V2E-0854	8.5	20	75	10
V2E-0904	9	20	75	10
V2E-0954	9.5	25	75	10
V2E-1004	10	25	75	10
V2E-1104	11	30	75	12
V2E-1154	11.5	30	75	12
V2E-1204	12	30	75	12
V2E-1404	14	40	100	16
V2E-1604	16	40	100	16
V2E-1804	18	45	100	20
V2E-2004	20	45	100	20

unit: mm

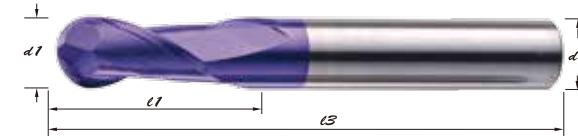


V2R-4T 奈米極細超微粒圓鼻刀4刃
Corner Radius End Mills-4 Flute

Grain Size: 0.2µm | Carbide: NaNo MG | Coating: TOP TiAlN | HRC: 70 | Helix Angle: 35° | Flutes: 4 | Flute Edge: Corner

Type No. 型號	Diameter 直徑d1	Corner R R角r	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
V2R-06034	6	0.3	15	50	6
V2R-06054	6	0.5	15	50	6
V2R-06104	6	1	15	50	6
V2R-08034	8	0.3	20	60	8
V2R-08054	8	0.5	20	60	8
V2R-08104	8	1	20	60	8
V2R-10054	10	0.5	25	75	10
V2R-10104	10	1	25	75	10
V2R-10154	10	1.5	25	75	10
V2R-10204	10	2	25	75	10
V2R-10304	10	3	25	75	10
V2R-12054	12	0.5	30	75	12
V2R-12104	12	1	30	75	12
V2R-12154	12	1.5	30	75	12
V2R-12204	12	2	30	75	12
V2R-12304	12	3	30	75	12
V2R-16104	16	1	40	100	16
V2R-16204	16	2	40	100	16
V2R-16304	16	3	40	100	16

unit: mm



V2B-2T-NB 奈米極細超微粒球刀2刃
Ball Nose End Mills-2 Flute

Grain Size: 0.2µm | Carbide: NaNo MG | Coating: Naco Blue | HRC: 70 | Helix Angle: 30° | Flutes: 2 | Flute Edge: Ball

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
V2B-0102-NB	R0.5	2	50	4
V2B-0152-NB	R0.75	3	50	4
V2B-0202-NB	R1	4	50	4
V2B-0252-NB	R1.25	5	50	4
V2B-0302-NB	R1.5	6	50	4
V2B-0352-NB	R1.75	7	50	4
V2B-0402-NB	R2	8	50	4
V2B-0452-NB	R2.25	9	50	6
V2B-0502-NB	R2.5	10	50	6
V2B-0552-NB	R2.75	11	50	6
V2B-0602-NB	R3	12	50	6
V2B-0702-NB	R3.5	14	60	8
V2B-0802-NB	R4	16	60	8
V2B-0902-NB	R4.5	18	75	10
V2B-1002-NB	R5	20	75	10
V2B-1102-NB	R5.5	22	75	12
V2B-1202-NB	R6	24	75	12
V2B-1402-NB	R7	28	100	16
V2B-1602-NB	R8	32	100	16
V2B-1802-NB	R9	36	100	20
V2B-2002-NB	R10	40	100	20

unit: mm

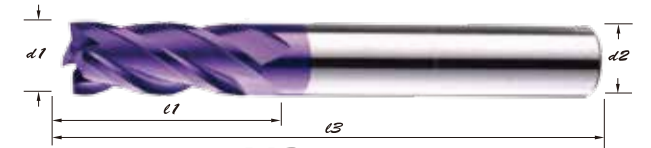


V2R-4T-NB 奈米極細超微粒圓鼻刀4刃
Corner Radius End Mills-4 Flute

Grain Size: 0.2µm | Carbide: NaNo MG | Coating: Naco Blue | HRC: 70 | Helix Angle: 35° | Flutes: 4 | Flute Edge: Corner

Type No. 型號	Diameter 直徑d1	Corner R R角r	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
V2R-06034-NB	6	0.3	15	50	6
V2R-06054-NB	6	0.5	15	50	6
V2R-06104-NB	6	1	15	50	6
V2R-08034-NB	8	0.3	20	60	8
V2R-08054-NB	8	0.5	20	60	8
V2R-08104-NB	8	1	20	60	8
V2R-10054-NB	10	0.5	25	75	10
V2R-10104-NB	10	1	25	75	10
V2R-10154-NB	10	1.5	25	75	10
V2R-10204-NB	10	2	25	75	10
V2R-10304-NB	10	3	25	75	10
V2R-12054-NB	12	0.5	30	75	12
V2R-12104-NB	12	1	30	75	12
V2R-12154-NB	12	1.5	30	75	12
V2R-12204-NB	12	2	30	75	12
V2R-12304-NB	12	3	30	75	12
V2R-16104-NB	16	1	40	100	16
V2R-16204-NB	16	2	40	100	16
V2R-16304-NB	16	3	40	100	16

unit: mm



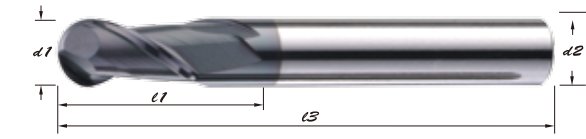
V2E-4T-NB 鈦合金極細超微粒平刀4刃
Square End Mills-4 Flute

Grain Size: 0.2µm | Carbide: NaNo MG | Coating: Naco Blue | HRC: 70 | Helix Angle: 35° | Flutes: 4 | Flute Edge: SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
V2E-0104-NB	1	3	50	4
V2E-0154-NB	1.5	4	50	4
V2E-0204-NB	2	6	50	4
V2E-0254-NB	2.5	8	50	4
V2E-0304-NB	3	8	50	4
V2E-0354-NB	3.5	10	50	4
V2E-0404-NB	4	11	50	4
V2E-0454-NB	4.5	13	50	6
V2E-0504-NB	5	13	50	6
V2E-0554-NB	5.5	13	50	6
V2E-0604-NB	6	16	50	6
V2E-0654-NB	6.5	16	60	8
V2E-0704-NB	7	16	60	8
V2E-0754-NB	7.5	16	60	8
V2E-0804-NB	8	20	60	8
V2E-0854-NB	8.5	20	75	10
V2E-0904-NB	9	20	75	10
V2E-0954-NB	9.5	25	75	10
V2E-1004-NB	10	25	75	10
V2E-1104-NB	11	30	75	12
V2E-1154-NB	11.5	30	75	12
V2E-1204-NB	12	30	75	12
V2E-1404-NB	14	40	100	16
V2E-1604-NB	16	40	100	16
V2E-1804-NB	18	45	100	20
V2E-2004-NB	20	45	100	20

unit: mm

G4極細超微粒

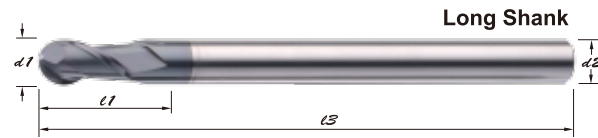


G4B-2T 極細超微粒球刀2刃
Ball Nose End Mills-2 Flute



Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
G4B-0102	R0.5	2	50	4
G4B-0152	R0.75	3	50	4
G4B-0202	R1	4	50	4
G4B-0252	R1.25	5	50	4
G4B-0302	R1.5	6	50	4
G4B-0352	R1.75	7	50	4
G4B-0402	R2	8	50	4
G4B-0452	R2.25	9	50	6
G4B-0502	R2.5	10	50	6
G4B-0552	R2.75	11	50	6
G4B-0602	R3	12	50	6
G4B-0702	R3.5	14	60	8
G4B-0802	R4	16	60	8
G4B-0902	R4.5	18	75	10
G4B-1002	R5	20	75	10
G4B-1202	R6	24	75	12
G4B-1402	R7	28	75	14
G4B-1602	R8	32	100	16

unit: mm



G4B75L-2T 極細超微粒長柄球刀2刃
Ball Nose End Mills-2 Flute



Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
G4B75L-0102	R0.5	2	75	6
G4B75L-0152	R0.75	3	75	6
G4B75L-0202	R1	4	75	6
G4B75L-0252	R1.25	5	75	6
G4B75L-0302	R1.5	6	75	6
G4B75L-0352	R1.75	7	75	6
G4B75L-0402	R2	8	75	6
G4B75L-0452	R2.25	9	75	6
G4B75L-0502	R2.5	10	75	6
G4B75L-0552	R2.75	11	75	6
G4B75L-0602	R3	12	75	6
G4B75L-0702	R3.5	14	75	6
G4B75L-0802	R4	16	75	8

unit: mm

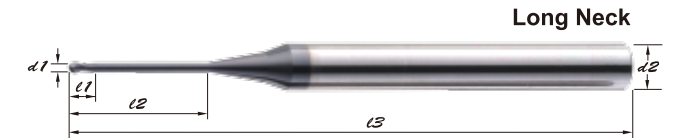


G4SB3D-2T 極細超微粒微小徑專用球刀2刃 3柄徑
Ball Nose End Mills-2 Flute



Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
G4SB3D-0022	R0.15	0.4	50	3
G4SB3D-0032	R0.15	0.6	50	3
G4SB3D-0042	R0.2	0.7	50	3
G4SB3D-0052	R0.25	0.8	50	3
G4SB3D-0062	R0.3	0.9	50	3
G4SB3D-0072	R0.35	1.4	50	3
G4SB3D-0082	R0.4	1.6	50	3
G4SB3D-0092	R0.45	1.8	50	3
G4SB3D-0112	R0.55	2.2	50	3
G4SB3D-0122	R0.6	2.4	50	3
G4SB3D-0132	R0.65	2.6	50	3
G4SB3D-0142	R0.7	2.8	50	3
G4SB3D-0162	R0.8	3.2	50	3
G4SB3D-0172	R0.85	3.4	50	3
G4SB3D-0182	R0.9	3.6	50	3
G4SB3D-0192	R0.95	3.8	50	3
G4SB3D-0212	R1.05	4.2	50	3
G4SB3D-0222	R1.1	4.4	50	3
G4SB3D-0232	R1.15	4.6	50	3
G4SB3D-0242	R1.2	4.8	50	3
G4SB3D-0262	R1.3	5.2	50	3
G4SB3D-0272	R1.35	5.4	50	3
G4SB3D-0282	R1.4	5.6	50	3
G4SB3D-0292	R1.45	5.8	50	3

unit: mm



G4JB-2T 極細超微粒深溝專用球刀2刃
Ball Nose End Mills-2 Flute



Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	Effective Length 有效長L2	O.A.L. 全長L3	Shank Dia 柄徑d2
G4JB-03012	R0.15	0.4	1	50	4
G4JB-03022	R0.15	0.4	2	50	4
G4JB-04022	R0.2	0.6	2	50	4
G4JB-04032	R0.2	0.6	3	50	4
G4JB-04042	R0.2	0.6	4	50	4
G4JB-05022	R0.25	0.7	2	50	4
G4JB-05042	R0.25	0.7	4	50	4
G4JB-05062	R0.25	0.7	6	50	4
G4JB-06022	R0.3	0.8	2	50	4
G4JB-06042	R0.3	0.8	4	50	4
G4JB-06062	R0.3	0.8	6	50	4
G4JB-08042	R0.4	1.2	4	50	4
G4JB-08062	R0.4	1.2	6	50	4
G4JB-08082	R0.4	1.2	8	50	4
G4JB-10042	R0.5	1.5	4	50	4
G4JB-10062	R0.5	1.5	6	50	4
G4JB-10082	R0.5	1.5	8	50	4
G4JB-10102	R0.5	1.5	10	50	4
G4JB-10122	R0.5	1.5	12	50	4
G4JB-12082	R0.6	1.8	8	50	4
G4JB-12102	R0.6	1.8	10	50	4
G4JB-12122	R0.6	1.8	12	50	4
G4JB-15062	R0.75	2	6	50	4
G4JB-15082	R0.75	2	8	50	4
G4JB-15102	R0.75	2	10	50	4
G4JB-15122	R0.75	2	12	50	4
G4JB-15162	R0.75	2	16	50	4
G4JB-15202	R0.75	2	20	50	4
G4JB-20062	R1.0	3	6	50	4
G4JB-20082	R1.0	3	8	50	4
G4JB-20102	R1.0	3	10	50	4
G4JB-20122	R1.0	3	12	50	4
G4JB-20162	R1.0	3	16	50	4
G4JB-20202	R1.0	3	20	50	4
G4JB-30082	R1.5	4	8	50	6

unit: mm



G4B100L-2T 極細超微粒長柄球刀2刃
Ball Nose End Mills-2 Flute



Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
G4B100L-0602	R3	12	100	6
G4B100L-0802	R4	16	100	8
G4B100L-1002	R5	20	100	10
G4B100L-1202	R6	24	100	12
G4B100L-1402	R7	28	100	14

unit: mm



G4SB-2T 極細超微粒微小徑專用球刀2刃
Ball Nose End Mills-2 Flute



Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
G4SB-0022	R0.1	0.4	50	4
G4SB-0032	R0.15	0.6	50	4
G4SB-0042	R0.2	0.8	50	4
G4SB-0052	R0.25	1	50	4
G4SB-0062	R0.3	1.2	50	4
G4SB-0072	R0.35	1.4	50	4
G4SB-0082	R0.4	1.6	50	4
G4SB-0092	R0.45	1.8	50	4
G4SB-0122	R0.6	2.4	50	4
G4SB-0142	R0.7	2.8	50	4
G4SB-0162	R0.8	3.2	50	4
G4SB-0182	R0.9	3.6	50	4
G4SB-0222	R1.1	4.4	50	4
G4SB-0242	R1.2	4.8	50	4
G4SB-0262	R1.3	5.2	50	4
G4SB-0282	R1.4	5.6	50	4

unit: mm



G4B150L-2T 極細超微粒長柄球刀2刃
Ball Nose End Mills-2 Flute



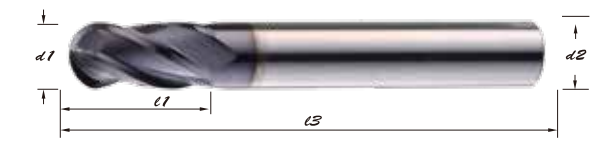
Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
G4B150L-0602	R3	12	150	6
G4B150L-0802	R4	16	150	8
G4B150L-1002	R5	20	150	10
G4B150L-1202	R6	24	150	12
G4B150L-1602	R8	32	150	16
G4B150L-2002	R10	40	150	20
G4B150L-2502	R12.5	45	150	25

unit: mm

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	Effective Length 有效長L2	O.A.L. 全長L3	Shank Dia 柄徑d2
G4JB-30102	R1.5	4	10	50	6
G4JB-30122	R1.5	4	12	50	6
G4JB-30162	R1.5	4	16	50	6
G4JB-30202	R1.5	4	20	60	6
G4JB-30252	R1.5	4	25	60	6
G4JB-40102	R2.0	5	10	60	6
G4JB-40122	R2.0	5	12	60	6
G4JB-40162	R2.0	5	16	60	6
G4JB-40202	R2.0	5	20	75	6
G4JB-40252	R2.0	5	25	75	6
G4JB-40302	R2.0	5	30	75	6

unit: mm

G4 極細超微粒

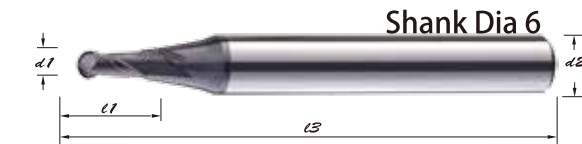


G4B-4T 極細超微粒球刀4刃
Ball Nose End Mills-4Flute

Grain Size: 0.4 μm, Carbide: Super MG, Coating: TiAlN, HRC: 65, Helix Angle: 30°, Flutes: 4, Flute Edge: Ball

Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 L1	O.A.L. 全長 L3	Shank Dia 柄徑 d2
G4B-0104	R0.5	2	50	4
G4B-0154	R0.75	3	50	4
G4B-0204	R1	4	50	4
G4B-0254	R1.25	5	50	4
G4B-0304	R1.5	6	50	4
G4B-0354	R1.75	7	50	4
G4B-0404	R2	8	50	4
G4B-0504	R2.5	10	50	6
G4B-0604	R3	12	50	6
G4B-0804	R4	16	60	8
G4B-1004	R5	20	75	10
G4B-1204	R6	24	75	12
G4B-1404	R7	28	100	16
G4B-1604	R8	32	100	16
G4B-1804	R9	36	100	20
G4B-2004	R10	40	100	20

unit: mm

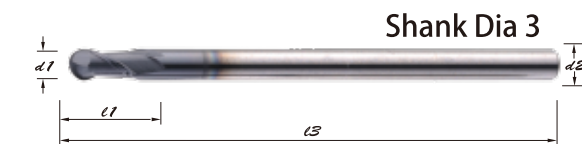


G4B6D-2T 極細超微粒球刀2刃 6柄徑
Ball Nose End Mills-2Flute

Grain Size: 0.4 μm, Carbide: Super MG, Coating: TiAlN, HRC: 65, Helix Angle: 30°, Flutes: 2, Flute Edge: Ball

Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 L1	O.A.L. 全長 L3	Shank Dia 柄徑 d2
G4B6D-0102	R0.5	2	50	6
G4B6D-0152	R0.75	3	50	6
G4B6D-0202	R1	4	50	6
G4B6D-0252	R1.25	5	50	6
G4B6D-0302	R1.5	6	50	6
G4B6D-0352	R1.75	7	50	6
G4B6D-0402	R2	8	50	6

unit: mm



G4B3D-2T 極細超微粒球刀2刃 3柄徑
Ball Nose End Mills-2Flute

Grain Size: 0.4 μm, Carbide: Super MG, Coating: TiAlN, HRC: 65, Helix Angle: 30°, Flutes: 2, Flute Edge: Ball

Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 L1	O.A.L. 全長 L3	Shank Dia 柄徑 d2
G4B3D-0102	R0.5	2	50	3
G4B3D-0152	R0.75	3	50	3
G4B3D-0202	R1.0	4	50	3
G4B3D-0252	R1.25	5	50	3
G4B3D-0302	R1.5	6	50	3

unit: mm

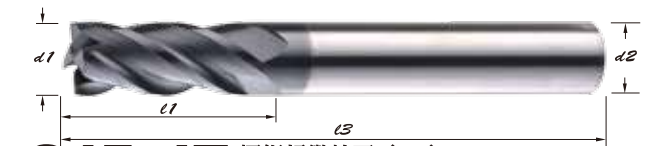


G4E-2T 極細超微粒平刀2刃
Square End Mills-2Flute

Grain Size: 0.4 μm, Carbide: Super MG, Coating: TiAlN, HRC: 65, Helix Angle: 35°, Flutes: 2, Flute Edge: SQUARE

Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 L1	O.A.L. 全長 L3	Shank Dia 柄徑 d2
G4E-0102	1	3	50	4
G4E-0152	1.5	4	50	4
G4E-0202	2	6	50	4
G4E-0252	2.5	8	50	4
G4E-0302	3	8	50	4
G4E-0352	3.5	10	50	4
G4E-0402	4	11	50	4
G4E-0452	4.5	13	50	6
G4E-0502	5	13	50	6
G4E-0552	5.5	13	50	6
G4E-0602	6	15	50	6
G4E-0652	6.5	15	60	8
G4E-0702	7	20	60	8
G4E-0802	8	20	60	8
G4E-0852	8.5	25	75	10
G4E-0902	9	25	75	10
G4E-0952	9.5	25	75	10
G4E-1002	10	25	75	10
G4E-1102	11	30	75	12
G4E-1202	12	30	75	12
G4E-1302	13	33	75	14
G4E-1402	14	35	75	14
G4E-1602	16	46	100	16
G4E-2002	20	46	100	20
G4E-2502	25	50	100	25

unit: mm



G4E-4T 極細超微粒平刀4刃
Square End Mills-4Flute

Grain Size: 0.4 μm, Carbide: Super MG, Coating: TiAlN, HRC: 65, Helix Angle: 35°, Flutes: 4, Flute Edge: SQUARE

Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 L1	O.A.L. 全長 L3	Shank Dia 柄徑 d2
G4E-0104	1	3	50	4
G4E-0154	1.5	4	50	4
G4E-0204	2	6	50	4
G4E-0254	2.5	8	50	4
G4E-0304	3	8	50	4
G4E-0354	3.5	10	50	4
G4E-0404	4	11	50	4
G4E-0454	4.5	13	50	6
G4E-0504	5	13	50	6
G4E-0554	5.5	13	50	6
G4E-0604	6	15	50	6
G4E-0654	6.5	15	60	8
G4E-0704	7	20	60	8
G4E-0804	8	20	60	8
G4E-0854	8.5	25	75	10
G4E-0904	9	25	75	10
G4E-0954	9.5	25	75	10
G4E-1004	10	25	75	10
G4E-1104	11	30	75	12
G4E-1204	12	30	75	12
G4E-1304	13	33	75	14
G4E-1404	14	35	75	14
G4E-1604	16	46	100	16
G4E-2004	20	46	100	20
G4E-2504	25	50	100	25

unit: mm

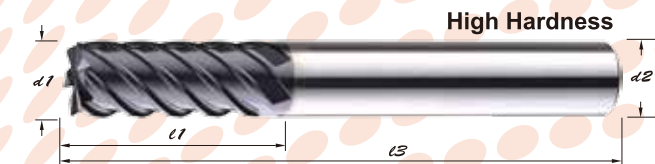


G4E45-4T 極細超微粒平刀4刃-45度螺旋角
Square End Mills-4Flute

Grain Size: 0.4 μm, Carbide: Super MG, Coating: TiAlN, HRC: 65, Helix Angle: 45°, Flutes: 4, Flute Edge: SQUARE

Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 L1	O.A.L. 全長 L3	Shank Dia 柄徑 d2
G4E45-0104	1	3	50	4
G4E45-0204	2	6	50	4
G4E45-0304	3	8	50	6
G4E45-0404	4	11	50	6
G4E45-0504	5	13	50	6
G4E45-0604	6	15	50	6
G4E45-0804	8	20	60	8
G4E45-1004	10	25	75	10
G4E45-1204	12	32	75	12
G4E45-1604	16	40	100	16
G4E45-2004	20	45	100	20
G4E45-2504	25	45	100	25

unit: mm



G4E45-6T 極細超微粒平刀6刃-45度螺旋角
Square End Mills-6Flute

Grain Size: 0.4 μm, Carbide: Super MG, Coating: TiAlN, HRC: 65, Helix Angle: 45°, Flutes: 6, Flute Edge: SQUARE

Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 L1	O.A.L. 全長 L3	Shank Dia 柄徑 d2
G4E45-0206	2	4	50	4
G4E45-0306	3	6	50	6
G4E45-0406	4	8	50	6
G4E45-0506	5	13	50	6
G4E45-0606	6	15	50	6
G4E45-0806	8	20	60	8
G4E45-1006	10	30	75	10
G4E45-1206	12	32	75	12
G4E45-1606	16	40	100	16
G4E45-2006	20	45	100	20
G4E45-2506	25	45	100	25

unit: mm

G4 極細超微粒

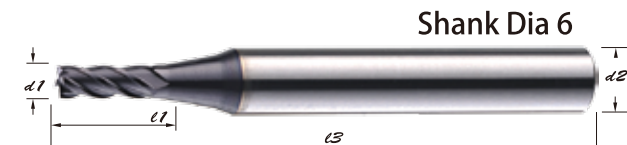


G4E6D-2T 極細超微粒平刀2刃6柄徑
Square End Mills-2 Flute

Grain Size: 0.4 μm, Carbide: Super MG, Coating: TiAlN, HRC: 65, Helix Angle: 35°, Flutes: 2, Flute Edge: 90° SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
G4E6D-0102	1	3	50	6
G4E6D-0152	1.5	4	50	6
G4E6D-0202	2	6	50	6
G4E6D-0252	2.5	8	50	6
G4E6D-0302	3	8	50	6
G4E6D-0352	3.5	10	50	6
G4E6D-0402	4	11	50	6

unit: mm



G4E6D-4T 極細超微粒平刀4刃6柄徑
Square End Mills-4 Flute

Grain Size: 0.4 μm, Carbide: Super MG, Coating: TiAlN, HRC: 65, Helix Angle: 35°, Flutes: 4, Flute Edge: 90° SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
G4E6D-0104	1	3	50	6
G4E6D-0154	1.5	4	50	6
G4E6D-0204	2	6	50	6
G4E6D-0254	2.5	8	50	6
G4E6D-0304	3	8	50	6
G4E6D-0354	3.5	10	50	6
G4E6D-0404	4	11	50	6

unit: mm

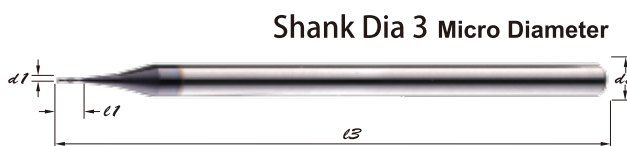


G4SE-2T 極細超微粒微小徑平刀2刃
Square End Mills-2 Flute

Grain Size: 0.4 μm, Carbide: Super MG, Coating: TiAlN, HRC: 65, Helix Angle: 35°, Flutes: 2, Flute Edge: 90° SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
G4SE-0022	0.2	0.4	50	4
G4SE-0032	0.3	0.6	50	4
G4SE-0042	0.4	0.8	50	4
G4SE-0052	0.5	1	50	4
G4SE-0062	0.6	1.2	50	4
G4SE-0072	0.7	1.4	50	4
G4SE-0082	0.8	1.6	50	4
G4SE-0092	0.9	1.8	50	4
G4SE-0112	1.1	3	50	4
G4SE-0122	1.2	3	50	4
G4SE-0132	1.3	3	50	4
G4SE-0142	1.4	3	50	4
G4SE-0162	1.6	4	50	4
G4SE-0172	1.7	4	50	4
G4SE-0182	1.8	4	50	4
G4SE-0192	1.9	4	50	4
G4SE-0212	2.1	6	50	4
G4SE-0222	2.2	6	50	4
G4SE-0232	2.3	6	50	4
G4SE-0242	2.4	6	50	4
G4SE-0262	2.6	8	50	4
G4SE-0272	2.7	8	50	4
G4SE-0282	2.8	8	50	4
G4SE-0292	2.9	8	50	4

unit: mm



G4SE3D-2T 極細超微粒微小徑平刀2刃3柄徑
Square End Mills 2 Flute

Grain Size: 0.4 μm, Carbide: Super MG, Coating: TiAlN, HRC: 65, Helix Angle: 35°, Flutes: 2, Flute Edge: 90° SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
G4SE3D-0022	0.2	0.4	50	3
G4SE3D-0032	0.3	0.6	50	3
G4SE3D-0042	0.4	0.7	50	3
G4SE3D-0052	0.5	0.8	50	3
G4SE3D-0062	0.6	0.9	50	3
G4SE3D-0072	0.7	1.4	50	3
G4SE3D-0082	0.8	1.6	50	3
G4SE3D-0092	0.9	1.8	50	3
G4SE3D-0112	1.1	3	50	3
G4SE3D-0122	1.2	3	50	3
G4SE3D-0132	1.3	3	50	3
G4SE3D-0142	1.4	3	50	3
G4SE3D-0162	1.6	4	50	3
G4SE3D-0172	1.7	4	50	3
G4SE3D-0182	1.8	4	50	3
G4SE3D-0192	1.9	4	50	3
G4SE3D-0212	2.1	6	50	3
G4SE3D-0222	2.2	6	50	3
G4SE3D-0232	2.3	6	50	3
G4SE3D-0242	2.4	6	50	3
G4SE3D-0262	2.6	8	50	3
G4SE3D-0272	2.7	8	50	3
G4SE3D-0282	2.8	8	50	3
G4SE3D-0292	2.9	8	50	3

unit: mm



G4E3D-2T 極細超微粒平刀2刃3柄徑
Square End Mills-2 Flute

Grain Size: 0.4 μm, Carbide: Super MG, Coating: TiAlN, HRC: 65, Helix Angle: 35°, Flutes: 2, Flute Edge: 90° SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
G4E3D-0102	1	2.5	50	3
G4E3D-0152	1.5	4	50	3
G4E3D-0202	2	6	50	3
G4E3D-0252	2.5	8	50	3
G4E3D-0302	3	8	50	3

unit: mm



G4E3D-4T 極細超微粒平刀4刃3柄徑
Square End Mills-4 Flute

Grain Size: 0.4 μm, Carbide: Super MG, Coating: TiAlN, HRC: 65, Helix Angle: 35°, Flutes: 4, Flute Edge: 90° SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
G4E3D-0104	1	2.5	50	3
G4E3D-0154	1.5	4	50	3
G4E3D-0204	2	6	50	3
G4E3D-0254	2.5	8	50	3
G4E3D-0304	3	8	50	3

unit: mm

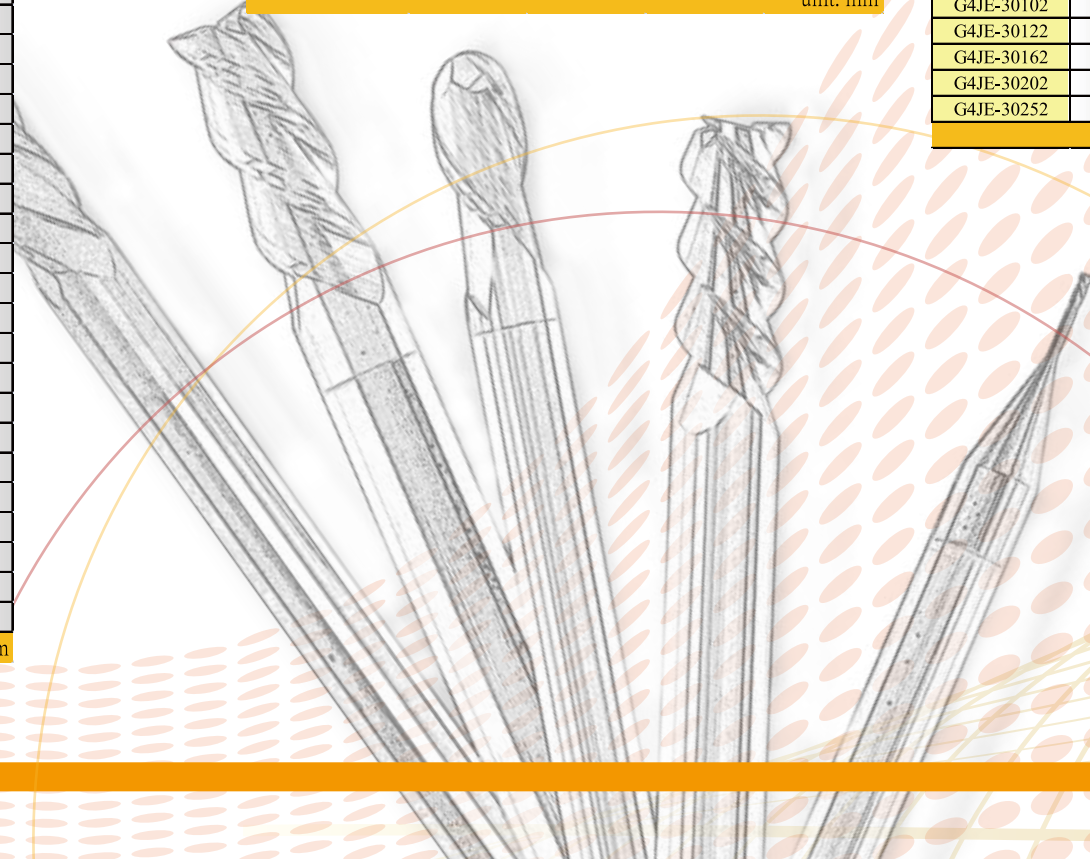


G4JE-2T 極細超微粒深溝專用平刀2刃
Square End Mills-2 Flute

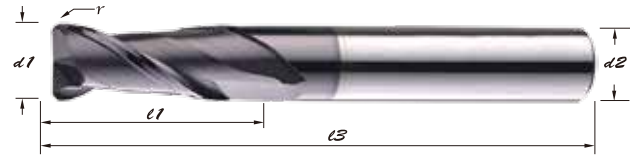
Grain Size: 0.4 μm, Carbide: Super MG, Coating: TiAlN, HRC: 65, Helix Angle: 35°, Flutes: 2, Flute Edge: 90° Long Neck, Flute Edge: Clearance

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	Effective Length 有效長L2	O.A.L. 全長L3	Shank Dia 柄徑d2
G4JE-04022	0.4	0.7	2	50	4
G4JE-04042	0.4	0.7	4	50	4
G4JE-05022	0.5	0.8	2	50	4
G4JE-05042	0.5	0.8	4	50	4
G4JE-05062	0.5	0.8	6	50	4
G4JE-08042	0.8	1.2	4	50	4
G4JE-08062	0.8	1.2	6	50	4
G4JE-08082	0.8	1.2	8	50	4
G4JE-10042	1.0	1.5	4	50	4
G4JE-10062	1.0	1.5	6	50	4
G4JE-10082	1.0	1.5	8	50	4
G4JE-10102	1.0	1.5	10	50	4
G4JE-10122	1.0	1.5	12	50	4
G4JE-15062	1.5	2.3	6	50	4
G4JE-15082	1.5	2.3	8	50	4
G4JE-15102	1.5	2.3	10	50	4
G4JE-15122	1.5	2.3	12	50	4
G4JE-15162	1.5	2.3	16	50	4
G4JE-20082	2.0	3	8	50	4
G4JE-20102	2.0	3	10	50	4
G4JE-20122	2.0	3	12	50	4
G4JE-20162	2.0	3	16	50	4
G4JE-20202	2.0	3	20	50	4
G4JE-25102	2.5	3.5	10	50	4
G4JE-25122	2.5	3.5	12	50	4
G4JE-25162	2.5	3.5	16	50	4
G4JE-25202	2.5	3.5	20	50	4
G4JE-30102	3.0	4	10	50	6
G4JE-30122	3.0	4	12	50	6
G4JE-30162	3.0	4	16	50	6
G4JE-30202	3.0	4	20	60	6
G4JE-30252	3.0	4	25	60	6

unit: mm



G4 極細超微粒



G4R-2T 極細超微粒圓鼻刀2刃
Corner Radius End Mills-2Flute

Grain Size: 0.4 μm, Carbide: Super MG, Coating: TiAlN, HRC: 65, Helix Angle: 35°, Flute: 2, Flute Edge: Corner

Type No. 型號	Diameter 直徑d1	Corner R R角r	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
G4R-03032	3	0.3	8	50	4
G4R-03052	3	0.5	8	50	4
G4R-03102	3	1	8	50	4
G4R-04022	4	0.2	10	50	4
G4R-04032	4	0.3	10	50	4
G4R-04052	4	0.5	10	50	4
G4R-04102	4	1	10	50	4
G4R-05032	5	0.3	13	50	6
G4R-05052	5	0.5	13	50	6
G4R-05102	5	1	13	50	6
G4R-06022	6	0.2	15	50	6
G4R-06032	6	0.3	15	50	6
G4R-06052	6	0.5	15	50	6
G4R-06102	6	1	15	50	6
G4R-06202	6	2	15	50	6
G4R-08032	8	0.3	20	60	8
G4R-08052	8	0.5	20	60	8
G4R-08102	8	1	20	60	8
G4R-08202	8	2	20	60	8
G4R-10052	10	0.5	25	75	10
G4R-10102	10	1	25	75	10
G4R-10152	10	1.5	25	75	10
G4R-10202	10	2	25	75	10
G4R-10302	10	3	25	75	10
G4R-12052	12	0.5	30	75	12
G4R-12102	12	1	30	75	12
G4R-12152	12	1.5	30	75	12
G4R-12202	12	2	30	75	12
G4R-12302	12	3	30	75	12

unit: mm



G4R-4T 極細超微粒圓鼻刀4刃
Corner Radius End Mills-4 Flute

Grain Size: 0.4 μm, Carbide: Super MG, Coating: TiAlN, HRC: 65, Helix Angle: 35°, Flutes: 4, Flute Edge: Corner

Type No. 型號	Diameter 直徑d1	Corner R角r	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
G4R-03034	3	0.3	8	50	4
G4R-03054	3	0.5	8	50	4
G4R-03104	3	1	8	50	4
G4R-04024	4	0.2	10	50	4
G4R-04034	4	0.3	10	50	4
G4R-04054	4	0.5	10	50	4
G4R-04104	4	1	10	50	4
G4R-05034	5	0.3	13	50	6
G4R-05054	5	0.5	13	50	6
G4R-05104	5	1	13	50	6
G4R-06024	6	0.2	15	50	6
G4R-06034	6	0.3	15	50	6
G4R-06054	6	0.5	15	50	6
G4R-06104	6	1	15	50	6
G4R-06204	6	2	15	50	6
G4R-08034	8	0.3	20	60	8
G4R-08054	8	0.5	20	60	8
G4R-08104	8	1	20	60	8
G4R-08204	8	2	20	60	8
G4R-10054	10	0.5	25	75	10
G4R-10104	10	1	25	75	10
G4R-10154	10	1.5	25	75	10
G4R-10204	10	2	25	75	10
G4R-10304	10	3	25	75	10
G4R-12054	12	0.5	30	75	12
G4R-12104	12	1	30	75	12
G4R-12154	12	1.5	30	75	12
G4R-12204	12	2	30	75	12
G4R-12304	12	3	30	75	12

unit: mm



G4ZE-4T 極細超微粒平刀4刃 重切削
Square End Mills-4 Flute

Grain Size: 0.4 μm, Carbide: Super MG, Coating: TiAlN, HRC: 65, Helix Angle: 45°, Flutes: 4, Flute Edge: SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
G4ZE-0104	1	3	50	4
G4ZE-0154	1.5	4	50	4
G4ZE-0204	2	6	50	4
G4ZE-0254	2.5	8	50	4
G4ZE-0304	3	8	50	4
G4ZE-0354	3.5	10	50	4
G4ZE-0404	4	11	50	4
G4ZE-0454	4.5	13	50	6
G4ZE-0504	5	13	50	6
G4ZE-0554	5.5	13	50	6
G4ZE-0604	6	16	50	6
G4ZE-0654	6.5	16	60	8
G4ZE-0704	7	16	60	8
G4ZE-0754	7.5	16	60	8
G4ZE-0804	8	20	60	8
G4ZE-0854	8.5	20	75	10
G4ZE-0904	9	20	75	10
G4ZE-0954	9.5	25	75	10
G4ZE-1004	10	25	75	10
G4ZE-1104	11	30	75	12
G4ZE-1154	11.5	30	75	12
G4ZE-1204	12	30	75	12
G4ZE-1404	14	40	100	16
G4ZE-1604	16	40	100	16
G4ZE-1804	18	45	100	20
G4ZE-2004	20	45	100	20

unit: mm

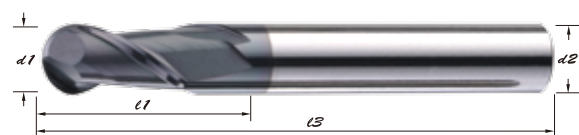


G4QE38-4T 極細超微粒平刀4刃 不等分割
Square End Mills-4 Flute

Grain Size: 0.4 μm, Carbide: Super MG, Coating: TiAlN, HRC: 65, Helix Angle: 35/38°, Flutes: 4, Flute Edge: SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
G4QE38-0304	3	6	50	4
G4QE38-0404	4	8	50	4
G4QE38-0504	5	10	50	6
G4QE38-0604	6	12	50	6
G4QE38-0804	8	16	60	8
G4QE38-1004	10	20	75	10
G4QE38-1204	12	24	75	12
G4QE38-1604	16	32	100	16
G4QE38-2004	20	40	100	20

unit: mm



P6B-2T 極超微粒球刀2刃
Ball Nose End Mills-2 Flute

Type No. 型號	Diameter 直徑φ1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia. 柄徑φ2
P6B-0102	R0.5	2	50	4
P6B-0152	R0.75	3	50	4
P6B-0202	R1	4	50	4
P6B-0252	R1.25	5	50	4
P6B-0302	R1.5	6	50	4
P6B-0352	R1.75	7	50	4
P6B-0402	R2	8	50	4
P6B-0452	R2.25	9	50	6
P6B-0502	R2.5	10	50	6
P6B-0552	R2.75	11	50	6
P6B-0602	R3	12	50	6
P6B-0702	R3.5	14	60	8
P6B-0802	R4	16	60	8
P6B-0902	R4.5	18	75	10
P6B-1002	R5	20	75	10
P6B-1102	R5.5	22	75	12
P6B-1202	R6	24	75	12
P6B-1402	R7	28	100	16
P6B-1602	R8	32	100	16
P6B-1802	R9	36	100	20
P6B-2002	R10	40	100	20



P6B75L-2T 極超微粒長柄球刀2刃
Ball Nose End Mills-2 Flute

Type No. 型號	Diameter 直徑φ1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia. 柄徑φ2
P6B75L-0202	R1	4	75	6
P6B75L-0252	R1.25	5	75	6
P6B75L-0302	R1.5	6	75	6
P6B75L-0402	R2	8	75	6
P6B75L-0502	R2.5	10	75	6
P6B75L-0602	R3	12	75	6
P6B75L-0802	R4	16	75	8



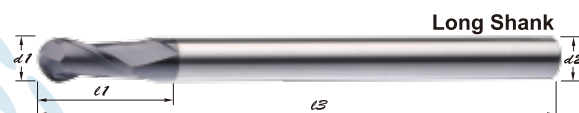
P6B-4T 極超微粒球刀4刃
Ball Nose End Mills-4 Flute

Type No. 型號	Diameter 直徑φ1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia. 柄徑φ2
P6B-0104	R0.5	2	50	4
P6B-0154	R0.75	3	50	4
P6B-0204	R1	4	50	4
P6B-0304	R1.5	6	50	4
P6B-0404	R2	8	50	4
P6B-0454	R2.25	9	50	6
P6B-0504	R2.5	10	50	6
P6B-0554	R2.75	11	50	6
P6B-0604	R3	12	50	6
P6B-0704	R3.5	14	60	8
P6B-0804	R4	16	60	8
P6B-0904	R4.5	18	75	10
P6B-1004	R5	20	75	10
P6B-1104	R5.5	22	75	12
P6B-1204	R6	24	75	12
P6B-1404	R7	28	100	16
P6B-1604	R8	32	100	16
P6B-1804	R9	36	100	20
P6B-2004	R10	40	100	20



P6JB-2T 極超微粒深溝專用球刀2刃
Ball Nose End Mills-2 Flute

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	Effective Length 有效長L2	O.A.L. 全長L3	Shank Dia. 柄徑d2
P6JB-03012	R0.15	0.4	1	50	4
P6JB-03022	R0.15	0.4	2	50	4
P6JB-04022	R0.2	0.6	2	50	4
P6JB-04032	R0.2	0.6	3	50	4
P6JB-04042	R0.2	0.6	4	50	4
P6JB-05022	R0.25	0.7	2	50	4
P6JB-05042	R0.25	0.7	4	50	4
P6JB-05062	R0.25	0.7	6	50	4
P6JB-06022	R0.3	0.8	2	50	4
P6JB-06042	R0.3	0.8	4	50	4
P6JB-06062	R0.3	0.8	6	50	4
P6JB-08042	R0.4	1.2	4	50	4
P6JB-08062	R0.4	1.2	6	50	4
P6JB-08082	R0.4	1.2	8	50	4
P6JB-10042	R0.5	1.5	4	50	4
P6JB-10062	R0.5	1.5	6	50	4
P6JB-10082	R0.5	1.5	8	50	4
P6JB-10102	R0.5	1.5	10	50	4
P6JB-10122	R0.5	1.5	12	50	4
P6JB-12082	R0.6	1.8	8	50	4
P6JB-12102	R0.6	1.8	10	50	4
P6JB-12122	R0.6	1.8	12	50	4
P6JB-15062	R0.75	2	6	50	4
P6JB-15082	R0.75	2	8	50	4
P6JB-15102	R0.75	2	10	50	4
P6JB-15122	R0.75	2	12	50	4
P6JB-15162	R0.75	2	16	50	4
P6JB-15202	R0.75	2	20	50	4
P6JB-20062	R1.0	3	6	50	4
P6JB-20082	R1.0	3	8	50	4
P6JB-20102	R1.0	3	10	50	4
P6JB-20122	R1.0	3	12	50	4
P6JB-20162	R1.0	3	16	50	4
P6JB-20202	R1.0	3	20	50	4
P6JB-30082	R1.5	4	8	50	6



P6B100L-2T 極超微粒長柄球刀2刃
Ball Nose End Mills-2 Flute

Type No. 型號	Diameter 直徑φ1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia. 柄徑φ2
P6B100L-0202	R1	4	100	6
P6B100L-0302	R1.5	6	100	6
P6B100L-0402	R2	8	100	6
P6B100L-0602	R3	12	100	6
P6B100L-0802	R4	16	100	8
P6B100L-1002	R5	20	100	10
P6B100L-1202	R6	24	100	12



P6B150L-2T 極超微粒長柄球刀2刃
Ball Nose End Mills-2 Flute

Type No. 型號	Diameter 直徑φ1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia. 柄徑φ2
P6B150L-0602	R3	12	150	6
P6B150L-0802	R4	16	150	8
P6B150L-1002	R5	20	150	10
P6B150L-1202	R6	24	150	12
P6B150L-1602	R8	32	150	16



P6SB-2T 極超微粒小徑專用球刀2刃
Ball Nose End Mills-2 Flute

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia. 柄徑d2
P6SB-0022	R0.1	0.4	50	4
P6SB-0032	R0.15	0.6	50	4
P6SB-0042	R0.2	0.8	50	4
P6SB-0052	R0.25	1	50	4
P6SB-0062	R0.3	1.2	50	4
P6SB-0072	R0.35	1.4	50	4
P6SB-0082	R0.4	1.6	50	4
P6SB-0092	R0.45	1.8	50	4
P6SB-0122	R0.6	2.4	50	4
P6SB-0142	R0.7	2.8	50	4
P6SB-0162	R0.8	3.2	50	4
P6SB-0182	R0.9	3.6	50	4
P6SB-0222	R1.1	4.4	50	4
P6SB-0242	R1.2	4.8	50	4
P6SB-0262	R1.3	5.2	50	4
P6SB-0282	R1.4	5.6	50	4



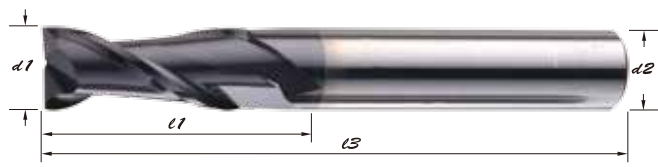
P6B3D-2T 極超微粒3柄球刀2刃
Ball Nose End Mills-2 Flute

