



## Solid Carbide End Mills Series

# 鎢鋼銑刀系列

Solid Carbide End Mills Series

- Efficient
- Competitively
- Innovative
- Outstanding



## 選擇溢晁億鎢鋼銑刀的理由！！

品質達到國際標準
獨特開發能力
擁有世界先進加工設備
快速交貨
德國進口超細微粒碳化鎢

溢晁億鎢鋼鑽頭「品質、性能、精度優良的新生代切削加工工具!!」









溢晁億鎢鋼刀具以卓越的品質及切削性能，在業界享有高度評價及深受國內外客戶的支持與肯定。我們的鎢鋼刀具是採用德國高品質超細微粒碳化鎢素材及瑞士進口之刀具加工設備所製成，加工效能極優異。今後，我們將繼續堅持我們的品質和創新，努力開發和創造完美的尖端技術，提供多元化的產品，以服務客戶及滿足客戶的需求。

## IJAUl の超硬エンドミルを選ぶ理由は！！

品質は国際標準に到達
独特の開発力
世界新鋭の生産加工設備
最短の納期
ドイツ輸入の超硬ナノ素材

IJAUl 超硬質エンドミル「品質、性能、精度の優れた新生代の切削加工工具!!」

IJAUl 有限公司は独自の設計・生産の超硬質エンドミルを提供しており、またマーケットの高品質製品の需要に対応して、絶えず技術革新、生産設備的充実を進めております。現在、自社の自信と誇りを持った超硬質エンドミルは品質、性能、精度が優れていて、台湾国内をはじめ、中国大陸・アメリカ・ヨーロッパなどへと輸出されています。これからも、世界中に販路を開拓するため、グローバルな展開を目指しています。こうした目標に向かって一步一步前進し、技術とサービスを結集し、お客様と社会に貢献できる企業になることを使命と考えています。

刃數 Flutes	刃長		照片 photos	頁碼 Page
	標準型 Standard Length	長刃型 Long Flute		
<b>立銑刀 Square End Mill</b>				
2/4	●			2
2/4		●		3
● 立銑刀切削條件 Technical Data				4
<b>圓鼻刀 Corner Radius End Mill</b>				
2	●			5
4	●			6
● 圓鼻刀切削條件 Technical Data				7
<b>球型刀 Ball End Mill</b>				
2	●			8
4	●			9
<b>粗銑刀 Roughing End Mill</b>				
3	●			10
<b>鋁用刀 End Mill of Aluminum Alloy Processing</b>				
3	●			11
● 球型刀切削條件 Technical Data				12
● 粗銑刀切削條件 Technical Data				
● 鋁用刀切削條件 Technical Data				



### 極細微粒鎢鋼立銑刀 標準型

#### Micro Grain Carbide Square End Mills - Standard Length

##### 適用材質

鑄鐵、碳素鋼、合金鋼、調質鋼、工具鋼、熱處理鋼

##### APPLICATION MATERIAL

Cast Iron, Carbon Steels, Alloy Steels, Hardened Steels, Prehardened Steels, Tool Steels.



##### SPECIFICATION

unit : mm

刃徑 D Diameter	刃長 L1 Flute Length	刃數 Flutes	柄徑 d Shank	全長 L2 O.A.L
3.0	8	2/4	4	50
3.5	9	2/4	4	50
4.0	10	2/4	4	50
4.5	11	2/4	6	50
5.0	13	2/4	6	50
5.5	14	2/4	6	50
6.0	15	2/4	6	50
6.5	16	2/4	8	60
7.0	17	2/4	8	60
8.0	20	2/4	8	60
8.5	21	2/4	10	75
9.0	22	2/4	10	75
9.5	24	2/4	10	75
10.0	25	2/4	10	75
11.0	28	2/4	12	75
12.0	30	2/4	12	75
14.0	35	2/4	16	100
16.0	40	2/4	16	100
20.0	45	2/4	20	100



## 極細微粒鎢鋼立銑刀 長刃型

### Micro Grain Carbide Square End Mills – Long Flute

#### 適用材質

鑄鐵、碳素鋼、合金鋼、調質鋼、工具鋼、熱處理鋼

#### APPLICATION MATERIAL

Cast Iron, Carbon Steels, Alloy Steels, Hardened Steels, Prehardened Steels, Tool Steels.



