





















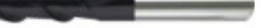





RX®

# Ultra Micro Grain Carbide

RX超微粒碳化鎢系列

# RX UMG

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**EMAK** UMG ALTiN 35° HRC 60° OIL

端銑刀一極小徑二刃 **Micro Diameter End Mills -2 Flute**

產品編號 Code NO	刃徑 Dia	柄徑 Shank	刃長 L. O. C	全長 O. A. L
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	1.0	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



- 特點:
1. 適用於3D精密之銑削加工。
  2. 廣泛使用於HRC 60° 以下之熱處理之模具鋼。
  3. 使用吹起方式或油霧冷卻切削效果最佳化。
  4. 可達到高轉數、高精密度、高效率。
- Features:
1. Applicable to the 3-D precise milling process.
  2. Widely used in hot mold steel with the HRC be low 55°.
  3. Optimized cutting effect by inflation or oil mist cooling.
  4. High rotation speed, high precision and high efficiency.

**BNAK** UMG ALTiN 35° HRC 60° OIL

球銑刀一極小徑四刃 **Ball Nose Micro Diameter End Mills -4 Flute**

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
BNAK204003	0.15R	0.3	4.0	0.6	50
BNAK204004	0.20R	0.4	4.0	0.8	50
BNAK204005	0.25R	0.5	4.0	1.0	50
BNAK204006	0.30R	0.6	4.0	1.2	50
BNAK204007	0.35R	0.7	4.0	1.4	50
BNAK204008	0.40R	0.8	4.0	1.6	50
BNAK204009	0.45R	0.9	4.0	1.8	50



- 特點:
1. 適用於3D精密之銑削加工。
  2. 廣泛使用於HRC 60° 以下之熱處理之模具鋼。
  3. 使用吹起方式或油霧冷卻切削效果最佳化。
  4. 可達到高轉數、高精密度、高效率。
- Features:
1. Applicable to the 3-D precise milling process.
  2. Widely used in hot mold steel with the HRC be low 55°.
  3. Optimized cutting effect by inflation or oil mist cooling.
  4. High rotation speed, high precision and high efficiency.



## 特點:

1. 適用於細長、狹窄之溝槽加工。
2. 廣泛使用於HRC 60°以下之熱處理之模具鋼。
3. 使用吹起方式或油霧冷卻切削效果最佳化。
4. 可達到高轉數、高積密度、高效率。

## Features

1. Applicable to the processing of slender and narrow grooves.
2. Widely used in hot mold steel with the HRC below 55 HRC.
3. Optimized cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.



EMAF

UMG

ALTiN

35°

HRC 60°



OIL



## 深溝加工專用端銑刀 Long Neck End Mills - 2 Flute

產品編號 Code No.	刃徑 Dia.	頸徑 Neck Dia.	柄徑 Shank	有效長 Effective	刃長 L. O. C	全長 O. A. L
EMAF204005-02	0.5	0.46	4.0	2	0.8	50
EMAF204005-04	0.5	0.46	4.0	4	0.8	50
EMAF204005-06	0.5	0.46	4.0	6	0.8	50
EMAF204006-02	0.6	0.56	4.0	2	0.9	50
EMAF204006-04	0.6	0.56	4.0	4	0.9	50
EMAF204006-06	0.6	0.56	4.0	6	0.9	50
EMAF204007-02	0.7	0.66	4.0	2	1.1	50
EMAF204007-04	0.7	0.66	4.0	4	1.1	50
EMAF204007-06	0.7	0.66	4.0	6	1.1	50
EMAF204008-04	0.8	0.76	4.0	4	1.2	50
EMAF204008-06	0.8	0.76	4.0	6	1.2	50
EMAF204008-08	0.8	0.76	4.0	8	1.2	50
EMAF204009-06	0.9	0.86	4.0	6	1.4	50
EMAF204009-08	0.9	0.86	4.0	8	1.4	50
EMAF204009-10	0.9	0.86	4.0	10	1.4	50
EMAF204010-06	1.0	0.96	4.0	6	1.5	50
EMAF204010-08	1.0	0.96	4.0	8	1.5	50
EMAF204010-10	1.0	0.96	4.0	10	1.5	50
EMAF204010-12	1.0	0.96	4.0	12	1.5	50
EMAF204015-06	1.5	1.46	4.0	6	2.3	50
EMAF204015-08	1.5	1.46	4.0	8	2.3	50
EMAF204015-10	1.5	1.46	4.0	10	2.3	50
EMAF204015-12	1.5	1.46	4.0	12	2.3	50
EMAF204015-16	1.5	1.16	4.0	16	2.3	50
EMAF204020-06	2.0	1.96	4.0	6	3.0	50
EMAF204020-08	2.0	1.96	4.0	8	3.0	50
EMAF204020-10	2.0	1.96	4.0	10	3.0	50
EMAF204020-12	2.0	1.96	4.0	12	3.0	50
EMAF204020-16	2.0	1.96	4.0	16	3.0	50
EMAF204030-06	3.0	2.96	4.0	6	4.5	50
EMAF204030-08	3.0	2.96	4.0	8	4.5	50
EMAF204030-10	3.0	2.96	4.0	10	4.5	50
EMAF204030-12	3.0	2.96	4.0	12	4.5	50
EMAF204030-16	3.0	2.96	4.0	16	4.5	50



