

SHARPMAX TOOL INC.

SHARPMAX

 偉力刀具

SHARPMAX

INDUSTRIAL PRECISION CUTTING TOOLS

偉力精密工具股份有限公司

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Made in
TAIWAN
台灣
製造



**A SPECIALIST IN
WOODWORKING TOOLS**

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ER筒夾 ER11.16.20.25.32

ER Spring Collet



Company Profile

We have been designing and manufacturing carbide cutting tools for over 35 years and are recognized by the industry as a dependable source for high quality tools, including router bits and profile cutters.

Using a series of sophisticated machining equipment, our technicians produce the cutters and router bits are renowned. The quality control department is dedicated to guaranteeing your satisfaction, as we monitor every detail in the production process. Each tool is inspected for geometrical accuracy and balance, using the latest in specialized examination instruments.

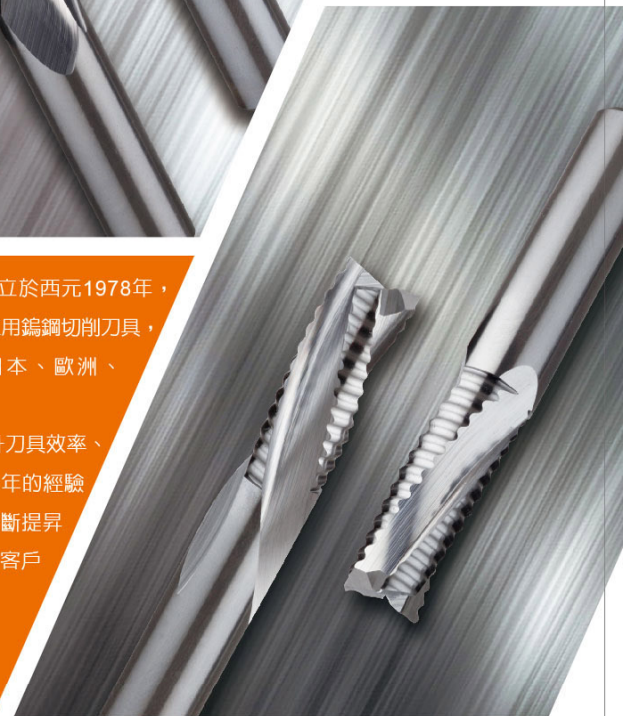
The integrated manufacturing system enables us to control tool quality from design to finished product, fully meeting your requirement.



台灣偉力超硬刀具創立於西元1978年，
主要生產、設計產業加工用鎢鋼切削刀具，
銷售區域包括美國、日本、歐洲、
東南亞...等地。

本公司經營方向為創新與提升刀具效率、
降低刀具成本；擁有超過三十年的經驗
與各國合作的技術交流，秉持不斷提昇
品質與創新的目標，持續努力提供客戶
高品質的產品與高效率的服務。

※ 備註：接受客製化刀具與規格訂做。
※ Remark: Custom-made tools are available to meet your requirement.



單刃螺旋銑刀

Single Flute Spiral Bits

外徑 Diameter	刃長 Cutting Height	柄徑 Shank	全長 Overall Length	上排削 Up-Cut	下排削 Down-Cut
1	4	3	38	110103041	110103042
1.5	6	3	38	1101503061	1101503062
2	8	3	38	110203081	110203082
3	10	3	38	110303101	110303102
3	15	3	45	110303151	110303152
3.175	12	3.175	38	11032032121	11032032122
3.175	17	3.175	45	11032032171	11032032172
4	12	4	50	110404121	110404122
4	17	4	50	110404171	110404172
4	22	4	50	110404221	110404222
5	17	6	50	110506171	110506172
5	22	6	60	110506221	110506222
6	17	6	50	110606171	110606172
6	22	6	60	110606221	110606222
6	30	6	70	110606301	110606302
8	22	8	60	110808221	110808222
8	30	8	70	110808301	110808302
10	30	10	75	111010301	111010302
12	30	12	75	111212301	111212302

