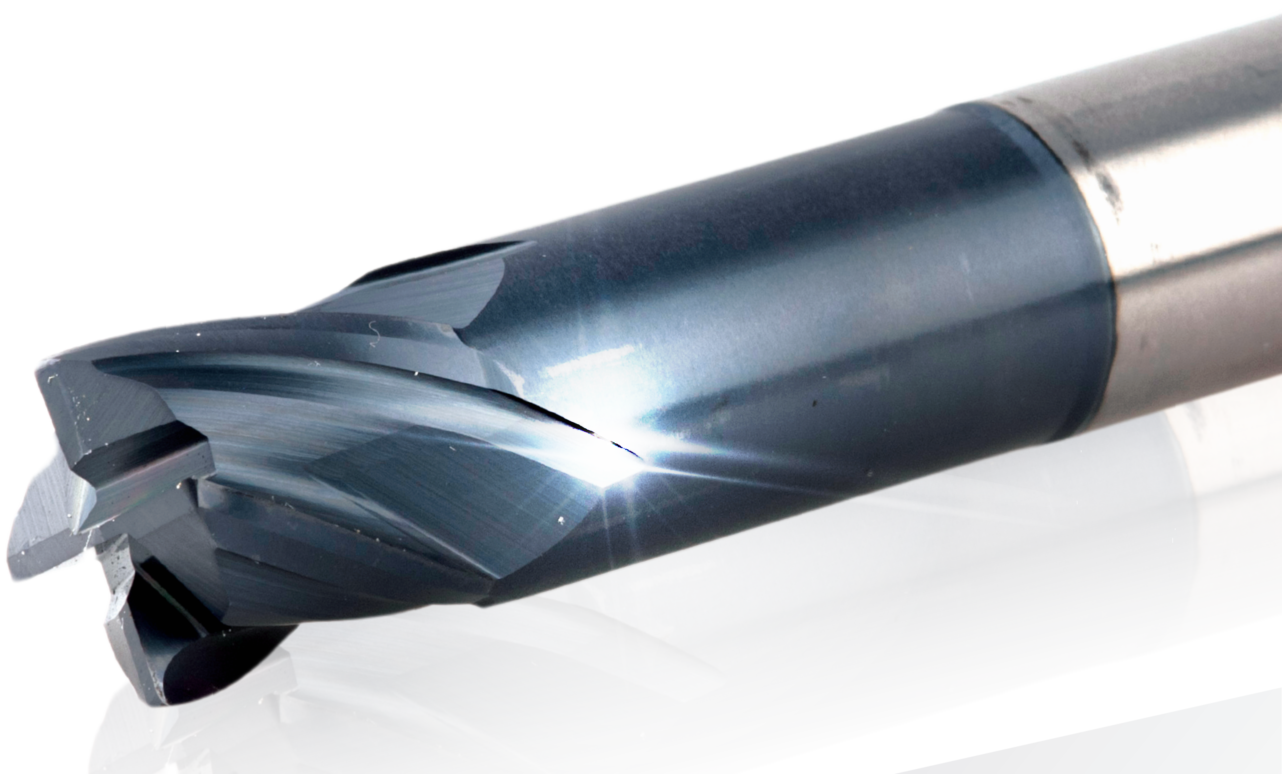
Li Guang

PERFECT

Every Body Product We Make



MỤC LỤC

GIỚI THIỆU VỀ CÔNG TY

- CÔNG TY TNHH MỘT THÀNH VIÊN THƯƠNG MẠI HỒNG VŨ
được thành lập từ **năm 2015**.

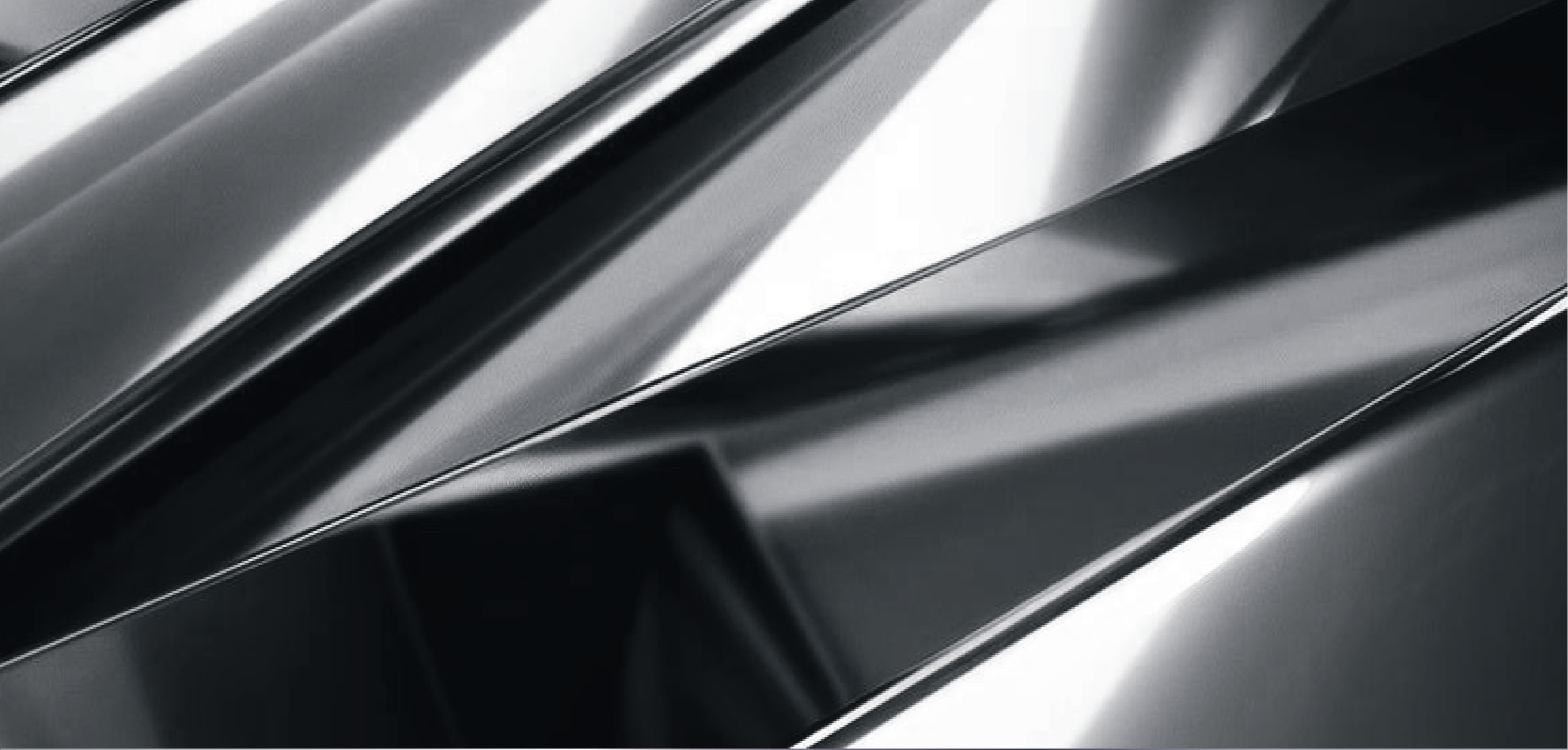
- Với hoạt động kinh doanh chính là:
Cung cấp dao cụ cắt gọt kim loại cho ngành gia công cơ khí chính xác.

TIÊU CHÍ HOẠT ĐỘNG:

- Luôn không ngừng tìm kiếm và đưa ra giải pháp nhằm giúp khách hàng giải quyết tối đa lợi ích, tiết kiệm, thời gian, công sức, tài chính thông qua dụng cụ cắt kim loại.

- Chúng tôi luôn đồng hành cùng khách hàng phát triển vững mạnh, nâng tầm thương hiệu. Từ đó góp phần thúc đẩy nền kinh tế Việt Nam phát triển mạnh mẽ hơn trong tương lai.

- Đến với Hồng Vũ với đội ngũ chuyên viên giàu kinh nghiệm, nhiệt tình, và luôn sẵn sàng giải đáp thắc mắc, đưa đến cho bạn lựa chọn phù hợp nhất.



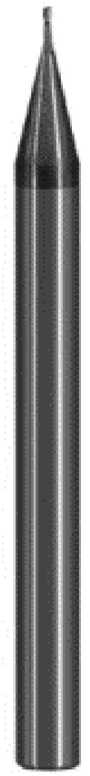
RX-UMG

The Power Of Cutting

High Precision High Efficiency High Lifespan

EMAK2-A系列

ULTRA MICRO GRAIN CARBIDE MICRO DIAMETER END MILLS - 2 FLUTE



特點：

- 適用於 3D 精密之銑削加工。
- 廣泛應用於高硬度模具鋼。
- 使用吹氣方式或油霧冷卻切削效果最佳化。
- 實現高速、高精度、高效率加工。

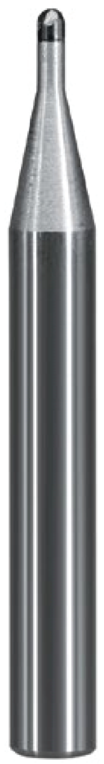
FEATURES:

- Applicable to the 3-D precise milling process.
- Widely used in mould steel with high-hardness.
- Optimized cutting eRect by inflation or oil mist cooling.
- Realize high-speed, high-precision and high-efficiency processing

極細微粒碳化鎢端銑刀 － 微小徑二刃

產品編號 Code No.	刃徑 Dia.	柄徑 Shank	刃長 L.O.C.	全長 O.A.L
EMAK204001	0.1	4.0	0.2	50
EMAK204002	0.2	4.0	0.4	50
EMAK204003	0.3	4.0	0.6	50
EMAK204004	0.4	4.0	0.8	50
EMAK204005	0.5	4.0	1	50
EMAK204006	0.6	4.0	1.2	50
EMAK204007	0.7	4.0	1.4	50
EMAK204008	0.8	4.0	1.6	50
EMAK204009	0.9	4.0	1.8	50

CARBIDE BORON NITRIDE SUPER BALL NOSE SHORT FLUTE END MILL - 2 FLUTE



特點：

- 可加工 HRC 70° 高硬度鋼材。
- R 角精度為 ±0.005MM，可達到加工性能最優化。
- 加工壽命為鎢鋼銑刀的 10 倍以上。
- 可大幅度提升刀具加工效能及高精度。

FEATURES:

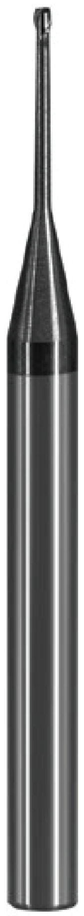
- Applicable to the processing of high hardness steel for hrc 70°.
- Precision of ball nose is ±0.005mm, the processing performance can be optimized.
- Process Lifespan is l0 times higher than tungsten carbid cutter.
- Can greatly improve tool processing efficiency and high precision.

CBN 球銑刀

產品編號 Code No.	球頭半徑 Radius	刃徑 Dia.	頸徑 Neck Dia.	柄徑 Shank	刃長 L.O.C.	有效長 Effective	全長 O.A.L
CBN-BN206004	0.2R	0.4	0.36	6.0	0.4	1.2	50
CBN-BN206006	0.3R	0.6	0.56	6.0	0.6	1.5	50
CBN-BN206008	0.4R	0.8	0.76	6.0	0.8	2	50
CBN-BN206010	0.5R	1.0	0.95	6.0	1	2.5	50
CBN-BN206012	0.6R	1.2	1.15	6.0	1.2	3	50
CBN-BN206015	0.75R	1.5	1.45	6.0	1.5	3.8	50
CBN-BN206020	1.0R	2.0	1.94	6.0	2	5	50
CBN-BN206030	1.5R	3.0	2.94	6.0	3	7.5	50

EMAF2-A系列

ULTRA MICRO GRAIN CARBIDE LONG NECK END MILLS - 2 FLUTE



特點：

- 適用於細長，狹隘之溝槽加工。
- 廣泛應用於高硬度模具鋼。
- 使用吹氣方式或油霧冷卻切削效果最佳化。
- 實現高速、高精度、高效率加工。

FEATURES:

- Applicable to the processing of slender and narrow grooves.
- Widely used in mould steel with high-hardness.
- Optimized cutting eRect by inflation or oil mist cooling.
- Realize high-speed, high-precision and high-efficiency processing.

極細微粒碳化鎢深溝加工專用端銑刀

產品編號 Code No.	刃徑 Dia.	頸徑 Neck Dia.	柄徑 Shank	刃長 L.O.C.	有效長 Effective	全長 O.A.L
EMAF204005-02	0.5	0.46	4.0	0.8	2	50
EMAF204005-04	0.5	0.46	4.0	0.8	4	50
EMAF204005-06	0.5	0.46	4.0	0.8	6	50
EMAF204006-02	0.6	0.56	4.0	0.9	2	50
EMAF204006-04	0.6	0.56	4.0	0.9	4	50
EMAF204006-06	0.6	0.56	4.0	0.9	6	50
EMAF204007-02	0.7	0.66	4.0	1.1	2	50
EMAF204007-04	0.7	0.66	4.0	1.1	4	50
EMAF204007-06	0.7	0.66	4.0	1.1	6	50
EMAF204008-04	0.8	0.76	4.0	1.2	4	50
EMAF204008-06	0.8	0.76	4.0	1.2	6	50

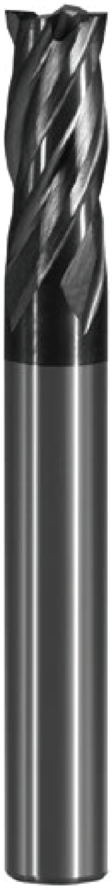
EMAF2-A系列

極細微粒碳化鎢深溝加工專用端銑刀

產品編號 Code No.	刃徑 Dia.	頸徑 Neck Dia.	柄徑 Shank	刃長 L.O.C.	有效長 Effective	全長 O.A.L
EMAF204008-08	0.8	0.76	4.0	1.2	8	50
EMAF204009-06	0.9	0.86	4.0	1.4	6	50
EMAF204009-08	0.9	0.86	4.0	1.4	8	50
EMAF204009-10	0.9	0.86	4.0	1.4	10	50
EMAF204010-06	1.0	0.96	4.0	1.5	6	50
EMAF204010-08	1.0	0.96	4.0	1.5	8	50
EMAF204010-10	1.0	0.96	4.0	1.5	10	50
EMAF204010-12	1.0	0.96	4.0	1.5	12	50
EMAF204015-06	1.5	1.46	4.0	2.3	6	50
EMAF204015-08	1.5	1.46	4.0	2.3	8	50
EMAF204015-10	1.5	1.46	4.0	2.3	10	50
EMAF204015-12	1.5	1.46	4.0	2.3	12	50
EMAF204015-16	1.5	1.46	4.0	2.3	16	50
EMAF204020-06	2.0	1.96	4.0	3	6	50
EMAF204020-08	2.0	1.96	4.0	3	8	50
EMAF204020-10	2.0	1.96	4.0	3	10	50
EMAF204020-12	2.0	1.96	4.0	3	12	50
EMAF204020-16	2.0	1.96	4.0	3	16	50
EMAF204030-08	3.0	2.96	4.0	4.5	8	50
EMAF204030-10	3.0	2.96	4.0	4.5	10	50
EMAF204030-12	3.0	2.96	4.0	4.5	12	50
EMAF204030-16	3.0	2.96	4.0	4.5	16	50

EMAA4-A系列

ULTRA MICRO GRAIN CARBIDE STANDARD END MILLS - 4 FLUTE



特點：

- 適用於高硬度鋼加工。
- 粗加工、精加工兼具之切削刀具。
- 使用吹氣方式或油霧冷卻切削效果最佳化。
- 實現高速、高精度、高效率加工。

FEATURES:

- Applicable to the processing of high hardness steel.
- Cutting tools for roughing and finishing.
- Optimized cutting eRect by inflation or oil mist cooling.
- Realize high-speed, high-precision and high-efficiency processing.