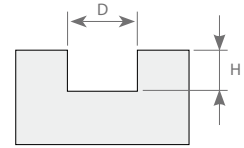
#### SPECIFICATION

unit : mm

刃徑 D Diameter	刃長 L1 Flute Length	刃數 Flutes	柄徑 d Shank	全長 L2 O.A.L
3.0	12	2/4	6	60
3.5	14	2/4	6	60
4.0	16	2/4	6	60
4.5	16	2	6	60
4.5	18	4	6	60
5.0	20	2	6	60
5.0	25	4	6	75
5.5	20	2	6	60
6.0	25	2/4	6	75
7.0	26	2	8	75
7.0	30	4	8	75
8.0	26	2	8	75
8.0	36	2	8	100
8.0	35	4	8	100
10.0	40	2/4	10	100
12.0	46	2	12	100
12.0	45	4	12	100
12.0	60	4	12	150
14.0	46	2	16	100
14.0	45	4	14	100
15.0	46	2	16	100
16.0	46	2	16	100
16.0	65	4	16	150
20.0	75	4	20	150

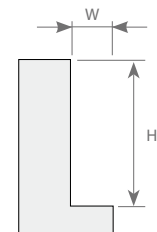
**切削條件：2刃立銑刀 Cutting Conditions of Two Flutes, End Mills**

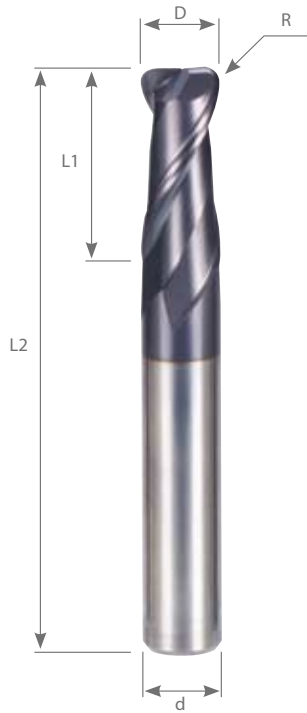
被切削材 Work Material	碳素鋼、合金鋼 模具鋼、鑄鐵 工具鋼 Carbon Steels, Alloy Steels, Mold Steels, Cast Iron, Tool Steels		合金鋼、模具鋼 工具鋼、熱處理鋼 Alloy Steels, Mold Steels, Tool Steels, Hardened Steels		合金鋼、模具鋼 工具鋼、不鏽鋼 熱處理鋼 Alloy Steels, Mold Steels, Tool Steels, Stainless Steels, Hardened Steels		熱處理鋼、鈦合金 Hardened Steels, Ti-Alloy Steels		熱處理鋼、耐熱合金 鎳基合金 Hardened Steels, Nickel Alloy, Inconel Alloy	
	HRC 30 以下		HRC 30 -35		HRC 35-40		HRC 40-45		HRC 45-65	
硬度 Hardness	HRC 30 以下		HRC 30 -35		HRC 35-40		HRC 40-45		HRC 45-65	
刀徑 Dia	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)
3	7,400	120	4,500	76	3,600	60	2,600	44	1,500	25
4	6,400	160	3,800	96	3,000	80	2,200	56	1,270	32
5	5,700	200	3,400	120	2,700	96	2,000	72	1,150	40
6	5,300	256	3,200	152	2,500	120	1,900	92	1,060	50
8	4,000	256	2,400	152	1,900	120	1,400	90	800	50
10	3,200	256	1,900	152	1,500	120	1,100	88	640	50
12	2,600	250	1,600	152	1,300	120	950	88	530	50
16	2,000	192	1,200	116	950	92	710	68	400	38
20	1,600	152	950	92	760	72	570	56	320	30
切削量 Cutting Amount	H=0.25D 以下		H=0.25D 以下		H=0.25D 以下		H=0.05D 以下		H=0.05D 以下	