Type No. 型號	Diameter 直徑φ1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia. 柄徑φ2
P6B3D-0102	R0.5	2	50	3
P6B3D-0152	R0.75	3	50	3
P6B3D-0202	R1	4	50	3
P6B3D-0252	R1.25	5	50	3
P6B3D-0302	R1.5	6	50	3



P6B6D-2T 極超微粒6柄球刀2刃
Ball Nose End Mills-2 Flute

Type No. 型號	Diameter 直徑φ1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia. 柄徑φ2
P6B6D-0102	R0.5	2	50	6
P6B6D-0152	R0.75	3	50	6
P6B6D-0202	R1	4	50	6
P6B6D-0252	R1.25	5	50	6
P6B6D-0302	R1.5	6	50	6
P6B6D-0352	R1.75	7	50	6
P6B6D-0402	R2	8	50	6

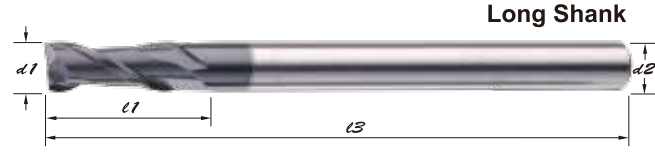


P6E-2T 極超微粒平刀2刃
Square End Mills-2 Flute



Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 l1	O.A.L. 全長 l2	Shank Dia 柄徑 d2
P6E-0102	1	3	50	4
P6E-0152	1.5	4	50	4
P6E-0202	2	6	50	4
P6E-0252	2.5	8	50	4
P6E-0302	3	8	50	4
P6E-0352	3.5	10	50	4
P6E-0402	4	11	50	4
P6E-0452	4.5	13	50	6
P6E-0502	5	13	50	6
P6E-0552	5.5	13	50	6
P6E-0602	6	15	50	6
P6E-0652	6.5	20	60	8
P6E-0702	7	20	60	8
P6E-0802	8	20	60	8
P6E-0852	8.5	25	75	10
P6E-0902	9	25	75	10
P6E-0952	9.5	25	75	10
P6E-1002	10	30	75	10
P6E-1052	10.5	30	75	12
P6E-1102	11	30	75	12
P6E-1152	11.5	30	75	12
P6E-1202	12	30	75	12
P6E-1402	14	40	100	16
P6E-1602	16	40	100	16
P6E-1802	18	45	100	18
P6E-2002	20	45	100	20

unit: mm

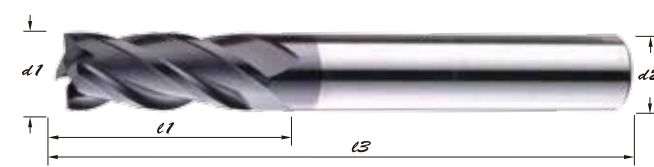


P6E75L-2T 極超微粒長柄平刀2刃
Square End Mills-2 Flute



Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 l1	O.A.L. 全長 l2	Shank Dia 柄徑 d2
P6E75L-0302	3	8	75	3
P6E75L-0402	4	11	75	4
P6E75L-0502	5	13	75	6
P6E75L-0602	6	16	75	6
P6E75L-0802	8	20	75	8

unit: mm



P6E-4T 極超微粒平刀4刃
Square End Mills-4 Flute



Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 l1	O.A.L. 全長 l2	Shank Dia 柄徑 d2
P6E-0104	1	3	50	4
P6E-0154	1.5	4	50	4
P6E-0204	2	6	50	4
P6E-0254	2.5	8	50	4
P6E-0304	3	8	50	4
P6E-0354	3.5	10	50	4
P6E-0404	4	11	50	4
P6E-0454	4.5	13	50	6
P6E-0504	5	13	50	6
P6E-0554	5.5	13	50	6
P6E-0604	6	15	50	6
P6E-0654	6.5	20	60	8
P6E-0704	7	20	60	8
P6E-0804	8	20	60	8
P6E-0854	8.5	25	75	10
P6E-0904	9	25	75	10
P6E-0954	9.5	25	75	10
P6E-1004	10	30	75	10
P6E-1054	10.5	30	75	12
P6E-1104	11	30	75	12
P6E-1154	11.5	30	75	12
P6E-1204	12	30	75	12
P6E-1404	14	40	100	16
P6E-1604	16	40	100	16
P6E-1804	18	45	100	18
P6E-2004	20	45	100	20

unit: mm



P6E75L-4T 極超微粒長柄平刀4刃
Square End Mills-4 Flute



Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 l1	O.A.L. 全長 l2	Shank Dia 柄徑 d2
P6E75L-0304	3	8	75	3
P6E75L-0404	4	11	75	4
P6E75L-0504	5	13	75	6
P6E75L-0604	6	16	75	6
P6E75L-0804	8	20	75	8

unit: mm

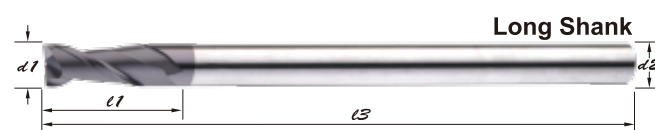


P6E100L-2T 極超微粒長柄平刀2刃
Square End Mills-2 Flute



Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 l1	O.A.L. 全長 l2	Shank Dia 柄徑 d2
P6E100L-0402	4	11	100	6
P6E100L-0502	5	13	100	6
P6E100L-0602	6	16	100	6
P6E100L-0802	8	20	100	8
P6E100L-1002	10	25	100	10
P6E100L-1202	12	30	100	12

unit: mm



P6E150L-2T 極超微粒長柄平刀2刃
Square End Mills-2 Flute



Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 l1	O.A.L. 全長 l2	Shank Dia 柄徑 d2
P6E150L-0602	6	16	150	6
P6E150L-0802	8	20	150	8
P6E150L-1002	10	25	150	10
P6E150L-1202	12	30	150	12
P6E150L-1602	16	40	150	16

unit: mm

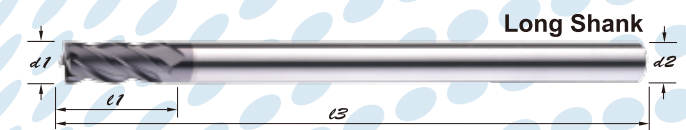


P6E100L-4T 極超微粒長柄平刀4刃
Square End Mills-4 Flute



Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 l1	O.A.L. 全長 l2	Shank Dia 柄徑 d2
P6E100L-0404	4	11	100	6
P6E100L-0504	5	13	100	6
P6E100L-0604	6	16	100	6
P6E100L-0804	8	20	100	8
P6E100L-1004	10	25	100	10
P6E100L-1204	12	30	100	12

unit: mm

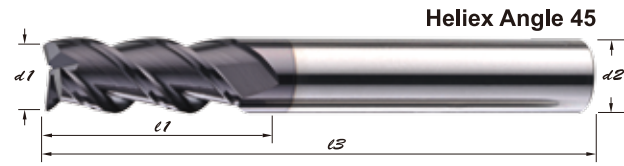


P6E150L-4T 極超微粒長柄平刀4刃
Square End Mills-4 Flute



Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 l1	O.A.L. 全長 l2	Shank Dia 柄徑 d2
P6E150L-0604	6	16	150	6
P6E150L-0804	8	20	150	8
P6E150L-1004	10	25	150	10
P6E150L-1204	12	30	150	12
P6E150L-1604	16	40	150	16

unit: mm



P6E45-3T 極超微粒平刀3刃-45度螺旋角
Square End Mills-3 Flute

Grain Size: 0.6µm, Carbide: MG, Coating: NaNo TiAlN, HRC: 60, Helix Angle: 45°, Flutes: 3, Flute Edge: 90° SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長l1	O.A.L. 全長l3	Shank Dia 柄徑d2
P6E45-0103	1	3	50	4
P6E45-0153	1.5	4	50	4
P6E45-0203	2	6	50	4
P6E45-0253	2.5	8	50	4
P6E45-0303	3	8	50	4
P6E45-0353	3.5	10	50	4
P6E45-0403	4	11	50	4
P6E45-0453	4.5	13	50	6
P6E45-0503	5	13	50	6
P6E45-0553	5.5	13	50	6
P6E45-0603	6	16	50	6
P6E45-0653	6.5	16	60	8
P6E45-0703	7	16	60	8
P6E45-0753	7.5	19	60	8
P6E45-0803	8	20	60	8
P6E45-0853	8.5	20	75	10
P6E45-0903	9	20	75	10
P6E45-0953	9.5	25	75	10
P6E45-1003	10	30	75	10
P6E45-1053	10.5	30	75	12
P6E45-1103	11	30	75	12
P6E45-1153	11.5	30	75	12
P6E45-1203	12	32	75	12
P6E45-1403	14	40	100	16
P6E45-1603	16	40	100	16
P6E45-1803	18	45	100	20
P6E45-2003	20	45	100	20



P6E45-4T 極超微粒平刀4刃-45度螺旋角
Square End Mills-4 Flute

Grain Size: 0.6µm, Carbide: MG, Coating: NaNo TiAlN, HRC: 60, Helix Angle: 45°, Flutes: 4, Flute Edge: 90° SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長l1	O.A.L. 全長l3	Shank Dia 柄徑d2
P6E45-0104	1	3	50	4
P6E45-0154	1.5	4	50	4
P6E45-0204	2	6	50	4
P6E45-0254	2.5	8	50	4
P6E45-0304	3	8	50	4
P6E45-0354	3.5	10	50	4
P6E45-0404	4	11	50	4
P6E45-0454	4.5	13	50	6
P6E45-0504	5	13	50	6
P6E45-0604	6	16	50	6
P6E45-0804	8	20	60	8
P6E45-1004	10	30	75	10
P6E45-1204	12	30	75	12
P6E45-1604	16	40	100	16
P6E45-2004	20	45	100	20



P6E45-6T 極超微粒平刀6刃-45度螺旋角
Square End Mills-6 Flute

Grain Size: 0.6µm, Carbide: MG, Coating: NaNo TiAlN, HRC: 60, Helix Angle: 45°, Flutes: 6, Flute Edge: 90° SQUARE

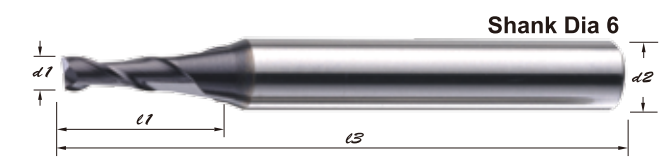
Type No. 型號	Diameter 直徑d1	Flute Length 刃長l1	O.A.L. 全長l3	Shank Dia 柄徑d2
P6E45-0206	2	4	50	4
P6E45-0306	3	6	50	4
P6E45-0406	4	8	50	4
P6E45-0506	5	13	50	6
P6E45-0606	6	16	50	6
P6E45-0806	8	20	60	8
P6E45-1006	10	30	75	10
P6E45-1206	12	30	75	12
P6E45-1606	16	40	100	16
P6E45-2006	20	45	100	20
P6E45-2506	25	45	100	25



P6E3D-2T 極超微粒3柄平刀2刃
Square End Mills-2 Flute

Grain Size: 0.6µm, Carbide: MG, Coating: NaNo TiAlN, HRC: 60, Helix Angle: 35°, Flutes: 2, Flute Edge: 90° SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長l1	O.A.L. 全長l3	Shank Dia 柄徑d2
P6E3D-0102	1	2.5	50	3
P6E3D-0152	1.5	4	50	3
P6E3D-0202	2	6	50	3
P6E3D-0252	2.5	8	50	3
P6E3D-0302	3	8	50	3



P6E6D-2T 極超微粒6柄平刀2刃
Square End Mills-2 Flute

Grain Size: 0.6µm, Carbide: MG, Coating: NaNo TiAlN, HRC: 60, Helix Angle: 35°, Flutes: 2, Flute Edge: 90° SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長l1	O.A.L. 全長l3	Shank Dia 柄徑d2
P6E6D-0102	1	3	50	6
P6E6D-0152	1.5	4	50	6
P6E6D-0202	2	6	50	6
P6E6D-0252	2.5	8	50	6
P6E6D-0302	3	8	50	6
P6E6D-0352	3.5	10	50	6
P6E6D-0402	4	11	50	6



P6E3D-4T 極超微粒3柄平刀4刃
Square End Mills-4 Flute

Grain Size: 0.6µm, Carbide: MG, Coating: NaNo TiAlN, HRC: 60, Helix Angle: 35°, Flutes: 4, Flute Edge: 90° SQUARE

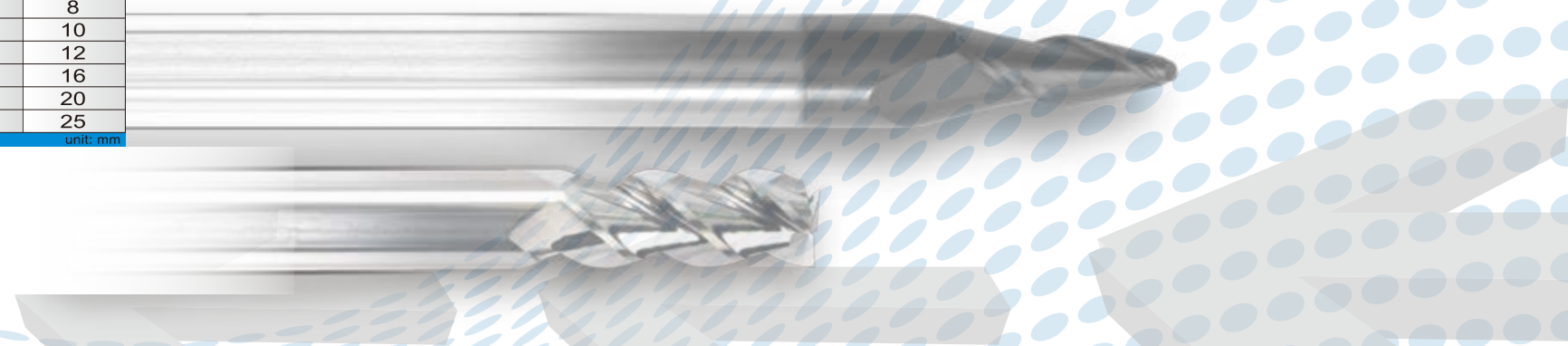
Type No. 型號	Diameter 直徑d1	Flute Length 刃長l1	O.A.L. 全長l3	Shank Dia 柄徑d2
P6E3D-0104	1	2.5	50	3
P6E3D-0154	1.5	4	50	3
P6E3D-0204	2	6	50	3
P6E3D-0254	2.5	8	50	3
P6E3D-0304	3	8	50	3



P6E6D-4T 極超微粒6柄平刀4刃
Square End Mills-4 Flute

Grain Size: 0.6µm, Carbide: MG, Coating: NaNo TiAlN, HRC: 60, Helix Angle: 35°, Flutes: 4, Flute Edge: 90° SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長l1	O.A.L. 全長l3	Shank Dia 柄徑d2
P6E6D-0104	1	3	50	6
P6E6D-0154	1.5	4	50	6
P6E6D-0204	2	6	50	6
P6E6D-0254	2.5	8	50	6
P6E6D-0304	3	8	50	6
P6E6D-0354	3.5	10	50	6
P6E6D-0404	4	11	50	6



品牌介紹
COMPANY INFORMATION

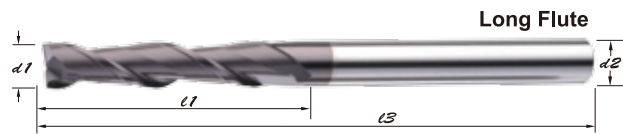
V2 奈米極細超微粒
NANO SUPER MICRO GRAIN

G4 極細超微粒
SUPER MICRO GRAIN

P6 極超微粒
MICRO GRAIN

P6 極超微粒
(Soft Materials Cutting)

P6 極超微粒

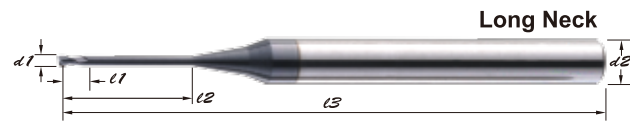


P6FE-2T 極超微粒長刃平刀2刃
Square End Mills-2 Flute

Grain Size: 0.6 μm, Carbide: MG, Coating: NaNo TiAlN, HRC: 60, Helix Angle: 35°, Flutes: 2, Flute Edge: 90° SQUARE

Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 l1	O.A.L. 全長 l2	Shank Dia 柄徑 d2
P6FE-0102	1	7	50	4
P6FE-0152	1.5	9	50	4
P6FE-0202	2	12	50	4
P6FE-0252	2.5	12	50	4
P6FE-0302	3	15	60	6
P6FE-0352	3.5	15	60	6
P6FE-0402	4	20	75	6
P6FE-0452	4.5	20	75	6
P6FE-0502	5	25	75	6
P6FE-0552	5.5	25	75	6
P6FE-0602	6	30	75	6
P6FE-0702	7	30	100	8
P6FE-0802	8	40	100	8
P6FE-0902	9	40	100	10
P6FE-1002	10	40	100	10
P6FE-1102	11	40	100	12
P6FE-1202	12	50	100	12
P6FE-1402	14	50	150	16
P6FE-1602	16	60	150	16
P6FE-2002	20	90	200	20

unit: mm

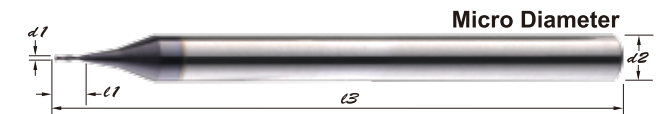


P6JE-2T 極超微粒深溝專用平刀2刃
Square End Mills-2 Flute

Grain Size: 0.6 μm, Carbide: MG, Coating: NaNo TiAlN, HRC: 60, Helix Angle: 35°, Flutes: 2, Flute Edge: 90° Long Neck

Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 L1	Effective Length 有效長 L2	O.A.L. 全長 L3	Shank Dia 柄徑 d2
P6JE-04022	0.4	0.7	2	50	4
P6JE-04042	0.4	0.7	4	50	4
P6JE-05022	0.5	0.8	2	50	4
P6JE-05042	0.5	0.8	4	50	4
P6JE-05062	0.5	0.8	6	50	4
P6JE-08042	0.8	1.2	4	50	4
P6JE-08062	0.8	1.2	6	50	4
P6JE-08082	0.8	1.2	8	50	4
P6JE-10042	1.0	1.5	4	50	4
P6JE-10062	1.0	1.5	6	50	4
P6JE-10082	1.0	1.5	8	50	4
P6JE-10102	1.0	1.5	10	50	4
P6JE-10122	1.0	1.5	12	50	4
P6JE-15062	1.5	2.3	6	50	4
P6JE-15082	1.5	2.3	8	50	4
P6JE-15102	1.5	2.3	10	50	4
P6JE-15122	1.5	2.3	12	50	4
P6JE-15162	1.5	2.3	16	50	4
P6JE-20082	2.0	3	8	50	4
P6JE-20102	2.0	3	10	50	4
P6JE-20122	2.0	3	12	50	4
P6JE-20162	2.0	3	16	50	4
P6JE-20202	2.0	3	20	50	4
P6JE-25102	2.5	3.5	10	50	4
P6JE-25122	2.5	3.5	12	50	4
P6JE-25162	2.5	3.5	16	50	4
P6JE-25202	2.5	3.5	20	50	4
P6JE-30102	3.0	4	10	50	6
P6JE-30122	3.0	4	12	50	6
P6JE-30162	3.0	4	16	50	6
P6JE-30202	3.0	4	20	60	6
P6JE-30252	3.0	4	25	60	6

unit: mm

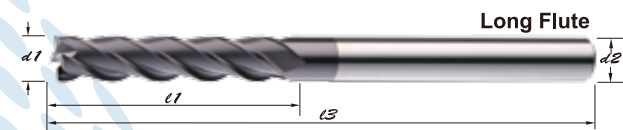


P6SE-2T 極超微粒微小徑平刀2刃
Square End Mills-2 Flute

Grain Size: 0.6 μm, Carbide: MG, Coating: NaNo TiAlN, HRC: 60, Helix Angle: 35°, Flutes: 2, Flute Edge: 90° SQUARE

Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 L1	O.A.L. 全長 L3	Shank Dia 柄徑 d2
P6SE-0022	0.2	0.4	50	4
P6SE-0032	0.3	0.6	50	4
P6SE-0042	0.4	0.8	50	4
P6SE-0052	0.5	1	50	4
P6SE-0062	0.6	1.2	50	4
P6SE-0072	0.7	1.4	50	4
P6SE-0082	0.8	1.6	50	4
P6SE-0092	0.9	1.8	50	4
P6SE-0112	1.1	3	50	4
P6SE-0122	1.2	3	50	4
P6SE-0132	1.3	3	50	4
P6SE-0142	1.4	3	50	4
P6SE-0162	1.6	4	50	4
P6SE-0172	1.7	4	50	4
P6SE-0182	1.8	4	50	4
P6SE-0192	1.9	4	50	4
P6SE-0212	2.1	6	50	4
P6SE-0222	2.2	6	50	4
P6SE-0232	2.3	6	50	4
P6SE-0242	2.4	6	50	4
P6SE-0262	2.6	8	50	4
P6SE-0272	2.7	8	50	4
P6SE-0282	2.8	8	50	4
P6SE-0292	2.9	8	50	4

unit: mm

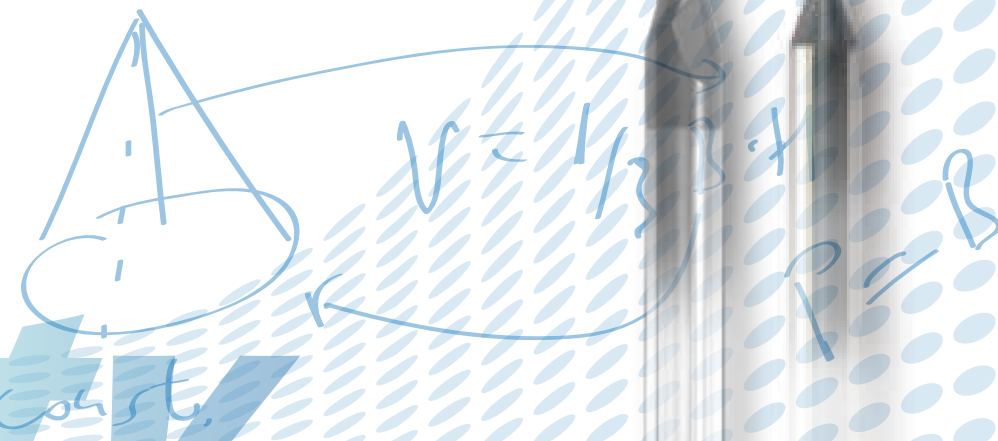


P6FE-4T 極超微粒長刃平刀4刃
Square End Mills-4 Flute

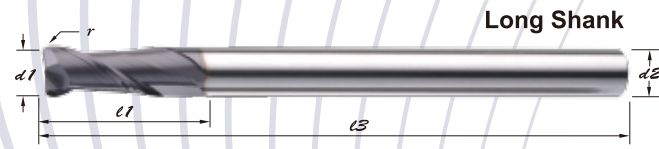
Grain Size: 0.6 μm, Carbide: MG, Coating: NaNo TiAlN, HRC: 60, Helix Angle: 35°, Flutes: 4, Flute Edge: 90° SQUARE

Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 l1	O.A.L. 全長 l2	Shank Dia 柄徑 d2
P6FE-0104	1	7	50	4
P6FE-0154	1.5	9	50	4
P6FE-0204	2	12	50	4
P6FE-0254	2.5	12	50	4
P6FE-0304	3	15	60	6
P6FE-0354	3.5	15	60	6
P6FE-0404	4	20	75	6
P6FE-0454	4.5	20	75	6
P6FE-0504	5	25	75	6
P6FE-0554	5.5	25	75	6
P6FE-0604	6	30	75	6
P6FE-0704	7	30	100	8
P6FE-0804	8	40	100	8
P6FE-0904	9	40	100	10
P6FE-1004	10	40	100	10
P6FE-1104	11	40	100	12
P6FE-1204	12	50	100	12
P6FE-1404	14	50	150	16
P6FE-1604	16	60	150	16
P6FE-2004	20	90	200	20

unit: mm



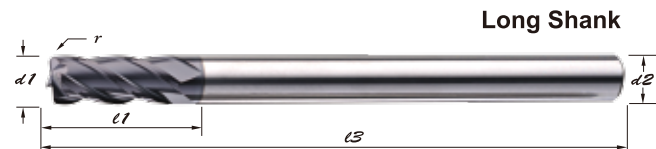
P6 極超微粒



P6LR-2T 極超微粒長柄圓鼻刀2刃
Corner Radius End Mills-2 Flute

Type No. 型號	Diameter 直徑 d1	Corner R 角 r	Flute Length 刃長 l1	O.A.L. 全長 l2	Shank Dia 柄徑 d2
P6LR-04052	4	0.5	11	75	4
P6LR-06052	6	0.5	16	75	6
P6LR-06102	6	1	16	75	6
P6LR-06052	6	0.5	16	100	6
P6LR-06102	6	1	16	100	6
P6LR-08052	8	0.5	20	100	8
P6LR-08102	8	1	20	100	8
P6LR-10052	10	0.5	25	100	10
P6LR-10102	10	1	25	100	10
P6LR-10202	10	2	25	100	10
P6LR-12102	12	1	30	100	12
P6LR-12202	12	2	30	100	12

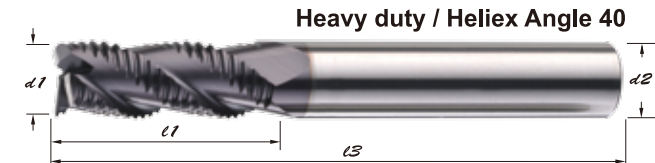
unit: mm



P6LR-4T 極超微粒長柄圓鼻刀4刃
Corner Radius End Mills-4 Flute

Type No. 型號	Diameter 直徑 d1	Corner R 角 r	Flute Length 刃長 l1	O.A.L. 全長 l2	Shank Dia 柄徑 d2
P6LR-06054	6	0.5	16	75	6
P6LR-06104	6	1	16	75	6
P6LR-06054	6	0.5	16	100	6
P6LR-06104	6	1	16	100	6
P6LR-08054	8	0.5	20	100	8
P6LR-08104	8	1	20	100	8
P6LR-10054	10	0.5	25	100	10
P6LR-10104	10	1	25	100	10
P6LR-10204	10	2	25	100	10
P6LR-12104	12	1	30	100	12
P6LR-12204	12	2	30	100	12
P6LR-16104	16	1	45	100	16
P6LR-16204	16	2	45	100	16
P6LR-16104	16	1	45	150	16
P6LR-16204	16	2	45	150	16

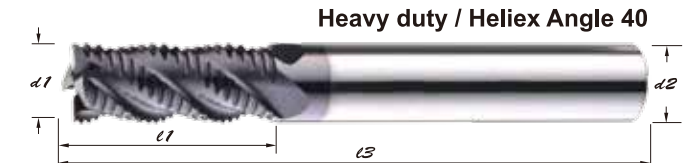
unit: mm



P6M40-3T 極超微粒粗精銑刀(細目)3刃
Roughing End Mills-3 Flute

Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 l1	O.A.L. 全長 l2	Shank Dia 柄徑 d2
P6M40-0403	4	8	50	6
P6M40-0503	5	13	50	6
P6M40-0603	6	16	50	6
P6M40-0703	7	16	60	8
P6M40-0803	8	20	60	8
P6M40-0903	9	25	75	10
P6M40-1003	10	25	75	10
P6M40-1103	11	30	75	12
P6M40-1203	12	30	75	12
P6M40-1603	16	35	100	16
P6M40-2003	20	45	100	20

unit: mm



P6M40-4T 極超微粒粗精銑刀(細目)4刃
Roughing End Mills-4 Flute

Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 l1	O.A.L. 全長 l2	Shank Dia 柄徑 d2
P6M40-0504	5	13	50	6
P6M40-0604	6	16	50	6
P6M40-0704	7	16	60	8
P6M40-0804	8	20	60	8
P6M40-0904	9	25	75	10
P6M40-1004	10	25	75	10
P6M40-1104	11	30	75	12
P6M40-1204	12	30	75	12
P6M40-1404	14	35	100	16
P6M40-1504	15	35	100	16
P6M40-1604	16	35	100	16
P6M40-2004	20	45	100	20

unit: mm



P6W25-3T 極超微粒粗銑刀(粗目)3刃
Roughing End Mills-3 Flute

Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 l1	O.A.L. 全長 l2	Shank Dia 柄徑 d2
P6W25-0403	4	8	50	6
P6W25-0503	5	13	50	6
P6W25-0603	6	16	50	6
P6W25-0703	7	16	60	8
P6W25-0803	8	20	60	8
P6W25-0903	9	25	75	10
P6W25-1003	10	25	75	10
P6W25-1103	11	30	75	12
P6W25-1203	12	30	75	12
P6W25-1603	16	35	100	16
P6W25-2003	20	45	100	20

unit: mm



P6W25-4T 極超微粒粗銑刀(粗目)4刃
Roughing End Mills-4 Flute

Type No. 型號	Diameter 直徑 d1	Flute Length 刃長 l1	O.A.L. 全長 l2	Shank Dia 柄徑 d2
P6W25-0504	5	13	50	6
P6W25-0604	6	16	50	6
P6W25-0704	7	16	60	8
P6W25-0804	8	20	60	8
P6W25-0904	9	25	75	10
P6W25-1004	10	25	75	10
P6W25-1104	11	30	75	12
P6W25-1204	12	30	75	12
P6W25-1604	16	35	100	16
P6W25-2004	20	45	100	20

unit: mm

Express Services
Trust and Considerate



P6SB3D-2T 極超微粒微小徑專用球刀2刃3柄徑
Ball Nose End Mills-2 Flute

Grain Size: 0.6µm, Carbide: MG, Coating: NaNo TiAlN, HRC: 60, Helix Angle: 30°, Flutes: 2, Flute Edge: Ball

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
P6SB3D-0022	R0.1	0.4	50	3
P6SB3D-0032	R0.15	0.6	50	3
P6SB3D-0042	R0.2	0.7	50	3
P6SB3D-0052	R0.25	0.8	50	3
P6SB3D-0062	R0.3	0.9	50	3
P6SB3D-0072	R0.35	1.4	50	3
P6SB3D-0082	R0.4	1.6	50	3
P6SB3D-0092	R0.45	1.8	50	3
P6SB3D-0112	R0.55	2.2	50	3
P6SB3D-0122	R0.6	2.4	50	3
P6SB3D-0132	R0.65	2.6	50	3
P6SB3D-0142	R0.7	2.8	50	3
P6SB3D-0162	R0.8	3.2	50	3
P6SB3D-0172	R0.85	3.4	50	3
P6SB3D-0182	R0.9	3.6	50	3
P6SB3D-0192	R0.95	3.8	50	3
P6SB3D-0212	R1.05	4.2	50	3
P6SB3D-0222	R1.1	4.4	50	3
P6SB3D-0232	R1.15	4.6	50	3
P6SB3D-0242	R1.2	4.8	50	3
P6SB3D-0262	R1.3	5.2	50	3
P6SB3D-0272	R1.35	5.4	50	3
P6SB3D-0282	R1.4	5.6	50	3
P6SB3D-0292	R1.45	5.8	50	3

unit: mm



P6SE3D-2T 極超微粒微小徑平刀2刃3柄徑
Square End Mills-2 Flute

Grain Size: 0.6µm, Carbide: MG, Coating: NaNo TiAlN, HRC: 60, Helix Angle: 35°, Flutes: 2, Flute Edge: SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
P6SE3D-0022	0.2	0.4	50	3
P6SE3D-0032	0.3	0.6	50	3
P6SE3D-0042	0.4	0.7	50	3
P6SE3D-0052	0.5	0.8	50	3
P6SE3D-0062	0.6	0.9	50	3
P6SE3D-0072	0.7	1.4	50	3
P6SE3D-0082	0.8	1.6	50	3
P6SE3D-0092	0.9	1.8	50	3
P6SE3D-0112	1.1	3	50	3
P6SE3D-0122	1.2	3	50	3
P6SE3D-0132	1.3	3	50	3
P6SE3D-0142	1.4	3	50	3
P6SE3D-0162	1.6	4	50	3
P6SE3D-0172	1.7	4	50	3
P6SE3D-0182	1.8	4	50	3
P6SE3D-0192	1.9	4	50	3
P6SE3D-0212	2.1	6	50	3
P6SE3D-0222	2.2	6	50	3
P6SE3D-0232	2.3	6	50	3
P6SE3D-0242	2.4	6	50	3
P6SE3D-0262	2.6	8	50	3
P6SE3D-0272	2.7	8	50	3
P6SE3D-0282	2.8	8	50	3
P6SE3D-0292	2.9	8	50	3

unit: mm



P6ZE-4T 極超微粒平刀4刃 重切削
Square End Mills-4 Flute

Grain Size: 0.6µm, Carbide: MG, Coating: NaNo TiAlN, HRC: 60, Helix Angle: 45°, Flutes: 4, Flute Edge: SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
P6ZE-0104	1	3	50	4
P6ZE-0154	1.5	4	50	4
P6ZE-0204	2	6	50	4
P6ZE-0254	2.5	8	50	4
P6ZE-0304	3	8	50	4
P6ZE-0354	3.5	10	50	4
P6ZE-0404	4	11	50	4
P6ZE-0454	4.5	13	50	6
P6ZE-0504	5	13	50	6
P6ZE-0554	5.5	13	50	6
P6ZE-0604	6	16	50	6
P6ZE-0654	6.5	16	60	8
P6ZE-0704	7	16	60	8
P6ZE-0754	7.5	16	60	8
P6ZE-0804	8	20	60	8
P6ZE-0854	8.5	20	75	10
P6ZE-0904	9	20	75	10
P6ZE-0954	9.5	25	75	10
P6ZE-1004	10	25	75	10
P6ZE-1104	11	30	75	12
P6ZE-1154	11.5	30	75	12
P6ZE-1204	12	30	75	12
P6ZE-1404	14	40	100	16
P6ZE-1604	16	40	100	16
P6ZE-1804	18	45	100	20
P6ZE-2004	20	45	100	20

unit: mm

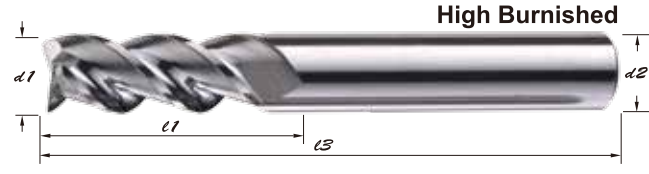
P6 極超微粒



P6A45-2T 極超微粒全鏡面銅鋁合金專用平刀2刃
Aluminum Cutting Square End Mills-2 Flute

Type No. 型號	Diameter 直徑d1	Flute Length 刃長l1	O.A.L. 全長l3	Shank Dia 柄徑d2
P6A45-0052	0.5	1.5	50	4
P6A45-0062	0.6	1.5	50	4
P6A45-0082	0.8	2	50	4
P6A45-0102	1	3	50	4
P6A45-0122	1.2	4	50	4
P6A45-0152	1.5	4	50	4
P6A45-0182	1.8	5	50	4
P6A45-0202	2	6	50	4
P6A45-0302	3	8	50	4
P6A45-0402	4	10	50	4
P6A45-0502	5	13	50	6
P6A45-0602	6	15	50	6
P6A45-0802	8	20	60	8
P6A45-1002	10	25	75	10
P6A45-1202	12	32	75	12

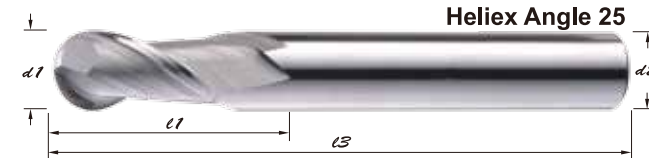
unit: mm



P6A45-3T 極超微粒全鏡面銅鋁合金專用平刀3刃
Aluminum Cutting Square End Mills-3 Flute

Type No. 型號	Diameter 直徑d1	Flute Length 刃長l1	O.A.L. 全長l3	Shank Dia 柄徑d2
P6A45-0103	1	3	50	4
P6A45-0123	1.2	4	50	4
P6A45-0153	1.5	4	50	4
P6A45-0183	1.8	5	50	4
P6A45-0203	2	6	50	4
P6A45-0303	3	8	50	4
P6A45-0403	4	10	50	4
P6A45-0503	5	13	50	6
P6A45-0603	6	15	50	6
P6A45-0803	8	20	60	8
P6A45-1003	10	25	75	10
P6A45-1203	12	32	75	12

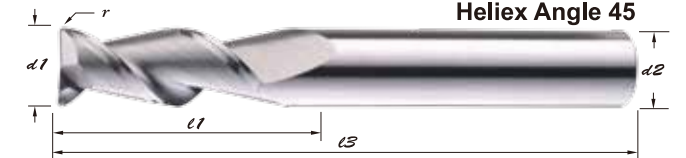
unit: mm



P6AB25-2T 極超微粒銅鋁合金專用球刀2刃
Aluminum Cutting Ball Nose End Mills-2 Flute

Type No. 型號	Diameter 直徑d1	Flute Length 刃長l1	O.A.L. 全長l3	Shank Dia 柄徑d2
P6AB25-0102	R0.5	2	50	4
P6AB25-0152	R0.75	3	50	4
P6AB25-0202	R1	4	50	4
P6AB25-0252	R1.25	5	50	4
P6AB25-0302	R1.5	6	50	4
P6AB25-0352	R1.75	7	50	4
P6AB25-0402	R2	8	50	4
P6AB25-0452	R2.25	9	50	6
P6AB25-0502	R2.5	10	50	6
P6AB25-0552	R2.75	11	50	6
P6AB25-0602	R3	12	50	6
P6AB25-0802	R4	16	60	8
P6AB25-1002	R5	20	75	10
P6AB25-1202	R6	24	75	12

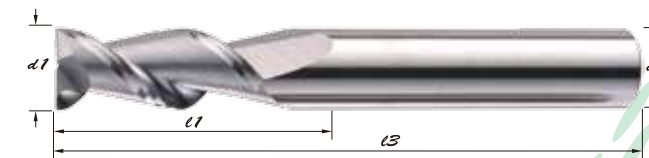
unit: mm



P6AR45-2T 極超微粒銅鋁合金專用圓鼻刀2刃
Aluminum Cutting Corner Radius End Mills-2 Flute

Type No. 型號	Diameter 直徑d1	Corner R R角r	Flute Length 刃長l1	O.A.L. 全長l3	Shank Dia 柄徑d2
P6AR45-02022	2	0.2	6	50	6
P6AR45-03022	3	0.2	10	50	6
P6AR45-04022	4	0.2	12	50	6
P6AR45-06032	6	0.3	18	50	6
P6AR45-08052	8	0.5	20	60	8
P6AR45-10052	10	0.5	25	75	10

unit: mm



P6AE45-2T 極超微粒銅鋁合金專用平刀2刃
Aluminum Cutting Square End Mills-2 Flute

Type No. 型號	Diameter 直徑d1	Flute Length 刃長l1	O.A.L. 全長l3	Shank Dia 柄徑d2
P6AE45-0102	1	3	50	6
P6AE45-0152	1.5	4	50	6
P6AE45-0202	2	6	50	6
P6AE45-0302	3	10	50	6
P6AE45-0402	4	12	50	6
P6AE45-0502	5	16	50	6
P6AE45-0602	6	18	50	6
P6AE45-0802	8	20	60	8
P6AE45-1002	10	25	75	10
P6AE45-1202	12	30	75	12
P6AE45-1602	16	40	100	16
P6AE45-2002	20	45	100	20

unit: mm



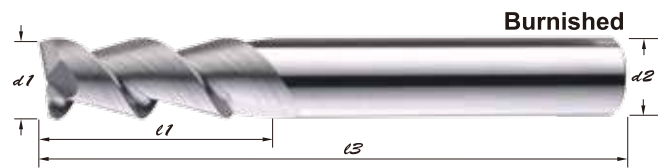
P6AE45-3T 極超微粒銅鋁合金專用平刀3刃
Aluminum Cutting Square End Mills-3 Flute

Type No. 型號	Diameter 直徑d1	Flute Length 刃長l1	O.A.L. 全長l3	Shank Dia 柄徑d2
P6AE45-0103	1	3	50	6
P6AE45-0153	1.5	4	50	6
P6AE45-0203	2	6	50	6
P6AE45-0303	3	10	50	6
P6AE45-0403	4	12	50	6
P6AE45-0503	5	16	50	6
P6AE45-0603	6	18	50	6
P6AE45-0803	8	20	60	8
P6AE45-1003	10	25	75	10
P6AE45-1203	12	30	75	12
P6AE45-1603	16	40	100	16
P6AE45-2003	20	45	100	20

unit: mm

High Speed

P6 極超微粒

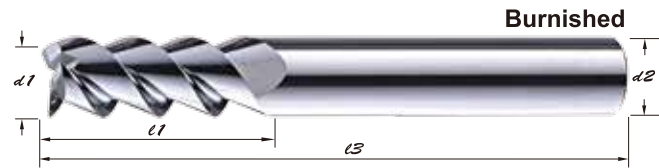


P6AE55-2T 極超微粒銅鋁專用利刃平刀2刃
Aluminum Cutting Square End Mills-2 Flute

Grain Size 0.6µm Carbide MG HRC 40 Helix Angle 55° Flutes 2 Flute Edge 90° SQUARE 鏡面處理

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
P6AE55-0302	3	9	50	6
P6AE55-0402	4	12	50	6
P6AE55-0502	5	15	50	6
P6AE55-0602	6	18	50	6
P6AE55-0802	8	20	60	8
P6AE55-1002	10	30	75	10
P6AE55-1202	12	32	75	12
P6AE55-1602	16	45	100	16
P6AE55-2002	20	45	100	20

unit: mm

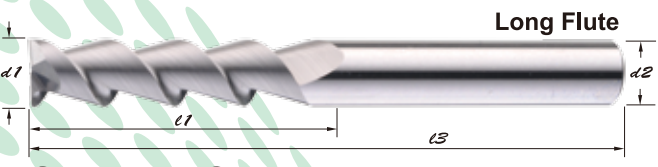


P6AE55-3T 極超微粒銅鋁專用利刃平刀3刃
Aluminum Cutting Square End Mills-3 Flute

Grain Size 0.6µm Carbide MG HRC 40 Helix Angle 55° Flutes 3 Flute Edge 90° SQUARE 鏡面處理

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
P6AE55-0303	3	9	50	6
P6AE55-0403	4	12	50	6
P6AE55-0503	5	15	50	6
P6AE55-0603	6	18	50	6
P6AE55-0803	8	20	60	8
P6AE55-1003	10	30	75	10
P6AE55-1203	12	32	75	12
P6AE55-1603	16	45	100	16
P6AE55-2003	20	45	100	20

unit: mm

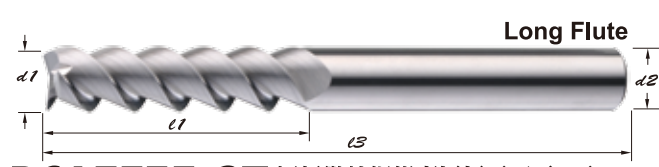


P6AEF55-2T 極超微粒銅鋁專用長刃平刀2刃
Aluminum Cutting Square End Mills-2 Flute

Grain Size 0.6µm Carbide MG HRC 40 Helix Angle 55° Flutes 2 Flute Edge 90° SQUARE 鏡面處理

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
P6AEF55-0302	3	12	60	6
P6AEF55-0402	4	15	60	6
P6AEF55-0502	5	20	60	6
P6AEF55-0602	6	25	75	6
P6AEF55-0802	8	32	75	8
P6AEF55-1002	10	45	100	10
P6AEF55-1202	12	45	100	12
P6AEF55-1602	16	65	120	16
P6AEF55-1602	16	75	150	16
P6AEF55-2002	20	75	150	20

unit: mm

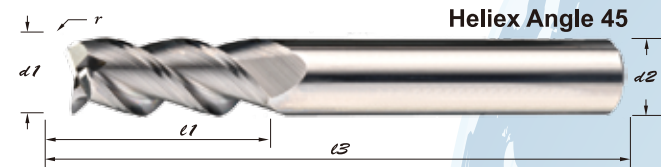


P6AEF55-3T 極超微粒銅鋁專用長刃平刀3刃
Aluminum Cutting Square End Mills-3 Flute

Grain Size 0.6µm Carbide MG HRC 40 Helix Angle 55° Flutes 3 Flute Edge 90° SQUARE 鏡面處理

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
P6AEF55-0303	3	12	60	6
P6AEF55-0403	4	16	60	6
P6AEF55-0503	5	20	60	6
P6AEF55-0603	6	25	75	6
P6AEF55-0803	8	32	75	8
P6AEF55-1003	10	45	100	10
P6AEF55-1203	12	45	100	12
P6AEF55-1603	16	65	120	16
P6AEF55-1603	16	75	150	16
P6AEF55-2003	20	75	150	20

unit: mm

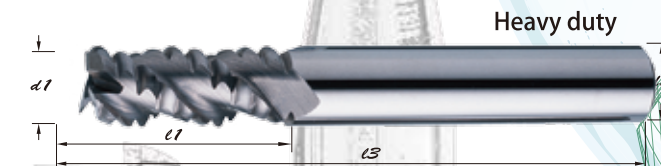


P6AR45-3T 極超微粒銅鋁專用圓鼻刀3刃
Aluminum Cutting Corner Radius End Mills-3 Flute

Grain Size 0.6µm Carbide MG HRC 40 Helix Angle 45° Flutes 3 Flute Edge R Corner 鏡面處理

Type No. 型號	Diameter 直徑d1	Corner R 角Rr	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
P6AR45-02023	2	0.2	6	50	6
P6AR45-03023	3	0.2	10	50	6
P6AR45-04023	4	0.2	12	50	6
P6AR45-06033	6	0.3	18	50	6
P6AR45-08053	8	0.5	20	60	8
P6AR45-10053	10	0.5	30	75	10

unit: mm

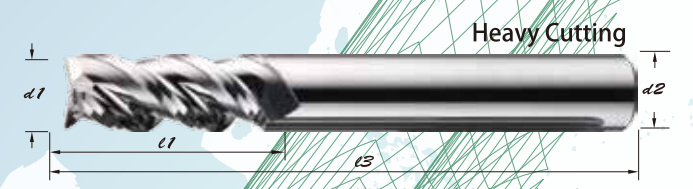


P6AW38-3T 極超微粒銅鋁專用粗銑平刀3刃
Roughing End Mills-3 Flute

Grain Size 0.6µm Carbide MG HRC 40 Helix Angle 38° Flutes 3 Flute Edge 90° SQUARE 鏡面處理