極細微粒碳化鎢深溝加工專用端銑刀

產品編號 Code No.	刃徑 Dia.	柄徑 Shank	刃長 L.O.C.	全長 O.A.L
EMAA404010	1.0	4.0	2.5	50
EMAA404015	1.5	4.0	4	50
EMAA404020	2.0	4.0	5	50
EMAA404025	2.5	4.0	6	50
EMAA403030	3.0	3.0	8	50
EMAA404030	3.0	4.0	8	50
EMAA404035	3.5	4.0	9	50
EMAA404040	4.0	4.0	10	50
EMAA406010	1.0	6.0	2.5	50
EMAA406015	1.5	6.0	4	50

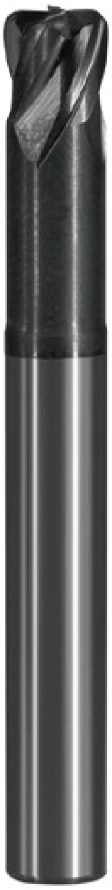
EMAA4-A系列

極細微粒碳化鎢深溝加工專用端銑刀

產品編號 Code No.	刃徑 Dia.	柄徑 Shank	刃長 L.O.C.	全長 O.A.L
EMAA406020	2.0	6.0	5	50
EMAA406025	2.5	6.0	6	50
EMAA406030	3.0	6.0	8	50
EMAA406035	3.5	6.0	9	50
EMAA406040	4.0	6.0	10	50
EMAA406045	4.5	6.0	11	50
EMAA406050	5.0	6.0	13	50
EMAA406055	5.5	6.0	14	50
EMAA406060	6.0	6.0	15	50
EMAA408065	6.5	6.0	18	60
EMAA408070	7.0	8.0	18	60
EMAA408075	7.5	8.0	20	60
EMAA408080	8.0	8.0	20	60
EMAA410085	8.5	10.0	22	75
EMAA410090	9.0	10.0	22	75
EMAA410095	9.5	10.0	22	75
EMAA410100	10.0	10.0	25	75
EMAA412105	10.5	12.0	25	75
EMAA412110	11.0	12.0	25	75
EMAA412120	12.0	12.0	30	75
EMAA416130	13.0	16.0	35	100
EMAA416140	14.0	16.0	35	100
EMAA416150	15.0	16.0	40	100
EMAA416160	16.0	16.0	40	100
EMAA420180	18.0	20.0	40	100
EMAA420200	20.0	20.0	40	100

CRAG4-A系列

ULTRA MICRO GRAIN CARBIDE CORNER RADIUS SHORT FLUTE END MILLS - 4 FLUTE



特點：

- 適用於高硬度鋼加工。
- 高剛性，可大幅縮減粗加工時間，提高工作效率。
- 使用吹氣方式或油霧冷卻切削效果最佳化。
- 實現高速、高精度、高效率加工。

FEATURES:

- Applicable to the processing of high hardness steel.
- High rigidity can greatly reduce the rough processing time and improve work efficiency.
- Optimized cutting eRect by inflation or oil mist cooling.
- Realize high-speed, high-precision and high-efficiency processing.

極細微粒碳化鎢圓偶角銑刀 － 強力型四刃

產品編號 Code No.	刃徑 Dia.	R 角 Corner	頸徑 Neck Dia.	柄徑 Shank	刃長 L.O.C.	有效長 Effective	全長 O.A.L
CRAG404010-02	1.0	0.2R	0.95	4.0	1	3	50
CRAG404015-02	1.5	0.2R	1.45	4.0	1.5	5	50
CRAG404015-03	1.5	0.3R	1.45	4.0	1.5	5	50
CRAG404020-02	2.0	0.2R	1.9	4.0	2	6	50
CRAG404020-03	2.0	0.3R	1.9	4.0	2	6	50
CRAG404030-02	3.0	0.2R	2.9	4.0	3	10	50
CRAG404030-03	3.0	0.3R	2.9	4.0	3	10	50
CRAG404030-05	3.0	0.5R	2.9	4.0	3	10	50
CRAG404040-02	4.0	0.2R	3.9	4.0	4	12	50
CRAG404040-03	4.0	0.3R	3.9	4.0	4	12	50
CRAG404040-05	4.0	0.5R	3.9	4.0	4	12	50
CRAG404040-10	4.0	1.0R	3.9	4.0	4	12	50

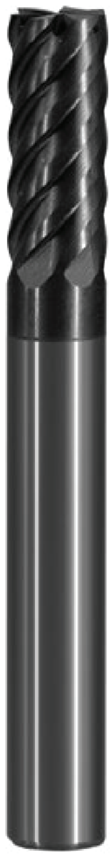
CRAG4-A系列

極細微粒碳化鎢深溝加工專用端銑刀

產品編號 Code No.	刃徑 Dia.	R角 Corner	頸徑 Neck Dia.	柄徑 Shank	刃長 L.O.C.	有效長 Effective	全長 O.A.L
CRAG406060-02	6.0	0.2R	5.8	6.0	6	18	50
CRAG406060-05	6.0	0.5R	5.8	6.0	6	18	50
CRAG406060-10	6.0	1.0R	5.8	6.0	6	18	50
CRAG406060-15	6.0	1.5R	5.8	6.0	6	18	50
CRAG408080-02	8.0	0.2R	7.8	8.0	8	24	60
CRAG408080-05	8.0	0.5R	7.8	8.0	8	24	60
CRAG408080-10	8.0	1.0R	7.8	8.0	8	24	60
CRAG408080-15	8.0	1.5R	7.8	8.0	8	24	60
CRAG410100-02	10.0	0.2R	9.7	10.0	10	30	75
CRAG410100-05	10.0	0.5R	9.7	10.0	10	30	75
CRAG410100-10	10.0	1.0R	9.7	10.0	10	30	75
CRAG410100-15	10.0	1.5R	9.7	10.0	10	30	75
CRAG410100-20	10.0	2.0R	9.7	10.0	10	30	75
CRAG412120-02	12.0	0.2R	11.7	12.0	12	36	75
CRAG412120-05	12.0	0.5R	11.7	12.0	12	36	75
CRAG412120-10	12.0	1.0R	11.7	12.0	12	36	75
CRAG412120-15	12.0	1.5R	11.7	12.0	12	36	75
CRAG412120-20	12.0	2.0R	11.7	12.0	12	36	75

HDAA6-A系列

ULTRA MICRO GRAIN CARBIDE SQUARE TYPE STANDARD END MILLS FOR HARD STELL- 6 FLUTE



特點：

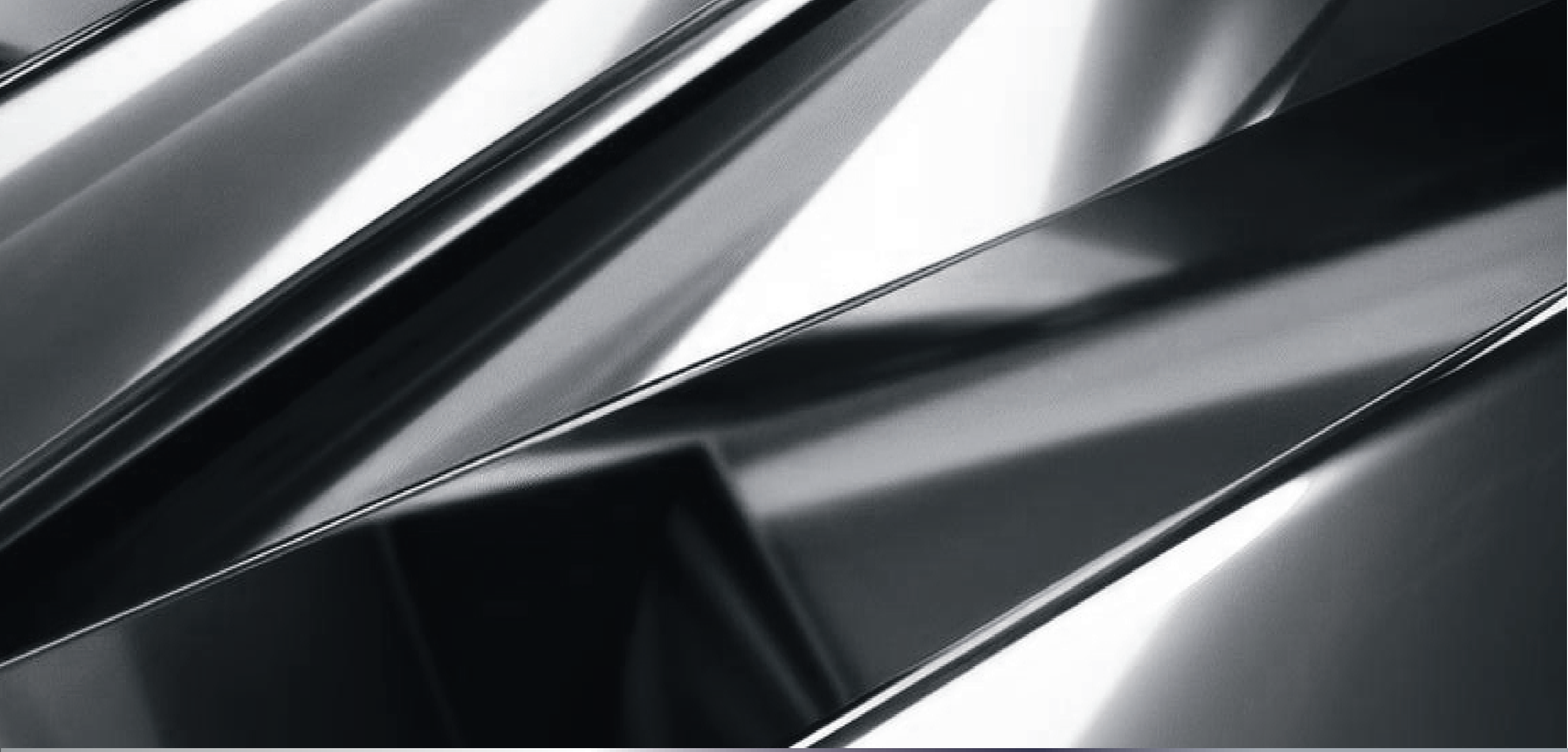
- 適用於高硬度鋼加工。
- 針對高硬度鋼材，加工性能極佳。
- 使用吹氣方式或油霧冷卻切削效果最佳化。
- 實現高速、高精度、高效率加工。

FEATURES

- Applicable to the processing of high hardness steel.
- For high-hardness steel, excellent processing performance.
- Optimized cutting eRect by inflation or oil mist cooling.
- Realize high-speed, high-precision and high-efficiency processing

極細微粒碳化鎢高硬度專用端銑刀 － 標準型六刃

產品編號 Code No.	刃徑 Dia.	柄徑 Shank	刃長 L.O.C.	全長 O.A.L
HDAA606030	3.0	6.0	8	50
HDAA606040	4.0	6.0	10	50
HDAA606050	5.0	6.0	13	50
HDAA606060	6.0	6.0	15	50
HDAA608080	8.0	8.0	20	60
HDAA610100	10.0	10.0	25	75
HDAA612120	12.0	12.0	30	75
HDAA616160	16.0	16.0	32	100
HDAA620200	20.0	20. 0	40	100



RX-MG

The Power Of Cutting

High Precision High Efficiency High Lifespan

NSEA4-E系列

MICRO GRAIN CARBIDE STAINLESS STEEL
END MILLS - 4 FLUTE

特點：

- 採用不等分割不等螺旋抗震設計。
- 加工不鏽鋼效能優異。
- 可使用於吹氣方式或水溶性切削液加工。
- 大幅提高加工效能。
- 刃長為刀徑 3 倍，適合側面加工。

FEATURES:

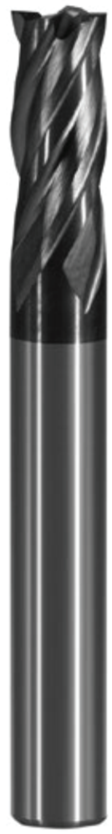
- Unequal Heilx Design With Unequal Division.
- Excellent performance in processing stainless steel.
- Optimized performance by the use of water-soluble cutting fluid.
- Greatly improve processing efficiency.
- The blade length is 3 times the diameter suitable for side processing

極細微粒碳化鎢高硬度專用端銑刀 － 標準型六刃

產品編號 Code No.	刃徑 Dia.	柄徑 Shank	刃長 L.O.C.	全長 O.A.L
NSEA404010	1.0	4.0	3	50
NSEA404015	1.5	4.0	4.5	50
NSEA404020	2.0	4.0	6	50
NSEA404025	2.5	4.0	7.5	50
NSEA406030	3.0	6.0	9	50
NSEA406040	4.0	6.0	12	50
NSEA406050	5.0	6.0	15	50
NSEA406060	6.0	6.0	18	50
NSEA408080	8.0	8.0	24	60
NSEA410100	10.0	10.0	30	75
NSEA412120	12.0	12.0	36	75
NSEA416140	14.0	16.0	42	100
NSEA416160	16.0	16.0	48	100
NSEA420200	20.0	20.0	50	100

EMEA4-E系列

MICRO GRAIN CARBIDE STANDARD END MILLS - 4 FLUTE



特點：

- 加工不鏽鋼效能優異。
- 粗加工、精加工兼具之切削刀具。
- 使用水溶性切削液，效果最佳化。

FEATURES:

- Excellent performance in processing stainless steel.
- Cutting tools for roughing and finishing.
- Optimized perfotmance by the use of water-soluble cutting fluid

超微粒碳化鎢高效能端銑刀 － 標準型四刃

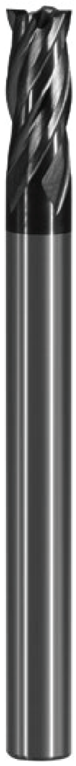
產品編號 Code No.	刃徑 Dia.	柄徑 Shank	刃長 L.O.C.	全長 O.A.L
EMEA404010	1.0	4.0	2.5	50
EMEA404015	1.5	4.0	4	50
EMEA404020	2.0	4.0	5	50
EMEA404025	2.5	4.0	6	50
EMEA403030	3.0	3.0	8	50
EMEA404030	3.0	4.0	8	50
EMEA404035	3.5	4.0	9	50
EMEA404040	4.0	4.0	10	50
EMEA406010	1.0	6.0	2.5	50
EMEA406015	1.5	6.0	4	50
EMEA406020	2.0	6.0	5	50
EMEA406025	2.5	6.0	6	50
EMEA406030	3.0	6.0	8	50
EMEA406035	3.5	6.0	9	50

極細微粒碳化鎢深溝加工專用端銑刀

產品編號 Code No.	刃徑 Dia.	柄徑 Shank	刃長 L.O.C.	全長 O.A.L
EMEA406040	4.0	6.0	10	50
EMEA406045	4.5	6.0	11	50
EMEA406050	5.0	6.0	13	50
EMEA406055	5.5	6.0	14	50
EMEA406060	6.0	6.0	15	50
EMEA408065	6.5	8.0	18	60
EMEA408070	7.0	8.0	18	60
EMEA408075	7.5	8.0	20	60
EMEA408080	8.0	8.0	20	60
EMEA410085	8.5	10.0	22	75
EMEA410090	9.0	10.0	22	75
EMEA410095	9.5	10.0	22	75
EMEA410100	10.0	10.0	25	75
EMEA412105	10.5	12.0	25	75
EMEA412110	11.0	12.0	25	75
EMEA412120	12.0	12.0	30	75
EMEA416130	13.0	16.0	35	100
EMEA416140	14.0	16.0	35	100
EMEA416150	15.0	16.0	40	100
EMEA416160	16.0	16.0	40	100
EMEA420180	18.0	20.0	40	100
EMEA420200	20.0	20.0	40	100

EMED4-E系列

MICRO GRAIN CARBIDE LONG SHANK END MILLS - 4 FLUTE



特點：

- 加工不鏽鋼效能優異。
- 全長加長，適用於深部位加工。
- 使用水溶性切削液，效果最佳化。

FEATURES：

- Excellent performance in processing stainless steel.
- Full-length extension, applicable to the processing of deep parts.
- Optimized perfotmance by the uvase of water-soluble cutting fluid.