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雙刃螺旋銑刀

Double Flute Spiral Bits

外徑 Diameter	刃長 Cutting Height	柄徑 Shank	全長 Overall Length	上排削 Up-Cut	下排削 Down-Cut
3	12	3	50	120303121	120303122
3	12	6	50	120306121	120306122
4	15	4	50	120404151	120404152
4	15	6	50	120406151	120406152
5	15	6	60	120506151	120506152
6	20	6	60	120606201	120606202
6	25	6	60	120606251	120606252
8	30	8	70	120808301	120808302
10	30	10	75	121010301	121010302
12	30	12	75	121212301	121212302
12	40	12	90	121212401	121212402
12	50	12	100	121212501	121212502
14	40	14	90	121414401	121414402
16	40	16	90	121616401	121616402
16	50	16	100	121616501	121616502



三刃螺旋銑刀

Three Flute Spiral Bits

外徑 Diameter	刃長 Cutting Height	柄徑 Shank	全長 Overall Length	上排削 Up-Cut	下排削 Down-Cut
12	30	12	75	131212301	131212302
12	40	12	90	131212401	131212402
12	50	12	100	131212501	131212502
14	40	14	90	131414401	131414402
14	50	14	100	131414501	131414502
16	40	16	90	131616401	131616402
16	50	16	100	131616501	131616502
16	55	16	110	131616551	131616552
16	60	16	120	131616601	131616602
20	50	20	110	132020501	132020502
20	60	20	120	132020601	132020602
20	70	20	130	132020701	132020702

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双刃螺旋粗銑刀

Double Flute Roughing Spiral Bits

外徑 Diameter	刃長 Cutting Height	柄徑 Shank	全長 Overall Length	上排削 Up-Cut	下排削 Down-Cut
10	30	10	75	221010301	221010302
12	30	12	75	221212301	221212302
12	40	12	90	221212401	221212402
12	50	12	100	221212501	221212502
14	50	14	100	221414501	221414502
16	50	16	100	221616501	221616502
16	55	16	110	221616551	221616552
16	60	16	120	221616601	221616602
18	50	18	110	221818501	221818502
20	50	20	110	222020501	222020502
20	60	20	120	222020601	222020602
20	70	20	130	222020701	222020702

三刃螺旋粗銑刀

Three Flute Roughing Spiral Bits

外徑 Diameter	刃長 Cutting Height	柄徑 Shank	全長 Overall Length	上排削 Up-Cut	下排削 Down-Cut
10	30	10	75	231010301	231010302
12	30	12	75	231212301	231212302
12	40	12	90	231212401	231212402
12	50	12	100	231212501	231212502
14	50	14	100	231414501	231414502
16	50	16	100	231616501	231616502
16	55	16	110	231616551	231616552
16	60	16	120	231616601	231616602
18	50	18	110	231818501	231818502
20	50	20	110	232020501	232020502
20	60	20	120	232020601	232020602
20	70	20	130	232020701	232020702

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双刃螺旋粗細銑刀

Double Flute Chipbreaker Spiral Bits

外徑 Diameter	刃長 Cutting Height	柄徑 Shank	全長 Overall Length	上排削 Up-Cut	下排削 Down-Cut
10	30	10	75	321010301	321010302
12	30	12	75	321212301	321212302
12	40	12	90	321212401	321212402
12	50	12	100	321212501	321212502
14	50	14	100	321212501	321414502
16	50	16	100	321616501	321616502
16	55	16	110	321616551	321616552
16	60	16	120	321616601	321616602
18	50	18	110	321818501	321818502
20	50	20	110	322020501	322020502
20	60	20	120	322020601	322020602
20	70	20	130	322020701	322020702

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SHARPMAX TOOL INC.

三刃螺旋粗細銑刀

Three Flute Chipbreaker Spiral Bits

外徑 Diameter	刃長 Cutting Height	柄徑 Shank	全長 Overall Length	上排削 Up-Cut	下排削 Down-Cut
10	30	10	75	331010301	331010302
12	30	12	75	331212301	331212302
12	40	12	90	331212401	331212402
12	50	12	100	331212501	331212502
14	50	14	100	331414501	331414502
16	50	16	100	331616501	331616502
16	55	16	110	331616551	331616552
16	60	16	120	331616601	331616602
18	50	18	110	331818501	331818502
20	50	20	110	332020501	332020502
20	60	20	120	332020601	332020602
20	70	20	130	332020701	332020702



双刃複合刃銑刀

Double Flute Compression Spiral Bits

外徑 Diameter	刃長 Cutting Height	柄徑 Shank	全長 Overall Length	精銑刃口 Finish	粗銑刃口 Roughing
8	25	8	70	520808253	520808255
10	30	10	80	521010303	521010305
12	30	12	80	521212303	521212305
12	40	12	90	521212403	521212405
12	50	12	100	521212503	521212505
16	50	16	110	521616503	521616505
18	50	18	110	521818503	521818505
20	50	20	110	522020503	522020505