# EMAA



## 端銑刀-標準型二刃 Standard End Mills - 2 Flute

產品編號 Code NO	刃徑 Dia	柄徑 Shank	刃長 L. O. C	全長 O. A. L
EMAA204010	1.0	4	2.5	50
EMAA204015	1.5	4	4	50
EMAA204020	2.0	4	5	50
EMAA204025	2.5	4	6	50
EMAA204030	3.0	3	8	50
EMAA204030	3.0	4	8	50
EMAA204035	3.5	4	9	50
EMAA204040	4.0	4	10	50
EMAA206010	1.0	6	2.5	50
EMAA206015	1.5	6	4	50
EMAA206020	2.0	6	5	50
EMAA206025	2.5	6	6	50
EMAA206030	3.0	6	8	50
EMAA206035	3.5	6	9	50
EMAA206040	4.0	6	10	50
EMAA206045	4.5	6	11	50
EMAA206050	5.0	6	13	50
EMAA206055	5.5	6	14	50
EMAA206060	6.0	6	15	50
EMAA208065	6.5	8	18	60
EMAA208070	7.0	8	18	60
EMAA208075	7.5	8	20	60
EMAA208080	8.0	8	20	60
EMAA210085	8.5	10	22	75
EMAA210090	9.0	10	22	75
EMAA210095	9.5	10	22	75
EMAA210100	10.0	10	25	75
EMAA212105	10.5	12	25	75
EMAA212110	11.0	12	25	75
EMAA212120	12.0	12	30	75
EMAA216130	13.0	16	35	100
EMAA216140	14.0	16	35	100
EMAA216150	15.0	16	40	100
EMAA216160	16.0	16	40	100
EMAA220180	18.0	20	40	100
EMAA220200	20.0	20	40	100
EMAA225220	22.0	25	40	100
EMAA225250	25.0	25	40	100

特點:

1. 適用於高轉速、高硬度熱處理鋼之加工。
2. 粗加工、精加工兼用之切削刀具。
3. 使用吹氣方式或油霧冷卻切剛效果最佳化。
4. 可達到高轉速、高精密度、高效率。

Features

1. Applicable to the processing of hot steel of high rotation speed and high hardness.
2. Applicable to both rough machining and finishing.
3. Optimized cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.



## EMAA

UMG

ALTiN

35°

HRC  
60°

OIL

## 端銑刀-標準型四刃 Standard End Mills - 4 Flute

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	2.5	50
EMAA404015	1.5	4	4	50
EMAA404020	2.0	4	5	50
EMAA404025	2.5	4	6	50
EMAA404030	3.0	3	8	50
EMAA404030	3.0	4	8	50
EMAA404035	3.5	4	9	50
EMAA404040	4.0	4	10	50
EMAA406010	1.0	6	2.5	50
EMAA406015	1.5	6	4	50
EMAA406020	2.0	6	5	50
EMAA406025	2.5	6	6	50
EMAA406030	3.0	6	8	50
EMAA406035	3.5	6	9	50
EMAA406040	4.0	6	10	50
EMAA406045	4.5	6	11	50
EMAA406050	5.0	6	13	50
EMAA406055	5.5	6	14	50
EMAA406060	6.0	6	15	50
EMAA408065	6.5	8	18	60
EMAA408070	7.0	8	18	60
EMAA408075	7.5	8	20	60
EMAA408080	8.0	8	20	60
EMAA410085	8.5	10	22	75
EMAA410090	9.0	10	22	75
EMAA410095	9.5	10	22	75
EMAA410100	10.0	10	25	75
EMAA412105	10.5	12	25	75
EMAA412110	11.0	12	25	75
EMAA412120	12.0	12	30	75
EMAA416130	13.0	16	35	100
EMAA416140	14.0	16	35	100
EMAA416150	15.0	16	40	100
EMAA416160	16.0	16	40	100
EMAA420180	18.0	20	40	100
EMAA420200	20.0	20	40	100
EMAA425220	22.0	25	40	100
EMAA425250	25.0	25	40	100

## 特點:

1. 適用於高轉速、高硬度熱處理鋼之加工。
2. 粗加工、精加工兼具之切削刀具。
3. 使用吹氣方式或油霧冷卻切剛效果最佳化。
4. 可達到高轉速、高精密度、高效率。

## Features

1. Applicable to the processing of hot steel of high rotation speed and high hardness.
2. Applicable to both rough machining and finishing.
3. Optimize cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.





特點:

1. 適用於高轉速、高硬度熱處理鋼之加工。
2. 刃長為刃徑之5倍，適合側面大面積加工。
3. 使用吹氣方式或油霧冷卻切削效果最佳化。
4. 可達到高轉速、高精密度、高效率。

Features

1. Applicable to the processing of hot steel of high rotation speed and high hardness.
2. The blade length is five times as the diameter, suitable for the processing of large lateral surface.
3. Optimized cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.

EMAB

UMG

ALTiN

50°

HRC 60



OIL



端銑刀-長刃型二刃 Long Flute End Mills - 2 Flute

產品編號 Code No	刃徑 Dia	柄徑 Shank	刃長 L. O. C	全長 O. A. L
EMAB206030	3.0	6.0	15	75
EMAB206040	4.0	6.0	20	75
EMAB206050	5.0	6.0	25	75
EMAB206060	6.0	6.0	30	75
EMAB208080	8.0	8.0	35	100
EMAB210100	10.0	10.0	45	100
EMAB212120	12.0	12.0	50	100
EMAB216140	14.0	16.0	70	150
EMAB216160	16.0	16.0	70	150
EMAB220180	18.0	20.0	75	150
EMAB220200	20.0	20.0	75	150
EMAB225220	22.0	25.0	80	150
EMAB225250	25.0	25.0	80	150



特點:

1. 適用於高轉速、高硬度熱處理鋼之加工。
2. 刃長為刃徑之5倍，適合側面大面積加工。
3. 使用吹氣方式或油霧冷卻切削效果最佳化。
4. 可達到高轉速、高精密度、高效率。

Features

1. Applicable to the processing of hot steel of high rotation speed and high hardness.
2. The blade length is five times as the diameter, suitable for the processing of large lateral surface.
3. Optimized cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.