超微粒碳化鎢端銑刀 － 長柄型四刃

產品編號 Code No.	刃徑 Dia.	柄徑 Shank	刃長 L.O.C.	全長 O.A.L
EMED406030	3.0	6.0	8	75
EMED404040	4.0	4.0	10	75
EMED406040	4.0	6.0	10	75
EMED406050	5.0	6.0	13	75
EMED406060	6.0	6.0	15	75
EMEE406060	6.0	6.0	15	100
EMED408080	8.0	8.0	20	100
EMED410100	10.0	10.0	25	100
EMED412120	12.0	12.0	30	100
EMED416140	14.0	16.0	35	150
EMED416160	16.0	16.0	40	150
EMED420180	18.0	20.0	40	150
EMED420200	20.0	20.0	40	150

HOEA4-E系列

MICRO GRAIN CARBIDE HIGH EFFICIENCY STANDARD END MILLS - 4 FLUTE

特點：

- 採用不等分割，強化排屑設計。
- 可使用於吹氣方式或水溶性切削液加工。
- 大幅提高加工效能。
- 刀長為刀徑 3 倍，適合側面加工。

FEATURES:

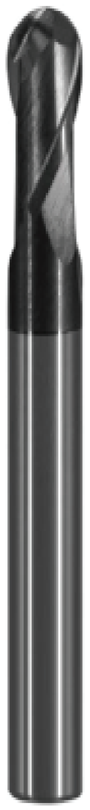
- Unequal Division And Enhance Chip Removal Design.
- Optimized performance by the use of water-soluble cutting fluid.
- Greatly improve processing efficiency.
- The tool length is 3 times the diameter, suitable for side processing

超微粒碳化鎢端銑刀 – 標準型四刃

產品編號 Code No.	刃徑 Dia.	柄徑 Shank	刃長 L.O.C.	全長 O.A.L
HOEA404010	1.0	4.0	3	50
HOEA404015	1.5	4.0	4.5	50
HOEA404020	2.0	4.0	6	50
HOEA404025	2.5	4.0	7.5	50
HOEA406030	3.0	6.0	9	50
HOEA406040	4.0	6.0	12	50
HOEA406050	5.0	6.0	15	50
HOEA406060	6.0	6.0	18	50
HOEA408080	8.0	8.0	24	60
HOEA410100	10.0	10.0	30	75
HOEA412120	12.0	12.0	36	75
HOEA416140	14.0	16.0	42	100
HOEA416160	16.0	16.0	48	100
HOEA420200	20.0	20.0	50	100

BNEA2-E系列

MICRO GRAIN CARBIDE BALL NOSE STANDARD END MILLS - 2 FLUTE



特點：

- 加工不鏽鋼效能優異。
- 適用於 3D 精密銑削加工。
- 使用水溶性切削液，效果最佳化。

FEATURES

- Excellent performance in processing stainless steel.
- Applicable to the 3-D precise milling process.
- Optimized performance by the use of water-soluble cutting fluid.

超微粒碳化鎢球銑刀 － 標準型二刃

產品編號 Code No.	球頭半徑 Radius	刃徑 Dia.	柄徑 Shank	刃長 L.O.C.	全長 O.A.L
BNEA204010	0.5R	1.0	4.0	2	50
BNEA204015	0.75R	1.5	4.0	3	50
BNEA204020	1.0R	2.0	4.0	4	50
BNEA204025	1.25R	2.5	4.0	5	50
BNEA203030	1.5R	3.0	3.0	6	50
BNEA204030	1.5R	3.0	4.0	6	50
BNEA204040	2.0R	4.0	4.0	8	50
BNEA206010	0.5R	1.0	6.0	2	50
BNEA206015	0.75R	1.5	6.0	3	50
BNEA206020	1.0R	2.0	6.0	4	50
BNEA206025	1.25R	2.5	6.0	5	50
BNEA206030	1.5R	3.0	6.0	6	50
BNEA206040	2.0R	4.0	6.0	8	50
BNEA206050	2.5R	5.0	6.0	10	50
BNEA206060	3.0R	6.0	6.0	12	50
BNEA208070	3.5R	7.0	8.0	14	60
BNEA208080	4.0R	8.0	8.0	16	60
BNEA210100	5.0R	10.0	10.0	20	75
BNEA212120	6.0R	12.0	12.0	24	75
BNEA216160	8.0R	16.0	16.0	32	100

PMEA1-E系列

MICRO GRAIN CARBIDE PLASTIC END MILLS - SINGLE FLUTE

特點：

- 加工塑膠材質，效果最佳。
- 粗加工、精加工兼具之切削刀具。
- 應用於精加工時可得到最佳的表面粗糙度。

FEATURES:

- The best effect is processed by plastic material.
- Cutting tools for roughing and finishing.
- The best surface roughness can be obtained when applied tofinishing.

超微粒碳化鎢塑膠加工專用端銑刀 － 標準型單刃

產品編號 Code No.	刃徑 Dia.	柄徑 Shank	刃長 L.O.C.	全長 O.A.L
PMEA104010	1.0	4.0	3	50
PMEA104015	1.5	4.0	4.5	50
PMEA104020	2.0	4.0	6	50
PMEA104030	3.0	4.0	9	50
PMEA104040	4.0	4.0	12	50
PMEA106050	5.0	6.0	15	50
PMEA106060	6.0	6.0	18	50
PMEA108080	8.0	8.0	24	60
PMEA110100	10.0	10.0	30	75
PMEA112120	12.0	12.0	36	75
PMEA116160	16.0	16.0	45	100
PMEA120200	20.0	20.0	45	100

PMEA2-E系列

MICRO GRAIN CARBIDE PLASTIC END MILLS - 2 FLUTE

特點：

- 加工塑膠材質，效果最佳。
- 粗加工、精加工兼具之切削刀具。
- 應用於精加工時可得到最佳的表面粗糙度。

FEATURES

- The best effect is processed by plastic material.
- Cutting tools for roughing and finishing.
- The best surface roughness can be obtained when applied to finishing.

超微粒碳化鎢球銑刀 – 標準型二刃

產品編號 Code No.	刃徑 Dia.	柄徑 Shank	刃長 L.O.C.	全長 O.A.L
PMEA204010	1.0	4.0	3	50
PMEA204015	1.5	4.0	4.5	50
PMEA204020	2.0	4.0	6	50
PMEA204030	3.0	4.0	9	50
PMEA204040	4.0	4.0	12	50
PMEA206050	5.0	6.0	15	50
PMEA206060	6.0	6.0	18	50
PMEA208080	8.0	8.0	24	60
PMEA210100	10.0	10.0	30	75
PMEA212120	12.0	12.0	36	75
PMEA216160	16.0	16.0	45	100
PMEA220200	20.0	20.0	45	100

HALE3-E系列

MICRO GRAIN CARBIDE ALUMMINUM ALLOY END MILLS - 3 FLUTE

特點：

- 加工鋁合金材質效能優異。
- 特殊排屑設計，性能大幅提升。
- 使用水溶性切削液，效果最佳化。

FEATURES：

- Excellent performance in processing aluminan alloy materials.
- Special chip flute design, performance improved significantly.
- Optimized perfotmance by the use of water-soluble cutting fluid.

超微粒碳化鎢塑膠加工專用端銑刀 － 標準型單刃

產品編號 Code No.	刃徑 Dia.	柄徑 Shank	刃長 L.O.C.	全長 O.A.L
HALE304010	1.0	4.0	3	50
HALE304015	1.5	4.0	4.5	50
HALE304020	2.0	4.0	6	50
HALE304030	3.0	4.0	9	50
HALE304040	4.0	4.0	12	50
HALE306010	1.0	6.0	3	50
HALE306015	1.5	6.0	4.5	50
HALE306020	2.0	6.0	6	50
HALE306030	3.0	6.0	9	50
HALE306040	4.0	6.0	12	50
HALE306050	5.0	6.0	15	50
HALE306060	6.0	6.0	18	50
HALE308080	8.0	8.0	24	60
HALE310100	10.0	10.0	30	75
HALE312120	12.0	12.0	36	75
HALE316160	16.0	16.0	45	100
HALE320200	20.0	20.0	45	100

ALEA3-E系列

MICRO GRAIN CARBIDE HIGH-GLOSS SURFACE ALUMMINUM ALLOY END MILLS - 3 FLUTE

特點：

- 加工鋁合金材質效能優異。
- 應用於精加工時可得到最佳的表面粗糙度。
- 使用水溶性切削液，效果最佳化。

FEATURES

- Excellent performance in processing aluminan alloy materials.
- The best surface roughness can be obtained when applied to finishing.
- Optimized perfotmance by the use of water-soluble cutting fluid.

超微粒碳化鎢高光面鋁合金專用端銑刀 － 標準型三刃

產品編號 Code No.	刃徑 Dia.	柄徑 Shank	刃長 L.O.C.	全長 O.A.L
ALEA304010	1.0	4.0	3	50
ALEA304015	1.5	4.0	4.5	50
ALEA304020	2.0	4.0	6	50
ALEA304030	3.0	4.0	9	50
ALEA304040	4.0	4.0	12	50
ALEA306010	1.0	6.0	3	50
ALEA306015	1.5	6.0	4.5	50
ALEA306020	2.0	6.0	6	50
ALEA306030	3.0	6.0	9	50
ALEA306040	4.0	6.0	12	50
ALEA306050	5.0	6.0	15	50
ALEA306060	6.0	6.0	18	50
ALEA308080	8.0	8.0	24	60
ALEA310100	10.0	10.0	30	75
ALEA312120	12.0	12.0	36	75
ALEA316160	16.0	16.0	45	100
ALEA320200	20.0	20.0	45	100

CECF2-E系列

MICRO GRAIN CARBIDE LONG NECK COPPER ALLOY END MILLS - 2 FLUTE

特點：

- 加工銅合金材質效能優異。
- 適用於細長、狹隘之溝槽加工。
- 使用水溶性切削液，效果最佳化。

FEATURES：

- Excellent performance in processing copper alloy materials.
- Applicable to the processing of slender and narrow grooves.
- Optimized perfotmance by the use of water-soluble cutting fluid.

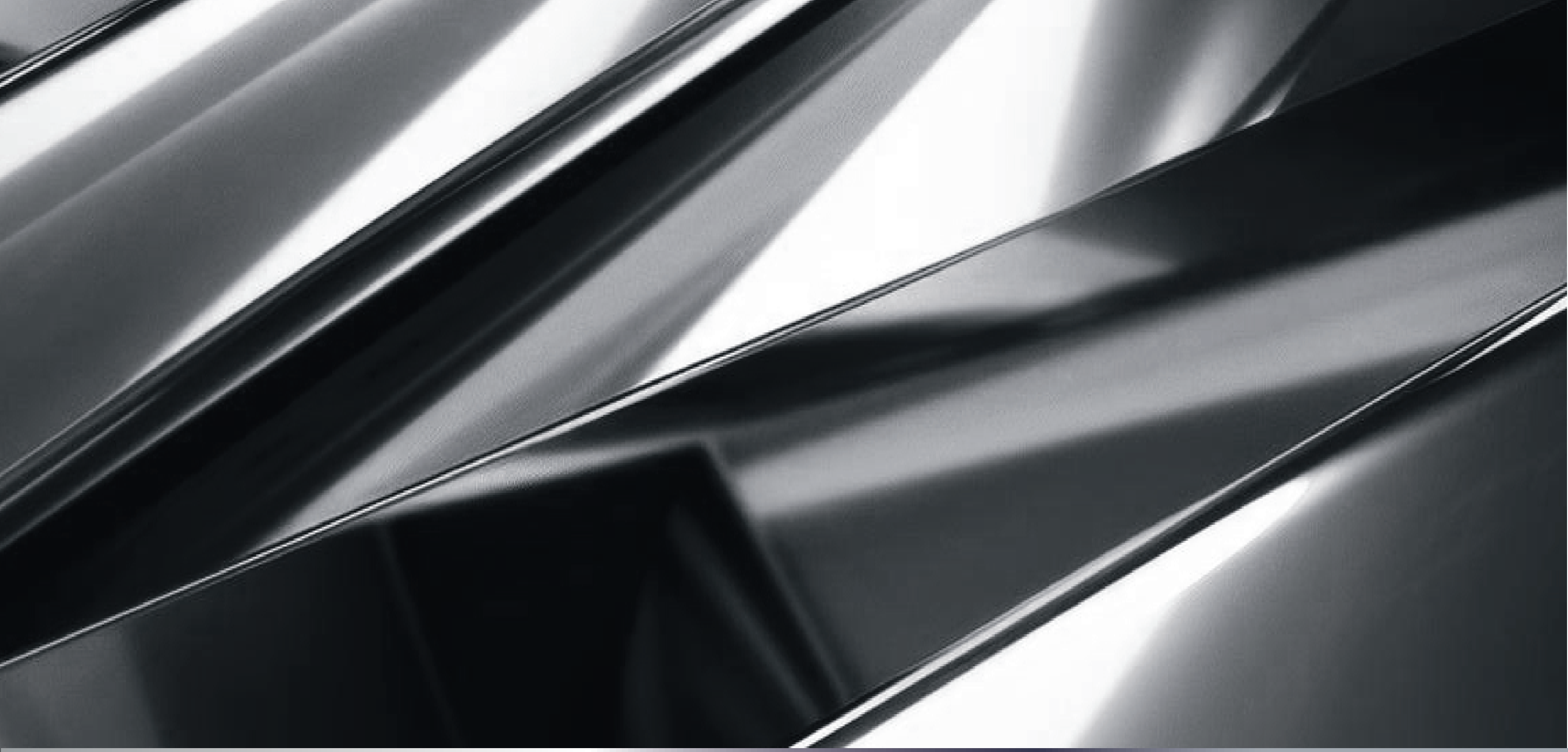
超微粒碳化鎢銅合金深溝加工專用端銑刀

產品編號 Code No.	刃徑 Dia.	頸徑 Neck Dia.	柄徑 Shank	刃長 L.O.C.	有效長 Effective	全長 O.A.L
CECF204005-02	0.5	0.46	4.0	0.8	2	50
CECF204005-04	0.5	0.46	4.0	0.8	4	50
CECF204005-06	0.5	0.46	4.0	0.8	6	50
CECF204006-02	0.6	0.56	4.0	0.9	2	50
CECF204006-04	0.6	0.56	4.0	0.9	4	50
CECF204006-06	0.6	0.56	4.0	0.9	6	50
CECF204007-02	0.7	0.66	4.0	1.1	2	50
CECF204007-04	0.7	0.66	4.0	1.1	4	50
CECF204007-06	0.7	0.66	4.0	1.1	6	50
CECF204008-04	0.8	0.76	4.0	1.2	4	50
CECF204008-06	0.8	0.76	4.0	1.2	6	50
CECF204008-08	0.8	0.76	4.0	1.2	8	50
CECF204009-06	0.9	0.86	4.0	1.4	6	50

CECF2-E系列

極細微粒碳化鎢深溝加工專用端銑刀

產品編號 Code No.	刃徑 Dia.	頸徑 Neck Dia.	柄徑 Shank	刃長 L.O.C.	有效長 Effective	全長 O.A.L
CECF204009-08	0.9	0.86	4.0	1.4	8	50
CECF204009-10	0.9	0.86	4.0	1.4	10	50
CECF204010-06	1.0	0.96	4.0	1.5	6	50
CECF204010-08	1.0	0.96	4.0	1.5	8	50
CECF204010-10	1.0	0.96	4.0	1.5	10	50
CECF204010-12	1.0	0.96	4.0	1.5	12	50
CECF204015-06	1.5	1.46	4.0	2.3	6	50
CECF204015-08	1.5	1.46	4.0	2.3	8	50
CECF204015-10	1.5	1.46	4.0	2.3	10	50
CECF204015-12	1.5	1.46	4.0	2.3	12	50
CECF204015-16	1.5	1.46	4.0	2.3	16	50
CECF204020-06	2.0	1.96	4.0	3	6	50
CECF204020-08	2.0	1.96	4.0	3	8	50
CECF204020-10	2.0	1.96	4.0	3	10	50
CECF204020-12	2.0	1.96	4.0	3	12	50
CECF204020-16	2.0	1.96	4.0	3	16	50
CECF204030-06	3.0	2.96	4.0	4.5	6	50
CECF204030-08	3.0	2.96	4.0	4.5	8	50
CECF204030-10	3.0	2.96	4.0	4.5	10	50
CECF204030-12	3.0	2.96	4.0	4.5	12	50
CECF204030-16	3.0	2.96	4.0	4.5	16	50



Liguang

The Power Of Cutting

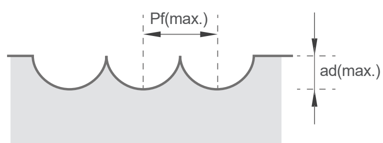
High Precision High Efficiency High Lifespan

CBN - 球銑刀－二刃

Carbide Boron Nitride Ball Nose Short Flute End Mills - 2 Flute

被削材 Work Material	熱處理鋼 (~55HRC) Hardned steel SKD61, SKD11, NAK, STAVAX 等				熱處理鋼 (55~62HRC) Hardned steel SKD11 ,SKS,SKH 等				熱處理鋼 (62~70HRC) Hardned steel ,SKS,SKH 等			
切削速度 Cutting Speed	高速條件				高速條件				高速條件			
R: 球頭半徑 Radius	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	切削量		回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	切削量		回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	切削量	
			Pf Pick Feed	Ad Milling Amount			Pf Pick Feed	Ad Milling Amount			Pf Pick Feed	Ad Milling Amount
0.3	50000	2000	0.02	0.01	50000	2000	0.02	0.01	50000	1500	0.01	0.008
0.4	50000	2000	0.03	0.02	50000	2000	0.03	0.02	50000	1500	0.02	0.01
0.5	50000	3000	0.04	0.03	50000	3000	0.04	0.03	50000	2000	0.02	0.01
0.6	50000	3000	0.04	0.03	50000	3000	0.04	0.03	50000	2000	0.02	0.015
0.75	50000	4000	0.05	0.04	50000	4000	0.05	0.03	50000	3000	0.03	0.015
1	50000	5000	0.07	0.05	50000	5000	0.05	0.04	50000	3000	0.03	0.02
1.5	50000	5000	0.08	0.05	50000	5000	0.05	0.04	50000	3000	0.04	0.02

切削量基準
Depth of cut
D(直徑 Dia.)