**切削條件：4刃立銑刀 Cutting Conditions of Four Flutes, End Mills**

被切削材 Work Material	碳素鋼、合金鋼 模具鋼、鑄鐵 工具鋼 Carbon Steels, Alloy Steels, Mold Steels, Cast Iron, Tool Steels		合金鋼、模具鋼 工具鋼、熱處理鋼 Alloy Steels, Mold Steels, Tool Steels, Hardened Steels		合金鋼、模具鋼 工具鋼、不鏽鋼 熱處理鋼 Alloy Steels, Mold Steels, Tool Steels, Stainless Steels, Hardened Steels		熱處理鋼、鈦合金 Hardened Steels, Ti-Alloy Steels		熱處理鋼、耐熱合金 鎳基合金 Hardened Steels, Nickel Alloy, Inconel Alloy	
	HRC 30 以下		HRC 30 -35		HRC 35-40		HRC 40-45		HRC 45-65	
硬度 Hardness	HRC 30 以下		HRC 30 -35		HRC 35-40		HRC 40-45		HRC 45-65	
刀徑 Dia	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)
3	7,400	220	4,500	140	4,000	130	3,600	110	1,500	46
4	6,400	370	3,800	180	3,400	160	3,000	150	1,270	60
5	5,700	370	3,400	220	3,000	200	2,700	180	1,150	76
6	5,300	480	3,200	290	2,900	260	2,500	220	1,060	96
8	4,000	480	2,400	290	2,200	260	1,900	220	800	96
10	3,200	480	1,900	290	1,650	260	1,500	220	640	96
12	2,600	460	1,600	290	1,450	260	1,300	220	530	96
16	2,000	360	1,200	220	1,080	200	950	170	400	72
20	1,600	290	950	175	850	150	760	135	320	57
切削量 Cutting Amount	H=0.15D 以下, W=0.05D 以下, W=0.025D 以下時, Feed 可以2倍速進行		H=0.15D 以下, W=0.05D 以下, W=0.025D 以下時, Feed 可以2倍速進行		H=0.15D 以下, W=0.05D 以下, W=0.025D 以下時, Feed 可以2倍速進行		H=1D 以下 W=0.02D 以下		H=1D 以下 W=0.02D 以下	





## 二刃極細微粒鎢鋼圓鼻刀 標準型

### Two Flutes Corner Radius End Mill - Standard Length

#### 適用材質

鑄鐵、結構鋼鐵、碳素鋼、合金鋼、調質鋼、工具鋼、熱處理鋼、預硬鋼、不鏽鋼、耐熱合金鋼

#### APPLICATION MATERIAL

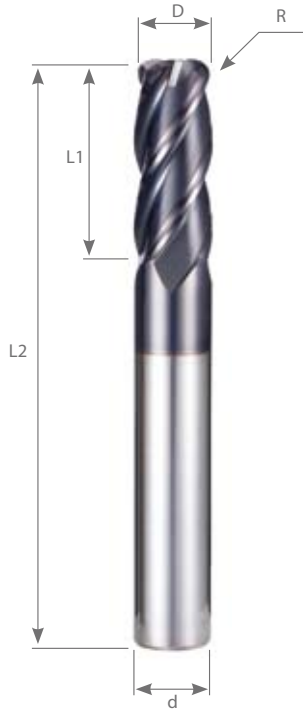
Cast Iron, Mild Steels, Carbon Steels, Alloy Steels, Tool Steels, Hardened Steels, Prehardened Steels, Stainless Steels, Nickel Alloy.