EMAB

UMG

ALTiN

35°

HRC 60



OIL



端銑刀-長刃型四刃 Long Flute End Mills - 4 Flute

產品編號 Code No	刃徑 Dia	柄徑 Shank	刃長 L. O. C	全長 O. A. L
EMAB406030	3.0	6.0	15	75
EMAB406040	4.0	6.0	20	75
EMAB406050	5.0	6.0	25	75
EMAB406060	6.0	6.0	30	75
EMAB408080	8.0	8.0	35	100
EMAB410100	10.0	10.0	45	100
EMAB412120	12.0	12.0	50	100
EMAB416140	14.0	16.0	70	150
EMAB416160	16.0	16.0	70	150
EMAB420180	18.0	20.0	75	150
EMAB420200	20.0	20.0	75	150
EMAB425220	22.0	25.0	80	150
EMAB425250	25.0	25.0	80	150



## 特點:

1. 廣泛使用於高轉速、高硬度熱處理鋼之加工。
2. 全長加長，適用於深部位之加工刀具。
3. 使用吹氣方式或油霧冷卻切剛效果最佳化。
4. 可達到高轉速、高精密度、高效率。

## Features

1. Applicable to the processing of hot steel of high rotation speed and high hardness.
2. Full-length extension, applicable to the processing of deep parts.
3. Optimized cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.

EMAD

UMG

ALTiN

35°

HRC 60°



## 端銑刀-長柄型二刃 Long Shank End Mills - 2 Flute

產品編號 Code No	刃徑 Dia	柄徑 Shank	刃長 L. O. C	全長 O. A. L
EMAD206030	3.0	6.0	8	75
EMAD204040	4.0	4.0	10	75
EMAD206040	4.0	6.0	10	75
EMAD206050	5.0	6.0	13	75
EMAD206060	6.0	6.0	15	75
EMAE206060	6.0	6.0	15	100
EMAD208080	8.0	8.0	20	100
EMAD210100	10.0	10.0	25	100
EMAD212120	12.0	12.0	30	100
EMAD216140	14.0	16.0	35	150
EMAD216160	16.0	16.0	40	150
EMAD220180	18.0	20.0	40	150
EMAD220200	20.0	20.0	40	150
EMAD225220	22.0	25.0	40	150
EMAD225240	25.0	25.0	40	150



## 特點:

1. 廣泛使用於高轉速、高硬度熱處理鋼之加工。
2. 全長加長，適用於深部位之加工刀具。
3. 使用吹氣方式或油霧冷卻切剛效果最佳化。
4. 可達到高轉速、高精密度、高效率。

## Features

1. Applicable to the processing of hot steel of high rotation speed and high hardness.
2. Full-length extension, applicable to the processing of deep parts.
3. Optimized cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.

EMAD

UMG

ALTiN

35°

HRC 60°



## 端銑刀-長柄型四刃 Long Shank End Mills - 4 Flute

產品編號 Code No	刃徑 Dia	柄徑 Shank	刃長 L. O. C	全長 O. A. L
EMAD406030	3.0	6.0	8	75
EMAD404040	4.0	4.0	10	75
EMAD406040	4.0	6.0	10	75
EMAD406050	5.0	6.0	13	75
EMAD406060	6.0	6.0	15	75
EMAE406060	6.0	6.0	15	100
EMAD408080	8.0	8.0	20	100
EMAD410100	10.0	10.0	25	100
EMAD412120	12.0	12.0	30	100
EMAD416140	14.0	16.0	35	150
EMAD416160	16.0	16.0	40	150
EMAD420180	18.0	20.0	40	150
EMAD420200	20.0	20.0	40	150
EMAD425220	22.0	25.0	40	150
EMAD425240	25.0	25.0	40	150



# BNAF

UMG

ALTiN

35°

HRC 60°



OIL



## 深溝加工專用球銑刀 Ball Nose Long Neck End Mills - 2 Flute

產品編號 Code No	球頭半徑 Radius	刃徑 Dia.	頸徑 Neck Dia.	柄徑 Shank	有效長 Effective	刃長 L.O.C	全長 O.A.L
BNAF 204005-02	0.25R	0.5	0.46	4.0	2	0.8	50
BNAF 204005-04	0.25R	0.5	0.46	4.0	4	0.8	50
BNAF 204005-06	0.25R	0.5	0.46	4.0	6	0.8	50
BNAF 204006-02	0.3R	0.6	0.56	4.0	2	0.9	50
BNAF 204006-04	0.3R	0.6	0.56	4.0	4	0.9	50
BNAF 204006-06	0.3R	0.6	0.56	4.0	6	0.9	50
BNAF 204007-02	0.35R	0.7	0.66	4.0	2	1.1	50
BNAF 204007-04	0.35R	0.7	0.66	4.0	4	1.1	50
BNAF 204007-06	0.35R	0.7	0.66	4.0	6	1.1	50
BNAF 204008-04	0.4R	0.8	0.76	4.0	4	1.2	50
BNAF 204008-06	0.4R	0.8	0.76	4.0	6	1.2	50
BNAF 204008-08	0.4R	0.8	0.76	4.0	8	1.2	50
BNAF 204010-06	0.45R	0.9	0.86	4.0	6	1.4	50
BNAF 204010-08	0.45R	0.9	0.86	4.0	8	1.4	50
BNAF 204010-10	0.45R	0.9	0.86	4.0	10	1.4	50
BNAF 204010-06	0.5R	1.0	0.96	4.0	6	1.5	50
BNAF 204010-08	0.5R	1.0	0.96	4.0	8	1.5	50
BNAF 204010-10	0.5R	1.0	0.96	4.0	10	1.5	50
BNAF 204010-12	0.5R	1.0	0.96	4.0	12	1.5	50
BNAF 204015-06	0.75R	1.5	1.46	4.0	6	2.3	50
BNAF 204015-08	0.75R	1.5	1.46	4.0	8	2.3	50
BNAF 204015-10	0.75R	1.5	1.46	4.0	10	2.3	50
BNAF 204015-12	0.75R	1.5	1.46	4.0	12	2.3	50
BNAF 204015-16	0.75R	1.5	1.46	4.0	16	2.3	50
BNAF 204020-06	1.0R	2.0	1.96	4.0	6	3.0	50
BNAF 204020-08	1.0R	2.0	1.96	4.0	8	3.0	50
BNAF 204020-10	1.0R	2.0	1.96	4.0	10	3.0	50
BNAF 204020-12	1.0R	2.0	1.96	4.0	12	3.0	50
BNAF 204020-16	1.0R	2.0	1.96	4.0	16	3.0	50
BNAF 204030-06	1.5R	3.0	2.96	4.0	6	4.5	50
BNAF 204030-08	1.5R	3.0	2.96	4.0	8	4.5	50
BNAF 204030-10	1.5R	3.0	2.96	4.0	10	4.5	50
BNAF 204030-12	1.5R	3.0	2.96	4.0	12	4.5	50
BNAF 204030-16	1.5R	3.0	2.96	4.0	16	4.5	50