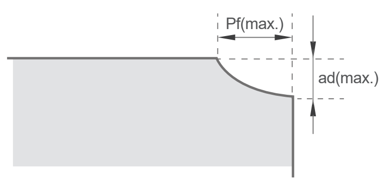


CBN - 圓鼻銑刀–二刃

Carbide Boron Nitride Super Corner Radius Short Flute End Mills - 2 Flute

被削材 Work Material	熱處理鋼 (~55HRC) Hardned steel SKD61, SKD11, NAK, STAVAX 等				熱處理鋼 (55~62HRC) Hardned steel SKD11 ,SKS,SKH 等				熱處理鋼 (62~70HRC) Hardned steel ,SKS,SKH 等			
切削速度 Cutting Speed	高速條件				高速條件				高速條件			
直徑 (mm) Diameter	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	切削量		回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	切削量		回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	切削量	
			Pf Pick Feed	Ad Milling Amount			Pf Pick Feed	Ad Milling Amount			Pf Pick Feed	Ad Milling Amount
0.5	50000	680	0.2	0.01	50000	600	0.1	0.01	50000	500	0.1	0.005
1	48000	1000	0.4	0.01	48000	1000	0.3	0.01	32000	800	0.2	0.01
1.5	32000	2000	0.5	0.03	32000	1500	0.4	0.03	20000	1200	0.3	0.01
2	24000	2000	0.6	0.04	24000	1500	0.5	0.03	16000	1200	0.3	0.01
3	16000	2000	0.7	0.04	16000	1500	0.6	0.03	10000	1200	0.4	0.01

切削量基準
Depth of cut
D(直徑 Dia.)

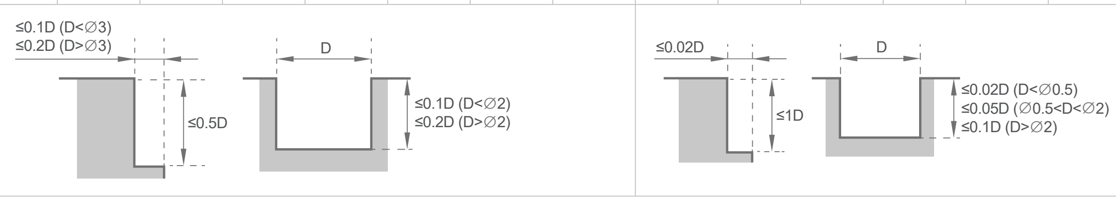


碳化鎢端銑刀-二刃

Carbide Standard End Mills - 2 Flute

被削材 Work Material	炭素鋼 . 合金鋼 (~30HRC) Carbon steel, Alloy steel S50C, SCM, 鑄鐵 FC250 等 AISI 1049, Cast iron			合金鋼 . 工具鋼 (30~45HRC) Alloy steel, Tool steel 預硬鋼 , SKD61, NAK 等 Prehardned steel, AISI H13			沃斯田鐵系列不鏽鋼 Austenitic stainless steel SUS304, SUS316 等 AISI 304, AISI316			熱處理鋼 (45~55HRC) Hardned steel SKD61, SKD11, NAK, STAVAX 等 AISI H13			熱處理鋼 (55~60HRC) Hardned steel SKD11 等 AISI D2		
切削速度 Cutting Speed	50~100 m/min			50~70 m/min			30~60 m/min			20~40 m/min			15~30 m/min		
直徑 (mm) Diameter	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate		回轉數 (min-1) Speed	進給速度 mm/min Feed Rate		回轉數 (min-1) Speed	進給速度 mm/min Feed Rate		回轉數 (min-1) Speed	進給速度 mm/min Feed Rate		回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	
		側面 Side Milling	溝 Slotting		側面 Side Milling	溝 Slotting		側面 Side Milling	溝 Slotting		側面 Side Milling	溝 Slotting		側面 Side Milling	溝 Slotting
0.1	50000	—	25	50000	—	15	50000	—	20	50000	—	15	50000	—	10
0.2	50000	—	40	50000	—	25	50000	—	30	48000	—	20	40000	—	15
0.3	50000	100	50	50000	90	30	50000	80	40	32000	—	20	24000	—	15
0.4	50000	150	75	46000	130	50	40000	110	50	24000	50	25	20000	35	20
0.5	40000	160	80	38000	130	50	32000	110	50	18000	60	30	16000	35	20
0.6	34000	170	85	32000	130	50	26000	110	50	16000	60	35	14000	40	25
0.7	30000	180	90	28000	140	50	22000	120	60	14000	60	35	12000	40	25
0.8	26000	200	100	24000	150	55	20000	130	65	12000	70	35	10000	50	25
0.9	22000	200	100	21000	150	55	18000	130	65	10500	75	40	9000	50	25
1	20000	210	100	19000	150	55	16000	130	65	9500	75	40	8000	50	30
1.5	14000	210	100	13000	150	55	10500	130	65	6400	75	40	6000	50	30
2	10000	210	100	10000	170	60	8000	150	75	4800	75	40	4200	50	30
2.5	8000	250	120	7600	180	65	6400	160	80	3800	75	40	3200	50	30
3	6800	280	140	6400	190	70	5400	170	85	3200	80	40	2800	60	30
3.5	6000	300	150	5600	190	70	4600	170	85	2800	85	45	2400	60	35
4	5200	300	160	4800	190	70	4000	170	85	2400	90	50	2000	60	35
5	4000	330	160	3800	230	75	3200	210	110	2000	95	50	1600	65	35
6	3400	340	170	3200	260	85	2800	240	120	1600	100	50	1300	70	40
7	3000	320	170	2800	240	80	2200	220	120	1400	100	50	1150	70	40
8	2600	310	160	2400	240	80	2000	220	110	1200	100	50	1000	70	40
9	2300	300	150	2100	230	80	1800	220	110	1100	100	50	900	70	40
10	2100	280	150	1900	230	80	1600	210	100	1000	100	50	800	70	40
11	1900	280	140	1700	220	80	1400	200	100	900	100	50	720	70	40
12	1700	280	140	1600	220	80	1300	200	100	800	100	50	660	70	40
16	1300	260	130	1200	180	80	900	160	100	600	100	50	500	70	40
20	1050	200	100	1000	180	80	700	160	100	500	100	50	400	70	40
25	850	200	100	800	160	80	560	160	100	400	100	50	320	70	40

切削量基準
Depth of cut
D(直徑 Dia.)



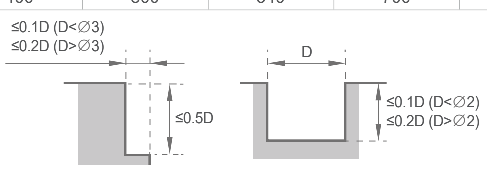
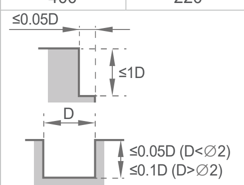
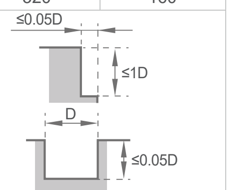
注意事項：
1.切削沃斯田鐵系列不鏽鋼時，請使用非水溶性切削油效果較好。
2.機械設備或工件的夾持剛性不足，出現震動時，請以相同比例按上表降低回轉數及進給速度。
3.縱向進給時，進給速度請設定為上表之1/3以下。

Notes：
1.In cutting Austenitic stainless steels, the use of non-water-soluble cutting fluid is especially effective.
2.If the rigidity of the machine of the work material installation is very low, or chattering is generated, please reduce the revolution and the feed rate proportionately.
3.When drilling, please set the feed rate at 1/3 or below of the above value.

STANDARD CUTTING CONDITIONS

碳化鎢端銑刀-四刃

Carbide Standard End Mills - 4 Flute

被削材 Work Material	炭素鋼 . 合金鋼 (~30HRC) Carbon steel, Alloy steel S50C, SCM, 鑄鐵 FC250 等 AISI 1049, Cast iron		合金鋼 . 工具鋼 (30~45HRC) Alloy steel, Tool steel 預硬鋼 , SKD61, NAK 等 Prehardned steel, AISI H13		沃斯田鐵系列不鏽鋼 Austenitic stainless steel SUS304, SUS316 等 AISI 304, AISI316		熱處理鋼 (45~55HRC) Hardned steel SKD61, SKD11, NAK, STAVAX 等 AISI H13		熱處理鋼 (55~60HRC) Hardned steel SKD11 等 AISI D2	
切削速度 Cutting Speed	50~100 m/min		50~70 m/min		30~60 m/min		30~50 m/min		15~30 m/min	
直徑 (mm) Diameter	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate
1	20000	360	19000	220	16000	180	9500	160	8000	100
1.5	14000	360	13000	220	10500	180	6400	160	6000	100
2	10000	360	10000	280	8000	180	4800	180	4200	120
2.5	8000	400	7600	300	6400	200	3800	200	3200	150
3	6800	420	6400	320	5400	200	3200	220	2800	160
3.5	6000	460	5600	380	4600	200	2800	220	2400	160
4	5200	460	4800	400	4000	200	2400	240	2000	180
5	4000	500	3800	400	3200	220	2000	260	1600	200
6	3400	520	3200	400	2800	220	1600	260	1300	200
7	3000	500	2800	400	2200	220	1400	260	1150	200
8	2600	500	2400	400	2000	220	1200	260	1000	200
9	2300	480	2100	400	1800	220	1100	260	900	200
10	2100	480	1900	400	1600	220	1000	260	800	200
11	1900	420	1700	400	1400	220	900	260	720	200
12	1700	420	1600	400	1300	220	800	260	660	200
16	1300	420	1200	340	900	180	600	220	500	160
20	1050	400	1000	340	800	180	500	220	400	160
25	850	400	800	340	700	180	400	220	320	160
切削量基準 Depth of cut D(直徑 Dia.)	 ≤0.1D (D<∅3) ≤0.2D (D>∅3) ≤0.5D D ≤0.1D (D<∅2) ≤0.2D (D>∅2)						 ≤0.05D ≤1D D ≤0.05D (D<∅2) ≤0.1D (D>∅2)		 ≤0.05D ≤1D D ≤0.05D	

注意事項：

1.切削沃斯田鐵系列不鏽鋼時，請使用非水溶性切削油效果較好。

2.機械設備或工件的夾持剛性不足，出現震動時，請以相同比例按上表降低回轉數及進給速度。

3.縱向進給時，進給速度請設定為上表之1/3以下。

Notes：

1.In cutting Austenitic stainless steels, the use of non-water-soluble cutting fluid is especially effective.

2.If the rigidity of the machine of the work material installation is very low, or chattering is generated, please reduce the revolution and the feed rate proportionately.

3.When drilling, please set the feed rate at 1/3 or below of the above value.

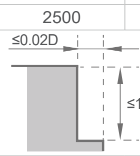
STANDARD CUTTING CONDITIONS

碳化鎢端銑刀－ 四刃－高速切削條件表

Carbide Standard End Mills - 4 Flute , High-Speed Milling Conditions

被削材 Work Material	炭素鋼．合金鋼 (~30HRC) Carbon steel, Alloy steel S50C, SCM, 鑄鐵 FC250 等 AISI 1049, Cast iron		合金鋼．工具鋼 (30~45HRC) Alloy steel, Tool steel 預硬鋼， SKD61, NAK 等 Prehardned steel, AISI H13		沃斯田鐵系列不鏽鋼 Austenitic stainless steel SUS304, SUS316 等 AISI 304, AISI316		熱處理鋼 (45~55HRC) Hardned steel SKD61, SKD11, NAK, STAVAX 等 AISI H13		熱處理鋼 (55~60HRC) Hardned steel SKD11 等 AISI D2	
切削速度 Cutting Speed	250 m/min		200 m/min		160 m/min		80 m/min		50 m/min	
直徑 (mm) Diameter	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate
1	50000	1600	50000	1200	50000	1000	25600	500	16000	320
2	40000	2600	42000	2000	25600	1600	12800	500	8000	320
3	26000	2600	21000	2000	17000	1600	8500	500	5300	320
4	20000	2600	16000	2000	12800	1600	6400	500	4000	320
5	16000	2600	12600	2000	10000	1600	5100	500	3200	320
6	14000	2600	10000	2000	8500	1600	4200	500	2600	320
8	10000	2600	8000	2000	6400	1600	3200	500	2000	320
10	8000	2600	6400	2000	5100	1600	2500	500	1600	320
12	6600	2600	5300	2000	4200	1600	2100	500	1300	320
16	5000	2000	4000	1500	3200	1200	1600	380	1000	240
20	4000	2000	3200	1500	2500	1200	1300	380	800	240

切削量基準
Depth of cut
D(直徑 Dia.)

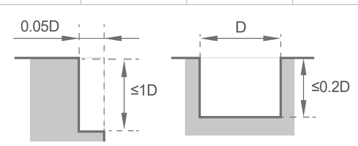


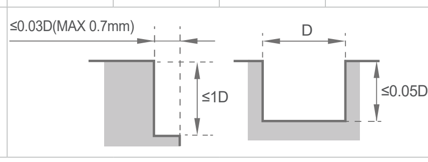
碳化鎢端銑刀－六刃

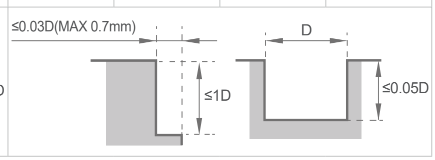
Carbide Square Type Standard End Mill For Hard Stell - 6 Flute

被削材 Work Material	熱處理鋼 ~50HRC Hardned steel SKD61,HPM 等				熱處理鋼 (50~55HRC) Hardned steel SKD61, SKD11, NAK, STAVAX 等				熱處理鋼 (55~60HRC) Hardned steel SKD11 AISI D2 等			
切削速度 Cutting Speed	30~80 m/min				30~70 m/min				20~60 m/min			
直徑 (mm) Diameter	進給速度 mm/min Feed Rate				進給速度 mm/min Feed Rate				進給速度 mm/min Feed Rate			
	回轉數 (min-1) Speed	側面 Side Milling	回轉數 (min-1) Speed	溝 Slotting	回轉數 (min-1) Speed	側面 Side Milling	回轉數 (min-1) Speed	溝 Slotting	回轉數 (min-1) Speed	側面 Side Milling	回轉數 (min-1) Speed	溝 Slotting
3	3800	520	2000	260	3200	380	1600	140	2600	260	1300	130
4	2800	450	1400	230	2400	360	1200	180	2000	260	1000	130
5	5000	1200	2600	600	4500	1000	2300	500	3800	800	1900	400
6	4200	1300	2500	780	3700	1100	2200	660	3200	680	1600	340
8	3200	1500	1900	900	2800	1300	1700	780	2400	750	1200	380
10	2600	1500	1600	900	2200	1300	1300	780	1900	900	900	450
12	2100	1300	1300	780	1900	1100	1100	660	1600	960	800	480
16	1600	1200	1000	650	1400	900	900	500	1200	760	680	400
20	1200	1000	1000	500	1100	800	800	450	1000	700	600	400

切削量基準
Depth of cut
D(直徑 Dia.)







注意事項：
1.機械設備或工件的夾持剛性不足，出現震動時，請以相同比例按上表降低回轉數及進給速度。
2.側面加工時，請以下銑法（順銑法）進行。
3.請使用油霧（Oil-mist）冷卻或吹氣方式（Air-blow）進行切割。

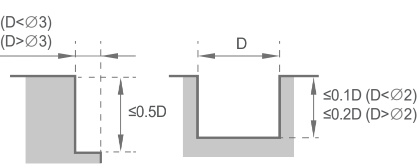
Notes：
1.If the rigidity of the machine of the work material installation is very low, or chattering is generated, please reduce the revolution and the feed rate proportionately.
2.Climb cut is recommended for side milling.
3.Use Oil-mist or Air-blow coolant.

