



SHARP MAX

High Performance End Mills

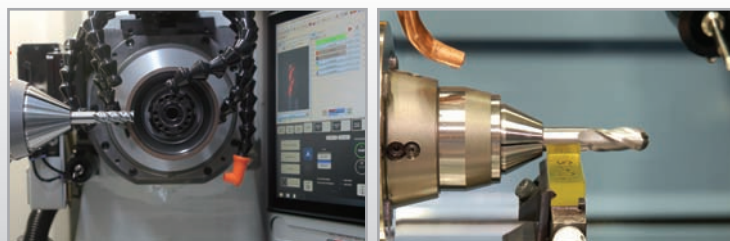
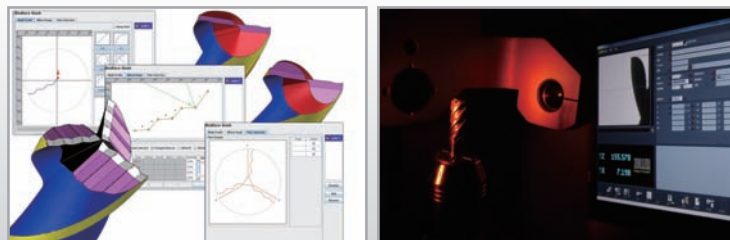
偉力刀具



台灣偉力超硬刀具創立於西元1978年，專業生產鎢鋼切削刀具，涉及木工、非金屬與高硬度金屬材料。多年來與各國合作及技術交流，不斷提升品質與創新，持續提供客戶高品質產品與高效率的服務，積極培養刀具專業人才、企業化的管理，充分利用資訊科技為競爭優勢，以企業永續經營來增進國家社會的繁榮發展，進而邁向國際化。

SHARPMAX TOOL INC. is located in Taichung , Taiwan, an important center for a number of key industries, also is a major manufacturer of bicycles and sporting goods. Small metalworking, mold and die enterprises abound. The company has been manufacturing solid carbide as well as other cutting tools for industry since 1978. To offer high-quality customer service we always doing constant innovation and upgrading modern facilities built to promote manufacturing of our specialized carving and cutting tools.

Customers receive maximum service as the firm continues its tradition of keeping pace with the latest technological advances. Our products are guaranteed to meet your requirements and satisfaction.



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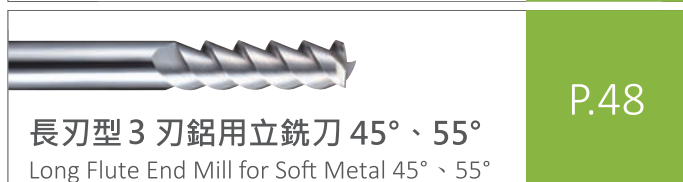
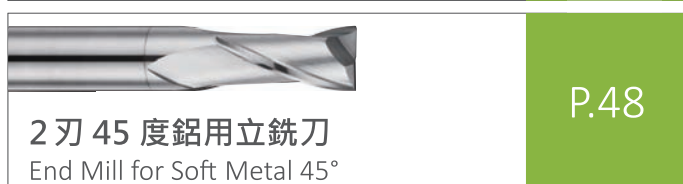
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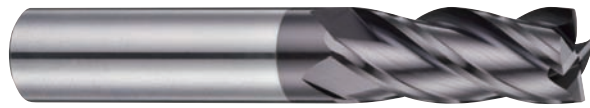
鋁用系列 / Aluminum Cutting Serise