#### SPECIFICATION

unit : mm

刃徑 D Diameter	刃長 L1 Flute Length	刃數 Flutes	R角 Corner	柄徑 d Shank	全長 L2 O.A.L
3	8	2	0.2	4	50
3	8	2	0.3	4	50
3	8	2	0.5	4	50
4	10	2	0.2	4	50
4	10	2	0.3	4	50
4	10	2	0.5	4	50
4	10	2	1	4	50
5	13	2	0.3	6	50
5	13	2	0.5	6	50
5	13	2	1	6	50
6	15	2	0.2	6	75
6	15	2	0.3	6	75
6	15	2	0.5	6	75
6	15	2	1	6	75
6	15	2	2	6	75
8	20	2	0.3	8	75
8	20	2	0.5	8	75
8	20	2	1	8	75
8	20	2	2	8	75
10	25	2	0.5	10	75
10	25	2	1	10	75
10	25	2	1.5	10	75
10	25	2	2	10	75
10	25	2	3	10	75
12	30	2	0.5	12	75
12	30	2	1	12	75
12	30	2	1.5	12	75
12	30	2	2	12	75
12	30	2	3	12	75



## 四刃極細微粒鎢鋼圓鼻刀 標準型

### Four Flutes Corner Radius End Mill - Standard Length

#### 適用材質

鑄鐵、結構鋼鐵、碳素鋼、合金鋼、調質鋼、工具鋼、熱處理鋼、預硬鋼、不鏽鋼、耐熱合金鋼

#### APPLICATION MATERIAL

Cast Iron, Mild Steels, Carbon Steels, Alloy Steels, Tool Steels, Hardened Steels, Prehardened Steels, Stainless Steels, Nickel Alloy.



#### SPECIFICATION

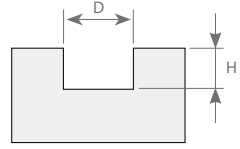
unit : mm

刃徑 D Diameter	刃長 L1 Flute Length	刃數 Flutes	R角 Corner	柄徑 d Shank	全長 L2 O.A.L
6	15	4	0.2	6	75
6	15	4	0.3	6	75
6	15	4	0.5	6	75
6	15	4	1	6	75
6	15	4	2	6	75
8	20	4	0.3	8	75
8	20	4	0.5	8	75
8	20	4	1	8	75
8	20	4	2	8	75
10	25	4	0.5	10	75
10	25	4	1	10	75
10	25	4	1.5	10	75
10	25	4	2	10	75
10	25	4	3	10	75
12	30	4	0.5	12	75
12	30	4	1	12	75
12	30	4	1.5	12	75
12	30	4	2	12	75
12	30	4	3	12	75



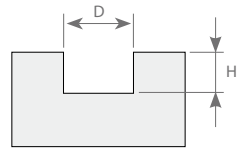
### 切削條件：2 刃圓鼻刀 Cutting Conditions of Corner -Radius, Two Flutes , End Mills

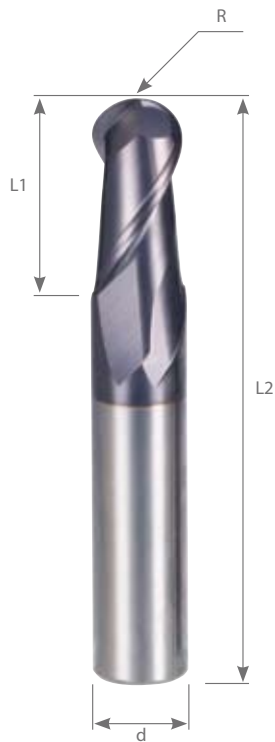
被切削材 Work Material	碳素鋼、合金鋼 模具鋼、鑄鐵 工具鋼 Carbon Steels , Alloy Steels, Mold Steels , Cast Iron, Tool Steels		合金鋼、模具鋼 工具鋼、熱處理鋼 Alloy Steels, Mold Steels, Tool Steels, Hardened Steels		合金鋼、模具鋼 工具鋼、不鏽鋼 熱處理鋼 Alloy Steels, Mold Steels, Tool Steels, Stainless Steels, Hardened Steels		熱處理鋼、鈦合金 Hardened Steels, Ti-Alloy Steels		熱處理鋼、耐熱合金 鎳基合金 Hardened Steels, Nickel Alloy, Inconel Alloy	
	硬度 Hardness	HRC 30 度以下		HRC 30 -35 度以下		HRC 35-40 度以下		HRC 40-45 度以下		HRC 45-50 度以下
刀徑 Dia	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)
3	7,400	120	4,500	76	4,000	68	3,600	60	1,500	25
4	6,400	160	3,800	96	3,400	86	3,000	80	1,270	32
5	5,700	200	3,400	120	3,100	116	2,700	96	1,150	40
6	5,300	256	3,200	152	2,900	136	2,500	120	2,000	100
8	4,000	256	2,400	152	2,200	136	1,900	120	1,500	100
10	3,200	256	1,900	152	1,700	136	1,500	120	1,200	100
12	2,600	250	1,600	130	1,450	120	1,300	104	1,050	85
切削量 Cutting Amount	H=0.25D 以下		H=0.25D 以下		H=0.25D 以下		H=0.25D 以下		H=0.25D 以下	