### 特點:

1. 適用於細長、狹窄之溝槽加工。
2. 從低轉速到高轉速進行3D精密加工。
3. 使用吹氣方式或油霧冷卻切削效果最佳化。
4. 可達到高轉速、高精密度、高效率。

### Features

1. Applicable to the processing of slender and narrow grooves.
2. 3-D precise processing with the rotation speed from low to high.
3. Optimized cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.




**特點:**

1. 適用於細長、狹窄之溝槽加工。
2. 從低轉速到高轉速進行3D精密加工。
3. 使用吹氣方式或油霧冷卻切剛效果最佳化。
4. 可達到高轉速、高精密度、高效率。

**Features**

1. Applicable to the processing of slender and narrow grooves.
2. 3-D precise processing with the rotation speed from low to high.
3. Optimized cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.

# BNAA



## 球銑刀-標準型二刃 Ball Nose Standard End Mills - 2 Flute

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
BNAA204010	0.5R	1.0	4.0	2	50
BNAA204015	0.75R	1.5	4.0	3	50
BNAA204020	1.0R	2.0	4.0	4	50
BNAA204025	1.25R	2.5	4.0	5	50
BNAA203030	1.5R	3.0	3.0	6	50
BNAA204030	1.6R	3.0	4.0	6	50
BNAA204040	2.0R	4.0	4.0	8	50
BNAA206010	0.5R	1.0	6.0	2	50
BNAA206015	0.75R	1.5	6.0	3	50
BNAA206020	1.0R	2.0	6.0	4	50
BNAA206025	1.25R	2.5	6.0	5	50
BNAA206030	1.5R	3.0	6.0	6	50
BNAA206040	2.0R	4.0	6.0	8	50
BNAA206050	2.5R	5.0	6.0	10	50
BNAA206060	3.0R	6.0	6.0	12	50
BNAA208070	3.5R	7.0	8.0	14	60
BNAA208080	4.0R	8.0	8.0	16	60
BNAA210100	5.0R	10.0	10.0	20	75
BNAA210120	6.0R	12.0	12.0	24	75


**特點:**

1. 適用於細長、狹窄之溝槽加工。
2. 從低轉速到高轉速進行3D精密加工。
3. 使用吹氣方式或油霧冷卻切剛效果最佳化。
4. 可達到高轉速、高精密度、高效率。

**Features**

1. Applicable to the processing of slender and narrow grooves.
2. 3-D precise processing with the rotation speed from low to high.
3. Optimized cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.

# BNAA



## 球銑刀-標準型四刃 Ball Nose Standard End Mills - 4 Flute

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
BNAA403030	1.5R	3.0	3.0	6	50
BNAA404030	1.5R	3.0	4.0	6	50
BNAA404040	2.0R	4.0	4.0	8	50
BNAA406030	1.5R	3.0	6.0	6	50
BNAA406040	2.0R	4.0	6.0	8	50
BNAA406050	2.5R	5.0	6.0	10	50
BNAA406060	3.0R	6.0	6.0	12	50
BNAA408070	3.5R	7.0	8.0	14	60
BNAA408080	4.0R	8.0	8.0	16	60
BNAA410100	5.0R	10.0	10.0	20	75
BNAA410120	6.0R	12.0	12.0	24	75



## 特點:

1. 適用於細長、狹窄之溝槽加工。
2. 從低轉速到高轉速進行3D精密加工。
3. 使用吹氣方式或油霧冷卻切削效果最佳化。
4. 可達到高轉速、高精密度、高效率。

## Features

1. Applicable to the processing of slender and narrow grooves.
2. 3-D precise processing with the rotation speed from low to high.
3. Optimize d cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.

BNAD

UMG

ALTiN

A  
35°HRC  
60°

OIL

## 球銑刀-長柄型二刃 Ball Nose Long Shank End Mills - 2 Flute

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
BNAD206010	0.5R	1.0	6.0	2	75
BNAD206015	0.75R	1.5	6.0	3	75
BNAD206020	1.0R	2.0	6.0	4	75
BNAD206025	1.25R	2.5	6.0	5	75
BNAD206030	1.5R	3.0	6.0	6	75
BNAD204040	2.0R	4.0	4.0	8	75
BNAD206040	2.0R	4.0	6.0	8	75
BNAD206050	2.5R	5.0	6.0	10	75
BNAD206060	3.0R	6.0	6.0	12	75
BNAE206060	3.0R	6.0	6.0	12	100
BNAD208070	3.5R	7.0	8.0	14	100
BNAD208080	4.0R	8.0	8.0	16	100
BNAE208080	4.0R	8.0	8.0	16	150
BNAD210100	5.0R	10.0	10.0	20	100
BNAE210100	5.0R	10.0	10.0	20	150
BNAD212120	6.0R	12.0	12.0	24	100
BNAE212120	6.0R	12.0	12.0	24	150



## 特點:

1. 適用於細長、狹窄之溝槽加工。
2. 從低轉速到高轉速進行3D精密加工。
3. 使用吹氣方式或油霧冷卻切削效果最佳化。
4. 可達到高轉速、高精密度、高效率。

## Features

1. Applicable to the processing of slender and narrow grooves.
2. 3-D precise processing with the rotation speed from low to high.
3. Optimize d cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.