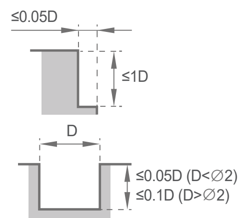
STANDARD CUTTING CONDITIONS

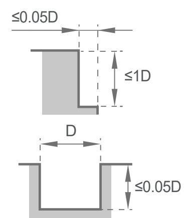
碳化鎢圓鼻銑刀 － 四刃-高速切削條件表
Carbide Corner Radius Short Flute End Mills - 4 Flute , High-Speed Milling Conditions

被削材 Work Material	炭素鋼 . 合金鋼 (~30HRC) Carbon steel, Alloy steel S50C, SCM, 鑄鐵 FC250 等 AISI 1049, Cast iron		合金鋼 . 工具鋼 (30~45HRC) Alloy steel, Tool steel 預硬鋼 , SKD61, NAK 等 Prehardned steel, AISI H13		沃斯田鐵系列不鏽鋼 Austenitic stainless steel SUS304, SUS316 等 AISI316		熱處理鋼 (~55HRC) Hardned steel SKD61, SKD11, NAK, STAVAX 等 AISI H13		熱處理鋼 (55~60HRC) Hardned steel SKD11 AISI D2 等	
切削速度 Cutting Speed	300 m/min		200m/min		150 m/min		80~100 m/min		50 m/min	
直徑 (mm) Diameter	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate
3	30000	2700	21000	1800	15800	540	10000	450	5300	200
4	24000	2800	16000	1800	12000	540	8000	450	4000	210
6	16000	2800	10000	1800	8000	540	5200	450	2600	220
8	12000	2300	8000	1400	6000	480	4000	420	2000	200
10	9500	2000	6400	1280	4800	420	3200	380	1600	180
12	8000	1800	5300	1100	4000	420	2600	380	1300	150

切削量基準 Depth of cut D(直徑 Dia.)



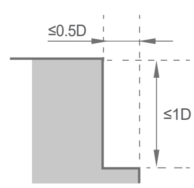




碳化鎢鋁合金加工專用端銑刀-三刃
Carbide Aluminum End Mills - 3 Flute

被削材 Work Material	鋁 Aluminum 1070		鋁合金 Aluminum Alloy 2017、5052、7075		鑄造鋁 Aluminum Cast AC8C	
切削速度 Cutting Speed	300 m/min（側面 Side Milling)		350 m/min（側面 Side Milling)		220 m/min（側面 Side Milling)	
直徑 (mm) Diameter	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	mm/min Feed Rate
1	20000	1000	20000	1000	20000	1000
1.5	20000	1200	20000	1200	20000	1200
2	20000	1500	20000	1500	20000	1500
3	20000	2000	20000	2200	20000	2200
4	20000	2200	20000	2400	17000	2200
5	20000	2400	20000	3000	14000	2000
6	16000	2400	18000	3200	11700	2000
8	12000	2400	14000	3200	8800	2000
10	9600	2400	11000	3500	7000	2000
12	8000	2400	9300	3500	6000	2000
16	6000	2000	7000	2800	4400	1700
20	4800	2000	5600	2800	3500	1700

切削量基準 Depth of cut D(直徑 Dia.)



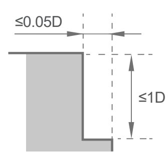
STANDARD CUTTING CONDITIONS

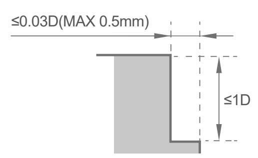
碳化鎢端銑刀 － 六刃－高速切削條件表

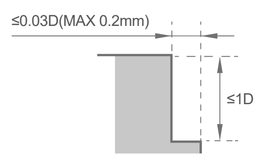
Carbide Square Type Standard End Mill For Hard Stell - 6 Flute, High-Speed Milling Conditions

被削材 Work Material	熱處理鋼 ~50HRC Hardned steel SKD61,HPM 等				熱處理鋼 (50~55HRC) Hardned steel SKD61, SKD11, NAK, STAVAX 等				熱處理鋼 (55~60HRC) Hardned steel SKD11 AISI D2 等			
切削速度 Cutting Speed	80~140 m/min				75~120 m/min				45~100 m/min			
直徑 (mm) Diameter	進給速度 mm/min Feed Rate				進給速度 mm/min Feed Rate				進給速度 mm/min Feed Rate			
	回轉數 (min-1) Speed	側面 Side Milling	回轉數 (min-1) Speed	溝 Slotting	回轉數 (min-1) Speed	側面 Side Milling	回轉數 (min-1) Speed	溝 Slotting	回轉數 (min-1) Speed	側面 Side Milling	回轉數 (min-1) Speed	溝 Slotting
3	11000	1500	5400	750	9600	1100	4800	550	7400	740	3700	370
4	8000	1300	4000	650	7200	1100	3600	550	5600	740	2800	370
5	9000	2100	4600	1100	7600	1800	3800	900	5200	1100	2600	550
6	7400	2200	4500	1300	6400	1900	3900	1150	5300	1100	2700	550
8	5600	2600	3400	1560	4800	2200	2900	1320	4000	1300	2000	650
10	4500	2600	2700	1560	3800	2200	2400	1320	3200	1500	1600	740
12	3700	2200	2200	1320	3200	1900	2000	1100	2600	1600	1300	800
16	2800	2200	1600	1320	2400	1900	1400	1100	2000	1600	1000	800
20	2200	1800	1300	960	1920	1500	1200	960	1600	1280	760	600

切削量基準 Depth of cut D(直徑 Dia.)





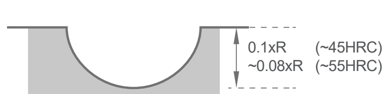


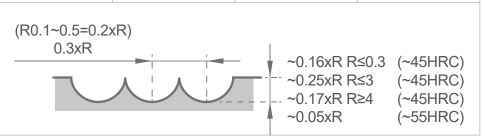
碳化鎢球銑刀－二刃

Carbide Ball Nose Standard End Mills - 2 Flute

被削材 Work Material	炭素鋼 . 合金鋼 (~30HRC) Carbon steel, Alloy steel S50C, SCM, 鑄鐵 FC250 等 AISI 1049, Cast iron		合金鋼 . 工具鋼 (30~45HRC) Alloy steel, Tool steel 預硬鋼 , SKD61, NAK 等 Prehardned steel, AISI H13		沃斯田鐵系列不鏽鋼 Austenitic stainless steel SUS304, SUS316 等 AISI 304, AISI316		熱處理鋼 (45~55HRC) Hardned steel SKD61, SKD11, NAK, STAVAX 等 AISI H13		熱處理鋼 (55~60HRC) Hardned steel SKD11 等 AISI D2	
切削速度 Cutting Speed	150 m/min		120~150 m/min		80~100 m/min		高速條件		高速條件	
R: 球頭半徑 Radius	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate
0.1	50000	400	50000	340	50000	200	20000	250	20000	250
0.2	50000	620	50000	600	50000	620	20000	320	20000	320
0.3	50000	920	50000	940	50000	900	20000	460	20000	460
0.4	50000	1200	48000	1200	48000	900	20000	580	20000	580
0.5	48000	1400	38000	1200	28000	900	20000	1200	20000	800
0.75	30000	1200	24000	1000	18000	680	20000	1600	20000	1200
1	24000	1100	18000	800	14000	600	20000	2400	20000	2000
1.5	16000	920	13000	600	9600	460	16000	2400	14000	2000
2	12000	920	10000	580	7200	460	12000	2000	9600	1600
2.5	9600	920	8000	560	5800	460	9600	2000	7600	1200
3	8000	920	6400	540	4800	460	8000	1600	6400	1000
4	6000	900	4800	540	3600	460	4000	1000	4000	800
5	4800	900	3800	540	2800	460	3200	1000	3200	800
6	4000	900	3200	540	2400	460	2800	1000	2800	800
8	3000	900	2400	540	2000	460	2400	800		
10	2400	900	1800	520	1400	460	1800	800		

切削量基準 Depth of cut D(直徑 Dia.)





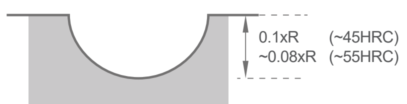
STANDARD CUTTING CONDITIONS

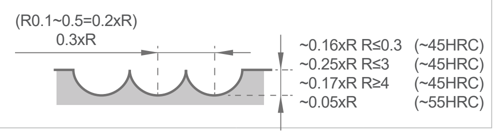
碳化鎢球銑刀－四刃

Carbide Ball Nose Standard End Mills - 4 Flute

被削材 Work Material	炭素鋼 . 合金鋼 (~30HRC) Carbon steel, Alloy steel S50C, SCM, 鑄鐵 FC250 等 AISI 1049, Cast iron		合金鋼 . 工具鋼 (30~45HRC) Alloy steel, Tool steel 預硬鋼 , SKD61, NAK 等 Prehardned steel, AISI H13		沃斯田鐵系列不鏽鋼 Austenitic stainless steel SUS304, SUS316 等 AISI 304, AISI316		熱處理鋼 (45~55HRC) Hardned steel SKD61, SKD11, NAK, STAVAX 等 AISI H13		熱處理鋼 (55~60HRC) Hardned steel SKD11 等 AISI D2	
切削速度 Cutting Speed	150 m/min		120~150 m/min		80~100 m/min		高速條件		高速條件	
R: 球頭半徑 Radius	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate
1.5	16000	1400	13000	900	9600	680	16000	3000	14000	2600
2	12000	1400	10000	860	7200	680	12000	2600	9600	2600
2.5	9600	1400	8000	840	5800	680	9600	2600	7600	1600
3	8000	1400	6400	800	4800	680	8000	2000	6400	1300
4	6000	1320	4800	800	3600	680	4000	1400	4000	1000
5	4800	1320	3800	800	2800	680	3200	1400	3200	1000
6	4000	1320	3200	800	2400	680	2800	1400	2800	1000
8	3000	1320	2800	800	2000	680	2400	1000		
10	2400	1320	1800	780	1400	680	1800	1000		

切削量基準
Depth of cut
D(直徑 Dia.)



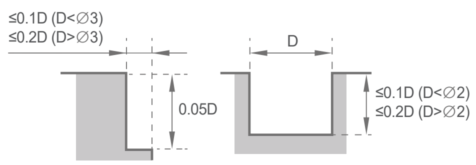
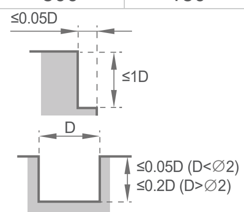
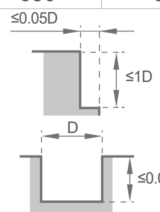


注意事項：
1.溝加工時之進給速度，請設定為上述⊠之60%。
2.刀具夾持突出量，以4D為基準，超出上述場合時，請將切削條件作適度之調整。
3.請使用油霧（Oil-mist）冷卻或吹氣方式（Air-blow）進行切割。
4.主軸回轉及床台進給速度，請以相同比例作適度調整。

Notes：
1.When slotting, reduce the feed by 60% from above values.
2.Length of overhang is 4 times dia. As standard. When it is longer then 4 times dia. Follow figures of above table.
3.Use Oil-mist or Air-blow coolant.
4.Adjust both spindle speed and feed according to milling conditions and machine rigidity.

碳化鎢圓鼻銑刀－四刃

Carbide Corner Radius Short Flute End Mills - 4 Flute

被削材 Work Material	炭素鋼．合金鋼 (~30HRC) Carbon steel, Alloy steel S50C, SCM, 鑄鐵 FC250 等 AISI 1049, Cast iron		合金鋼．工具鋼 (30~45HRC) Alloy steel, Tool steel 預硬鋼， SKD61, NAK 等 Prehardned steel, AISI H13		沃斯田鐵系列不鏽鋼 Austenitic stainless steel SUS304, SUS316 等 AISI316		熱處理鋼 (~55HRC) Hardned steel SKD61, SKD11, NAK, STAVAX 等 AISI H13		熱處理鋼 (55~60HRC) Hardned steel SKD11 AISI D2 等	
切削速度 Cutting Speed	60~80 m/min		50~70 m/min		30~50 m/min		20~40 m/min		15~30 m/min	
直徑 (mm) Diameter	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate
1	25000	500	19000	380	12800	190	9600	190	5600	100
1.5	17000	500	12000	380	8500	190	6400	190	3700	100
2	12000	500	9600	380	6400	190	4800	190	2800	100
3	8500	450	6400	250	4300	120	3200	100	1800	55
4	6400	450	4800	250	3200	120	2700	100	1400	75
6	4200	500	3200	270	2100	150	1800	120	1200	75
8	3200	540	2400	300	1600	170	1400	140	1000	75
10	2560	560	1900	320	1200	190	1000	160	800	70
12	2100	580	1600	340	1000	200	800	180	650	65
切削量基準 Depth of cut D(直徑 Dia.)	 						 		 	

注意事項：

1.切削沃斯田鐵系列不鏽鋼時，請使用非水溶性切削油效果較好。

2.機械設備或工件的夾持剛性不足，出現震動時，請以相同比例按上表降低回轉數及進給速度。

3.縱向進給時，進給速度請設定為上表之1/3以下。

Notes：

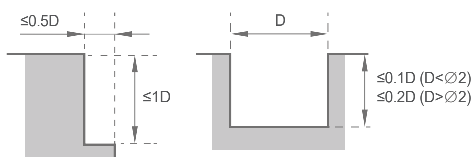
1.In cutting Austenitic stainless steels, the use of non-water-soluble cutting fluid is especially effective.

2.If the rigidity of the machine of the work material installation is very low, or chattering is generated, please reduce the revolution and the feed rate proportionately.

3.When drilling, please set the feed rate at 1/3 or below of the above value.

碳化鎢塑膠加工專用端銑刀-單刃　二刃

Carbide Plastic End Mills - single and 2 Flute

被削材 Work Material	銅 Copper		鋁 Aluminum		樹脂 Plastic	
切削速度 Cutting Speed	50~150 m/min		100~200 m/min		40~60 m/min	
直徑 (mm) Diameter	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate	回轉數 (min-1) Speed	進給速度 mm/min Feed Rate
0.5	40000	600	40000	600	40000	400
0.6	40000	600	40000	600	40000	400
0.7	40000	700	40000	700	36000	400
0.8	40000	800	40000	800	32000	400
0.9	40000	900	40000	900	28000	400
1	40000	1200	32000	1000	26000	400
1.5	32000	1200	26000	1200	17000	400
2	24000	1200	24000	1200	12600	400
3	16000	1200	20000	1500	8500	360
4	12000	1000	18000	1700	6400	360
5	9600	1000	14000	1700	5100	360
6	6000	1000	13000	1700	4200	360
8	8000	900	11000	1800	3200	320
10	4800	800	8800	1800	2500	300
12	4000	760	7400	1800	2100	300
16	3000	680	5400	1800	1600	300
20	2400	600	4200	1800	1200	300
切削量基準 Depth of cut D(直徑 Dia.)						