### 切削條件：4 刃圓鼻刀 Cutting Conditions of Corner -Radius, Four Flutes , End Mills

被切削材 Work Material	碳素鋼、合金鋼 模具鋼、鑄鐵 工具鋼 Carbon Steels, Alloy Steels, Mold Steels, Cast Iron, Tool Steels		合金鋼、模具鋼 工具鋼、熱處理鋼 Alloy Steels, Mold Steels, Tool Steels, Hardened Steels		合金鋼、模具鋼 工具鋼、不鏽鋼 熱處理鋼 Alloy Steels, Mold Steels, Tool Steels, Stainless Steels, Hardened Steels		熱處理鋼、鈦合金 Hardened Steels, Ti-Alloy Steels		熱處理鋼、耐熱合金 鎳基合金 Hardened Steels , Nickel Alloy, Inconel Alloy	
	硬度 Hardness	HRC 30 度以下		HRC 30 -35 度		HRC 35-45 度		HRC 45-50 度		HRC 50-65 度
刀徑 Dia	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)
6	6,400	570	5,100	460	4,100	370	3,200	290	1,600	145
8	4,800	570	3,800	460	3,100	370	2,400	290	1,200	145
10	3,800	570	3,000	460	2,400	370	2,000	290	1,000	145
12	3,200	480	2,600	380	2,100	310	1,600	240	800	120
切削量 Cutting Amount	H=0.25D 以下，H=0.10D 以下時，Feed 可以2倍速進行		H=0.25D 以下，H=0.10D 以下時，Feed 可以2倍速進行		H=0.25D 以下，H=0.10D 以下時，Feed 可以2倍速進行		H=0.10D 以下		H=0.10D 以下	





## 二刃極細微粒鎢鋼球型刀 標準型

### Two Flutes Ball End Mill - Standard Length

#### 適用材質

碳鋼、低合金鋼、工具鋼、合金鋼、調質鋼、模具鋼、熱處理鋼

#### APPLICATION MATERIAL

Carbon Steels, Low Alloy Steels, Tool Steels, Alloy Steels, Prehardened Steels, Mold Steels, Hardened Steels.



#### SPECIFICATION

unit : mm

R徑 Diameter	刃長 L1 Flute Length	刃數 Flutes	柄徑 d Shank	全長 L2 O.A.L
R 0.5	2	2	4	50
R 0.75	3	2	4	50
R 1	4	2	4	50
R 1.25	5	2	4	50
R 1.5	6	2	4	50
R 1.75	7	2	4	50
R 2	8	2	4	50
R 2.25	9	2	6	50
R 2.5	10	2	6	50
R 2.75	11	2	6	50
R 3	12	2	6	50
R 3.5	14	2	8	60
R 4	16	2	8	60
R 4.5	18	2	10	75
R 5	20	2	10	75
R 5.5	22	2	12	75
R 6	24	2	12	75
R 7	28	2	16	100
R 8	32	2	16	100
R 9	36	2	20	100
R 10	40	2	20	100



## 四刃極細微粒鎢鋼球型刀 標準型

### Four Flutes Ball End Mill - Standard Length

#### 適用材質

碳鋼、低合金鋼、工具鋼、合金鋼、調質鋼、模具鋼、熱處理鋼

#### APPLICATION MATERIAL

Carbon Steels, Low Alloy Steels, Tool Steels, Alloy Steels, Prehardened Steels, Mold Steels, Hardened Steels.