BNAD

UMG

ALTiN

A  
35°HRC  
60°

OIL

## 球銑刀-長柄型四刃 Ball Nose Long Shank End Mills - 4 Flute

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
BNAD406030	1.5R	3.0	6.0	6	75
BNAD404040	2.0R	4.0	4.0	8	75
BNAD406040	2.0R	4.0	6.0	8	75
BNAD406050	2.5R	5.0	6.0	10	75
BNAD406060	3.0R	6.0	6.0	12	75
BNAE406060	3.0R	6.0	6.0	12	100
BNAD408070	3.5R	7.0	8.0	14	100
BNAD408080	4.0R	8.0	8.0	16	100
BNAE408080	4.0R	8.0	8.0	16	150
BNAD410100	5.0R	10.0	10.0	20	100
BNAE410100	5.0R	10.0	10.0	20	150
BNAD412120	6.0R	12.0	12.0	24	100
BNAE412120	6.0R	12.0	12.0	24	150





- 特點:
1. 廣泛使用於高轉速、高硬度熱處理鋼之加工。
  2. 高剛性、大幅度提升加工效率。
  3. 使用吹氣方式或油霧冷卻切削效果最佳化。
  4. 可達到高轉速、高精密度、高效率。

- Features
1. Applicable to the processing of hot steel of high rotation speed and high hardness.
  2. High rigidity, greatly enhancing the processing efficiency.
  3. Optimized cutting effect by inflation or oil mist cooling.
  4. High rotation speed, high precision and high efficiency.

# BNAG

## 球銑刀-強力型二刃 Ball Nose Short Flute End Mills - 2 Flute

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
BNAG204010	0.5R	1.0	0.96	4.0	1	2.5	50
BNAG204015	0.75R	1.5	1.46	4.0	1.5	4	50
BNAG204020	1.0R	2.0	1.96	4.0	2	6	50
BNAG204025	1.25R	2.5	2.46	4.0	2.5	6	50
BNAG204030	1.5R	3.0	2.96	4.0	3	8	50
BNAG204040	2.0R	4.0	3.96	4.0	4	8	50
BNAG206010	0.5R	1.0	0.96	6.0	1	2.5	50
BNAG206015	0.75R	1.5	1.46	6.0	1.5	4	50
BNAG206020	1.0R	2.0	1.96	6.0	2	6	50
BNAG206025	1.25R	2.5	2.46	6.0	2.5	6	50
BNAG206030	1.5R	3.0	2.96	6.0	3	8	50
BNAG206040	2.0R	4.0	3.96	6.0	4	8	50
BNAG206050	2.5R	5.0	4.96	6.0	5	12	50
BNAG206060	3.0R	6.0	5.96	6.0	6	13	50
BNAG208070	3.5R	7.0	6.95	8.0	7	16	60
BNAG208080	4.0R	8.0	7.95	8.0	8	20	60
BNAG210100	5.0R	10.0	9.94	10.0	10	25	75
BNAG212120	6.0R	12.0	11.94	12.0	12	30	75



- 特點:
1. 廣泛使用於高轉速、高硬度熱處理鋼之加工。
  2. 高剛性、大幅度提升加工效率。
  3. 使用吹氣方式或油霧冷卻切削效果最佳化。
  4. 可達到高轉速、高精密度、高效率。

- Features
1. Applicable to the processing of hot steel of high rotation speed and high hardness.
  2. High rigidity, greatly enhancing the processing efficiency.
  3. Optimized cutting effect by inflation or oil mist cooling.
  4. High rotation speed, high precision and high efficiency.

# HBAG

## 球銑刀-強力型四刃 Ball Nose Short Flute End Mills - 4 Flute

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
HBAG206020	1.0R	2.0	1.8	6.0	2	4	50
HBAG206030	1.5R	3.0	2.7	6.0	3	6	50
HBAG206040	2.0R	4.0	3.6	6.0	4	8	50
HBAG206060	3.0R	6.0	5.4	6.0	6	12	60
HBAG208080	4.0R	8.0	7.2	8.0	8	16	60
HBAG210100	5.0R	10.0	9.0	10.0	10	20	75
HBAG210120	6.0R	12.0	11.0	12.0	12	24	75





特點:

1. 廣泛使用於高轉速、高硬度熱處理鋼之加工。
2. 可同時加工平面及R角。
3. 使用吹氣方式或油霧冷卻切削效果最佳化。
4. 可達到高轉速、高精度、高效率。

Features

1. Applicable to the processing of hot steel of high rotation speed and high hardness.
2. Applicable to the processing of planes and R angles.
3. Optimized cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.

# CRAA



## 圓偶角銑刀-標準型二刃 Corner Radius Standard End Mills - 2 Flute

產品編號 Code No	刃徑 Dia	R角 Corner	柄徑 Shank	刃長 L.O.C	全長 O.A.L
CRAA204010-02	1.0	0.2R	4.0	2.5	50
CRAA204015-02	1.5	0.2R	4.0	4	50
CRAA204015-03	1.5	0.3R	4.0	4	50
CRAA204020-02	2.0	0.2R	4.0	5	50
CRAA204020-03	2.0	0.3R	4.0	5	50
CRAA204030-02	3.0	0.2R	4.0	8	50
CRAA204030-03	3.0	0.3R	4.0	8	50
CRAA204030-05	3.0	0.5R	4.0	8	50
CRAA204040-02	4.0	0.2R	4.0	10	50
CRAA204040-03	4.0	0.3R	4.0	10	50
CRAA204040-05	4.0	0.5R	4.0	10	50
CRAA206060-02	6.0	0.2R	6.0	15	50
CRAA206060-03	6.0	0.3R	6.0	15	50
CRAA206060-05	6.0	0.5R	6.0	15	50
CRAA206060-10	6.0	1.0R	6.0	15	50
CRAA206060-15	6.0	1.5R	6.0	15	50
CRAA208080-02	8.0	0.2R	8.0	20	60
CRAA208080-03	8.0	0.3R	8.0	20	60
CRAA208080-05	8.0	0.5R	8.0	20	60
CRAA208080-10	8.0	1.0R	8.0	20	60
CRAA208080-15	8.0	1.5R	8.0	20	60
CRAA210100-02	10.0	0.2R	10.0	25	75
CRAA210100-03	10.0	0.3R	10.0	25	75
CRAA210100-05	10.0	0.5R	10.0	25	75
CRAA210100-10	10.0	1.0R	10.0	25	75
CRAA210100-15	10.0	1.5R	10.0	25	75
CRAA212120-02	12.0	0.2R	12.0	30	75
CRAA212120-03	12.0	0.3R	12.0	30	75
CRAA212120-05	12.0	0.5R	12.0	30	75
CRAA212120-10	12.0	1.0R	12.0	30	75
CRAA212120-15	12.0	1.5R	12.0	30	75