PHÂN LOẠI LƯỠI DAO

CERMET TURNING BLAD

TNMG160404HQ TNMG160408HQ	CNMG120404HQ CNMG120408HQ	WNMG080404HQ WNMG080408HQ	DCMT070204HQ DCMT11 T304HQ DCMT11 T308HQ
CCMT060204HQ CCMT09T304HQ CCMT09T308HQ	VBMT110304HQ VBMT160404HQ	TNMG160404MT TNMG160408MT	CNMG120404MT CNMG120408MT
WNMG080404MT WNMG080408MT	DCMT070204MT DCMT1 1T304MT DCMT1 1T308MT	CCMT060204MT CCMT09T304MT CCMT09T308MT	VBMT160404MT
TCMT090204MT TCMT110204MT TCMT16T304MT TCMT16T308MT	VNMG160404MT	DNMG150404RVF	TNMG160404R-VF TNMG160408L-VF
DCGT0702005E R/L-U DCGT070201E R/L-U DCGT070202E R/L-UDGT11T3005E R/L-UDCGT11T302E R/L-U	DCGT0702005 R/L-F DCGT070201 R/L-F DCGT070202 R/L-F DCGT11T3005 R/L-F DCGT11T301 R/L-F DCGT11T302 R/L-F	CCGT0602005E R/L-U CCGT060201E R/L-U CCGT060202E R/L-U CCGT09T301E R/L-U CCGT09T302E R/L-U	CCGT 0602005 R/L-F CCGT 060201 R/L-F CCGT 060202 R/L-F CCGT09T3005 R/L-F CCGT09T301 R/L-F CCGT09T302 R/L-F
VBGT1 10301 R/L-Y VBGT1 10302 R/L-Y VBGT1 10304 R/L-Y	VBGT1 103003 R/L-Y VBGT1 10301 R/L-Y VBGT1 10302 R/L-Y	TNGG160402R/L-2G TNGG160404R/L-2G TNGG160408R/L-2G	TNGG160402R/L-P TNGG160404R/L-P TNGG160408R/L-P
TNGG160402R/L-C TNGG160404R/L-C TNGG160408R/L-C	TNGG160402R/L-F TNGG160404R/L-F TNGG160408R/L-F	TBGT060202L TBGT060204L TBGH080202L TBGH080204L	TPGH090202L TPGH090204L TPGH110302L TPGH110304L
WBGT060102L-F WBGT060104L-F	APMT1604-M2	APMT1135-M2	SEKT1204AFTN-XM
SEEN1203AFTN SEEN1504AFTN	APMT1604-H2	APMT1135-H2	RPMW1003MO
RPMT08T2-JS RPMT10T3-JS RPMT1204-JS RPMT1606-JS	LNMU0303ZER-MJ	APMT1135-H2 APMT1604-H2	APMT1604
APMT1135	RPMW1003MO	RPMT1204	

TURNING INSERT FOR METAL

APMT1135-H2 APMT1604-H2	APMT1135 APMT1604	MGMN200 MGMN300 MGMN400	MGGN200 MGGN300 MGGN400

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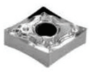
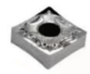
ALUMINUM TURNING INSERT

DCGT070202 DCGT070204 DCGT070208 	TCGT16T302 TCGT16T304 TCGT16T308 TCGT16T312 	DCGT11T302 DCGT11T304 DCGT11T308 	CCGT060202 CCGT060204 CCGT060208 
CCGT09T302 CCGT09T304 CCGT09T308 	CCGT120402 CCGT120404 CCGT120408 CCGT120412 	VCGT110302 VCGT110304 VCGT110308 VBGT110302 VBGT110304 VBGT110308 	VCGT160402 VCGT160404 VCGT160408 VBGT160302 VBGT160304 VBGT160308 
SCGT120402 SCGT120404 SCGT120408 SCGT120412 	SCGT09T302 SCGT09T303 SCGT09T308 	TCGT090202 TCGT090204 	TCGT110202 TCGT110204 TCGT110208 
TNMG160402 TNMG160404 TNMG160408 TNMG160412 	CNMG120402 CNMG120404 CNMG120408 CNMG120412 	WNMG080402 WNMG080404 WNMG080408 WNMG080412 	VNMG160402 VNMG160404 VNMG160408 VNMG160412 
			SNMG120402 SNMG120404 SNMG120408 SNMG120412 

ALUMINUM PARTING/GROOVING INSERT

MGMN200-G MGMN250-G MGMN300-M MGMN400-M MGMN500-M 	MGGN120 MGGN200 MGGN250 MGGN300 MGGN400 MGGN500 	MRMN150-G MRMN200-G MRMN250-G MRMN300-G MRMN400-M MRMN500-M 

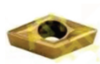
ALUMINUM MILLING INSERT

APKT1604 	APKT1604-G2 	APKT1003 	RPGT0702 RPGT0802 RPGT1003 RPGT10T3 RPGT1605 
APKT1604-MA3 	APKT1135-G2 	SEHT1204 	

ALUMINUM TURNING INSERT

WCGT030208-DA WCGT040208-DA WCGT050308-DA WCGT06T308-DA WCGT080412-DA 	SPGG050204-DA SPGG060204-DA SPGG07T308-DA SPGT090408-DA SPGG110408-DA SPGG140512-DA 

TURNING INSERT FOR STEEL

VBMT160404MV VBMT160408MV 	VCMT160404 VCMT160408 	TCMT110202EM TCMT110204EM TCMT16T304EM TCMT16T308EM 	CCMT060204EM CCMT060208EM CCMT09T304EM CCMT120404EM CCMT120408EM 

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TURNING INSERT FOR CAST IRON

CNMA120404 CNMA120408	SNMS120404 SNMA120408	WNMA080404 WNMA080408 WNMA080412	TNMG160404 TNMG160408
WNMG080404 WNMG080408	CNMG120404 CNMG120408	SNMG120404 SNMG120408	CCMT060204 CCMT060208 CCMT09T304 CCMT09T308 CCMT120404 CCMT120408
DNMG150604 DNMG150608 DNMG150612	DCMT070204 DCMT070208 DCMT11T304 DCMT11T308	TCMT110204 TCMT16T304 TCMT16T308	VNMG160404 VNMG160408

SMALL PARTS/BORING INSERT

DCGT11T305E R/L-U DCGT1T301E R/L-C DCGT11T302E E/L-U	DCGT1T305 R/L-F DCGT11T301 R/L-F DCGT11T302 R/L-F	DCGT0702005E R/L-U DCGT070202E R/L-U DCGT070202E R/L-U	DCGT0702005 R/L-F DCGT070201 R/L-F DCGT070202 R-L-F
CCGT09T3005E R/L-U CCGT09T301E R/L-U CCGT09T302E R/L-U	CCGT09T305 R/L-F CCGT09T301 R/L-F CCGT09T302 R/L-F	CCGT0602005E R/L-U CCGT060201E R/L-U CCGT060202E R/L-U	CCGT0602005 R/L-F CCGT060201 R/L-F CCGT060202 R/L-F
VBGT110301 R/L-Y VBGT110302 R/L-Y VBGT110304 R/L-Y	WBGT060102L-F WBGT060104L-F	TNGG160401R/L-S TNGG160402R/L-S TNGG160404R/L-S	TNGG160401R/L-C TNGG160402R/L-C TNGG160404R/L-C
			TBGH060202L TBGH060204L TPGH080202L TPGH080204L TPGH090202L TPGH090204L TPGH110302L TPGH110304L

TURNING INSERT FOR STAINLESS STEEL

CCMG120404MA CCMG120408MA	TNMG160404MA TNMG160408MA

TURNING INSERT FOR STAINLESS STEEL

WNMG080404MA WNMG080408MA	SNMG120404MA SNMG120408MA	VNMG160404MA VNMG160408MA	TNMG160404MS TNMG160408MS
CNMG120404MS CNMG120408MS	WNMG080404MS WNMG080408MS	VNMG160404MS VNMG160408MS	VBMT110304MV VBMT160404MV
VCMT160404 VCMT160408	DNMG150404MA DNMG150408MA	DNMG150404MS DNMG150408MS	TCMT090204 TCMT090208 TCMT110202 TCMT110204 TCMT16T304 TCMT16T308
DCMT070204 DCMT070208 DCMT11T304 DCMT11T308	CCMT060202 CCMT060204 CCMT09T304 CCMT09T308 CCMT120404 CCMT120408	SNMG120404	TNMG160404BF TNMG160408BF

PHÂN LOẠI LƯỠI DAO

WNMG080404BF
WNMG080408BF

TNMG160404BM
TNMG160408BM

WNMG080408BM
WNMG080408BM

VNMG160404 HM
VNMG160408 HM

VNMG160404OM
VNMG160408OM

WNMG080404OM
WNMG080408OM

TNMG160404OM
TNMG160408OM

CNMG120404OM
CNMG120408OM

DNMG110404MA
DNMG110408MA

DCMT070204OM
DCMT070208OM
DCMT11T304OM
DCMT11T308OM

CCMT060204OM
CCMT060208OM
CCMT09T304OM
CCMT09T308OM
CCMT120404OM
CCMT120408OM

TCMT110204OM
TCMT16T304OM

WNMG080404R/L-S
WNMG080408R/L-S

TNMG160404R/L-S
TNMG160408R/L-S

THREADING INSERT FOR UNIVERSAL

06IR A55/A60
08IR A55/A60
11IR A55/A60
11IR 0.5-1.5IOS
16IR/ER 0.5-3.0IOS
16IR/ER 8-24UN
16IR/ER 11-19W
16IR/ER 8-27NPT
16IR/ER 11-19BSPT
16IR/ER 1.5-3.0TR
22IR/ER 0.5-6.0ISO
22IR/ER 3-6.0TR

11UID C60
16UID E60
16UID H60

THREADING INSERT FOR STEEL

06IR A55/A60
08IR A55/A60
11IR A55/A60
11IR 0.5-1.5IOS
16IR/ER 0.5-3.0IOS
16IR/ER 8-24UN
16IR/ER 11-19W
16IR/ER 8-27NPT
16IR/ER 11-19BSPT
16IR/ER 1.5-3.0TR
22IR/ER 0.5-6.0ISO
22IR/ER 3-6.0TR

THREADING INSERT FOR STAINLESS STEEL

11IRM A55/A60
11IRM 0.5-2.0IOS
11IRM 12-32UN
11IRM 14/19/28BSPT
11IRM 18/27NPT
11IRM 1.5TR
16IRM 0.5-3.5IOS
16IRM 8-48UN
16IRM 8-32UNJ
16IRM -40W
16IRM 8-27NPT/NPTF
16IRM 11/14/19BSPT
16IRM 1.5-3.0ISO

APMT1 13502PDER
APMT1 13504PDER
APMT160402PDER
APMT160404PDER
APMT1 13516-DM
APMT160416-DM
APMT1 13520-DQ
APMT160420-DW
APMT160420-DW
WNMU040304
WNMU060408
6NGU060408R
6NGU090508R
BLMP0603R-M
BLMP0904R-M
3PKT060304R
3PKT100408R
3PKT150508R
3PKT190608R
LOGU030310

ANHX160708R

SNMU130508BEN-GM

XNMU0906ANTR-M

SDMT120512-GH
SDMT150512-PH

SNMX1306ANTIN

SEMT13T3AGSN-JM

SEMT13T3AFGN-TT

APKT150412

SEMR1203AFTN
SEMR1504AFTN

SNMX1205ANN-F57

SEGT13T3AGFN-JP

SPMT120408

HNMG0907ANSN-R

SNMX1206ANN-MM

SNGX1206ANN-GM

ONMU050505-TIN

LPGT010210ER

4NKT060308R-M

PHÂN LOẠI LƯỠI DAO

U DRILLING INSERT

WCMX030208FN
WCMX040208FN
WCMX050308FN
WCMX06T308FN
WCMX080412FN

WCMX030208
WCMX040208
WCMX050308
WCMX06T308
WCMX080412

SPMG050204DG
SPMG060204DG
SPMG07T308DG
SPMG090408DG
SPMG110408DG
SPMG140512DG

SOMT050204DP
SOMT060204DP
SOMT070306DP
SOMT08T306DP
SOMT09T308DP
SOMT11T308DP
SOMT130408DP
SOMT150510DP

TDC2
TDC3
TDC4

TDT3E-0.4
TDT4E-0.4

TDJ2
TDJ3
TDJ4

VC1604R150
VC1604R200
VC1604R250
VC1604R300

FC1604R100
FC1604R150
FC1604R200
FC1604R250
FC1604R300
FC1604R100

FINE WHET KNIFE SLICES

CCGT060202-ML
CCGT060204-ML
CCGT09T301-ML
CCGT09T302-ML
CCGT09T304-ML

16IRM 8/10/12ACME
16IRM 06/08/10RD
22IRM 0.5-6.0IOS
22IRM 3.0-6.0.0TR
22IRM 5/6/7UN
22IRM 5/6ACME

16ERM 0.5-3.5IOS
16ERM 8-48UN
16ERM 8-32UNJ
16ERM 8-40W
16ERM 8-27NPT/NPTF
16ERM 11/14/19BSPT
16ERM 1.5-3.0IOS
16ERM 8/10/12ACME
16ERM 06/08/10RD
22ERM 0.5-6.0IOS
22ERM 3.0-6.0IOS
22ERM 5/6/7UN
22ERM 5/6/7W
22ERM 5/6ACME

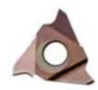
VCGT110302-ML
VCGT110304-ML
VBGT110302-ML
VBGT110304-ML
VCGT160401-ML
VCGT160402-ML
VCGT160404-ML
VBGT160401-ML
VBGT160402-ML
VBGT160404-ML

DCGT070202-ML
DCGT070204-ML
DCGT11T301-ML
DCGT11T302-ML
DCGT11T304-ML

GROOVING/ PARTING INSERT

MGMN150-G
MGMN200-G
MGMN250-M
MGMN300-M
MGMN400-M
MGMN500-M
MGMN600-M

TGF32R 050-300
TGF32R 050-300-24
TGF32R 050-300
GBA43R 050-450
GBA43L 050-450

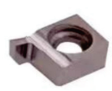


TGF32050-R025
TGF32050-R150
GBA43R100-050R
GBA43R300-150R

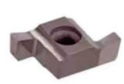
ABS15R4005
ABS15R4015

CTP10FR
CTP15FR
CTP10FL
CTP15FL
CTPA10FR
CTPA15FR
CTPA20FR
CTPA10FL
CTPA15FL
CTPA20FL

6GR 100
6GR 150
6GR 200
7GR 100
7GR 150
7GR 120
7GR 250



8GR 100
8GR 150
8GR 200
8GR 250
8GR 300



9GR 100
9GR 150
9GR 200
9GR 250
9GR 300

CER100-A
CER120-A
CER150-A
CER200-A

CER100-B
GER120-B
GER150-B
GER200-B
GER250-B
GER300-B

GER100-C
GER150-C
GER200-C
GER250-C
GER300-C

GER100-D
GER150-D
GER200-D
GER250-D
GER300-D
GER400-D

SP200-400

11IR 0.5-2.0
16IR 0.5-3.0
16ER 0.5-3.0

MGMN150-G
MGMN200-G
MGMN250-M
MGMN300-M
MGMN400-M
MGMN500-M
MGMN600-M

MGGN150
MGGN200
MGGN250
MGGN300
MGGN400
MGGN500
MGGN600

MRGN200-JM
MRGN300-JM
MRGN400-JM

PHÂN LOẠI LƯỠI DAO

NON-STANDARD GROOVING INSERT

MGGN100-G
MGGN150-G
MGGN200-G
MGGN250-G
MGGN300-G
MGGN350-G
MGGN400-G
MGGN450-G
MGGN500-G
MGGN550-G
MGGN600-G

VNGG160401-HA
VNGG160402-HA

WNGG080401-HA
WNGG080402-HA

CNGG120401-HA
CNGG120402-HA

TNGG160401-HA
TNGG160402-HA

DCGT11T301-HA
DCGT11T302-HA

CCGT09T302-HA

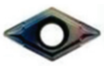
VCGT110302-HA

VBGT110302-SA
VBGT110304-SA

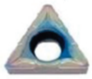
7 COLOUR HIGHT HARD SERIES

CCMT060204
CCMT060208
CCMT09T304
CCMT09T308
CCMT120404
CCMT120408

DCMT070204
DCMT070208
DCMT1 1T304
DCMT1 1T308

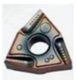


TCMT1 10204
TCMT16T304
TCMT16T308



TNMG160404R-UF
TNMG160404L-UF
TNMG160408R-UF
TNMG160408L-UF

WNMG080404R-UF
WNMG080404L-UF
WNMG080408R-UF
WNMG080408L-UF



CNMG120404-TF
CNMG120408-TF

WNMG080404-MA
WNMG080408-MA
WNMG080404-TF
WNMG080408-TF

TNMG160404-TF
TNMG160408-TF

VNMG160402-DF
VNMG160404-NF
VNMG160408-TF

APMT1604PDER
APMT1 135DER
APMT1604PDER-H2
APMT1 135DER-H2
APMT1604PDER-JC

WNMU080608EN-GM

SNMU130508EN

RPMT1204MO-TT

RPMW1003MO-TT

SEKT1204AFTIN

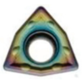
MGMN200-G
MGMN250-G

MGMN300-M
MGMN400-M

MGMN200-JM
MGMN400-JM

SPMG050204
SPMG060204
SPMG07T308
SPMG090408
SPMG1 10408
SPMG140512

WCMX030208FN
WWCMX040208FN
WCMT050308FN
WCMT06T308FN
WCMT0804102FN



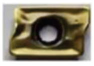
TBGT060102L
TBGT060104L
TPGH080202L
TPGH080204L
TPGH090202L
TPGH090204L
TPGH1 10202L
TPGH1 10204L
TPGH1 10302L
TPGH1 10304L