#### SPECIFICATION

unit :

mm

R徑 Diameter	刃長 L1 Flute Length	刃數 Flutes	柄徑 d Shank	全長 L2 O.A.L
R 3	12	4	6	50
R 3.5	14	4	8	60
R 4	16	4	8	60
R 4.5	18	4	10	75
R 5	20	4	10	75
R 5.5	22	4	12	75
R 6	24	4	12	75
R 7	28	4	16	100
R 8	32	4	16	100
R 9	36	4	20	100
R 10	40	4	20	100



### 三刃極細微粒鎢鋼粗銑刀 標準型

#### Three Flutes Roughing End Mill - Standard Length

**適用材質**

鑄鐵、碳素鋼、合金鋼、工具鋼、不鏽鋼、模具鋼

**APPLICATION MATERIAL**

Cast Iron, Carbon Steels, Alloy Steels, Tool Steels, Mold Steels, Stainless Steels.



**SPECIFICATION**

unit : mm

刃徑 D Diameter	刃長 L1 Flute Length	刃數 Flutes	柄徑 d Shank	全長 L2 O.A.L
7	16	3	8	60
8	19	3	8	60
9	25	3	10	75
10	25	3	10	75
11	30	3	12	75
12	30	3	12	75
16	35	3	16	100
20	45	3	20	100



## 鋁用刀 標準型

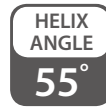
### Three Flutes End Mills For Aluminium Alloy Processing - Standard Length

#### 適用材質

鋁合金、銅合金、鎂合金

#### APPLICATION MATERIAL

Al Alloys, Al Alloys ( Cu-Mg ), Al Alloys (Mg)



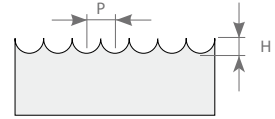
#### SPECIFICATION

unit : mm

刃徑 D Diameter	刃長 L1 Flute Length	刃數 Flutes	柄徑 d Shank	全長 L2 O.A.L
3	9	3	6	50
4	12	3	6	50
5	15	3	6	50
6	18	3	6	50
8	20	3	8	60
10	30	3	10	75
12	32	3	12	75
16	45	3	16	100
20	45	3	20	100

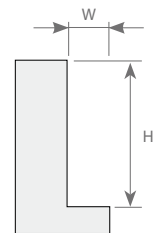
**切削條件：4 刃球型刀 Cutting Conditions of Four Flutes, Ball End Mills (一般M/C使用)**

被切削材 Work Material	碳素鋼、合金鋼、模具鋼 鑄鐵、工具鋼 Carbon Steels, Alloy Steels, Mold Steels, Cast Iron, Tool Steels		合金鋼、模具鋼、工具鋼 不鏽鋼、熱處理鋼 Alloy Steels, Mold Steels, Tool Steels, Stainless Steels, Hardened Steels		熱處理鋼 Hardened Steels	
硬度 Hardness	HRC 30 以下		HRC 30 -45		HRC 45-50	
R 徑	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)
3	7,600	960	6,000	670	3,200	300
4	5,700	1,140	4,600	790	2,300	320
5	4,600	1,070	3,600	740	1,900	330
6	3,400	950	2,650	680	1,350	290
8	2,900	930	2,300	670	1,100	270
10	2,300	810	1,900	640	950	250
切削量 Cutting Amount	H=0.1R 以下 P=0.3R 以下		H=0.1R 以下 P=0.3R 以下		H=0.05R 以下 P=0.15R 以下	