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
P6AW38-0303	3	8	50	6
P6AW38-0403	4	11	50	6
P6AW38-0503	5	13	50	6
P6AW38-0603	6	15	50	6
P6AW38-0803	8	20	60	8
P6AW38-1003	10	25	75	10
P6AW38-1203	12	30	75	12
P6AW38-1603	16	40	100	16
P6AW38-2003	20	40	100	20

unit: mm



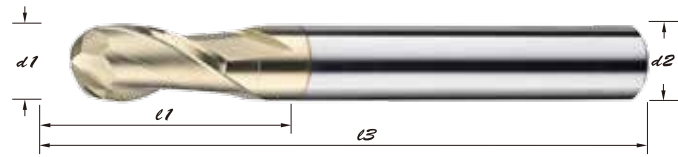
P6AVE50-3T 極超微粒銅鋁專用平刀3刃 重切削
Aluminum Cutting Square End Mills-3 Flute

Grain Size 0.6µm Carbide MG HRC 40 Helix Angle 50° Flutes 3 Flute Edge 90° SQUARE 鏡面處理

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
P6AVE50-0103	1	3	50	6
P6AVE50-0153	1.5	4	50	6
P6AVE50-0203	2	6	50	6
P6AVE50-0253	2.5	7	50	6
P6AVE50-0303	3	8	50	6
P6AVE50-0403	4	11	50	6
P6AVE50-0503	5	13	50	6
P6AVE50-0603	6	15	50	6
P6AVE50-0703	7	18	60	8
P6AVE50-0803	8	20	60	8
P6AVE50-0903	9	23	75	10
P6AVE50-1003	10	25	75	10
P6AVE50-1103	11	28	75	12
P6AVE50-1203	12	30	75	12
P6AVE50-1603	16	40	100	16
P6AVE50-2003	20	45	100	20

unit: mm

Precision Tools

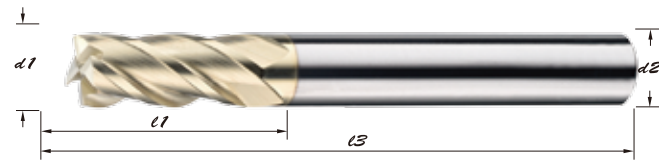


NB-2T 極超微粒球刀2刃
Ball Nose End Mills-2 Flute



Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
NB-0102	R0.5	2	50	4
NB-0152	R0.75	3	50	4
NB-0202	R1	4	50	4
NB-0252	R1.25	5	50	4
NB-0302	R1.5	6	50	4
NB-0352	R1.75	7	50	4
NB-0402	R2	8	50	4
NB-0502	R2.5	10	50	6
NB-0602	R3	12	50	6
NB-0802	R4	16	60	8
NB-1002	R5	20	75	10
NB-1202	R6	24	75	12
NB-1402	R7	28	100	16
NB-1602	R8	32	100	16
NB-1802	R9	36	100	20
NB-2002	R10	40	100	20

unit: mm

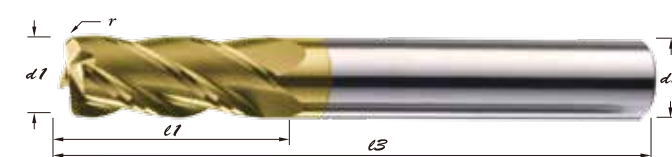


NE-4T 極超微粒平刀4刃
Square End Mills-4 Flute



Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
NE-0104	1	3	50	4
NE-0154	1.5	4	50	4
NE-0204	2	6	50	4
NE-0254	2.5	8	50	4
NE-0304	3	8	50	4
NE-0354	3.5	10	50	4
NE-0404	4	11	50	4
NE-0454	4.5	13	50	6
NE-0504	5	13	50	6
NE-0554	5.5	13	50	6
NE-0604	6	16	50	6
NE-0654	6.5	16	60	8
NE-0704	7	16	60	8
NE-0754	7.5	16	60	8
NE-0804	8	20	60	8
NE-0854	8.5	20	75	10
NE-0904	9	20	75	10
NE-0954	9.5	25	75	10
NE-1004	10	25	75	10
NE-1104	11	30	75	12
NE-1154	11.5	30	75	12
NE-1204	12	30	75	12
NE-1404	14	40	100	16
NE-1604	16	40	100	16
NE-1804	18	45	100	20
NE-2004	20	45	100	20

unit: mm



NR-4T 極超微粒圓鼻刀4刃
Corner Radius End Mills-4 Flute



Type No. 型號	Diameter 直徑d1	Corner R R角r	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
NR-03034	3	0.3	8	50	4
NR-03054	3	0.5	8	50	4
NR-03104	3	1	8	50	4
NR-04024	4	0.2	10	50	4
NR-04034	4	0.3	10	50	4
NR-04054	4	0.5	10	50	4
NR-04104	4	1	10	50	4
NR-05034	5	0.3	13	50	6
NR-05054	5	0.5	13	50	6
NR-05104	5	1	13	50	6
NR-06024	6	0.2	15	50	6
NR-06034	6	0.3	15	50	6
NR-06054	6	0.5	15	50	6
NR-06104	6	1	15	50	6
NR-06204	6	2	15	50	6
NR-08034	8	0.3	20	60	8
NR-08054	8	0.5	20	60	8
NR-08104	8	1	20	60	8
NR-08204	8	2	20	60	8
NR-10054	10	0.5	25	75	10
NR-10104	10	1	25	75	10
NR-10154	10	1.5	25	75	10
NR-10204	10	2	25	75	10
NR-10304	10	3	25	75	10
NR-12054	12	0.5	30	75	12
NR-12104	12	1	30	75	12
NR-12154	12	1.5	30	75	12
NR-12204	12	2	30	75	12
NR-12304	12	3	30	75	12

unit: mm



NQE46-4T 極超微粒平刀4刃 不等分割
Square End Mills-4 Flute



Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
NQE46-0604	6	15	50	6
NQE46-0804	8	20	60	8
NQE46-1004	10	25	75	10
NQE46-1204	12	30	75	12
NQE46-1604	16	40	100	16
NQE46-2004	20	40	100	20

unit: mm

鎳基/鈦合金專用刀
Nickel based alloy
Titanium alloy Cutting

V2鈦合金極細超微粒
NANO SUPER MICRO GRAIN

G4極細超微粒
SUPER MICRO GRAIN

P6極超微粒
MICRO GRAIN

P6極超微粒
(Soft Materials Cutting)

鎳基/鈦合金專用刀
End mills



NJB-2T 極超微粒深溝專用球刀2刃
Ball Nose End Mills-2 Flute

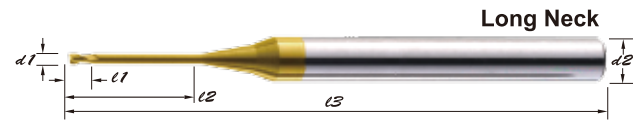


Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	Effective Length 有效長L2	O.A.L. 全長L3	Shank Dia 柄徑d2
NJB-03012	R0.15	0.4	1	50	4
NJB-03022	R0.15	0.4	2	50	4
NJB-04022	R0.2	0.6	2	50	4
NJB-04032	R0.2	0.6	3	50	4
NJB-04042	R0.2	0.6	4	50	4
NJB-05022	R0.25	0.7	2	50	4
NJB-05042	R0.25	0.7	4	50	4
NJB-05062	R0.25	0.7	6	50	4
NJB-06022	R0.3	0.8	2	50	4
NJB-06042	R0.3	0.8	4	50	4
NJB-06062	R0.3	0.8	6	50	4
NJB-08042	R0.4	1.2	4	50	4
NJB-08062	R0.4	1.2	6	50	4
NJB-08082	R0.4	1.2	8	50	4
NJB-10042	R0.5	1.5	4	50	4
NJB-10062	R0.5	1.5	6	50	4
NJB-10082	R0.5	1.5	8	50	4
NJB-10102	R0.5	1.5	10	50	4
NJB-10122	R0.5	1.5	12	50	4
NJB-12082	R0.6	1.8	8	50	4
NJB-12102	R0.6	1.8	10	50	4
NJB-12122	R0.6	1.8	12	50	4
NJB-15062	R0.75	2	6	50	4
NJB-15082	R0.75	2	8	50	4
NJB-15102	R0.75	2	10	50	4
NJB-15122	R0.75	2	12	50	4
NJB-15162	R0.75	2	16	50	4
NJB-15202	R0.75	2	20	50	4
NJB-20062	R1.0	3	6	50	4
NJB-20082	R1.0	3	8	50	4
NJB-20102	R1.0	3	10	50	4
NJB-20122	R1.0	3	12	50	4
NJB-20162	R1.0	3	16	50	4
NJB-20202	R1.0	3	20	50	4
NJB-30082	R1.5	4	8	50	6

unit: mm

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	Effective Length 有效長L2	O.A.L. 全長L3	Shank Dia 柄徑d2
NJB-30102	R1.5	4	10	50	6
NJB-30122	R1.5	4	12	50	6
NJB-30162	R1.5	4	16	50	6
NJB-30202	R1.5	4	20	60	6
NJB-30252	R1.5	4	25	60	6
NJB-40102	R2.0	5	10	60	6
NJB-40122	R2.0	5	12	60	6
NJB-40162	R2.0	5	16	60	6
NJB-40202	R2.0	5	20	75	6
NJB-40252	R2.0	5	25	75	6
NJB-40302	R2.0	5	30	75	6

unit: mm



NJE-2T 極超微粒深溝專用平刀2刃
Square End Mills-2 Flute



Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	Effective Length 有效長L2	O.A.L. 全長L3	Shank Dia 柄徑d2
NJE-04022	0.4	0.7	2	50	4
NJE-04042	0.4	0.7	4	50	4
NJE-05022	0.5	0.8	2	50	4
NJE-05042	0.5	0.8	4	50	4
NJE-05062	0.5	0.8	6	50	4
NJE-08042	0.8	1.2	4	50	4
NJE-08062	0.8	1.2	6	50	4
NJE-08082	0.8	1.2	8	50	4
NJE-10042	1.0	1.5	4	50	4
NJE-10062	1.0	1.5	6	50	4
NJE-10082	1.0	1.5	8	50	4
NJE-10102	1.0	1.5	10	50	4
NJE-10122	1.0	1.5	12	50	4
NJE-15062	1.5	2.3	6	50	4
NJE-15082	1.5	2.3	8	50	4
NJE-15102	1.5	2.3	10	50	4
NJE-15122	1.5	2.3	12	50	4
NJE-15162	1.5	2.3	16	50	4
NJE-20082	2.0	3	8	50	4
NJE-20102	2.0	3	10	50	4
NJE-20122	2.0	3	12	50	4
NJE-20162	2.0	3	16	50	4
NJE-20202	2.0	3	20	50	4
NJE-25102	2.5	3.5	10	50	4
NJE-25122	2.5	3.5	12	50	4
NJE-25162	2.5	3.5	16	50	4
NJE-25202	2.5	3.5	20	50	4
NJE-30102	3.0	4	10	50	6
NJE-30122	3.0	4	12	50	6
NJE-30162	3.0	4	16	50	6
NJE-30202	3.0	4	20	60	6
NJE-30252	3.0	4	25	60	6

unit: mm



NSB-2T 極超微粒微小徑專用球刀2刃
Ball Nose End Mills-2 Flute



Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
NSB-0032	R0.15	0.6	50	4
NSB-0042	R0.2	0.8	50	4
NSB-0052	R0.25	1	50	4
NSB-0062	R0.3	1.2	50	4
NSB-0072	R0.35	1.4	50	4
NSB-0082	R0.4	1.6	50	4
NSB-0092	R0.45	1.8	50	4
NSB-0122	R0.6	2.4	50	4
NSB-0142	R0.7	2.8	50	4
NSB-0162	R0.8	3.2	50	4
NSB-0182	R0.9	3.6	50	4
NSB-0222	R1.1	4.4	50	4
NSB-0242	R1.2	4.8	50	4
NSB-0262	R1.3	5.2	50	4
NSB-0282	R1.4	5.6	50	4

unit: mm

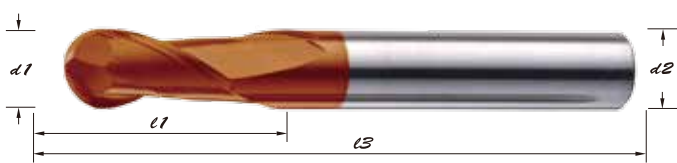


NSE-2T 極超微粒微小徑平刀2刃
Square End Mills-2 Flute



Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
NSE-0022	0.2	0.4	50	4
NSE-0032	0.3	0.6	50	4
NSE-0042	0.4	0.8	50	4
NSE-0052	0.5	1	50	4
NSE-0062	0.6	1.2	50	4
NSE-0072	0.7	1.4	50	4
NSE-0082	0.8	1.6	50	4
NSE-0092	0.9	1.8	50	4
NSE-0112	1.1	3	50	4
NSE-0122	1.2	3	50	4
NSE-0132	1.3	3	50	4
NSE-0142	1.4	3	50	4
NSE-0162	1.6	4	50	4
NSE-0172	1.7	4	50	4
NSE-0182	1.8	4	50	4
NSE-0192	1.9	4	50	4
NSE-0212	2.1	6	50	4
NSE-0222	2.2	6	50	4
NSE-0232	2.3	6	50	4
NSE-0242	2.4	6	50	4
NSE-0262	2.6	8	50	4
NSE-0272	2.7	8	50	4
NSE-0282	2.8	8	50	4
NSE-0292	2.9	8	50	4

unit: mm

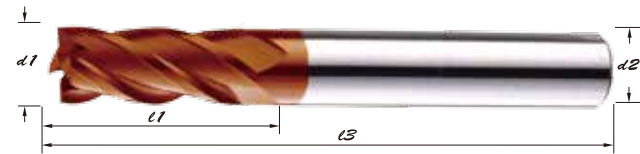


CB-2T 極超微粒球刀2刃
Ball Nose End Mills-2 Flute

Grain Size: 0.6 μm, Carbide: MG, Coating: TiX, HRC: 60, Helix Angle: 30°, Flutes: 2, Flute Edge: Ball

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
CB-0102	R0.5	2	50	4
CB-0152	R0.75	3	50	4
CB-0202	R1	4	50	4
CB-0252	R1.25	5	50	4
CB-0302	R1.5	6	50	4
CB-0352	R1.75	7	50	4
CB-0402	R2	8	50	4
CB-0502	R2.5	10	50	6
CB-0602	R3	12	50	6
CB-0802	R4	16	60	8
CB-1002	R5	20	75	10
CB-1202	R6	24	75	12
CB-1402	R7	28	100	16
CB-1602	R8	32	100	16
CB-1802	R9	36	100	20
CB-2002	R10	40	100	20

unit: mm

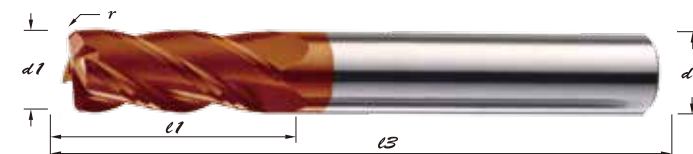


CE-4T 極超微粒平刀4刃
Square End Mills-4 Flute

Grain Size: 0.6 μm, Carbide: MG, Coating: TiX, HRC: 60, Helix Angle: 35°, Flutes: 4, Flute Edge: SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
CE-0104	1	3	50	4
CE-0154	1.5	4	50	4
CE-0204	2	6	50	4
CE-0254	2.5	8	50	4
CE-0304	3	8	50	4
CE-0354	3.5	10	50	4
CE-0404	4	11	50	4
CE-0454	4.5	13	50	6
CE-0504	5	13	50	6
CE-0554	5.5	13	50	6
CE-0604	6	16	50	6
CE-0654	6.5	16	60	8
CE-0704	7	16	60	8
CE-0754	7.5	16	60	8
CE-0804	8	20	60	8
CE-0854	8.5	20	75	10
CE-0904	9	20	75	10
CE-0954	9.5	25	75	10
CE-1004	10	25	75	10
CE-1104	11	30	75	12
CE-1154	11.5	30	75	12
CE-1204	12	30	75	12
CE-1404	14	40	100	16
CE-1604	16	40	100	16
CE-1804	18	45	100	20
CE-2004	20	45	100	20

unit: mm

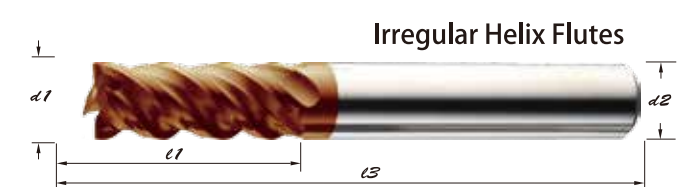


CR-4T 極超微粒圓鼻刀4刃
Corner Radius End Mills-4 Flute

Grain Size: 0.6 μm, Carbide: MG, Coating: TiX, HRC: 60, Helix Angle: 35°, Flutes: 4, Flute Edge: Corner

Type No. 型號	Diameter 直徑d1	Corner R R角r	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
CR-03034	3	0.3	8	50	4
CR-03054	3	0.5	8	50	4
CR-03104	3	1	8	50	4
CR-04024	4	0.2	10	50	4
CR-04034	4	0.3	10	50	4
CR-04054	4	0.5	10	50	4
CR-04104	4	1	10	50	4
CR-05034	5	0.3	13	50	6
CR-05054	5	0.5	13	50	6
CR-05104	5	1	13	50	6
CR-06024	6	0.2	15	50	6
CR-06034	6	0.3	15	50	6
CR-06054	6	0.5	15	50	6
CR-06104	6	1	15	50	6
CR-06204	6	2	15	50	6
CR-08034	8	0.3	20	60	8
CR-08054	8	0.5	20	60	8
CR-08104	8	1	20	60	8
CR-08204	8	2	20	60	8
CR-10054	10	0.5	25	75	10
CR-10104	10	1	25	75	10
CR-10154	10	1.5	25	75	10
CR-10204	10	2	25	75	10
CR-10304	10	3	25	75	10
CR-12054	12	0.5	30	75	12
CR-12104	12	1	30	75	12
CR-12154	12	1.5	30	75	12
CR-12204	12	2	30	75	12
CR-12304	12	3	30	75	12

unit: mm

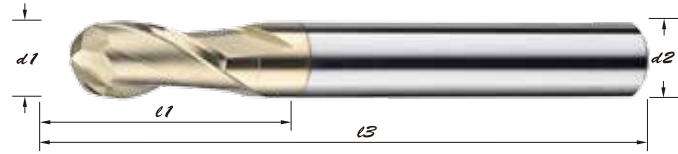


CQE46-4T 極超微粒平刀4刃 不等分割
Square End Mills-4 Flute

Grain Size: 0.6 μm, Carbide: MG, Coating: TiX, HRC: 60, Helix Angle: 43/46°, Flutes: 4, Flute Edge: SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
CQE46-0604	6	15	50	6
CQE46-0804	8	20	60	8
CQE46-1004	10	25	75	10
CQE46-1204	12	30	75	12
CQE46-1604	16	40	100	16
CQE46-2004	20	40	100	20

unit: mm

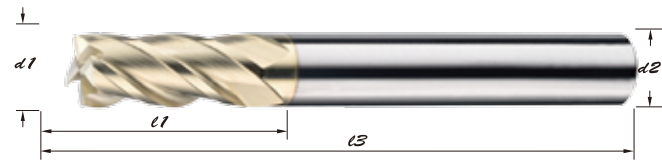


SSB-2T 極超微粒球刀2刃
Ball Nose End Mills-2 Flute

Grain Size: 0.6 μm, Carbide: MG, Coating: ZR, HRC: 60, Helix Angle: 30°, Flutes: 2, Flute Edge: Ball

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
SSB-0102	R0.5	2	50	4
SSB-0152	R0.75	3	50	4
SSB-0202	R1	4	50	4
SSB-0252	R1.25	5	50	4
SSB-0302	R1.5	6	50	4
SSB-0352	R1.75	7	50	4
SSB-0402	R2	8	50	4
SSB-0502	R2.5	10	50	6
SSB-0602	R3	12	50	6
SSB-0802	R4	16	60	8
SSB-1002	R5	20	75	10
SSB-1202	R6	24	75	12
SSB-1402	R7	28	100	16
SSB-1602	R8	32	100	16
SSB-1802	R9	36	100	20
SSB-2002	R10	40	100	20

unit: mm

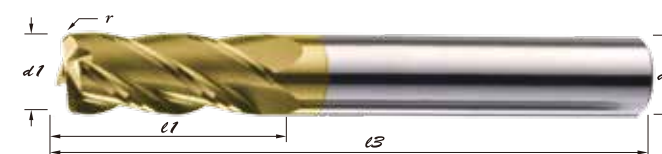


SSE-4T 極超微粒平刀4刃
Square End Mills-4 Flute

Grain Size: 0.6 μm, Carbide: MG, Coating: ZR, HRC: 60, Helix Angle: 35°, Flutes: 4, Flute Edge: SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
SSE-0104	1	3	50	4
SSE-0154	1.5	4	50	4
SSE-0204	2	6	50	4
SSE-0254	2.5	8	50	4
SSE-0304	3	8	50	4
SSE-0354	3.5	10	50	4
SSE-0404	4	11	50	4
SSE-0454	4.5	13	50	6
SSE-0504	5	13	50	6
SSE-0554	5.5	13	50	6
SSE-0604	6	16	50	6
SSE-0654	6.5	16	60	8
SSE-0704	7	16	60	8
SSE-0754	7.5	16	60	8
SSE-0804	8	20	60	8
SSE-0854	8.5	20	75	10
SSE-0904	9	20	75	10
SSE-0954	9.5	25	75	10
SSE-1004	10	25	75	10
SSE-1104	11	30	75	12
SSE-1154	11.5	30	75	12
SSE-1204	12	30	75	12
SSE-1404	14	40	100	16
SSE-1604	16	40	100	16
SSE-1804	18	45	100	20
SSE-2004	20	45	100	20

unit: mm

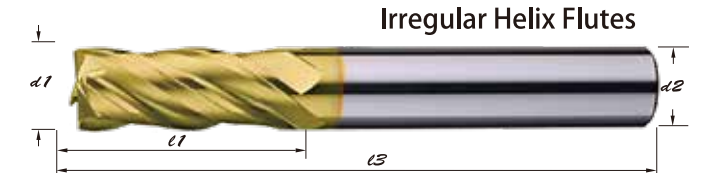


SSR-4T 極超微粒圓鼻刀4刃
Corner Radius End Mills-4 Flute

Grain Size: 0.6 μm, Carbide: MG, Coating: ZR, HRC: 60, Helix Angle: 35°, Flutes: 4, Flute Edge: R Corner