LOGU030310ER-GM

3PKT150508R-M

STAINLESS STEEL

APKT1705PDER-EM



SPMT09T304R1.0
SPMT09T304R1.5
SPMT09T304R2.0
SPMT09T304R2.5
SPMT09T304R3.0

SPMT09-R1.0
SPMT09-R1.5
SPMT09-R2.0
SPMT09-R3.0

PHÂN LOẠI LƯỠI DAO

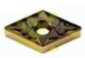
THREADING INSERT FOR ALUMINUM

16ER AG60
16ER AG55
16ER 11W
16ER 14W
16ER 19W
16ER 8NPT
16ER 11.5NPT
16ER 14NPT
16ER 18NPT
16ER 050ISO
16ER 075ISO
16ER 100ISO
16ER 125ISO
16ER 150ISO
16ER 175ISO
16ER 175ISO
16ER200ISO
16ER 250ISO
16ER 300ISO

16IR AG55
16IR AG 60
16IR 11W
16IR 14W
16IR 19W
16IR 8NPT
16IR 11.5 NTP
16IR 14NPT
16IR 18NPT
16IR 050ISO
16IR 075ISO
16IR 100ISO
16IR 125ISO
16IR 150ISO
16IR 175ISO
16IR 200ISO
16IR 250ISO
16IR 300ISO

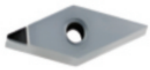
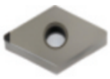
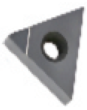
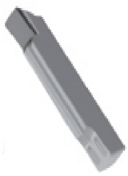
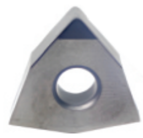
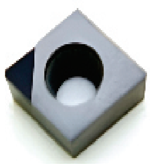
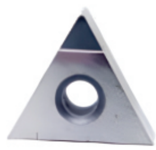
08IR A55
08IR A60
08IR 050ISO
08IR 100ISO
08IR 150ISO
08IR 200ISO

TURNING INSERT FOR STEEL

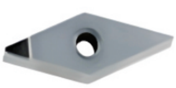
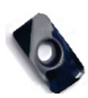
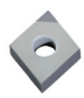
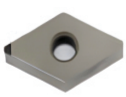
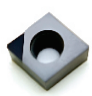
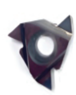
TNMG 160404HQ TNMG 160408HQ 	CNMG 120404HQ CNMG 120408HQ 	WNMG080404HQ WNMG080408HQ 	TNMG160404TM TNMG160408TM TNMG160412TM 
CNMG120404TM CNMG120408TM 	WNMG080404TM WNMG080408TM WNMG080412TM 	VNMG160404TM VNMG160408TM 	DNMG150404TM DNMG150408TM 
DNMG150404TM DNMG150408TM 	SNMG120404TM SNMG120408TM 	TNMG160404R/L-S TNMG160408R/L-S 	WNMG080404R/L-S WNMG080408R/L-S 
SNMG120404R/L-S SNMG120408R/L-S 	VBMT160404PC VBMT160408PC VCMT160404PC VCMT160408PC 	TNMG160404PC TNMG160408PC 	CNMG120404PC CNMG120408PC CNMG120412PC 
WNMG080404PC WNMG080408PC WNMG080412PC 	DNMG110404MA DNMG110408MA 	DCMT070204PC DCMT070208PC DCMT11T304PC DCMT11T308PC 	CCMT060204PC CCMT060208PC CCMT09T304PC CCMT09T304PC CCMT120404PC CCMT120408PC 
TCMT110204PC TCMT16T304PC TCMT16T308PC 	TNMG160404MA TNMG160408MA 	CNMG120404MA CNMG120408MA 	WNMG080404MA WNMG080408MA 
SNMG120404MA SNMG120408MA 	VNMG160404MA VNMG160408MA 		

LƯỠI DAO PCD VÀ CBN

PCD

	CNGA120402 CNGA120404		VNGA160402 VNGA160404		TBGT060102 TBGT060104
	DNGA150404		APKT113504 APKT160404		SNGA120402 SNGA120404
	TNGA160402 TNGA160404		VCGT110302 VCGT110304 VCGT160402 VCGT160404		TPGH080202 TPGH080204 TPGH090202 TPGH110302 TPGH110304
	SEKT1204		MGMN200 MGMN300 MGMN400		WNGA080402 WNGA080404 WNGA080408
	CCGT060201 CCGT060202 CCGT120202 CCGT120204		DCGT070202 DCGT070204 DCGT117301 DCGT11T302 DCGT117304		TCGT090202 TCGT090204 TCGT110202 TCGT110204 TCGT16T302 TCGT16T304 TCGT16T308

CBN

	VNGA160404 VNGA160408		APKT160404 APKT113504		WNGA080404 WNGA080408		VCGT160404
	DNGA150404 DNGA150408		DCGT070204 DCGT117304		CCGT060204 CCGT120404		MGMN200 MGMN300 MGMN400
	VCGT160404		TNGA160404 TNGA160408		16IR AG60 16IR AG55		

CÁN DAO GẮN MẢNH HỢP KIM

THÔNG SỐ KỸ THUẬT

INSERT LPGT010210

編號 Part No	外徑D	柄徑d	頸長	Neck 全長L	刃數T	刀片 Insert
LHF01-081-100	8	8	20	100	1	LPGT0102
LHF01-091-100	9	10	20	100	1	LPGT0102
LHF01-102-100	10	10	20	100	2	LPGT0102
LHF01-112-100	11	12	20	100	2	LPGT0102
LHF01-123-100	12	12	20	100	3	LPGT0102
LHF01-133-100	13	12	20	100	3	LPGT0102

INSERT LBMT0603PR305

MÃ SẢN PHẨM	ĐƯỜNG KÍNH D	TỔNG CHIỀU DÀI L	SỐ ME DAO T
LHF06-162-S16-150L	16	130	2
LHF06-203-S20-150L	20	150	3
LHF06-213-S20-150L	21	150	3
LHF06-254-S25-150L	25	150	4
LHF06-264-S25-150L	26	150	4
LHF06-324-S32-200L	32	200	4

MÃ SẢN PHẨM	ĐƯỜNG KÍNH D	TỔNG CHIỀU DÀI L	SỐ ME DAO T
LHF06-172-M8	17	23	2
LHF06-213-M10	21	30	3
LHF06-264-M12	26	35	4

	Vc	Fz
THÉP 35↓	130~200	0.2~0.4
THÉP 35↑	80~150	0.2~0.3
INOX	100~160	0.2~0.4

DAO ĐỊNH HÌNH

MTR BARS | DAO MÓC LỖ

MXR BARS | DAO MÓC LỖ

MPR BARS | DAO MÓC LỖ

MDR BARS | DAO KHẮC REN VÁT MÉP VÀ TẠO RÃNH

MKR BARS| DAO TẠO RÃNH BÁN KÍNH ĐẦY ĐỦ

MFR BARS | DAO TẠO RÃNH BỀ MẶT VỚI PHÔI CŨ

MVR BARS| DAO TẠO RÃNH SÂU

MUR BARS | DAO MÓC LỖ

MQR BARS | DAO MÓC LỖ

MIR BARS | DAO TẠO REN

MCR BARS | DAO VÁT MÉP VÀ MÓC LỖ

MGR BARS | DAO TẠO RÃNH

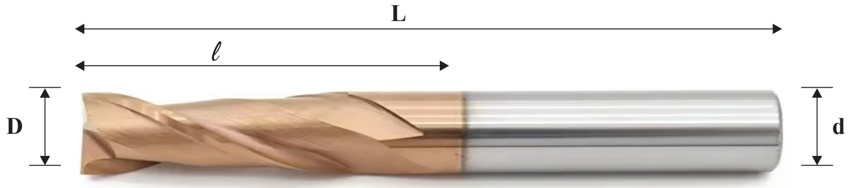
MFR BARS | DAO TẠO RÃNH BỀ MẶT

MFL BARS | DAO TẠO RÃNH BỀ MẶT

MZR BARS | DAO TẠO RÃNH BỀ MẶT

DAO PHAY NGÓN HỢP KIM

2T

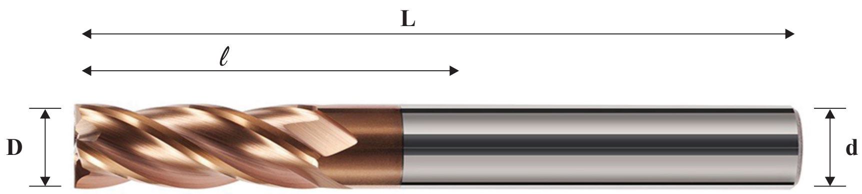


MÃ SẢN PHẨM	ĐƯỜNG KÍNH D	ĐỘ DÀI ME DAO l	TỔNG CHIỀU DÀI L	ĐƯỜNG KÍNH CÁN d	SỐ ME DAO T
B120101S	1	3	50	4	2T
B120102S	2	6	50	4	2T
B120103S	3	8	50	4	2T
B120104S	4	10	50	4	2T
B120105	5	13	50	6	2T
B120106	6	15	50	6	2T
B120108	8	20	60	8	2T
B120110	10	25	75	10	2T
B120112	12	30	75	12	2T
B120116	16	40	100	16	2T
B120120	20	45	100	20	2T

DAO PHAY NGÓN HỢP KIM TỔNG DÀI THAY ĐỔI

MÃ SẢN PHẨM	ĐƯỜNG KÍNH D	ĐỘ DÀI ME DAO l	TỔNG CHIỀU DÀI L	ĐƯỜNG KÍNH CÁN d	SỐ ME DAO T
B123104S-75	4	10	75	4	2T
B123104S-100	4	10	100	4	2T
B123106-75	6	15	75	6	2T
B123106-100	6	15	100	6	2T
B123106-150	6	15	150	6	2T
B123108-75	8	25	75	8	2T
B123108-100	8	20	100	8	2T
B123108-150	8	20	150	8	2T
B123110-100	10	30	100	10	2T
B123110-150	10	30	150	10	2T
B123112-100	12	30	100	12	2T
B123112-150	12	30	150	12	2T
B123116-150	16	75	150	16	2T

4T

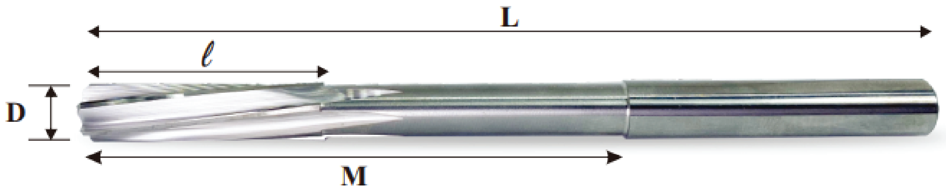


MÃ SẢN PHẨM	ĐƯỜNG KÍNH D	ĐỘ DÀI ME DAO l	TỔNG CHIỀU DÀI L	ĐƯỜNG KÍNH CÁN d	SỐ ME DAO T
B140101S	1	3	50	4	4T
B140102S	2	6	50	4	4T
B140103S	3	8	50	4	4T
B140104S	4	10	50	4	4T
B140105	5	13	50	6	4T
B140106	6	15	50	6	4T
B140108	8	20	60	8	4T
B140110	10	25	75	10	4T
B140112	12	30	75	12	4T
B140114	14	40	100	16	4T
B140116	16	40	100	16	4T
B140120	20	45	100	20	4T

DAO PHAY NGÓN HỢP KIM TỔNG DÀI THAY ĐỔI

MÃ SẢN PHẨM	ĐƯỜNG KÍNH D	ĐỘ DÀI ME DAO l	TỔNG CHIỀU DÀI L	ĐƯỜNG KÍNH CÁN d	SỐ ME DAO T
B143104S-75	4	10	75	4	4T
B143104S-100	4	10	100	4	4T
B143106-75	6	15	75	6	4T
B143106-100	6	15	100	6	4T
B143106-150	6	15	150	6	4T
B143108-75	8	25	75	8	4T
B143108-100	8	20	100	8	4T
B143108-150	8	20	150	8	4T
B143110-100	10	30	100	10	4T
B143110-150	10	30	150	10	4T
B143112-100	12	30	100	12	4T
B143112-150	12	30	150	12	4T
B143116-150	16	75	150	16	4T

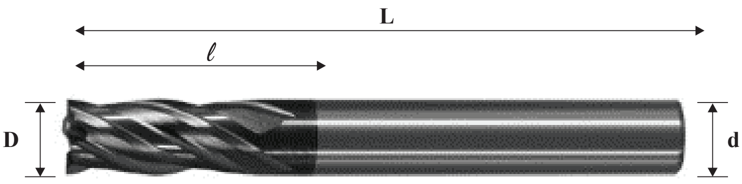
DAO DOA HỢP KIM



MÃ SẢN PHẨM	ĐƯỜNG KÍNH D	ĐỘ DÀI ME DAO *l*	TỔNG DÀI L	CHIỀU DÀI RÃNH M	SỐ ME DAO T
JER2-2.0	2.0	11	49	24	4
JER2-2.1	2.1	11	49	24	4
JER2-2.2	2.2	12	53	26	4
JER2-2.3	2.3	12	53	26	4
JER2-2.4	2.4	14	57	28	4
JER2-2.5	2.5	14	57	28	4
JER2-2.6	2.6	14	57	28	4
JER2-2.7	2.7	15	61	32	4
JER2-2.8	2.8	15	61	32	4
JER2-2.9	2.9	15	61	32	4
JER2-3.0	3.0	15	61	32	4
JER2-3.1	3.1	16	65	35	4
JER2-3.2	3.2	16	65	35	4
JER2-3.3	3.3	16	65	35	4
JER2-3.4	3.4	18	70	40	4
JER2-3.5	3.5	18	70	40	4
JER2-3.6	3.6	18	70	40	4
JER2-3.7	3.7	18	70	40	4
JER2-3.8	3.8	19	75	43	4
JER2-3.9	3.9	19	75	43	4
JER2-4.0	4.0	19	75	43	4
JER2-4.1	4.1	19	75	43	4
JER2-4.2	4.2	19	75	43	4
JER2-4.3	4.3	21	80	47	4
JER2-4.4	4.4	21	80	47	4
JER2-4.5	4.5	21	80	47	4
JER2-4.6	4.6	21	80	47	4
JER2-4.7	4.7	21	80	47	4
JER2-4.8	4.8	23	86	52	4
JER2-4.9	4.9	23	86	52	4
JER2-5.0	5.0	23	86	52	4
JER2-5.1	5.1	23	86	52	4
JER2-5.2	5.2	23	86	52	4
JER2-5.3	5.3	23	86	52	4
JER2-5.4	5.4	26	93	57	4
JER2-5.5	5.5	26	93	57	4
JER2-5.6	5.6	26	93	57	4
JER2-5.7	5.7	26	93	57	4
JER2-5.8	5.8	26	93	57	4
JER2-5.9	5.9	26	93	57	4
JER2-6.0	6.0	26	93	57	6
JER2-6.1	6.1	28	101	63	6

MÃ SẢN PHẨM	ĐƯỜNG KÍNH D	ĐỘ DÀI ME DAO *l*	TỔNG DÀI L	CHIỀU DÀI RÃNH M	SỐ ME DAO T
JER2-6.2	6.2	28	101	63	6
JER2-6.3	6.3	28	101	63	6
JER2-6.4	6.4	28	101	63	6
JER2-6.5	6.5	28	101	63	6
JER2-6.6	6.6	28	101	63	6
JER2-6.7	6.7	28	101	63	6
JER2-6.8	6.8	31	109	69	6
JER2-6.9	6.9	31	109	69	6
JER2-7.0	7.0	31	109	69	6
JER2-7.1	7.1	31	109	69	6
JER2-7.2	7.2	31	109	69	6
JER2-7.3	7.3	31	109	69	6
JER2-7.4	7.4	31	109	69	6
JER2-7.5	7.5	31	109	69	6
JER2-7.6	7.6	33	117	75	6
JER2-7.7	7.7	33	117	75	6
JER2-7.8	7.8	33	117	75	6
JER2-7.9	7.9	33	117	75	6
JER2-8.0	8.0	33	117	75	6
JER2-8.1	8.1	33	117	75	6
JER2-8.2	8.2	33	117	75	6
JER2-8.3	8.3	33	117	75	6
JER2-8.4	8.4	33	117	75	6
JER2-8.5	8.5	33	117	75	6
JER2-8.6	8.6	36	125	80	6
JER2-8.7	8.7	36	125	80	6
JER2-8.8	8.8	36	125	80	6
JER2-8.9	8.9	36	125	80	6
JER2-9.0	9.0	36	125	80	6
JER2-9.1	9.1	36	125	80	6
JER2-9.2	9.2	36	125	80	6
JER2-9.3	9.3	36	125	80	6
JER2-9.4	9.4	36	125	80	6
JER2-9.5	9.5	36	125	80	6
JER2-9.6	9.6	38	133	90	6
JER2-9.7	9.7	38	133	90	6
JER2-9.8	9.8	38	133	90	6
JER2-9.9	9.9	38	133	90	6
JER2-10.0	10.0	38	133	90	6
JER2-11.0	11.0	41	142	95	6
JER2-12.0	12.0	44	151	105	6
JER2-13.0	13.0	44	151	105	6

DAO PHAY THÉP RT



特點：

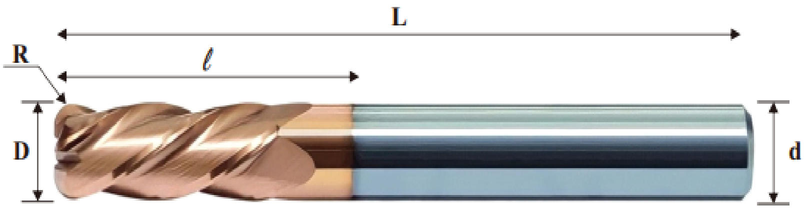
● 適用於一般模具，機械零件加工。
● 粗加工、精加工兼具之切削刀具。
● 使用水溶性切削液，效果最佳化。

FEATURES：

● Applicable to processing molds and mechanical parts.
● Cutting tools for roughing and finishing.