**切削條件：3 刃粗銑刀 Cutting Condition of Three Flutes Roughing End Mill -Standard Length**

被切削材 Work Material	碳素鋼、合金鋼 模具鋼、鑄鐵 工具鋼 Carbon Steels, Alloy Steels, Mold Steels, Cast Iron, Tool Steels		合金鋼、模具鋼 工具鋼、熱處理鋼 Alloy Steels, Mold Steels, Tool Steels, Hardened Steels		合金鋼、模具鋼 工具鋼、不鏽鋼 熱處理鋼 Alloy Steels, Mold Steels, Tool Steels, Stainless Steels, Hardened Steels		熱處理鋼、鈦合金 Hardened Steels, Ti-Alloy Steels		熱處理鋼、耐熱合金 鎳基合金 Hardened Steels, Nickel Alloy, Inconel Alloy	
硬度 Hardness	HRC 30 以下		HRC 30 -35		HRC 35-40		HRC 40-45			
刀徑 Dia	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)
8	4,000	480	2,400	290	2,200	270	1,900	230	800	100
10	3,200	480	1,900	290	1,700	270	1,500	230	640	100
12	2,600	470	1,800	290	1,450	270	1,300	230	530	100
16	2,000	480	1,200	290	1,100	270	950	230	400	100
20	1,600	480	1,000	290	900	270	760	230	320	100
切削量 Cutting Amount	H=1.5D 以下 W=0.3D 以下		H=1.5D 以下 W=0.3D 以下		H=1.5D 以下 W=0.3D 以下		H=1.5D 以下 W=0.1D 以下		H=1.5D 以下 W=0.1D 以下	



**切削條件：3 刃鋁用刀 Cutting Conditions of Aluminum Alloy Processing End Mills**

被切削材 Material	純鋁 Pure Aluminum		鋁合金銅鎂系列 Aluminum Alloy Cu-Mg Series		鋁合金矽系列 Aluminum Alloy Si Series		鋁合金鎂系列 Aluminum Alloy Mg Series		鋁合金鎂矽系列 Aluminum Alloy Mg- Si Series		鋁合金鋅鎂系列 Aluminum Alloy Zn- Mg Series		鑄鋁合金 Casting Aluminum Alloy Series	
刀徑 Dia	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)	回轉速 R.P.M	進給 Feed (mm / min)
3.0	32000	1900	27000	1600	2700	150	13000	800	21600	880	27000	1080	16000	1000
4.0	24000	1900	20000	1600	2000	200	10000	800	61000	880	20000	1080	12000	1000
5.0	19000	1900	16000	1600	1600	200	8000	800	12800	880	16000	1080	9600	1000
6.0	16000	1900	13500	1600	1350	200	6500	800	10800	880	13500	1080	8000	1000
8.0	12000	1900	10000	1600	1000	300	5000	800	8000	880	10000	1080	6000	1000
10.0	9600	1900	8000	1600	800	300	4000	800	6400	880	8000	1080	4800	1000
12.0	8000	1900	6600	1600	660	250	3300	800	5300	880	6600	1080	4000	1000
16.0	6000	1900	5000	1600	500	150	2700	800	4000	880	5000	1080	3000	1000
20.0	4800	1900	4000	1600	400	150	2000	800	3200	880	4000	1080	2400	1000
切削量 Cutting Amount	H=1.5D W=0.1D		H=1.5D W=0.1D		H=1.5D W=0.1D		H=1.5D W=0.1D		H=1.5D W=0.1D		H=1.5D W=0.1D		H=1.5D W=0.1D	

**EXPATA is a professional company in the business of industrial products. We offer a wide range of products for the metal cutting industry with a focus on cutting tools and tooling accessories.**

Some of the major industries EXPATA provides for are :

Automotive

Aerospace

Die and Mold

Jobbing shops machining small and big parts

We have been established a reputation in this field due to the support of our customers in domestic and overseas. The reputation is resulted from the outstanding quality and cutting performance of EXPATA cutting tools. Our cutting tools are manufactured from top quality micro-grain tungsten carbide material. In the future, we will keep sticking on our quality and innovation, working on developing and creating state-of-the-art technology for our comprehensive range of products in order to serve our customers and meet our customers' needs.

## **Commitment**

**Our commitment to our customers is to :**

Cost-effective quality products to meet the wide range of needs of the marketplace.

A partnership in business with our customers by providing high quality products and excellent after-sale services.

Help customers maintain quality and improve productivity in order to reach their goals.

Constantly advance the level of service to earn the trust of our customers.



# Solid Carbide End Mills Series

**IJAUI**  
Expata Business Company

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