## 特點:

1. 廣泛使用於高轉速、高硬度熱處理鋼之加工。
2. 高剛性、可大幅縮短粗加工時間，提高效率。
3. 使用吹氣方式或油霧冷卻切剛效果最佳化。
4. 可達到高轉速、高精密度、高效率。

## Features

1. Applicable to the processing of hot steel of high rotation speed and high hardness.
2. High rigidity, greatly reducing the time of rough machining and improving the efficiency.
3. Optimized cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.



# CRAG

UMG

ALTiN

35°

HRC 60°

OIL

R

## 圓偶角銑刀-強力型四刃 Corner Radius Short Flute End Mills - 4 Flute

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
CRAG 404030-02	3.0	0.2R	2.9	4.0	3	10	50
CRAG 404030-03	3.0	0.3R	2.9	4.0	3	10	50
CRAG 404030-05	3.0	0.5R	2.9	4.0	3	10	50
CRAG 404040-02	4.0	0.2R	3.9	4.0	4	12	50
CRAG 404040-03	4.0	0.3R	3.9	4.0	4	12	50
CRAG 404040-05	4.0	0.5R	3.9	4.0	4	12	50
CRAG 406060-02	6.0	0.2R	5.8	6.0	6	18	50
CRAG 406060-03	6.0	0.3R	5.8	6.0	6	18	50
CRAG 406060-05	6.0	0.5R	5.8	6.0	6	18	50
CRAG 406060-10	6.0	1.0R	5.8	6.0	6	18	50
CRAG 406060-15	6.0	1.5R	5.8	6.0	6	18	50
CRAG 408080-02	8.0	0.2R	7.8	8.0	8	24	60
CRAG 408080-03	8.0	0.3R	7.8	8.0	8	24	60
CRAG 408080-05	8.0	0.5R	7.8	8.0	8	24	60
CRAG 408080-10	8.0	1.0R	7.8	8.0	8	24	60
CRAG 408080-15	8.0	1.5R	7.8	8.0	8	24	60
CRAG 410100-02	10.0	0.2R	9.7	10.0	10	30	75
CRAG 410100-05	10.0	0.5R	9.7	10.0	10	30	75
CRAG 410100-10	10.0	1.0R	9.7	10.0	10	30	75
CRAG 410100-15	10.0	1.5R	9.7	10.0	10	30	75
CRAG 410100-20	10.0	2.0R	9.7	10.0	10	30	75
CRAG 412120-02	12.0	0.2R	11.7	12.0	12	36	75
CRAG 412120-05	12.0	0.5R	11.7	12.0	12	36	75
CRAG 412120-10	12.0	1.0R	11.7	12.0	12	36	75
CRAG 412120-15	12.0	1.5R	11.7	12.0	12	36	75
CRAG 412120-20	12.0	2.0R	11.7	12.0	12	36	75

## 特點:

1. 適用於細長、狹窄之溝槽加工。
2. 從低轉速到高轉速進行3D精密加工。
3. 使用吹氣方式或油霧冷卻切削效果最佳化。
4. 可達到高轉速、高精密度、高效率。

## Features

1. Applicable to the processing of hot steel of high rotation speed and high hardness.
2. Excellent performance to high hardness steel.
3. Optimized cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.



## CRAH

UMG

ALTiN

35°

HRC 60°



OIL



## 圓偶角銼刀-強力型長柄四刃 Corner Radius Short Flute End Mills - 4 Flute

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
CRAH404030-02	3.0	0.2R	2.9	4.0	3	10	75
CRAH404030-03	3.0	0.3R	2.9	4.0	3	10	75
CRAH404030-05	3.0	0.5R	2.9	4.0	3	10	75
CRAH404040-02	4.0	0.2R	3.9	4.0	4	12	75
CRAH404040-03	4.0	0.3R	3.9	4.0	4	12	75
CRAH404040-05	4.0	0.5R	3.9	4.0	4	12	75
CRAH406060-02	6.0	0.2R	5.8	6.0	6	18	75
CRAH406060-03	6.0	0.3R	5.8	6.0	6	18	75
CRAH406060-05	6.0	0.5R	5.8	6.0	6	18	75
CRAH406060-10	6.0	1.0R	5.8	6.0	6	18	75
CRAH408080-03	8.0	0.3R	7.8	8.0	8	24	100
CRAH408080-05	8.0	0.5R	7.8	8.0	8	24	100
CRAH408080-10	8.0	1.0R	7.8	8.0	8	24	100
CRAH408080-15	8.0	1.5R	7.8	8.0	8	24	100
CRAH410100-05	10.0	0.5R	9.7	10.0	10	30	100
CRAH410100-10	10.0	1.0R	9.7	10.0	10	30	100
CRAH410100-15	10.0	1.5R	9.7	10.0	10	30	100
CRAH410100-20	10.0	2.0R	9.7	10.0	10	30	100
CRAH412120-05	12.0	0.5R	11.7	12.0	12	36	100
CRAH412120-10	12.0	1.0R	11.7	12.0	12	36	100
CRAH412120-15	12.0	1.5R	11.7	12.0	12	36	100
CRAH412120-20	12.0	2.0R	11.7	12.0	12	36	100



**特點:**

1. 廣泛使用於高轉速、高硬度熱處理鋼之加工。
2. 高剛性、可大幅縮短粗加工時間，提高效率。
3. 使用吹氣方式或油霧冷卻切削效果最佳化。
4. 可達到高轉速、高精密度、高效率。

**Features**

1. Applicable to the processing of hot steel of high rotation speed and high hardness.
2. High rigidity, greatly reducing the time of rough machining and improving the efficiency.
3. Optimized cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.