超微粒系列 / Micro Grain Carbide



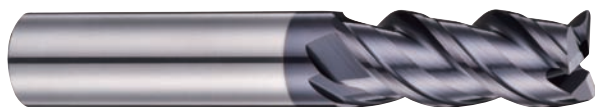


標準型立銑刀
Square End Mill



4 刃 - 產品編號 4 Flutes Item Code	2 刃 - 產品編號 2 Flutes Item Code	刀徑 Diameter	刃長 Flute Length	全長 Overall Length	柄徑 Shank Diameter
SS4T04050010	SS2T04050010	1.0	3	50	4
SS4T04050015	SS2T04050015	1.5	4	50	4
SS4T04050020	SS2T04050020	2.0	5	50	4
SS4T04050025	SS2T04050025	2.5	7	50	4
SS4T03050030	SS2T03050030	3.0	9	50	3
SS4T04050030	SS2T04050030	3.0	9	50	4
SS4T04050040	SS2T04050040	4.0	11	50	4
SS4T06050030	SS2T06050030	3.0	9	50	6
SS4T06050040	SS2T06050040	4.0	11	50	6
SS4T06050050	SS2T06050050	5.0	13	50	6
SS4T06050060	SS2T06050060	6.0	16	50	6
SS4T08060070	SS2T08060070	7.0	18	60	8
SS4T08060080	SS2T08060080	8.0	20	60	8
SS4T10075090	SS2T10075090	9.0	23	75	10
SS4T10075100	SS2T10075100	10.0	25	75	10
SS4T12075120	SS2T12075120	12.0	30	75	12
SS4T16100130	SS2T16100130	13.0	35	100	16
SS4T16100140	SS2T16100140	14.0	35	100	16
SS4T16100150	SS2T16100150	15.0	38	100	16
SS4T16100160	SS2T16100160	16.0	40	100	16
SS4T20100180	SS2T20100180	18.0	40	100	20
SS4T20100200	SS2T20100200	20.0	45	100	20
SS4T25100220	SS2T25100220	22.0	45	100	25
SS4T25100250	SS2T25100250	25.0	45	100	25

Unit:mm



標準型 3 刃立銑刀

3 Flutes Square End Mill



產品編號	刀徑	刃長	全長	柄徑
Item Code	Diameter	Flute Length	Overall Length	Shank Diameter
SS3T04050010	3.0	9	50	4
SS3T04050040	4.0	11	50	4
SS3T06050050	5.0	13	50	6
SS3T06050060	6.0	16	50	6
SS3T08060080	8.0	20	60	8
SS3T10075100	10.0	25	75	10
SS3T12075120	12.0	30	75	12
SS3T16100160	16.0	40	100	16
SS3T20100200	20.0	45	100	20

Unit:mm



標準型 6 刃立銑刀

6 Flutes Square End Mill



產品編號	刀徑	刃長	全長	柄徑
Item Code	Diameter	Flute Length	Overall Length	Shank Diameter
SS6T06050060	6.0	16	50	6
SS6T08060080	8.0	20	60	8
SS6T10075100	10.0	25	75	10
SS6T12075120	12.0	30	75	12
SS6T16100160	16.0	40	100	16
SS6T20100200	20.0	45	100	20

Unit:mm



長柄型立銑刀

Long Shank Square End Mill



4 刃 - 產品編號 4 Flutes Item Code	2 刃 - 產品編號 2 Flutes Item Code	刀徑 Diameter	刃長 Flute Length	全長 Overall Length	柄徑 Shank Diameter
SSK4T03075030	SSK2T03075030	3.0	9	75	3
SSK4T04075030	SSK2T04075030	3.0	11	75	4
SSK4T04075040	SSK2T04075040	4.0	11	75	4
SSK4T04100040	SSK2T04100040	4.0	11	100	4
SSK4T06075030	SSK2T06075030	3.0	9	75	6
SSK4T06075040	SSK2T06075040	4.0	11	75	6
SSK4T06100040	SSK2T06100040	4.0	11	100	6
SSK4T06075050	SSK2T06075050	5.0	13	75	6
SSK4T06075060	SSK2T06075060	6.0	16	75	6
SSK4T06100060	SSK2T06100060	6.0	16	100	6
SSK4T08075080	SSK2T08075080	8.0	20	75	8
SSK4T08100080	SSK2T08100080	8.0	20	100	8
SSK4T10100100	SSK2T10100100	10.0	25	100	10
SSK4T10150100	SSK2T10150100	10.0	25	150	10
SSK4T12100120	SSK2T12100120	12.0	30	100	12
SSK4T12150120	SSK2T12150120	12.0	30	150	12
SSK4T16150160	SSK2T16150160	16.0	40	150	16
SSK4T20150200	SSK2T20150200	20.0	45	150	20