三刃門鎖加工刀

Three Flute Roughing Bits for Lock Case

外徑 Diameter	刃長 Cutting Height	柄徑 Shank	柄長 Shank Length	全長 Overall Length	編號 Item Number
14	45	14	50	150	731414251
16	45	16	50	150	731616251
18	45	18	50	150	731818251

双刃球頭銑刀

Double Flute Ball Nose Bits

R角 R	外徑 Diameter	刃長 Cutting Height	柄徑 Shank	全長 Overall Length	精銑刃口 Finish	粗細銑刃口 Chipbreaker
3	6	20	6	60	620606203	620606207
4	8	20	8	70	620808203	620808207
5	10	20	10	70	621010203	621010207
6	12	25	12	75	621212253	621212257
8	16	25	16	75	621616253	621616257
10	20	30	20	100	622020303	622020307



單刃直刀

Single Flute Straight Bits

外徑 Diameter	刃長 Cutting Height	柄徑 Shank	全長 Overall Length	編號 Item Number
3	12	3	50	710303120
4	16	4	55	710404160
5	19	6	60	710506190
6	22	6	60	710606220
8	25	8	65	710808250
10	30	10	75	711010300
12	35	12	85	711212350



双刃直刀

Solid Carbide Two Flute Straight Bits

外徑 Diameter	刃長 Cutting Height	柄徑 Shank	全長 Overall Length	編號 Item Number
3	12	3	50	720303120
4	16	4	55	720303120
5	19	6	60	720506190
6	22	6	60	720606220
8	25	8	65	720808250
10	30	10	75	721010300
12	35	12	85	721212350



TCT双刃直刀

Soild Carbide Welded Into Steel Shank

外徑 Diameter	刃長 Cutting Height	12mm柄 12mm Shank	12.7mm柄 ½Shank
3	10	820312100	8203127100
3	15	820312150	8203127150
4	15	820412150	8204127150
4	20	820412200	8204127200
5	15	820512150	8205127150
5	20	820512200	8205127200
5	25	820512250	8205127250
6	15	820612150	8206127150
6	20	820612200	8206127200
6	25	820612250	8206127250
7	25	820712250	8207127250
8	25	820812250	8208127250
8	30	820812300	8208127300





ER筒夾 ER Spring Collet ER11

孔徑 Size	夾持範圍 Range/mm	訂購編號 Part Number
1.0	1.0~0.5	SER1101A
1.5	1.5~1.0	SER1102A
2.0	2.0~1.5	SER1103A
2.5	2.5~2.0	SER1104A
3.0	3.0~2.5	SER1105A
3.5	3.5~3.0	SER1106A
4.0	4.0~3.5	SER1107A
4.5	4.5~4.0	SER1108A
5.0	5.0~4.5	SER1109A
5.5	5.5~5.0	SER1110A
6.0	6.0~5.5	SER1111A
6.5	6.5~6.0	SER1112A
7.0	7.0~6.5	SER1113A

ER筒夾 ER Spring Collet ER16

孔徑 Size	夾持範圍 Range/mm	訂購編號 Part Number
1.0	1.0~0.5	SER1601A
1.5	1.5~1.0	SER1602A
2.0	2.0~1.5	SER1603A
2.5	2.5~2.0	SER1604A
3.0	3.0~2.5	SER1605A
3.5	3.5~3.0	SER1606A
4.0	4.0~3.5	SER1607A
4.5	4.5~4.0	SER1608A
5.0	5.0~4.5	SER1609A
5.5	5.5~5.0	SER1610A
6.0	6.0~5.5	SER1611A
6.5	6.5~6.0	SER1612A
7.0	7.0~6.5	SER1613A
7.5	7.5~7.0	SER1614A
8.0	8.0~7.5	SER1615A
8.5	8.5~8.0	SER1616A
9.0	9.0~8.5	SER1617A
9.5	9.5~9.0	SER1618A
10.0	10.0~9.5	SER1619A