# HCAAG



## 圓偶角銑刀-快削型四刃 Super Radius Short Flute End Mills - 4 Flute

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
HCAG404030-075	3.0	0.75R	2.7	4.0	1.2	7.5	50
HCAG404040-10	4.0	1.0R	3.6	4.0	1.6	10	50
HCAG406050-12	5.0	1.2R	4.5	6.0	2	12.5	60
HCAG406060-10	6.0	1.0R	5.4	6.0	2.5	12	60
HCAG406060-15	6.0	1.5R	5.4	6.0	2.5	12	60
HCAG408080-10	8.0	1.0R	7.2	8.0	3.5	16	60
HCAG408080-20	8.0	2.0R	7.2	8.0	3.5	16	60
HCAG410100-10	10.0	1.0R	9.0	10.0	4	20	75
HCAG410100-20	10.0	2.0R	9.0	10.0	4	20	75
HCAG412120-10	12.0	1.0R	11.0	12.0	5	24	75
HCAG412120-20	12.0	2.0R	11.0	12.0	5	24	75
HCAG412120-30	12.0	3.0R	11.0	12.0	5	24	75

**特點:**

1. 廣泛使用於高轉速、高硬度熱處理鋼之加工。
2. 高剛性、可大幅縮短粗加工時間，提高效率。
3. 使用吹氣方式或油霧冷卻切削效果最佳化。
4. 可達到高轉速、高精密度、高效率。

**Features**

1. Applicable to the processing of hot steel of high rotation speed and high hardness.
2. High rigidity, greatly reducing the time of rough machining and improving the efficiency.
3. Optimized cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.



# HCAAH



## 圓偶角銑刀-長柄快削型四刃 Ultra Micro Grain Carbide Long Shank Corner Radius Short Flute End Mills - 4 Flute

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
HCAH404030-075	3.0	0.75R	2.7		1.2	7.5	
HCAH404040-10	4.0	1.0R	3.6		1.6	10	
HCAH406050-12	5.0	1.2R	4.5	6.0	2	12.5	75
HCAH406060-10	6.0	1.0R	5.4		2.5	12	
HCAH406060-15		1.5R					
HCAH408080-10	8.0	1.0R	7.2	8.0	3.5	16	100
HCAH408080-20		2.0R					
HCAH410100-10	10.0	1.0R	9.0	10.0	4	20	100
HCAH410100-20		2.0R					
HCAH412120-10	12.0	1.0R	11.0	12.0	5	24	100
HCAH412120-20		2.0R					
HCAH412120-30		3.0R					



## 特點:

1. 廣泛使用於高轉速、高硬度熱處理鋼之加工。
2. 針對高硬度鋼材，表現極佳。
3. 使用吹氣方式或油霧冷卻切削效果最佳化。
4. 可達到高轉速、高精密度、高效率。

## Features

1. Applicable to the processing of hot steel of high rotation speed and high hardness.
2. Excellent performance to high hardness steel.
3. Optimized cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.

## HDAA

UMG

ALTiN

45°

HRC 60°



OIL



高硬度專用端銼刀-標準型六刃

Square Type Standard End Mills For Hard Steel- 6 Flute

產品編號 Code No	刃徑 Dia	柄徑 Shank	刃長 L. O. C	全長 O. A. L
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
HDAA625250	25.0	25.0	45	100



## 特點:

1. 廣泛使用於高轉速、高硬度熱處理鋼之加工。
2. 針對高硬度鋼材，表現極佳。
3. 使用吹氣方式或油霧冷卻切削效果最佳化。
4. 可達到高轉速、高精密度、高效率。

## Features

1. Applicable to the processing of hot steel of high rotation speed and high hardness.
2. Excellent performance to high hardness steel.
3. Optimized cutting effect by inflation or oil mist cooling.
4. High rotation speed, high precision and high efficiency.

## HDAB

UMG

ALTiN

45°

HRC 60°



OIL



高硬度專用端銼刀-長刃型六刃

Square Type Long Flute End Mills For Hard Steel- 6 Flute

產品編號 Code No	刃徑 Dia	柄徑 Shank	刃長 L. O. C	全長 O. A. L
HDAB606060	6.0	6.0	30	75
HDAB608080	8.0	8.0	35	100
HDAB610100	10.0	10.0	45	100
HDAB612120	12.0	12.0	50	100
HDAB616160	16.0	16.0	70	150
HDAB620200	20.0	20.0	75	150
HDAB625250	25.0	25.0	80	150



- 特點:
1. 廣泛使用於高轉速、高硬度熱處理鋼之加工。
  2. 使用吹氣方式或油霧冷卻切剛效果最佳化。
  3. 可達到高轉速、高精密度、高效率。

- Features
1. Best performance in processing stainless steel
  2. Full-length extension, applicable to the processing of deep parts.
  3. Optimized performance by the use of water-soluble cutting fluid.