產品編號 Code No.	刃徑 Dia.	柄徑 Shank	刃長 L.O.C	全長 O.A.L
B140101SRT	1	4	2.5	50
B1401015SRT	1.5	4	4	50
B140102SRT	2	4	5	50
B1401025SRT	2.5	4	6	50
B140103RT	3	6	8	50
B140103SRT	3	4	8	50
B1404035SRT	3.5	4	9	50
B140104SRT	4	4	10	50
B140105RT	5	6	13	50
B1401055RT	5.5	6	14	50
B140406RT	6	6	15	50
B1401065RT	6.5	8	18	60
B140108RT	8	8	20	60
B140110RT	10	10	25	75
B140112RT	12	12	30	75
B140116RT	16	16	40	100
B140118RT	18	20	40	100
B140120RT	20	20	40	100
B143103SRT-75	3	4	8	75
B143104SRT-75	4	4	10	75
B143104RT-75	4	6	10	75
B143105RT-75	5	6	13	75
B143106RT-75	6	6	15	75
B143106RT-100	6	6	15	100
B143108RT-100	8	8	20	100
B143110RT-150	10	10	25	150
B143112RT-100	12.0	12.0	30	100
B143114RT-150	14	16	35	150
B143116RT-150	16.0	16.0	40	150
B143118RT-150	18	20	40	150
B143120RT-150	20.0	20.0	40	150

DAO PHAY BO GÓC HỢP KIM

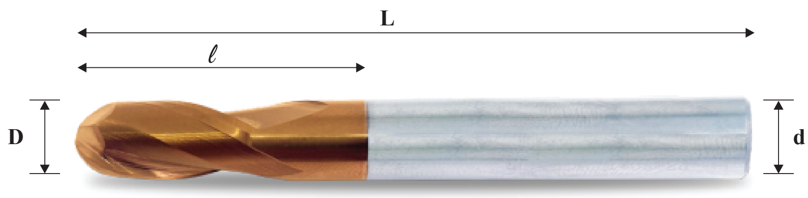


MÃ SẢN PHẨM	ĐƯỜNG KÍNH D	GÓC BO R	ĐỘ DÀI ME DAO *l*	TỔNG CHIỀU DÀI L	ĐƯỜNG KÍNH CÁN d	SỐ ME DAO T
B14030202S	2	0.2	6	50	4	4
B14030203S	2	0.3	6	50	4	4
B14030205S	2	0.5	6	50	4	4
B14030302S	3	0.2	8	50	4	4
B14030303S	3	0.3	8	50	4	4
B14030305S	3	0.5	8	50	4	4
B14030402S	4	0.2	10	50	4	4
B14030403S	4	0.3	10	50	4	4
B14030405S	4	0.5	10	50	4	4
B14030503	5	0.3	13	50	6	4
B14030505	5	0.5	13	50	6	4
B14030602	6	0.2	16	50	6	4
B14030603	6	0.3	16	50	6	4
B14030605	6	0.5	16	50	6	4
B14030610	6	1.0	16	50	6	4
B14030803	8	0.3	20	60	8	4
B14030805	8	0.5	20	60	8	4
B14030810	8	1.0	20	60	8	4
B14031005	10	0.5	25	75	10	4
B14031010	10	1	25	75	10	4
B14031220	12	2	25	75	12	4

DAO PHAY BO GÓC TỔNG DÀI THAY ĐỔI

MÃ SẢN PHẨM	ĐƯỜNG KÍNH D	GÓC BO R	ĐỘ DÀI ME DAO *l*	TỔNG CHIỀU DÀI L	ĐƯỜNG KÍNH CÁN d	SỐ ME DAO T
B14330305-75	3	0.5	3	75	4	4
B14330310-75	3	1	3	75	4	4
B14330405-75	4	0.5	4	75	4	4
B14330605-100	6	0.5	6	100	6	4
B14330610-100	6	1	6	100	6	4
B14330805-100	8	0.5	8	100	8	4
B14330810-100	8	1	8	100	8	4
B14331005-100	10	0.5	10	100	10	4
B14331010-100	10	1	10	100	10	4
B14331020-100	10	2	10	100	10	4

DAO PHAY CẦU HỢP KIM

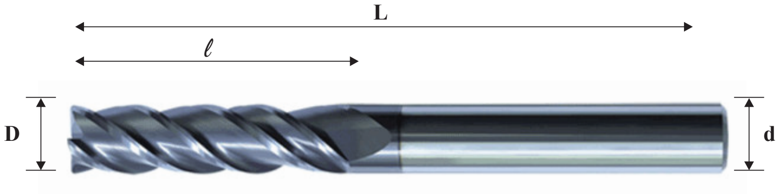


MÃ SẢN PHẨM	BÁN KÍNH GÓC R	ĐỘ DÀI ME DAO *l*	TỔNG CHIỀU DÀI L	ĐƯỜNG KÍNH CÁN d	SỐ ME DAO T
B120201S	0.5R	2	50	4	2
B1202015S	0.75R	3	50	4	2
B120202S	1R	4	50	4	2
B1202025S	1.25R	5	50	4	2
B120203SS	1.5R	6	50	3	2
B120203S	1.5R	6	50	4	2
B120204S	2R	8	50	4	2
B120205	2.5R	10	50	6	2
B120206	3R	12	50	6	2
B120208	4R	16	60	8	2
B120210	5R	20	75	10	2
B120212	6R	24	75	12	2
B120216	8R	32	100	16	2

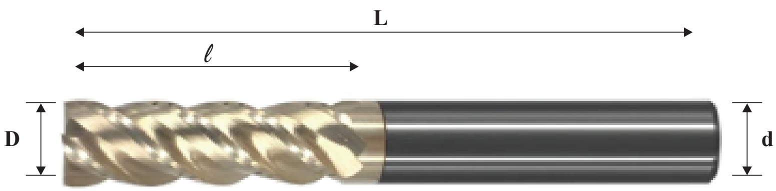
DAO PHAY CẦU HỢP KIM TỔNG DÀI THAY ĐỔI

MÃ SẢN PHẨM	BÁN KÍNH GÓC R	ĐỘ DÀI ME DAO *l*	TỔNG CHIỀU DÀI L	ĐƯỜNG KÍNH CÁN d	SỐ ME DAO T
B123204-75	2R	8	75	4	2
B123204-100	2R	8	100	4	2
B123206-75	3R	12	75	6	2
B123206-100	3R	12	100	6	2
B123206-150	3R	12	150	6	2
B123208-75	4R	16	75	8	2
B123208-100	4R	16	100	8	2
B123208-150	4R	16	150	8	2
B123210-100	5R	20	100	10	2
B123210-150	5R	20	150	10	2
B123212-100	6R	24	100	12	2
B123212-150	6R	24	150	12	2
B123216-150	8R	32	150	16	2

DAO PHAY INOX

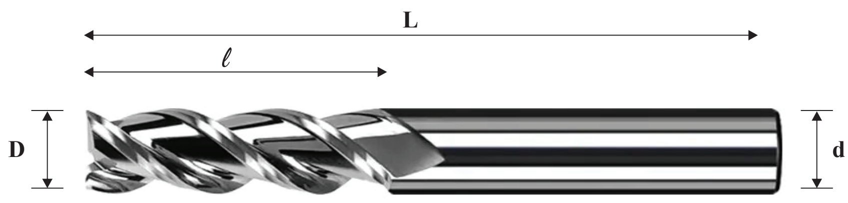


MÃ SẢN PHẨM	ĐƯỜNG KÍNH D	ĐỘ DÀI ME DAO *l*	TỔNG CHIỀU DÀI L	ĐƯỜNG KÍNH CÁN d	SỐ ME DAO T
PXB0304	3	8	50	6	4
PXB0404	4	10	50	6	4
PXB0504	5	13	50	6	4
PXB0604	6	15	50	6	4
PXB0804	8	20	60	8	4
PXB1004	10	25	75	10	4
PXB1204	12	30	75	12	4
PXB1604	16	36	100	16	4
PXB2004	20	36	100	20	4



MÃ SẢN PHẨM	ĐƯỜNG KÍNH D	ĐỘ DÀI ME DAO *l*	TỔNG CHIỀU DÀI L	ĐƯỜNG KÍNH CÁN d	SỐ ME DAO T
PS4SS0404	4	10	50	6	4
PS4SS0604	6	15	50	6	4
PS4SS0804	8	20	60	8	4
PS4SS1004	10	25	75	10	4
PS4SS1204	12	30	75	12	4
PS4SS1604	16	36	100	16	4

DAO PHAY HỢP KIM NHÔM

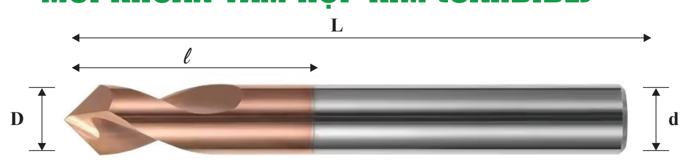


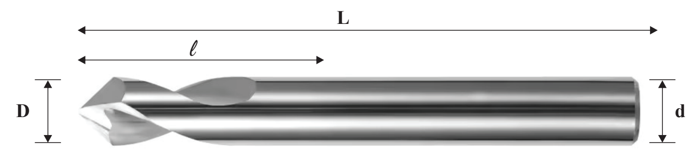
MÃ SẢN PHẨM	ĐƯỜNG KÍNH D	ĐỘ DÀI ME DAO *l*	TỔNG CHIỀU DÀI L	ĐƯỜNG KÍNH CÁN d	SỐ ME DAO T
B530104S	4	12	50	4	3
B530106	6	15	50	6	3
B530108	8	24	60	8	3
B530110	10	30	75	10	3
B530112	12	36	75	12	3
B530116	16	45	100	16	3

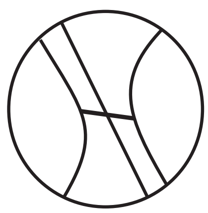
MÃ SẢN PHẨM	ĐƯỜNG KÍNH D	ĐỘ DÀI ME DAO *l*	TỔNG CHIỀU DÀI L	ĐƯỜNG KÍNH CÁN d	SỐ ME DAO T
B530904S	4	12	50	4	3
B530906	6	15	50	6	3
B530908	8	24	60	8	3
B530910	10	30	75	10	3
B530912	12	36	75	12	3
B530916	16	45	100	16	3

MŨI KHOAN TÂM

MŨI KHOAN TÂM HỢP KIM (CARBIDE)

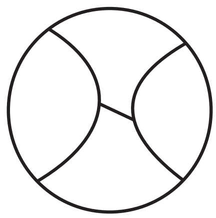






A 60°/90°/120°

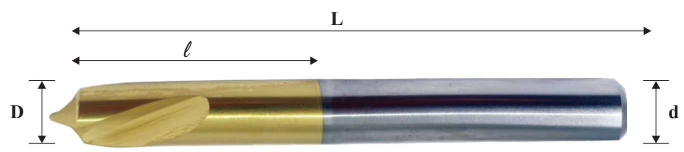
ĐƯỜNG KÍNH D	ĐỘ DÀI ME DAO ℓ	TỔNG CHIỀU DÀI L
4	10	50
6	12	50
8	18	60
10	20	75
12	22	75

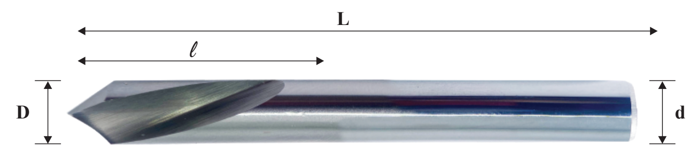


B 90°

ĐƯỜNG KÍNH D	ĐỘ DÀI ME DAO ℓ	TỔNG CHIỀU DÀI L
4	10	50
6	12	50
8	18	60
10	20	75
12	22	75

MŨI KHOAN TÂM THÉP GIÓ (HSS)





ĐƯỜNG KÍNH D	ĐỘ DÀI ME DAO ℓ	TỔNG CHIỀU DÀI L
3	10	50
4	12	50
5	15	60
6	20	60
8	25	79
10	25	89
12	30	102

MŨI KHOAN DÀI

MŨI KHOAN HỢP KIM

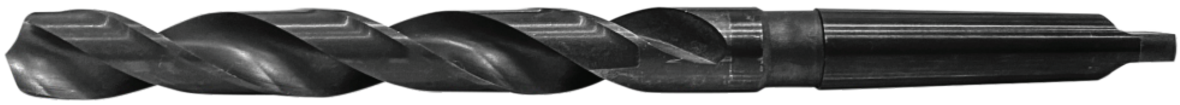
MŨI KHOAN TƯỚI NGUỘI XUYÊN TÂM

MŨI KHOAN HSS TIÊU CHUẨN

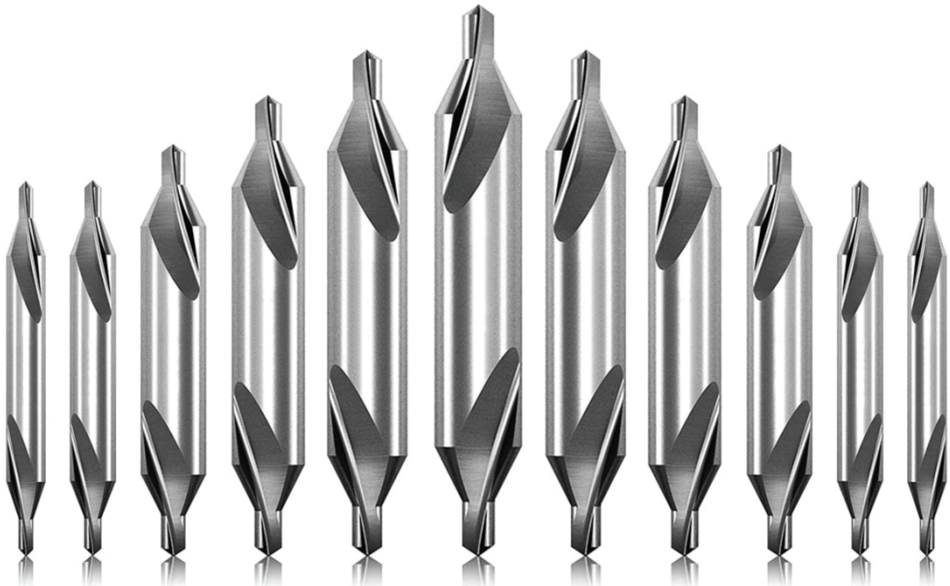
MŨI KHOAN PHỦ TIN

MŨI KHOAN CÁN CF

MŨI KHOAN CHUÔI COL



MŨI KHOAN TRUNG TÂM



- TARO THẲNG
- TARO XOẮN
- TARO NÉN
- TARO HỆ INCH
- TARO TAY

Gia công sắt, thép - Gia công nhôm - Gia công inox

MŨI KHOAN GẮN MẢNH HỢP KIM

Li Guang

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