Unit:mm



長刃型立銑刀

Long Flute Square End Mill



4 刃 - 產品編號	2 刃 - 產品編號	刀徑	刃長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Diameter	Flute Length	Overall Length	Shank Diameter
SSC4T03075030	SSC2T03075030	3.0	12	75	3
SSC4T04075030	SSC2T04075030	3.0	12	75	4
SSC4T04075040	SSC2T04075040	4.0	15	75	4
SSC4T06075050	SSC2T06075050	5.0	20	75	6
SSC4T06075060	SSC2T06075060	6.0	25	75	6
SSC4T06100060	SSC2T06100060	6.0	30	100	6
SSC4T08100080	SSC2T08100080	8.0	40	100	8
SSC4T10100100	SSC2T10100100	10.0	45	100	10
SSC4T12100120	SSC2T12100120	12.0	50	100	12
SSC4T16150160	SSC2T16150160	16.0	75	150	16
SSC4T20150200	SSC2T20150200	20.0	80	150	20

Unit:mm



重切削 4 刃立銑刀 [圓溝型螺旋角]

4 Flutes Heavy Cutting End Mill



產品編號	刀徑	刃長	全長	柄徑
Item Code	Diameter	Flute Length	Overall Length	Shank Diameter
SSH4T06050040	4.0	11	50	6
SSH4T06050050	5.0	13	50	6
SSH4T06050060	6.0	16	50	6
SSH4T08060080	8.0	20	60	8
SSH4T10075100	10.0	25	75	10
SSH4T12075120	12.0	30	75	12
SSH4T16100160	16.0	40	100	16
SSH4T20100200	20.0	45	100	20

Unit:mm



粗銑刀

Roughing End Mill



4 刃 - 產品編號	3 刃 - 產品編號	刀徑	刃長	全長	柄徑
4 Flutes Item Code	3 Flutes Item Code	Diameter	Flute Length	Overall Length	Shank Diameter
SRW4T06050060	SRW3T06050060	6	16	50	6
SRW4T08060080	SRW3T08060080	8	20	60	8
SRW4T10075100	SRW3T10075100	10	25	75	10
SRW4T12075120	SRW3T12075120	12	30	75	12
SRW4T16100160	SRW3T16100160	16	40	100	16
SRW4T20100200	SRW3T20100200	20	45	100	20

Unit:mm



長頸短刃型立銑刀 [深溝用]

Long Neck Square End Mill



4 刃 - 產品編號	2 刃 - 產品編號	刀徑	刃長	有效長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Diameter	Flute Length	Effective Length	Overall Length	Shank Diameter
SSN4T040500610	SSN2T040500610	1.0	1.0	6	50	4
SSN4T040500810	SSN2T040500810	1.0	1.0	8	50	4
SSN4T040501010	SSN2T040501010	1.0	1.0	10	50	4
SSN4T040501210	SSN2T040501210	1.0	1.0	12	50	4
SSN4T040500815	SSN2T040500815	1.5	1.5	8	50	4
SSN4T040501015	SSN2T040501015	1.5	1.5	10	50	4
SSN4T040501215	SSN2T040501215	1.5	1.5	12	50	4
SSN4T040501615	SSN2T040501615	1.5	1.5	16	50	4
SSN4T040500820	SSN2T040500820	2.0	2.0	8	50	4
SSN4T040501020	SSN2T040501020	2.0	2.0	10	50	4
SSN4T040501220	SSN2T040501220	2.0	2.0	12	50	4
SSN4T040501620	SSN2T040501620	2.0	2.0	16	50	4
SSN4T040502020	SSN2T040502020	2.0	2.0	20	50	4
SSN4T040501025	SSN2T040501025	2.5	2.5	10	50	4
SSN4T040501225	SSN2T040501225	2.5	2.5	12	50	4
SSN4T040501625	SSN2T040501625	2.5	2.5	16	50	4
SSN4T040502025	SSN2T040502025	2.5	2.5	20	50	4
SSN4T060501230	SSN2T060501230	3.0	3.0	12	50	6
SSN4T060501630	SSN2T060501630	3.0	3.0	16	50	6
SSN4T060752030	SSN2T060752030	3.0	3.0	20	75	6
SSN4T060752530	SSN2T060752530	3.0	3.0	25	75	6