Type No. 型號	Diameter 直徑d1	Corner R R角r	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
SSR-03034	3	0.3	8	50	4
SSR-03054	3	0.5	8	50	4
SSR-03104	3	1	8	50	4
SSR-04024	4	0.2	10	50	4
SSR-04034	4	0.3	10	50	4
SSR-04054	4	0.5	10	50	4
SSR-04104	4	1	10	50	4
SSR-05034	5	0.3	13	50	6
SSR-05054	5	0.5	13	50	6
SSR-05104	5	1	13	50	6
SSR-06024	6	0.2	15	50	6
SSR-06034	6	0.3	15	50	6
SSR-06054	6	0.5	15	50	6
SSR-06104	6	1	15	50	6
SSR-06204	6	2	15	50	6
SSR-08034	8	0.3	20	60	8
SSR-08054	8	0.5	20	60	8
SSR-08104	8	1	20	60	8
SSR-08204	8	2	20	60	8
SSR-10054	10	0.5	25	75	10
SSR-10104	10	1	25	75	10
SSR-10154	10	1.5	25	75	10
SSR-10204	10	2	25	75	10
SSR-10304	10	3	25	75	10
SSR-12054	12	0.5	30	75	12
SSR-12104	12	1	30	75	12
SSR-12154	12	1.5	30	75	12
SSR-12204	12	2	30	75	12
SSR-12304	12	3	30	75	12

unit: mm

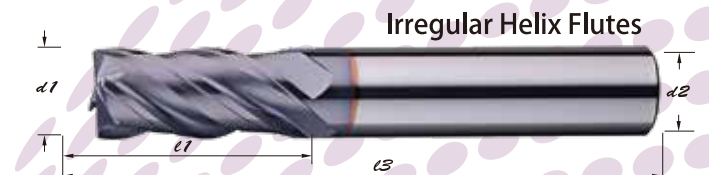


SSQE38-4T-ZR 極超微粒平刀4刃 不等分割
Square End Mills-4 Flute

Grain Size: 0.6 μm, Carbide: MG, Coating: ZR, HRC: 60, Helix Angle: 35/38°, Flutes: 4, Flute Edge: SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
SSQE38-0604-ZR	6	15	50	6
SSQE38-0804-ZR	8	20	60	8
SSQE38-1004-ZR	10	25	75	10
SSQE38-1204-ZR	12	30	75	12
SSQE38-1604-ZR	16	40	100	16
SSQE38-2004-ZR	20	40	100	20

unit: mm

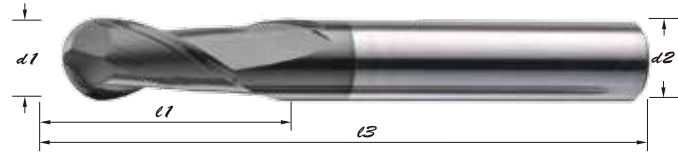


SSQE38-4T 極超微粒平刀4刃 不等分割
Square End Mills-4 Flute

Grain Size: 0.6 μm, Carbide: MG, Coating: NaNo, HRC: 60, Helix Angle: 35/38°, Flutes: 4, Flute Edge: SQUARE

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
SSQE38-0604	6	15	50	6
SSQE38-0804	8	20	60	8
SSQE38-1004	10	25	75	10
SSQE38-1204	12	30	75	12
SSQE38-1604	16	40	100	16
SSQE38-2004	20	40	100	20

unit: mm

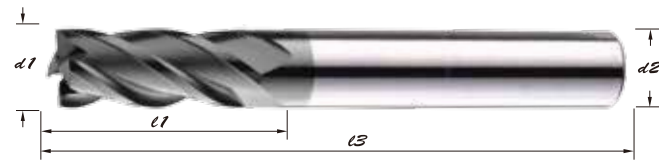


P6GB-2T 極超微粒球刀2刃
Ball Nose End Mills-2 Flute



Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
P6GB-0102	R0.5	2	50	4
P6GB-0152	R0.75	3	50	4
P6GB-0202	R1	4	50	4
P6GB-0252	R1.25	5	50	4
P6GB-0302	R1.5	6	50	4
P6GB-0352	R1.75	7	50	4
P6GB-0402	R2	8	50	4
P6GB-0502	R2.5	10	50	6
P6GB-0602	R3	12	50	6
P6GB-0802	R4	16	60	8
P6GB-1002	R5	20	75	10
P6GB-1202	R6	24	75	12
P6GB-1402	R7	28	100	16
P6GB-1602	R8	32	100	16
P6GB-1802	R9	36	100	20
P6GB-2002	R10	40	100	20

unit: mm

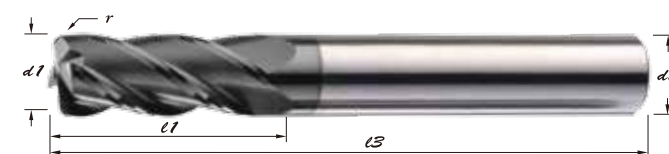


P6GE-4T 極超微粒平刀4刃
Square End Mills-4 Flute



Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
P6GE-0104	1	3	50	4
P6GE-0154	1.5	4	50	4
P6GE-0204	2	6	50	4
P6GE-0254	2.5	8	50	4
P6GE-0304	3	8	50	4
P6GE-0354	3.5	10	50	4
P6GE-0404	4	11	50	4
P6GE-0454	4.5	13	50	6
P6GE-0504	5	13	50	6
P6GE-0554	5.5	13	50	6
P6GE-0604	6	16	50	6
P6GE-0654	6.5	16	60	8
P6GE-0704	7	16	60	8
P6GE-0754	7.5	16	60	8
P6GE-0804	8	20	60	8
P6GE-0854	8.5	20	75	10
P6GE-0904	9	20	75	10
P6GE-0954	9.5	25	75	10
P6GE-1004	10	25	75	10
P6GE-1104	11	30	75	12
P6GE-1154	11.5	30	75	12
P6GE-1204	12	30	75	12
P6GE-1404	14	40	100	16
P6GE-1604	16	40	100	16
P6GE-1804	18	45	100	20
P6GE-2004	20	45	100	20

unit: mm



P6GR-4T 極超微粒圓鼻刀4刃
Corner Radius End Mills-4 Flute



Type No. 型號	Diameter 直徑d1	Corner R R角r	Flute Length 刃長L1	O.A.L. 全長L3	Shank Dia 柄徑d2
P6GR-03033	3	0.3	8	50	4
P6GR-03053	3	0.5	8	50	4
P6GR-03103	3	1	8	50	4
P6GR-04023	4	0.2	10	50	4
P6GR-04033	4	0.3	10	50	4
P6GR-04053	4	0.5	10	50	4
P6GR-04103	4	1	10	50	4
P6GR-05033	5	0.3	13	50	6
P6GR-05053	5	0.5	13	50	6
P6GR-05103	5	1	13	50	6
P6GR-06023	6	0.2	15	50	6
P6GR-06033	6	0.3	15	50	6
P6GR-06053	6	0.5	15	50	6
P6GR-06103	6	1	15	50	6
P6GR-06203	6	2	15	50	6
P6GR-08033	8	0.3	20	60	8
P6GR-08053	8	0.5	20	60	8
P6GR-08103	8	1	20	60	8
P6GR-08203	8	2	20	60	8
P6GR-10053	10	0.5	25	75	10
P6GR-10103	10	1	25	75	10
P6GR-10153	10	1.5	25	75	10
P6GR-10203	10	2	25	75	10
P6GR-10303	10	3	25	75	10
P6GR-12053	12	0.5	30	75	12
P6GR-12103	12	1	30	75	12
P6GR-12153	12	1.5	30	75	12
P6GR-12203	12	2	30	75	12
P6GR-12303	12	3	30	75	12

unit: mm

石墨專用刀
Graphite dedicated Cutting

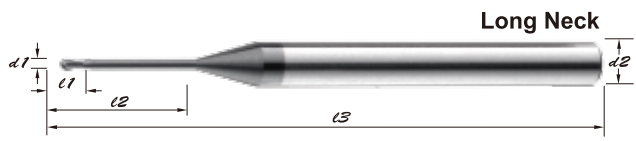
石墨專用刀
End mills

V2鈦合金極細超微粒
NANO SUPER MICRO GRAIN

G4極細超微粒
SUPER MICRO GRAIN

P6極超微粒
MICRO GRAIN

P6極超微粒
(Soft Materials Cutting)



P6GJB-2T 極超微粒深溝專用球刀2刃
Ball Nose End Mills-2 Flute



Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	Effective Length 有效長L2	O.A.L. 全長L3	Shank Dia 柄徑d2
P6GJB-03012	R0.15	0.4	1	50	4
P6GJB-03022	R0.15	0.4	2	50	4
P6GJB-04022	R0.2	0.6	2	50	4
P6GJB-04032	R0.2	0.6	3	50	4
P6GJB-04042	R0.2	0.6	4	50	4
P6GJB-05022	R0.25	0.7	2	50	4
P6GJB-05042	R0.25	0.7	4	50	4
P6GJB-05062	R0.25	0.7	6	50	4
P6GJB-06022	R0.3	0.8	2	50	4
P6GJB-06042	R0.3	0.8	4	50	4
P6GJB-06062	R0.3	0.8	6	50	4
P6GJB-08042	R0.4	1.2	4	50	4
P6GJB-08062	R0.4	1.2	6	50	4
P6GJB-08082	R0.4	1.2	8	50	4
P6GJB-10042	R0.5	1.5	4	50	4
P6GJB-10062	R0.5	1.5	6	50	4
P6GJB-10082	R0.5	1.5	8	50	4
P6GJB-10102	R0.5	1.5	10	50	4
P6GJB-10122	R0.5	1.5	12	50	4
P6GJB-12082	R0.6	1.8	8	50	4
P6GJB-12102	R0.6	1.8	10	50	4
P6GJB-12122	R0.6	1.8	12	50	4
P6GJB-15062	R0.75	2	6	50	4
P6GJB-15082	R0.75	2	8	50	4
P6GJB-15102	R0.75	2	10	50	4
P6GJB-15122	R0.75	2	12	50	4
P6GJB-15162	R0.75	2	16	50	4
P6GJB-15202	R0.75	2	20	50	4
P6GJB-20062	R1.0	3	6	50	4
P6GJB-20082	R1.0	3	8	50	4
P6GJB-20102	R1.0	3	10	50	4
P6GJB-20122	R1.0	3	12	50	4
P6GJB-20162	R1.0	3	16	50	4
P6GJB-20202	R1.0	3	20	50	4
P6GJB-30082	R1.5	4	8	50	6

unit: mm

Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	Effective Length 有效長L2	O.A.L. 全長L3	Shank Dia 柄徑d2
P6GJB-30102	R1.5	4	10	50	6
P6GJB-30122	R1.5	4	12	50	6
P6GJB-30162	R1.5	4	16	50	6
P6GJB-30202	R1.5	4	20	60	6
P6GJB-30252	R1.5	4	25	60	6
P6GJB-40102	R2.0	5	10	60	6
P6GJB-40122	R2.0	5	12	60	6
P6GJB-40162	R2.0	5	16	60	6
P6GJB-40202	R2.0	5	20	75	6
P6GJB-40252	R2.0	5	25	75	6
P6GJB-40302	R2.0	5	30	75	6

unit: mm



P6GJE-2T 極超微粒深溝專用平刀2刃
Square End Mills-2 Flute

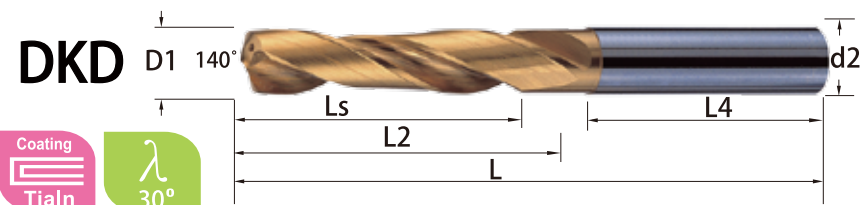


Type No. 型號	Diameter 直徑d1	Flute Length 刃長L1	Effective Length 有效長L2	O.A.L. 全長L3	Shank Dia 柄徑d2
P6GJE-04022	0.4	0.7	2	50	4
P6GJE-04042	0.4	0.7	4	50	4
P6GJE-05022	0.5	0.8	2	50	4
P6GJE-05042	0.5	0.8	4	50	4
P6GJE-05062	0.5	0.8	6	50	4
P6GJE-08042	0.8	1.2	4	50	4
P6GJE-08062	0.8	1.2	6	50	4
P6GJE-08082	0.8	1.2	8	50	4
P6GJE-10042	1.0	1.5	4	50	4
P6GJE-10062	1.0	1.5	6	50	4
P6GJE-10082	1.0	1.5	8	50	4
P6GJE-10102	1.0	1.5	10	50	4
P6GJE-10122	1.0	1.5	12	50	4
P6GJE-15062	1.5	2.3	6	50	4
P6GJE-15082	1.5	2.3	8	50	4
P6GJE-15102	1.5	2.3	10	50	4
P6GJE-15122	1.5	2.3	12	50	4
P6GJE-15162	1.5	2.3	16	50	4
P6GJE-20082	2.0	3	8	50	4
P6GJE-20102	2.0	3	10	50	4
P6GJE-20122	2.0	3	12	50	4
P6GJE-20162	2.0	3	16	50	4
P6GJE-20202	2.0	3	20	50	4
P6GJE-25102	2.5	3.5	10	50	4
P6GJE-25122	2.5	3.5	12	50	4
P6GJE-25162	2.5	3.5	16	50	4
P6GJE-25202	2.5	3.5	20	50	4
P6GJE-30102	3.0	4	10	50	6
P6GJE-30122	3.0	4	12	50	6
P6GJE-30162	3.0	4	16	50	6
P6GJE-30202	3.0	4	20	60	6
P6GJE-30252	3.0	4	25	60	6

unit: mm



中心內冷
Internal Coolant
3倍長
3XD



內冷式全鎢鋼鑽頭 Tungsten Carbide Coated Drill With Coolant Through Hole

Type No.	D1	d2	L2	L	L4	Ls
DKD-3031	3.1					
DKD-3032	3.2					
DKD-3033	3.3					
DKD-3034	3.4	4	22	62	36	14
DKD-3035	3.5					
DKD-3036	3.6					
DKD-3037	3.7					
DKD-3038	3.8					
DKD-3039	3.9	4	26	66	36	17
DKD-3040	4					
DKD-3041	4.1					
DKD-3042	4.2					
DKD-3043	4.3					
DKD-3044	4.4	6	26	66	36	17
DKD-3045	4.5					
DKD-3046	4.6					
DKD-3047	4.7					
DKD-3048	4.8					
DKD-3049	4.9					
DKD-3050	5					
DKD-3051	5.1					
DKD-3052	5.2					
DKD-3053	5.3					
DKD-3054	5.4	6	30	66	36	20
DKD-3055	5.5					
DKD-3056	5.6					
DKD-3057	5.7					
DKD-3058	5.8					
DKD-3059	5.9					
DKD-3060	6					
DKD-3061	6.1					
DKD-3062	6.2					
DKD-3063	6.3					
DKD-3064	6.4					
DKD-3065	6.5					
DKD-3066	6.6	8	38	79	36	24
DKD-3067	6.7					
DKD-3068	6.8					
DKD-3069	6.9					
DKD-3070	7					
DKD-3071	7.1					
DKD-3072	7.2					
DKD-3073	7.3					
DKD-3074	7.4					
DKD-3075	7.5	8	42	79	36	29
DKD-3076	7.6					
DKD-3077	7.7					
DKD-3078	7.8					
DKD-3079	7.9					
DKD-3080	8					

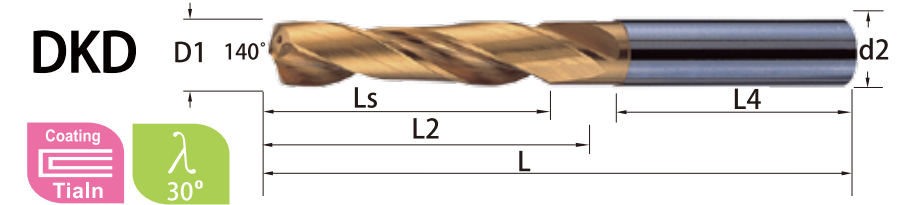
Type No.	D1	d2	L2	L	L4	Ls
DKD-3081	8.1					
DKD-3082	8.2					
DKD-3083	8.3					
DKD-3084	8.4					
DKD-3085	8.5	10	49	89	40	35
DKD-3086	8.6					
DKD-3087	8.7					
DKD-3088	8.8					
DKD-3089	8.9					
DKD-3090	9					
DKD-3091	9.1					
DKD-3092	9.2					
DKD-3093	9.3					
DKD-3094	9.4					
DKD-3095	9.5	10	49	89	40	35
DKD-3096	9.6					
DKD-3097	9.7					
DKD-3098	9.8					
DKD-3099	9.9					
DKD-3100	10					
DKD-3101	10.1					
DKD-3102	10.2					
DKD-3103	10.3					
DKD-3104	10.4					
DKD-3105	10.5	12	56	102	45	40
DKD-3106	10.6					
DKD-3107	10.7					
DKD-3108	10.8					
DKD-3109	10.9					
DKD-3110	11					
DKD-3111	11.1					
DKD-3112	11.2					
DKD-3113	11.3					
DKD-3114	11.4					
DKD-3115	11.5	12	56	102	45	40
DKD-3116	11.6					
DKD-3117	11.7					
DKD-3118	11.8					
DKD-3119	11.9					
DKD-3120	12					
DKD-3121	12.1					
DKD-3122	12.2					
DKD-3123	12.3					
DKD-3124	12.4					
DKD-3125	12.5	14	61	107	45	43
DKD-3126	12.6					
DKD-3127	12.7					
DKD-3128	12.8					
DKD-3129	12.9					
DKD-3130	13					

Type No.	D1	d2	L2	L	L4	Ls
DKD-3131	13.1					
DKD-3132	13.2					
DKD-3133	13.3					
DKD-3134	13.4					
DKD-3135	13.5	14	61	107	45	43
DKD-3136	13.6					
DKD-3137	13.7					
DKD-3138	13.8					
DKD-3139	13.9					
DKD-3140	14					
DKD-3141	14.1					
DKD-3142	14.2					
DKD-3143	14.3					
DKD-3144	14.4					
DKD-3145	14.5	16	65	115	48	45
DKD-3146	14.6					
DKD-3147	14.7					
DKD-3148	14.8					
DKD-3149	14.9					
DKD-3150	15					
DKD-3151	15.1					
DKD-3152	15.2					
DKD-3153	15.3					
DKD-3154	15.4					
DKD-3155	15.5	16	65	115	48	45
DKD-3156	15.6					
DKD-3157	15.7					
DKD-3158	15.8					
DKD-3159	15.9					
DKD-3160	16					
DKD-3165	16.5					
DKD-3170	17	18	73	123	48	51
DKD-3175	17.5					
DKD-3180	18					
DKD-3185	18.5					
DKD-3190	19	20	79	131	50	55
DKD-3195	19.5					
DKD-3200	20					

D1	Diameter	直徑
d2	Shank Diameter	柄直徑
L2	Flute Length	長度
L	O.A.L.	全長
L4	Shank Length	柄長
Ls	Length of Cut	切割長度



中心內冷
Internal Coolant
5倍長
5XD



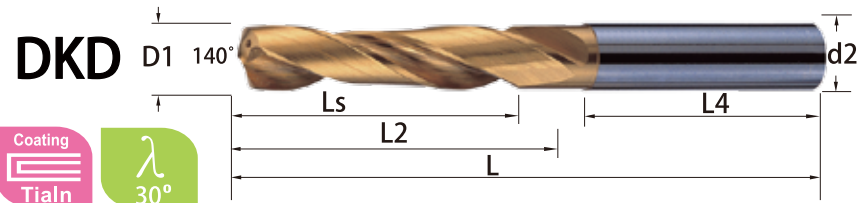
內冷式全鎢鋼鑽頭 Tungsten Carbide Coated Drill With Coolant Through Hole

Type No.	D1	d2	L2	L	L4	Ls
DKD-5031	3.1					
DKD-5032	3.2					
DKD-5033	3.3					
DKD-5034	3.4	4	28	66	36	23
DKD-5035	3.5					
DKD-5036	3.6					
DKD-5037	3.7					
DKD-5038	3.8					
DKD-5039	3.9	4	36	74	36	29
DKD-5040	4					
DKD-5041	4.1					
DKD-5042	4.2					
DKD-5043	4.3					
DKD-5044	4.4	6	36	74	36	29
DKD-5045	4.5					
DKD-5046	4.6					
DKD-5047	4.7					
DKD-5048	4.8					
DKD-5049	4.9					
DKD-5050	5					
DKD-5051	5.1					
DKD-5052	5.2					
DKD-5053	5.3					
DKD-5054	5.4	6	44	82	36	35
DKD-5055	5.5					
DKD-5056	5.6					
DKD-5057	5.7					
DKD-5058	5.8					
DKD-5059	5.9					
DKD-5060	6					
DKD-5061	6.1					
DKD-5062	6.2					
DKD-5063	6.3					
DKD-5064	6.4					
DKD-5065	6.5	8	53	91	36	43
DKD-5066	6.6					
DKD-5067	6.7					
DKD-5068	6.8					
DKD-5069	6.9					
DKD-5070	7					
DKD-5071	7.1					
DKD-5072	7.2					
DKD-5073	7.3					
DKD-5074	7.4					
DKD-5075	7.5	8	53	91	36	43
DKD-5076	7.6					
DKD-5077	7.7					
DKD-5078	7.8					
DKD-5079	7.9					
DKD-5080	8					

Type No.	D1	d2	L2	L	L4	Ls
DKD-5081	8.1					
DKD-5082	8.2					
DKD-5083	8.3					
DKD-5084	8.4					
DKD-5085	8.5	10	61	103	40	49
DKD-5086	8.6					
DKD-5087	8.7					
DKD-5088	8.8					
DKD-5089	8.9					
DKD-5090	9					
DKD-5091	9.1					
DKD-5092	9.2					
DKD-5093	9.3					
DKD-5094	9.4					
DKD-5095	9.5	10	61	103	40	49
DKD-5096	9.6					
DKD-5097	9.7					
DKD-5098	9.8					
DKD-5099	9.9					
DKD-5100	10					
DKD-5101	10.1					
DKD-5102	10.2					
DKD-5103	10.3					
DKD-5104	10.4					
DKD-5105	10.5	12	71	118	45	56
DKD-5106	10.6					
DKD-5107	10.7					
DKD-5108	10.8					
DKD-5109	10.9					
DKD-5110	11					
DKD-5111	11.1					
DKD-5112	11.2					
DKD-5113	11.3					
DKD-5114	11.4					
DKD-5115	11.5	12	71	118	45	56
DKD-5116	11.6					
DKD-5117	11.7					
DKD-5118	11.8					
DKD-5119	11.9					
DKD-5120	12					
DKD-5121	12.1					
DKD-5122	12.2					
DKD-5123	12					



中心內冷
Internal Coolant
8倍長
8XD



內冷式全鎢鋼鑽頭 Tungsten Carbide Coated Drill With Coolant Through Hole

Type No.	D1	d2	L2	L	L4	Ls
DKD-8031	3.1					
DKD-8032	3.2					
DKD-8033	3.3					
DKD-8034	3.4	4	34	72	36	29
DKD-8035	3.5					
DKD-8036	3.6					
DKD-8037	3.7					
DKD-8038	3.8					
DKD-8039	3.9	4	43	81	36	36
DKD-8040	4					
DKD-8041	4.1					
DKD-8042	4.2					
DKD-8043	4.3					
DKD-8044	4.4	6	43	81	36	36
DKD-8045	4.5					
DKD-8046	4.6					
DKD-8047	4.7					
DKD-8048	4.8					
DKD-8049	4.9					
DKD-8050	5					
DKD-8051	5.1					
DKD-8052	5.2					
DKD-8053	5.3					
DKD-8054	5.4	6	57	95	36	48
DKD-8055	5.5					
DKD-8056	5.6					
DKD-8057	5.7					
DKD-8058	5.8					
DKD-8059	5.9					
DKD-8060	6					
DKD-8061	6.1					
DKD-8062	6.2					
DKD-8063	6.3					
DKD-8064	6.4					
DKD-8065	6.5					
DKD-8066	6.6	8	76	114	36	64
DKD-8067	6.7					
DKD-8068	6.8					
DKD-8069	6.9					
DKD-8070	7					
DKD-8071	7.1					
DKD-8072	7.2					
DKD-8073	7.3					
DKD-8074	7.4					
DKD-8075	7.5	8	76	114	36	64
DKD-8076	7.6					
DKD-8077	7.7					
DKD-8078	7.8					
DKD-8079	7.9					
DKD-8080	8					