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ER筒夾 ER Spring Collet ER20

孔徑 Size	夾持範圍 Range/mm	訂購編號 Part Number
1.0	1.0~0.5	SER2001A
1.5	1.5~1.0	SER2002A
2.0	2.0~1.5	SER2003A
2.5	2.5~2.0	SER2004A
3.0	3.0~2.5	SER2005A
3.5	3.5~3.0	SER2006A
4.0	4.0~3.5	SER2007A
4.5	4.5~4.0	SER2008A
5.0	5.0~4.5	SER2009A
5.5	5.5~5.0	SER2010A
6.0	6.0~5.5	SER2011A
6.5	6.5~6.0	SER2012A
7.0	7.0~6.5	SER2013A
7.5	7.5~7.0	SER2014A
8.0	8.0~7.5	SER2015A
8.5	8.5~8.0	SER2016A
9.0	9.0~8.5	SER2017A
9.5	9.5~9.0	SER2018A
10.0	10.0~9.5	SER2019A
10.5	10.5~10.0	SER2020A
11.0	11.0~10.5	SER2021A
11.5	11.5~11.0	SER2022A
12.0	12.0~11.5	SER2023A
12.5	12.5~12.0	SER2024A
13.0	13.0~12.5	SER2025A

ER筒夾 ER Spring Collet ER25

孔徑 Size	夾持範圍 Range/mm	訂購編號 Part Number
1.0	1.0~0.5	SER2501A
2.0	2.0~1.0	SER2502A
3.0	3.0~2.0	SER2503A
4.0	4.0~3.0	SER2504A
5.0	5.0~4.0	SER2505A
6.0	6.0~5.0	SER2506A
7.0	7.0~6.0	SER2507A
8.0	8.0~7.0	SER2508A
9.0	9.0~8.0	SER2509A
10.0	10.0~9.0	SER2510A
11.0	11.0~10.0	SER2511A
12.0	12.0~11.0	SER2512A
13.0	13.0~12.0	SER2513A
14.0	14.0~13.0	SER2514A
15.0	15.0~14.0	SER2515A
16.0	16.0~15.0	SER2516A

ER筒夾 ER Spring Collet ER32

孔徑 Size	夾持範圍 Range/mm	訂購編號 Part Number
2.0	2.0~1.0	SER3201A
3.0	3.0~2.0	SER3202A
4.0	4.0~3.0	SER3203A
5.0	5.0~4.0	SER3204A
6.0	6.0~5.0	SER3205A
7.0	7.0~6.0	SER3206A
8.0	8.0~7.0	SER3207A
9.0	9.0~8.0	SER3208A
10.0	10.0~9.0	SER3209A
11.0	11.0~10.0	SER3210A
12.0	12.0~11.0	SER3211A
13.0	13.0~12.0	SER3212A
14.0	14.0~13.0	SER3213A
15.0	15.0~14.0	SER3214A
16.0	16.0~15.0	SER3215A
17.0	17.0~16.0	SER3216A
18.0	18.0~17.0	SER3217A
19.0	19.0~18.0	SER3218A
20.0	20.0~19.0	SER3219A

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技術資料

*建議轉速

RPM		8000	12000	16000	18000	22000
軟木 Softwood	~13mm	●	●	○	△	☆
	14mm~28mm	●	○	△	☆	☆
	29mm~65mm	△	☆	○	○	●
	66mm~90mm	△	☆	●	●	●
硬木 Hardwood	~13mm	●	●	○	△	☆
	14mm~28mm	●	●	○	☆	△
	29mm~65mm	△	☆	○	●	●
	66mm~90mm	△	☆	●	●	●
膠合板 MDF/Plywood	~13mm	●	●	○	△	☆
	14mm~28mm	●	○	△	☆	☆
	29mm~65mm	○	☆	△	○	●
	66mm~90mm	△	☆	●	●	●
塑膠 Plastic	~13mm	●	○	△	△	☆
	14mm~28mm	●	○	☆	☆	△
	29mm~65mm	△	☆	○	●	●
	66mm~90mm	○	△	●	●	●

☆最佳 △好 ○可 ●不建議

◎以上數據僅供參考,加工時仍需視實際狀況做調整

◎相關公式: 進給速率 (Feed Rate)

每齒切削載荷 (Chip Load)

轉速 (RPM)

齒數 (T)

Feed Rate = RPM x T x Chip Load

進給速率 = 轉速 x 齒數 x 每齒切削載荷

Chip Load = Feed Rate / (RPM x T)

每齒切削載荷 = 進給速率 / (轉速 x 齒數)

RPM = Feed Rate / (T x Chip Load)

轉速 = 進給速率 / (齒數 x 每齒切削載荷)