# HHAA

## 高螺旋端銑刀-標準型二刃 High Helix Standard End Mills - 2 Flute

產品編號 Code No	刃徑 Dia	柄徑 Shank	刃長 L. O. C	全長 O. A. L
HHAA206010	1.0	6.0	2.5	50
HHAA206020	2.0	6.0	5	50
HHAA206030	3.0	6.0	8	50
HHAA206040	4.0	6.0	10	50
HHAA206050	5.0	6.0	13	50
HHAA206060	6.0	6.0	15	50
HHAA208080	8.0	8.0	20	60
HHAA210100	10.0	10.0	25	75
HHAA212120	12.0	12.0	30	75
HHAA216140	14.0	16.0	35	100
HHAA216160	16.0	16.0	40	100
HHAA220180	18.0	20.0	40	100
HHAA220200	20.0	20.0	40	100
HHAA225220	22.0	25.0	40	100
HHAA225250	25.0	25.0	40	100



- 特點:
1. 廣泛使用於高轉速、高硬度熱處理鋼之加工。
  2. 使用吹氣方式或油霧冷卻切剛效果最佳化。
  3. 可達到高轉速、高精密度、高效率。

- Features
1. Best performance in processing stainless steel
  2. Full-length extension, applicable to the processing of deep parts.
  3. Optimized performance by the use of water-soluble cutting fluid.

# HHAA

## 高螺旋端銑刀-標準型三刃 High Helix Standard End Mills - 3 Flute

產品編號 Code No	刃徑 Dia	柄徑 Shank	刃長 L. O. C	全長 O. A. L
HHAA306030	3.0	6.0	8	50
HHAA306040	4.0	6.0	10	50
HHAA306050	5.0	6.0	13	50
HHAA306060	6.0	6.0	15	50
HHAA308080	8.0	8.0	20	60
HHAA310100	10.0	10.0	25	75
HHAA312120	12.0	12.0	30	75
HHAA316140	14.0	16.0	35	100
HHAA316160	16.0	16.0	40	100
HHAA320180	18.0	20.0	40	100
HHAA320200	20.0	20.0	40	100
HHAA325220	22.0	25.0	40	100
HHAA325250	25.0	25.0	40	100





## 特點:

1. 廣泛使用於高轉速、高硬度熱處理鋼之加工。
2. 使用吹氣方式或油霧冷卻切剛效果最佳化。
3. 可達到高轉速、高精密度、高效率。

## Features

1. Best performance in processing stainless steel.
2. Full-length extension, applicable to the processing of deep parts.
3. Optimized performance by the use of water-soluble cutting fluid.

HHAB

UMG

ALTiN

45°

HRC 60



OIL



## 高螺旋端銑刀-長刃型二刃 High Helix Long Flute End Mills - 2 Flute

產品編號 Code No	刃徑 Dia	柄徑 Shank	刃長 L. O. C	全長 O. A. L
HHAB306030	3.0	6.0	15	75
HHAB306040	4.0	6.0	20	75
HHAB306050	5.0	6.0	25	75
HHAB306060	6.0	6.0	30	75
HHAB308080	8.0	8.0	35	100
HHAB310100	10.0	10.0	45	100
HHAB312120	12.0	12.0	50	100
HHAB314160	14.0	16.0	70	150
HHAB316160	16.0	16.0	70	150
HHAB318200	18.0	20.0	75	150
HHAB320200	20.0	20.0	75	150
HHAB322250	22.0	25.0	80	150
HHAB325250	25.0	25.0	80	150



## 特點:

1. 廣泛使用於高轉速、高硬度熱處理鋼之加工。
2. 使用吹氣方式或油霧冷卻切剛效果最佳化。
3. 可達到高轉速、高精密度、高效率。

## Features

1. Best performance in processing stainless steel.
2. Full-length extension, applicable to the processing of deep parts.
3. Optimized performance by the use of water-soluble cutting fluid.

HHAB

UMG

ALTiN

45°

HRC 60



OIL



## 高螺旋端銑刀-長刃型三刃 High Helix Long Flute End Mills - 3 Flute

產品編號 Code No	刃徑 Dia	柄徑 Shank	刃長 L. O. C	全長 O. A. L
HHAB306030	3.0	6.0	15	75
HHAB306040	4.0	6.0	20	75
HHAB306050	5.0	6.0	25	75
HHAB306060	6.0	6.0	30	75
HHAB308080	8.0	8.0	35	100
HHAB310100	10.0	10.0	45	100
HHAB312120	12.0	12.0	50	100
HHAB314160	14.0	16.0	70	150
HHAB316160	16.0	16.0	70	150
HHAB318200	18.0	20.0	75	150
HHAB320200	20.0	20.0	75	150
HHAB322250	22.0	25.0	80	150
HHAB325250	25.0	25.0	80	150



## 特點:

1. 可大幅度提高效能。
2. 使用水溶性切削液，效能最佳化。

## Features

1. Best performance in processing stainless steel.
2. Optimized performance by the use of water-soluble cutting fluid.

# HALA



## 短刃鋁合金銑刀-強力型三刃 Standard End Mills - 3 Flute

產品編號 Code No	刃徑 Dia.	柄徑 Shank	刃長 L. O. C	全長 O. A. L
HALA304030	3.0	6.0	8	50
HALA304040	4.0	6.0	11	50
HALA306050	5.0	6.0	13	50
HALA306060	6.0	6.0	13	50
HALA308080	8.0	8.0	19	60
HALA310100	10.0	10.0	22	75
HALA312120	12.0	12.0	26	75
HALA316160	16.0	16.0	32	100
HALA320200	20.0	20.0	38	100



## 特點:

1. 可大幅度提高效能。
2. 使用水溶性切削液，效能最佳化。

## Features

1. Best performance in processing stainless steel.
2. Optimized performance by the use of water-soluble cutting fluid.

# ALAA



## 鋁合金專用端銑刀-標準型三刃 Cutting Aluminum End Mills - 3 Flute

產品編號 Code No	刃徑 Dia	柄徑 Shank	刃長 L. O. C	全長 O. A. L
ALAA304020	2.0	4.0	6	50
ALAA304030	3.0	4.0	9	50
ALAA304040	4.0	4.0	12	50
ALAA306050	5.0	6.0	15	50
ALAA306060	6.0	6.0	18	50
ALAA308080	8.0	8.0	22	60
ALAA310100	10.0	10.0	28	75
ALAA312120	12.0	12.0	30	75
ALAA316160	16.0	16.0	32	100