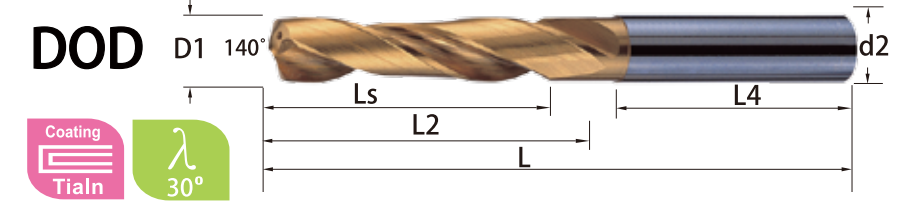
Type No.	D1	d2	L2	L	L4	Ls
DKD-8081	8.1					
DKD-8082	8.2					
DKD-8083	8.3					
DKD-8084	8.4					
DKD-8085	8.5					
DKD-8086	8.6	10	95	142	40	80
DKD-8087	8.7					
DKD-8088	8.8					
DKD-8089	8.9					
DKD-8090	9					
DKD-8091	9.1					
DKD-8092	9.2					
DKD-8093	9.3					
DKD-8094	9.4					
DKD-8095	9.5	10	95	142	40	80
DKD-8096	9.6					
DKD-8097	9.7					
DKD-8098	9.8					
DKD-8099	9.9					
DKD-8100	10					
DKD-8101	10.1					
DKD-8102	10.2					
DKD-8103	10.3					
DKD-8104	10.4					
DKD-8105	10.5	12	114	162	45	96
DKD-8106	10.6					
DKD-8107	10.7					
DKD-8108	10.8					
DKD-8109	10.9					
DKD-8110	11					
DKD-8111	11.1					
DKD-8112	11.2					
DKD-8113	11.3					
DKD-8114	11.4					
DKD-8115	11.5					
DKD-8116	11.6	12	114	162	45	96
DKD-8117	11.7					
DKD-8118	11.8					
DKD-8119	11.9					
DKD-8120	12					
DKD-8121	12.1					
DKD-8122	12.2					
DKD-8123	12.3					
DKD-8124	12.4					
DKD-8125	12.5	14	133	178	45	112
DKD-8126	12.6					
DKD-8127	12.7					
DKD-8128	12.8					
DKD-8129	12.9					
DKD-8130	13					

Type No.	D1	d2	L2	L	L4	Ls
DKD-8131	13.1					
DKD-8132	13.2					
DKD-8133	13.3					
DKD-8134	13.4					
DKD-8135	13.5	14	133	178	45	112
DKD-8136	13.6					
DKD-8137	13.7					
DKD-8138	13.8					
DKD-8139	13.9					
DKD-8140	14					
DKD-8141	14.1					
DKD-8142	14.2					
DKD-8143	14.3					
DKD-8144	14.4					
DKD-8145	14.5	16	152	203	48	128
DKD-8146	14.6					
DKD-8147	14.7					
DKD-8148	14.8					
DKD-8149	14.9					
DKD-8150	15					
DKD-8151	15.1					
DKD-8152	15.2					
DKD-8153	15.3					
DKD-8154	15.4					
DKD-8155	15.5	16	152	203	48	128
DKD-8156	15.6					
DKD-8157	15.7					
DKD-8158	15.8					
DKD-8159	15.9					
DKD-8160	16					
DKD-8165	16.5					
DKD-8170	17	18	171	222	48	144
DKD-8175	17.5					
DKD-8180	18					
DKD-8185	18.5					
DKD-8190	19	20	190	243	50	160
DKD-8195	19.5					
DKD-8200	20					

D1	Diameter	直徑
d2	Shank Diameter	柄直徑
L2	Flute Length	長度
L	O.A.L.	全長
L4	Shank Length	柄長
Ls	Length of Cut	切削長度



中心內冷
Internal Coolant
4倍長
4XD



內冷式全鎢鋼鑽頭 Tungsten Carbide Coated Drill With Coolant Through Hole

Type No.	D1	d2	L2	L	L4	Ls
DOD-4030	3	3	18	52	32	13
DOD-4031	3.1					
DOD-4032	3.2					
DOD-4033	3.3	4	20	56	34	15
DOD-4034	3.4					
DOD-4035	3.5					
DOD-4036	3.6					
DOD-4037	3.7					
DOD-4038	3.8	4	22	58	34	16
DOD-4039	3.9					
DOD-4040	4					
DOD-4041	4.1					
DOD-4042	4.2					
DOD-4043	4.3					
DOD-4044	4.4					
DOD-4045	4.5	5	28	66	36	20
DOD-4046	4.6					
DOD-4047	4.7					
DOD-4048	4.8					
DOD-4049	4.9					
DOD-4050	5					
DOD-4051	5.1					
DOD-4052	5.2					
DOD-4053	5.3					
DOD-4054	5.4					
DOD-4055	5.5	6	34	72	36	25
DOD-4056	5.6					
DOD-4057	5.7					
DOD-4058	5.8					
DOD-4059	5.9					
DOD-4060	6					
DOD-4061	6.1					
DOD-4062	6.2					
DOD-4063	6.3					
DOD-4064	6.4					
DOD-4065	6.5	7	38	76	36	28
DOD-4066	6.6					
DOD-4067	6.7					
DOD-4068	6.8					
DOD-4069	6.9					
DOD-4070	7					
DOD-4071	7.1					
DOD-4072	7.2					
DOD-4073	7.3					
DOD-4074	7.4					
DOD-4075	7.5	8	44	82	36	32
DOD-4076	7.6					
DOD-4077	7.7					
DOD-4078	7.8					
DOD-4079	7.9					
DOD-4080	8					

Type No.	D1	d2	L2	L	L4	Ls
DOD-4081	8.1					
DOD-4082	8.2					
DOD-4083	8.3					
DOD-4084	8.4					
DOD-4085	8.5	9	50	92	40	38
DOD-4086	8.6					
DOD-4087	8.7					
DOD-4088	8.8					
DOD-4089	8.9					
DOD-4090	9					
DOD-4091	9.1					
DOD-4092	9.2					
DOD-4093	9.3					
DOD-4094	9.4					
DOD-4095	9.5	10	58	100	40	43
DOD-4096	9.6					
DOD-4097	9.7					
DOD-4098	9.8					
DOD-4099	9.9					
DOD-4100	10					
DOD-4101	10.1					
DOD-4102	10.2					
DOD-4103	10.3					
DOD-4104	10.4					
DOD-4105	10.5	11	60	107	45	45
DOD-4106	10.6					
DOD-4107	10.7					
DOD-4108	10.8					
DOD-4109	10.9					
DOD-4110	11					
DOD-4111	11.1					
DOD-4112	11.2					
DOD-4113	11.3					
DOD-4114	11.4					
DOD-4115	11.5	12	63	110	45	47
DOD-4116	11.6					
DOD-4117	11.7					
DOD-4118	11.8					
DOD-4119	11.9					
DOD-4120	12					
DOD-4121	12.1					
DOD-4122	12.2					

鑽頭
DRILLS

鑽頭
DRILLS

V2 奈米極細超微粒
NANO SUPER MICRO GRAIN

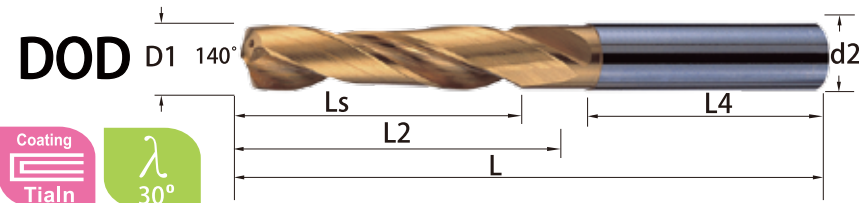
G4 極細超微粒
SUPER MICRO GRAIN

P6 極超微粒
MICRO GRAIN

P6 極超微粒
(Soft Materials Cutting)



中心內冷
Internal Coolant
6倍長
6XD



內冷式全鎢鋼鑽頭 Coolant Through Hole Tungsten Carbide Drill With

Type No.	D1	d2	L2	L	L4	Ls
DOD-6030	3	3	24	58	32	19
DOD-6031	3.1					
DOD-6032	3.2					
DOD-6033	3.3	4	28	64	34	21
DOD-6034	3.4					
DOD-6035	3.5					
DOD-6036	3.6					
DOD-6037	3.7					
DOD-6038	3.8	4	30	66	34	24
DOD-6039	3.9					
DOD-6040	4					
DOD-6041	4.1					
DOD-6042	4.2					
DOD-6043	4.3					
DOD-6044	4.4					
DOD-6045	4.5	5	38	76	36	30
DOD-6046	4.6					
DOD-6047	4.7					
DOD-6048	4.8					
DOD-6049	4.9					
DOD-6050	5					
DOD-6051	5.1					
DOD-6052	5.2					
DOD-6053	5.3					
DOD-6054	5.4					
DOD-6055	5.5	6	45	83	36	36
DOD-6056	5.6					
DOD-6057	5.7					
DOD-6058	5.8					
DOD-6059	5.9					
DOD-6060	6					
DOD-6061	6.1					
DOD-6062	6.2					
DOD-6063	6.3					
DOD-6064	6.4					
DOD-6065	6.5	7	52	90	36	42
DOD-6066	6.6					
DOD-6067	6.7					
DOD-6068	6.8					
DOD-6069	6.9					
DOD-6070	7					
DOD-6071	7.1					
DOD-6072	7.2					
DOD-6073	7.3					
DOD-6074	7.4					
DOD-6075	7.5	8	60	98	36	48
DOD-6076	7.6					
DOD-6077	7.7					
DOD-6078	7.8					
DOD-6079	7.9					
DOD-6080	8					

Type No.	D1	d2	L2	L	L4	Ls
DOD-6081	8.1					
DOD-6082	8.2					
DOD-6083	8.3					
DOD-6084	8.4					
DOD-6085	8.5	9	66	108	40	54
DOD-6086	8.6					
DOD-6087	8.7					
DOD-6088	8.8					
DOD-6089	8.9					
DOD-6090	9					
DOD-6091	9.1					
DOD-6092	9.2					
DOD-6093	9.3					
DOD-6094	9.4					
DOD-6095	9.5	10	75	117	40	60
DOD-6096	9.6					
DOD-6097	9.7					
DOD-6098	9.8					
DOD-6099	9.9					
DOD-6100	10					
DOD-6101	10.1					
DOD-6102	10.2					
DOD-6103	10.3					
DOD-6104	10.4					
DOD-6105	10.5	11	83	130	45	67
DOD-6106	10.6					
DOD-6107	10.7					
DOD-6108	10.8					
DOD-6109	10.9					
DOD-6110	11					
DOD-6111	11.1					
DOD-6112	11.2					
DOD-6113	11.3					
DOD-6114	11.4					
DOD-6115	11.5	12	90	137	45	72
DOD-6116	11.6					
DOD-6117	11.7					
DOD-6118	11.8					
DOD-6119	11.9					
DOD-6120	12					
DOD-6121	12.1					
DOD-6122	12.2					
DOD-6123	12.3					
DOD-6124	12.4					
DOD-6125	12.5	13	98	145	45	78
DOD-6126	12.6					
DOD-6127	12.7					
DOD-6128	12.8					
DOD-6129	12.9					
DOD-6130	13					

Type No.	D1	d2	L2	L	L4	Ls
DOD-6131	13.1					
DOD-6132	13.2					
DOD-6133	13.3					
DOD-6134	13.4					
DOD-6135	13.5	14	105	152	45	85
DOD-6136	13.6					
DOD-6137	13.7					
DOD-6138	13.8					
DOD-6139	13.9					
DOD-6140	14					
DOD-6141	14.1					
DOD-6142	14.2					
DOD-6143	14.3					
DOD-6144	14.4					
DOD-6145	14.5	15	115	165	48	95
DOD-6146	14.6					
DOD-6147	14.7					
DOD-6148	14.8					
DOD-6149	14.9					
DOD-6150	15					
DOD-6155	15.5	16	115	165	48	95
DOD-6160	16					
DOD-6165	16.5	17	130	180	48	105
DOD-6170	17					
DOD-6175	17.5	18	130	180	48	105
DOD-6180	18					
DOD-6185	18.5	19	150	202	50	120
DOD-6190	19					
DOD-6195	19.5	20	150	202	50	120
DOD-6200	20					

D1	Diameter	直徑
d2	Shank Diameter	柄直徑
L2	Flute Length	長度
L	O.A.L.	全長
L4	Shank Length	柄長
Ls	Length of Cut	切割長度



3倍長
3XD

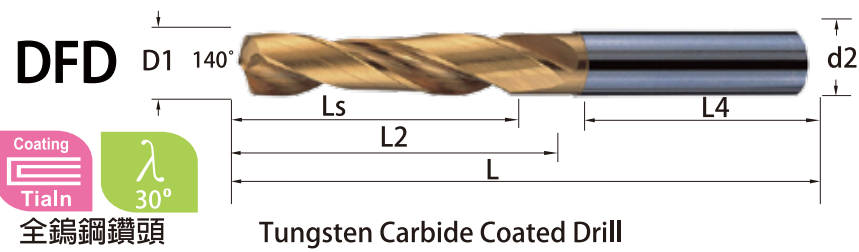
Type No.	D1	d2	L2	L	L4	Ls
DFD-3031	3.1					
DFD-3032	3.2					
DFD-3033	3.3					
DFD-3034	3.4	4	22	62	36	14
DFD-3035	3.5					
DFD-3036	3.6					
DFD-3037	3.7					
DFD-3038	3.8					
DFD-3039	3.9	4	26	66	36	17
DFD-3040	4					
DFD-3041	4.1					
DFD-3042	4.2					
DFD-3043	4.3					
DFD-3044	4.4	6	26	66	36	17
DFD-3045	4.5					
DFD-3046	4.6					
DFD-3047	4.7					
DFD-3048	4.8					
DFD-3049	4.9					
DFD-3050	5					
DFD-3051	5.1					
DFD-3052	5.2					
DFD-3053	5.3					
DFD-3054	5.4	6	30	66	36	20
DFD-3055	5.5					
DFD-3056	5.6					
DFD-3057	5.7					
DFD-3058	5.8					
DFD-3059	5.9					
DFD-3060	6					
DFD-3061	6.1					
DFD-3062	6.2					
DFD-3063	6.3					
DFD-3064	6.4					
DFD-3065	6.5	8	38	79	36	24
DFD-3066	6.6					
DFD-3067	6.7					
DFD-3068	6.8					
DFD-3069	6.9					
DFD-3070	7					
DFD-3071	7.1					
DFD-3072	7.2					
DFD-3073	7.3					
DFD-3074	7.4					
DFD-3075	7.5	8	42	79	36	29
DFD-3076	7.6					
DFD-3077	7.7					
DFD-3078	7.8					
DFD-3079	7.9					
DFD-3080	8					

Type No.	D1	d2	L2	L	L4	Ls
DFD-3081	8.1					
DFD-3082	8.2					
DFD-3083	8.3					
DFD-3084	8.4					
DFD-3085	8.5	10	49	89	40	35
DFD-3086	8.6					
DFD-3087	8.7					
DFD-3088	8.8					
DFD-3089	8.9					
DFD-3090	9					
DFD-3091	9.1					
DFD-3092	9.2					
DFD-3093	9.3					
DFD-3094	9.4					
DFD-3095	9.5	10	49	89	40	35
DFD-3096	9.6					
DFD-3097	9.7					
DFD-3098	9.8					
DFD-3099	9.9					
DFD-3100	10					
DFD-3101	10.1					
DFD-3102	10.2					
DFD-3103	10.3					
DFD-3104	10.4					
DFD-3105	10.5	12	56	102	45	40
DFD-3106	10.6					
DFD-3107	10.7					
DFD-3108	10.8					
DFD-3109	10.9					
DFD-3110	11					
DFD-3111	11.1					
DFD-3112	11.2					
DFD-3113	11.3					
DFD-3114	11.4					
DFD-3115	11.5	12	56	102	45	40
DFD-3116	11.6					
DFD-3117	11.7					
DFD-3118	11.8					
DFD-3119	11.9					
DFD-3120	12					
DFD-3121	12.1					
DFD-3122	12.2					
DFD-3123	12.3					
DFD-3124	12.4					
DFD-3125	12.5	14	61	107	45	43
DFD-3126	12.6					
DFD-3127	12.7					
DFD-3128	12.8					
DFD-3129	12.9					
DFD-3130	13					

Type No.	D1	d2	L2	L	L4	Ls
DFD-3131	13.1					
DFD-3132	13.2					
DFD-3133	13.3					
DFD-3134	13.4					



5倍長
5XD

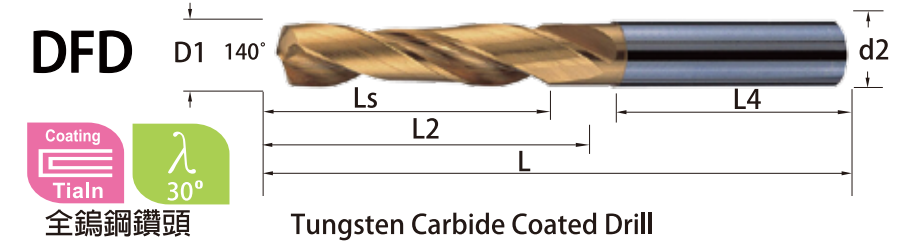


Coating
TiAlN
全鎢鋼鑽頭

Tungsten Carbide Coated Drill



8倍長
8XD



Coating
TiAlN
全鎢鋼鑽頭

Tungsten Carbide Coated Drill

Type No.	D1	d2	L2	L	L4	Ls
DFD-5031	3.1					
DFD-5032	3.2					
DFD-5033	3.3					
DFD-5034	3.4	4	28	66	36	23
DFD-5035	3.5					
DFD-5036	3.6					
DFD-5037	3.7					
DFD-5038	3.8					
DFD-5039	3.9	4	36	66	34	24
DFD-5040	4					
DFD-5041	4.1					
DFD-5042	4.2					
DFD-5043	4.3					
DFD-5044	4.4	6	36	74	36	29
DFD-5045	4.5					
DFD-5046	4.6					
DFD-5047	4.7					
DFD-5048	4.8					
DFD-5049	4.9					
DFD-5050	5					
DFD-5051	5.1					
DFD-5052	5.2					
DFD-5053	5.3					
DFD-5054	5.4	6	44	82	36	35
DFD-5055	5.5					
DFD-5056	5.6					
DFD-5057	5.7					
DFD-5058	5.8					
DFD-5059	5.9					
DFD-5060	6					
DFD-5061	6.1					
DFD-5062	6.2					
DFD-5063	6.3					
DFD-5064	6.4					
DFD-5065	6.5	8	53	91	36	43
DFD-5066	6.6					
DFD-5067	6.7					
DFD-5068	6.8					
DFD-5069	6.9					
DFD-5070	7					
DFD-5071	7.1					
DFD-5072	7.2					
DFD-5073	7.3					
DFD-5074	7.4					
DFD-5075	7.5	8	53	91	36	43
DFD-5076	7.6					
DFD-5077	7.7					
DFD-5078	7.8					
DFD-5079	7.9					
DFD-5080	8					

Type No.	D1	d2	L2	L	L4	Ls
DFD-5081	8.1					
DFD-5082	8.2					
DFD-5083	8.3					
DFD-5084	8.4					
DFD-5085	8.5	10	61	103	40	49
DFD-5086	8.6					
DFD-5087	8.7					
DFD-5088	8.8					
DFD-5089	8.9					
DFD-5090	9					
DFD-5091	9.1					
DFD-5092	9.2					
DFD-5093	9.3					
DFD-5094	9.4					
DFD-5095	9.5	10	61	103	40	49
DFD-5096	9.6					
DFD-5097	9.7					
DFD-5098	9.8					
DFD-5099	9.9					
DFD-5100	10					
DFD-5101	10.1					
DFD-5102	10.2					
DFD-5103	10.3					
DFD-5104	10.4					
DFD-5105	10.5	12	71	118	45	56
DFD-5106	10.6					
DFD-5107	10.7					
DFD-5108	10.8					
DFD-5109	10.9					
DFD-5110	11					
DFD-5111	11.1					
DFD-5112	11.2					
DFD-5113	11.3					
DFD-5114	11.4					
DFD-5115	11.5	12	71	118	45	56
DFD-5116	11.6					
DFD-5117	11.7					
DFD-5118	11.8					
DFD-5119	11.9					
DFD-5120	12					
DFD-5121	12.1					
DFD-5122	12.2					
DFD-5123	12.3					
DFD-5124	12.4					
DFD-5125	12.5	14	77	124	45	60
DFD-5126	12.6					
DFD-5127	12.7					
DFD-5128	12.8					
DFD-5129	12.9					
DFD-5130	13					

Type No.	D1	d2	L2	L	L4	Ls
DFD-5131	13.1					
DFD-5132	13.2					
DFD-5133	13.3					
DFD-5134	13.4					
DFD-5135	13.5	14	77	124	45	60
DFD-5136	13.6					
DFD-5137	13.7					
DFD-5138	13.8					
DFD-5139	13.9					
DFD-5140	14					
DFD-5141	14.1					
DFD-5142	14.2					
DFD-5143	14.3					
DFD-5144	14.4					
DFD-5145	14.5	16	83	133	48	63
DFD-5146	14.6					
DFD-5147	14.7					
DFD-5148	14.8					
DFD-5149	14.9					
DFD-5150	15					
DFD-5151	15.1					
DFD-5152	15.2					
DFD-5153	15.3					
DFD-5154	15.4					
DFD-5155	15.5	16	83	133	48	63
DFD-5156	15.6					
DFD-5157	15.7					
DFD-5158	15.8					
DFD-5159	15.9					
DFD-5160	16					
DFD-5165	16.5					
DFD-5170	17	18	93	143	48	71
DFD-5175	17.5					
DFD-5180	18					
DFD-5185	18.5	20	101	153	50	77
DFD-5190	19					
DFD-5195	19.5					
DFD-5200	20					

D1	Diameter	直徑
d2	Shank Diameter	柄直徑
L2	Flute Length	長度
L	O.A.L.	全長
L4	Shank Length	柄長
Ls	Length of Cut	切割長度