Unit:mm



球型銑刀

Ball Nose End Mill



4 刃 - 產品編號	2 刃 - 產品編號	R 值	刃長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Radius	Flute Length	Overall Length	Shank Diameter
SB4T04050005	SB2T04050005	R0.50	2.0	50	4
SB4T04050007	SB2T04050007	R0.75	3.0	50	4
SB4T04050010	SB2T04050010	R1.00	4.0	50	4
SB4T04050012	SB2T04050012	R1.25	5.0	50	4
SB4T04050015	SB2T04050015	R1.50	6.0	50	4
SB4T03050015	SB2T03050015	R1.50	6.0	50	3
SB4T04050020	SB2T04050020	R2.00	8.0	50	4
SB4T05050025	SB2T05050025	R2.50	10.0	50	5
SB4T06050025	SB2T06050025	R2.50	10.0	50	6
SB4T06050030	SB2T06050030	R3.00	12.0	50	6
SB4T08060035	SB2T08060035	R3.50	12.0	60	8
SB4T08060040	SB2T08060040	R4.00	16.0	60	8
SB4T10075045	SB2T10075045	R4.50	18.0	75	10
SB4T10075050	SB2T10075050	R5.00	20.0	75	10
SB4T12075060	SB2T12075060	R6.00	24.0	75	12
SB4T16100080	SB2T16100080	R8.00	32.0	100	16
SB4T20100100	SB2T20100100	R10.0	40.0	100	20

Unit:mm



長柄型球型銑刀

Long Shank Ball Nose End Mill



4 刃 - 產品編號	2 刃 - 產品編號	R 值	刃長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Radius	Flute Length	Overall Length	Shank Diameter
SBK4T04075005	SBK2T04075005	R0.50	2.0	75	4
SBK4T04075007	SBK2T04075007	R0.75	3.0	75	4
SBK4T04075010	SBK2T04075010	R1.00	4.0	75	4
SBK4T03075015	SBK2T03075015	R1.50	6.0	75	3
SBK4T04075015	SBK2T04075015	R1.50	6.0	75	4
SBK4T04075020	SBK2T04075020	R2.00	8.0	75	4
SBK4T04100020	SBK2T04100020	R2.00	8.0	100	4
SBK4T05075025	SBK2T05075025	R2.50	10.0	75	5
SBK4T04100025	SBK2T04100025	R2.50	10.0	100	5
SBK4T06075010	SBK2T06075010	R1.00	4.0	75	6
SBK4T06075015	SBK2T06075015	R1.50	6.0	75	6
SBK4T06075020	SBK2T06075020	R2.00	8.0	75	6
SBK4T06075025	SBK2T06075025	R2.50	10.0	75	6
SBK4T06075030	SBK2T06075030	R3.00	12.0	75	6
SBK4T06100020	SBK2T06100020	R2.00	8.0	100	6
SBK4T06100025	SBK2T06100025	R2.50	10.0	100	6
SBK4T06100030	SBK2T06100030	R3.00	12.0	100	6
SBK4T08075040	SBK2T08075040	R4.00	16.0	75	8
SBK4T08100040	SBK2T08100040	R4.00	16.0	100	8
SBK4T10100050	SBK2T10100050	R5.00	20.0	100	10
SBK4T10150050	SBK2T10150050	R5.00	20.0	150	10
SBK4T12100060	SBK2T12100060	R6.00	24.0	100	12
SBK4T12150060	SBK2T12150060	R6.00	24.0	150	12
SBK4T16150080	SBK2T16150080	R8.00	32.0	150	16
SBK4T20150100	SBK2T20150100	R10.0	40.0	150	20

Unit:mm



長頸短刃型球型銑刀 [深溝用]