Type No.	D1	d2	L2	L	L4	Ls
DFD-8031	3.1					
DFD-8032	3.2					
DFD-8033	3.3					
DFD-8034	3.4	4	34	72	36	29
DFD-8035	3.5					
DFD-8036	3.6					
DFD-8037	3.7					
DFD-8038	3.8					
DFD-8039	3.9	4	43	81	36	36
DFD-8040	4					
DFD-8041	4.1					
DFD-8042	4.2					
DFD-8043	4.3					
DFD-8044	4.4	6	43	81	36	36
DFD-8045	4.5					
DFD-8046	4.6					
DFD-8047	4.7					
DFD-8048	4.8					
DFD-8049	4.9					
DFD-8050	5					
DFD-8051	5.1					
DFD-8052	5.2					
DFD-8053	5.3					
DFD-8054	5.4	6	57	95	36	48
DFD-8055	5.5					
DFD-8056	5.6					
DFD-8057	5.7					
DFD-8058	5.8					
DFD-8059	5.9					
DFD-8060	6					
DFD-8061	6.1					
DFD-8062	6.2					
DFD-8063	6.3					
DFD-8064	6.4					
DFD-8065	6.5	8	76	114	36	64
DFD-8066	6.6					
DFD-8067	6.7					
DFD-8068	6.8					
DFD-8069	6.9					
DFD-8070	7					
DFD-8071	7.1					
DFD-8072	7.2					
DFD-8073	7.3					
DFD-8074	7.4					
DFD-8075	7.5	8	76	114	36	64
DFD-8076	7.6					
DFD-8077	7.7					
DFD-8078	7.8					
DFD-8079	7.9					
DFD-8080	8					

Type No.	D1	d2	L2	L	L4	Ls
DFD-8081	8.1					
DFD-8082	8.2					
DFD-8083	8.3					
DFD-8084	8.4					
DFD-8085	8.5	10	95	142	40	80
DFD-8086	8.6					
DFD-8087	8.7					
DFD-8088	8.8					
DFD-8089	8.9					
DFD-8090	9					
DFD-8091	9.1					
DFD-8092	9.2					
DFD-8093	9.3					
DFD-8094	9.4					
DFD-8095	9.5	10	95	142	40	80
DFD-8096	9.6					
DFD-8097	9.7					
DFD-8098	9.8					
DFD-8099	9.9					
DFD-8100	10					
DFD-8101	10.1					
DFD-8102	10.2					
DFD-8103	10.3					
DFD-8104	10.4					
DFD-8105	10.5	12	114	162	45	96
DFD-8106	10.6					
DFD-8107	10.7					
DFD-8108	10.8					
DFD-8109	10.9					
DFD-8110	11					
DFD-8111	11.1					
DFD-8112	11.2					
DFD-8113	11.3					
DFD-8114	11.4					
DFD-8115	11.5	12	114	162	45	96
DFD-8116	11.6					
DFD-8117	11.7					
DFD-8118	11.8					
DFD-8119	11.9					
DFD-8120	12					
DFD-8121	12.1					
DFD-8122	12.2					
DFD-8123	12.3					

鑽頭 DRILLS



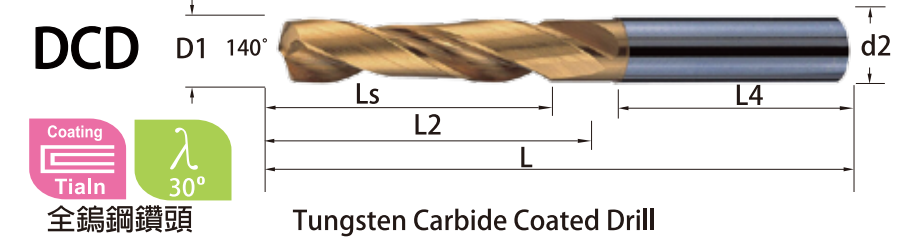
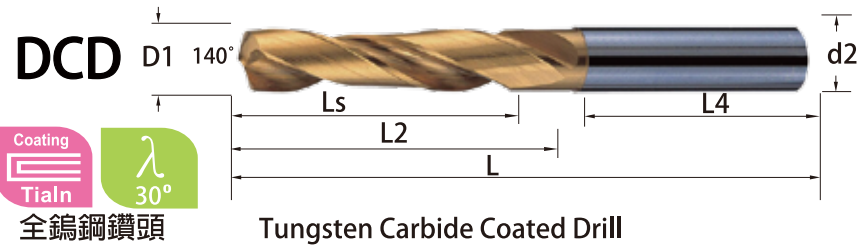
鑽頭 DRILLS

V2 奈米極細超微粒 NANO SUPER MICRO GRAIN

G4 極細超微粒 SUPER MICRO GRAIN

P6 極超微粒 MICRO GRAIN

P6 極超微粒 (Soft Materials Cutting)



Type No.	D1	d2	L2	L	L4	Ls
DCD-4010	1					
DCD-4011	1.1	1.5	7	38	28	5
DCD-4012	1.2	1.5	8	38	28	6
DCD-4013	1.3	1.5	9	38	29	7
DCD-4014	1.4	1.5	9	38	29	7
DCD-4015	1.5	2	10	42	30	8
DCD-4016	1.6	2	10	42	30	8
DCD-4017	1.7	2	12	42	30	9
DCD-4018	1.8	2	12	42	30	9
DCD-4019	1.9	2	12	42	30	9
DCD-4020	2					
DCD-4021	2.1					
DCD-4022	2.2					
DCD-4023	2.3	3	14	46	32	10
DCD-4024	2.4					
DCD-4025	2.5					
DCD-4026	2.6					
DCD-4027	2.7					
DCD-4028	2.8	3	18	52	32	13
DCD-4029	2.9					
DCD-4030	3					
DCD-4031	3.1					
DCD-4032	3.2					
DCD-4033	3.3	4	20	56	34	15
DCD-4034	3.4					
DCD-4035	3.5					
DCD-4036	3.6					
DCD-4037	3.7					
DCD-4038	3.8	4	22	58	34	16
DCD-4039	3.9					
DCD-4040	4					
DCD-4041	4.1					
DCD-4042	4.2					
DCD-4043	4.3					
DCD-4044	4.4					
DCD-4045	4.5	5	28	66	36	20
DCD-4046	4.6					
DCD-4047	4.7					
DCD-4048	4.8					
DCD-4049	4.9					
DCD-4050	5					
DCD-4051	5.1					
DCD-4052	5.2					
DCD-4053	5.3					
DCD-4054	5.4					
DCD-4055	5.5	6	34	72	36	25
DCD-4056	5.6					
DCD-4057	5.7					
DCD-4058	5.8					
DCD-4059	5.9					
DCD-4060	6					

Type No.	D1	d2	L2	L	L4	Ls
DCD-4061	6.1					
DCD-4062	6.2					
DCD-4063	6.3					
DCD-4064	6.4					
DCD-4065	6.5	7	38	76	36	28
DCD-4066	6.6					
DCD-4067	6.7					
DCD-4068	6.8					
DCD-4069	6.9					
DCD-4070	7					
DCD-4071	7.1					
DCD-4072	7.2					
DCD-4073	7.3					
DCD-4074	7.4					
DCD-4075	7.5	8	44	82	36	32
DCD-4076	7.6					
DCD-4077	7.7					
DCD-4078	7.8					
DCD-4079	7.9					
DCD-4080	8					
DCD-4081	8.1					
DCD-4082	8.2					
DCD-4083	8.3					
DCD-4084	8.4					
DCD-4085	8.5	9	50	92	40	38
DCD-4086	8.6					
DCD-4087	8.7					
DCD-4088	8.8					
DCD-4089	8.9					
DCD-4090	9					
DCD-4091	9.1					
DCD-4092	9.2					
DCD-4093	9.3					
DCD-4094	9.4					
DCD-4095	9.5	10	58	100	40	43
DCD-4096	9.6					
DCD-4097	9.7					
DCD-4098	9.8					
DCD-4099	9.9					
DCD-4100	10					
DCD-4101	10.1					
DCD-4102	10.2					
DCD-4103	10.3					
DCD-4104	10.4					
DCD-4105	10.5	11	60	107	45	45
DCD-4106	10.6					
DCD-4107	10.7					
DCD-4108	10.8					
DCD-4109	10.9					
DCD-4110	11					

Type No.	D1	d2	L2	L	L4	Ls
DCD-4111	11.1					
DCD-4112	11.2					
DCD-4113	11.3					
DCD-4114	11.4					
DCD-4115	11.5	12	63	110	45	47
DCD-4116	11.6					
DCD-4117	11.7					
DCD-4118	11.8					
DCD-4119	11.9					
DCD-4120	12					
DCD-4121	12.1					
DCD-4122	12.2					
DCD-4123	12.3					
DCD-4124	12.4					
DCD-4125	12.5	13	71	118	45	54
DCD-4126	12.6					
DCD-4127	12.7					
DCD-4128	12.8					
DCD-4129	12.9					
DCD-4130	13					
DCD-4131	13.1					
DCD-4132	13.2					
DCD-4133	13.3					
DCD-4134	13.4					
DCD-4135	13.5	14	77	124	45	58
DCD-4136	13.6					
DCD-4137	13.7					
DCD-4138	13.8					
DCD-4139	13.9					
DCD-4140	14					
DCD-4141	14.1					
DCD-4142	14.2					
DCD-4143	14.3					
DCD-4144	14.4					
DCD-4145	14.5	15	83	133	48	63
DCD-4146	14.6					
DCD-4147	14.7					
DCD-4148	14.8					
DCD-4149	14.9					
DCD-4150	15					
DCD-4155	15.5	16	83	133	48	63
DCD-4160	16					
DCD-4165	16.5	17	93	143	48	71
DCD-4170	17					
DCD-4175	17.5	18	93	143	48	71
DCD-4180	18					
DCD-4185	18.5	19	101	153	50	77
DCD-4190	19					
DCD-4195	19.5	20	101	153	50	77
DCD-4200	20					

D1	Diameter	直徑
d2	Shank Diameter	柄直徑
L2	Flute Length	長度
L	O.A.L.	全長
L4	Shank Length	柄長
Ls	Length of Cut	切割長度

Type No.	D1	d2	L2	L	L4	Ls
DCD-6010	1	1.5	9	40	28	7
DCD-6011	1.1	1.5	11	40	28	9
DCD-6012	1.2	1.5	12	40	28	10
DCD-6013	1.3	1.5	12	40	28	10
DCD-6014	1.4	1.5	12	40	28	10
DCD-6015	1.5	2	14	46	30	11
DCD-6016	1.6	2	14	46	30	11
DCD-6017	1.7	2	16	48	30	13
DCD-6018	1.8	2	16	48	30	13
DCD-6019	1.9	2	16	48	30	13
DCD-6020	2					
DCD-6021	2.1					
DCD-6022	2.2					
DCD-6023	2.3	3	20	52	32	16
DCD-6024	2.4					
DCD-6025	2.5					
DCD-6026	2.6					
DCD-6027	2.7					
DCD-6028	2.8	3	24	58	32	19
DCD-6029	2.9					
DCD-6030	3					
DCD-6031	3.1					
DCD-6032	3.2					
DCD-6033	3.3	4	28	64	34	21
DCD-6034	3.4					
DCD-6035	3.5					
DCD-6036	3.6					
DCD-6037	3.7					
DCD-6038	3.8	4	30	66	34	24
DCD-6039	3.9					
DCD-6040	4					
DCD-6041	4.1					
DCD-6042	4.2					
DCD-6043	4.3					
DCD-6044	4.4					
DCD-6045	4.5	5	38	76	36	30
DCD-6046	4.6					
DCD-6047	4.7					
DCD-6048	4.8					
DCD-6049	4.9					
DCD-6050	5					
DCD-6051	5.1					
DCD-6052	5.2					
DCD-6053	5.3					
DCD-6054	5.4					
DCD-6055	5.5	6	45	83	36	36
DCD-6056	5.6					
DCD-6057	5.7					
DCD-6058	5.8					
DCD-6059	5.9					
DCD-6060	6					

Type No.	D1	d2	L2	L	L4	Ls
DCD-6061	6.1					
DCD-6062	6.2					
DCD-6063	6.3					
DCD-6064	6.4					
DCD-6065	6.5	7	52	90	36	42
DCD-6066	6.6					
DCD-6067	6.7					
DCD-6068	6.8					
DCD-6069	6.9					
DCD-6070	7					
DCD-6071	7.1					
DCD-6072	7.2					
DCD-6073	7.3					
DCD-6074	7.4					
DCD-6075	7.5	8	60	98	36	48
DCD-6076	7.6					
DCD-6077	7.7					
DCD-6078	7.8					
DCD-6079	7.9					
DCD-6080	8					
DCD-6081	8.1					
DCD-6082	8.2					
DCD-6083	8.3					
DCD-6084	8.4					
DCD-6085	8.5	9	66	108	40	54
DCD-6086	8.6					
DCD-6087	8.7					

定位鑽/鋸片

SPOTTING DRILLS
SAWBLADE

V2 奈米極細超微粒
NANO SUPER MICRO GRAIN

G4 極細超微粒
SUPER MICRO GRAIN

P6 極超微粒
MICRO GRAIN

P6 極超微粒
(Soft Materials Cutting)

定位鑽/鋸片
SPOTTING DRILLS
SAWBLADE



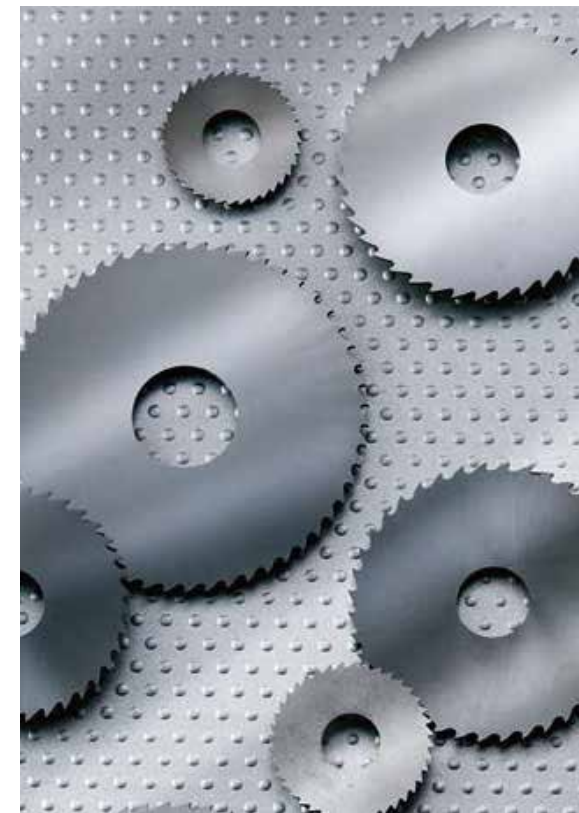
60度, 90度, 120度 2刃定位鑽

60°, 90°, 120°, Spotting Drills

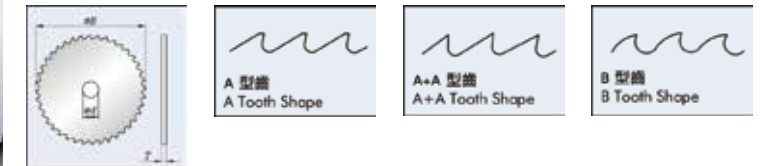


Type No.	d1	L1	L	d2
P6P1-020	2	4	50	2
P6P1-030	3	6	50	3
P6P1-040	4	8	50	4
P6P1-050	5	10	50	5
P6P1-060	6	12	50	6
P6P1-080	8	16	60	8
P6P1-100	10	20	75	10
P6P1-120	12	20	75	12
P6P1-160	16	25	100	16
P6P1-200	20	25	100	20
P6P2-030	3	6	75	3
P6P2-040	4	8	75	4
P6P2-050	5	10	75	5
P6P2-060	6	12	75	6
P6P2-080	8	16	75	8
P6P3-040	4	8	100	4
P6P3-050	5	10	100	5
P6P3-060	6	12	100	6
P6P3-080	8	16	100	8
P6P3-100	10	20	100	10
P6P3-120	12	20	100	12
P6P4-060	6	12	150	6
P6P4-080	8	16	150	8
P6P4-100	10	20	150	10
P6P4-120	12	20	150	12
P6P4-160	16	25	150	16
P6P4-200	20	25	150	20
P6P5-060	6	12	200	6
P6P5-080	8	16	200	8
P6P5-100	10	20	200	10
P6P5-120	12	20	200	12
P6P5-160	16	25	200	16
P6P5-200	20	25	200	20

d1	Diameter	直徑
d2	Shank Diameter	柄直徑
L1	Flute Length	刃長
L	O.A.L.	全長

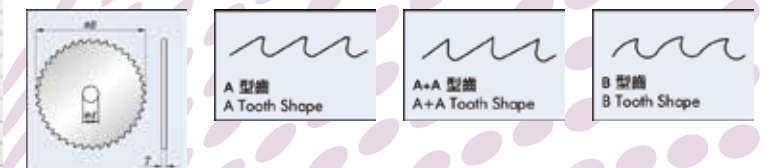


P6CA 全鎢鋼鋸片 Tungsten Circular Sawblade



外徑(D) Outside Dia	20	25	35	40	45	50	60	75	85	100	125
孔徑(d) Hole Dia	6	6	8	8	12.7	12.7	12.7	25.4	25.4	25.4	25.4
厚度(T) Thickness	Z齒數 Teeth Number										
0.3	30	30	40	40	40						
0.4	30	30	40	40	40						
0.5	30	30	40	40	40	54	64				
0.6	30	30	40	40	40	54	64	64	64	72	86
0.7	30	30	40	40	40	54	64	64	64	72	86
0.8	30	30	40	40	40	54	64	64	64	72	86
0.9	30	30	40	40	40	54	64	64	64	72	86
1.0	30	30	40	40	40	54	64	64	64	72	86
1.2	30	30	40	40	40	54	64	64	64	72	86
1.4	30	30	40	40	40	54	64	64	64	72	86
1.8	30	30	40	40	40	54	64	64	64	72	86
2.0	30	30	40	40	40	54	64	64	64	72	86
2.5	特殊規格外徑, 孔徑, 齒數, 齒型, 厚度可訂製。										
3.0	Custom outside diameter, hole diameter, teeth number,										
3.5	tooth shape, and blade thickness are available upon										
4.0	request.										

H6CA HSS小徑槽鋸片 HSS Small Diameter Slotting Circular Sawblade



外徑(D) Outside Dia	45	50	75	100	125	150
孔徑(d) Hole Dia	12.7	12.7	25.4	25.4	25.4	25.4
厚度(T) Thickness	Z齒數 Teeth Number					
0.5	64	64	64	72		
0.7	64	64	64	72	86	
0.8	64	64	64	72	86	100
1.0	64	64	64	72	86	100
1.5			54	54	56	86
2.0			54	54	56	86
2.5	特殊規格外徑, 孔徑, 齒數, 齒型, 厚度可訂製。					
3.0	Custom outside diameter, hole diameter, teeth number,					
3.5	tooth shape, and blade thickness are available upon					
4.0	request.					



技術資料 TECHNICAL DATA

硬度對照表 Comparison Chart Scale For Hardness

布氏硬度 Brinell Hardness		Diamond Pyramid Hardness				洛氏硬度 Rockwell Hardness				Shore Scleroscope Hardness	Approx. Tensile Strength
Standard 10mm Ball	Halt-Gren 10mm Ball	Tungsten 10mm Ball	Number, Vickers	A Scale 60Kgf	B Scale 100Kgf	C Scale 150Kgf	D Scale 100Kgf	Number	Number	Number	N/mm ²
標準球	球	碳化鎢球	維氏硬度	鑽石圓錐	1/16in球	鑽石圓錐	鑽石圓錐	蕭氏硬度	蕭氏硬度	蕭氏硬度	(近似值)
HB	HB	HV	HRA	HRB	HRC	HRD	HS	HS	HS	HS	N/mm ²
		940	85.6		68.0	76.9	97				
		920	85.3		67.5	76.5	96				
		900	85.0		67.0	76.1	95				
		767	880	84.7	66.4	75.7	93				
		757	860	84.4	65.9	75.3	92				
		745	840	84.1	65.3	74.8	91				
		733	820	83.8	64.7	74.3	90				
		722	800	83.4	64.0	73.8	88				
		712									
		710	780	83.0	63.3	73.3	87				
		698	760	82.6	62.5	72.6	86				
		684	740	82.2	61.8	72.1	84				
		682	737	82.2	61.7	72.0	84				
		670	720	81.8	61.0	71.5	83				
		656	700	81.3	60.1	70.8	81				
		653	697	81.2	60.0	70.7	81				
		647	690	81.1	59.7	70.5					
		638	680	80.8	59.2	70.1	80				
		630	670	80.6	58.8	69.8					
		627	667	80.5	58.7	69.7	79				
		601		677	80.7	59.1	70.0				
		601	640	79.8	57.3	68.7	77				
		578		640	79.8	57.3	68.7				
		578	615	79.1	56.0	67.7	75				
		555		607	78.8	55.6	67.4				
		555	591	78.4	54.7	66.7	73	2055			
		534		579	78.0	54.0	66.1				2015
		534	569	77.8	53.5	65.8	71	1985			
		514		533	77.1	52.5	65.0				1915
		514	547	76.9	52.1	64.7	70	1890			
		495		539	76.7	51.6	64.3				1855
		495		530	76.4	51.1	63.9				1825
				496	528	76.3	51.0	63.8	68	1820	
		477		516	75.9	50.3	63.2				1780
		477		508	75.6	49.6	62.7				1740
				477	508	75.6	49.6	62.7	66	1740	
		461		495	75.1	48.8	61.9				1680
		461		491	74.9	48.5	61.7				1670
				461	491	74.9	48.5	61.7	65	1670	
		444		474	74.3	47.2	61.0				1595
		444		472	74.2	47.1	60.8				1585
				444	472	74.2	47.1	60.8	63	1585	

《使用建議事項》 CUTTING TOOL CONDITION

- 初次使用本刀具時，請按使用經驗值試切削，切銷狀況穩定後，再將進給速度慢慢調升，直到最佳切削狀態，若有疑問請向本公司技術部門洽詢。
 - 刀具使用時，請測刀具偏擺值，刀具偏擺精度超過0.01mm時，請改正後再行使用。
 - 使用者在選擇夾頭組(夾治具)時，請務必採用高精度，高剛性，動態平衡較佳之刀把夾頭組。
 - 使用刀具時，請注意刀具伸出夾頭之長度越短越好，刀具伸出量若伸出較長時，請自行調降轉速，進給速度或切削量。
 - 在切削中，如果發覺產品有異常或有聲音時，請逐一調整主軸轉速，進給速度和切削量，直到情況改善為止。
 - 鋼料冷卻以噴霧式或噴氣式為最佳，以使用氮化鋁鈦發揮最佳效果，不鏽鋼、鈦合金或耐熱合金建議採用非水溶性切削液。
 - 為了防止刀刃二次切削時容易產生的刀刃斷裂，為了避免過切之情況發生，請用順銑方式進行切削以達最佳使用率。
 - 切削方式依工件、機器、軟件、使用者經驗、觀念，或有不同切削效果，以上建議事項僅供參考。
- Please adjust the cutting condition according your experience while use our end mills for the first time, rise the speed rate after stable the condition, until the best cutting condition, please discuss with us for the technical issue.
 - Please examine the swing of our end mills while use our tools, if the precision of swing over 0.01mm, please use our tools after readjustment.
 - The highly precision, highly rigidity and the great balance of chunk/holder are the best choice for users with our end mills.
 - Please note the end mills are better deep inside and pinched into holder, please adjust the speed, feed and cutting rate while the end mills are extended out of the holder.
 - When the product produce unusual vibration or noise during the cutting, please adjust the speed, feed rate, and cutting depth of spindle until the condition make better.
 - The spray or air is the best cooling for steel, the TiAlN have great affection for steel, the non insoluble cutting liquid for the stainless steel, titanium alloy, heat resisting alloy.
 - In order to prevent the damage of flute edge with end mills use for the second time, please utilization the climb milling to prevent the general use of end mills.
 - The different work pieces, machine, software, experience and sense have different cutting result, all above of suggestion only for reference.