Long Neck Ball Nose End Mill



4 刃 - 產品編號	2 刃 - 產品編號	R 值	刃長	有效長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Radius	Flute Length	Effective Length	Overall Length	Shank Diameter
SBN4T0405006050	SBN2T0405006050	R0.50	1.0	6	50	4
SBN4T0405008050	SBN2T0405008050	R0.50	1.0	8	50	4
SBN4T0405010050	SBN2T0405010050	R0.50	1.0	10	50	4
SBN4T0405012050	SBN2T0405012050	R0.50	1.0	12	50	4
SBN4T0405008075	SBN2T0405008075	R0.75	1.5	8	50	4
SBN4T0405012075	SBN2T0405012075	R0.75	1.5	12	50	4
SBN4T0405016075	SBN2T0405016075	R0.75	1.5	16	50	4
SBN4T0405020075	SBN2T0405020075	R0.75	1.5	20	50	4
SBN4T0405008080	SBN2T0405008080	R0.80	1.6	8	50	4
SBN4T0405012080	SBN2T0405012080	R0.80	1.6	12	50	4
SBN4T0405016080	SBN2T0405016080	R0.80	1.6	16	50	4
SBN4T0405008100	SBN2T0405008100	R1.00	2.0	8	50	4
SBN4T0405012100	SBN2T0405012100	R1.00	2.0	12	50	4
SBN4T0405016100	SBN2T0405016100	R1.00	2.0	16	50	4
SBN4T0405020100	SBN2T0405020100	R1.00	2.0	20	50	4
SBN4T0605008150	SBN2T0605008150	R1.50	3.0	8	50	6
SBN4T0605010150	SBN2T0605010150	R1.50	3.0	10	50	6
SBN4T0605016150	SBN2T0605016150	R1.50	3.0	16	50	6
SBN4T0607510200	SBN2T0607510200	R2.00	4.0	10	75	6
SBN4T0607515200	SBN2T0607515200	R2.00	4.0	15	75	6
SBN4T0607520200	SBN2T0607520200	R2.00	4.0	20	75	6
SBN4T0607525200	SBN2T0607525200	R2.00	4.0	25	75	6
SBN4T0607530200	SBN2T0607530200	R2.00	4.0	30	75	6

Unit:mm



圓鼻立銑刀

Corner Radius End Mill



4 刃 - 產品編號	2 刃 - 產品編號	刀徑	圓角	刃長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Diameter	Circular Bead	Flute Length	Overall Length	Shank Diameter
SC4T0401002	SC2T0401002	1.0	0.2R	2	50	4
SC4T0402002	SC2T0402002	2.0	0.2R	4	50	4
SC4T0402005	SC2T0402005	2.0	0.5R	4	50	4
SC4T0403002	SC2T0403002	3.0	0.2R	6	50	4
SC4T0403005	SC2T0403005	3.0	0.5R	6	50	4
SC4T0403010	SC2T0403010	3.0	1.0R	6	50	4
SC4T0404002	SC2T0404002	4.0	0.2R	8	50	4
SC4T0404005	SC2T0404005	4.0	0.5R	8	50	4
SC4T0404010	SC2T0404010	4.0	1.0R	8	50	4
SC4T0605005	SC2T0605005	5.0	0.5R	10	50	6
SC4T0605010	SC2T0605010	5.0	1.0R	10	50	6
SC4T0606002	SC2T0606002	6.0	0.2R	12	50	6
SC4T0606005	SC2T0606005	6.0	0.5R	12	50	6
SC4T0606010	SC2T0606010	6.0	1.0R	12	50	6
SC4T0606015	SC2T0606015	6.0	1.5R	12	50	6
SC4T0606020	SC2T0606020	6.0	2.0R	12	50	6
SC4T0808005	SC2T0808005	8.0	0.5R	16	60	8
SC4T0808010	SC2T0808010	8.0	1.0R	16	60	8
SC4T0808015	SC2T0808015	8.0	1.5R	16	60	8
SC4T0808020	SC2T0808020	8.0	2.0R	16	60	8
SC4T1010005	SC2T1010005	10.0	0.5R	20	75	10
SC4T1010010	SC2T1010010	10.0	1.0R	20	75	10
SC4T1010015	SC2T1010015	10.0	1.5R	20	75	10
SC4T1010020	SC2T1010020	10.0	2.0R	20	75	10
SC4T1010025	SC2T1010025	10.0	2.5R	20	75	10
SC4T1010030	SC2T1010030	10.0	3.0R	20	75	10
SC4T1212005	SC2T1212005	12.0	0.5R	24	75	12
SC4T1212010	SC2T1212010	12.0	1.0R	24	75	12
SC4T1212015	SC2T1212015	12.0	1.5R	24	75	12
SC4T1212020	SC2T1212020	12.0	2.0R	24	75	12
SC4T1212025	SC2T1212025	12.0	2.5R	24	75	12
SC4T1212030	SC2T1212030	12.0	3.0R	24	75	12

Unit:mm



長柄型圓鼻立銑刀

Long Shank Corner Radius End Mill



4 刃 - 產品編號	2 刃 - 產品編號	刀徑	圓角	刃長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Diameter	Circular Bead	Flute Length	Overall Length	Shank Diameter
SCK4T0403002	SCK2T0403002	3.0	0.2R	6	75	4
SCK4T0403005	SCK2T0403005	3.0	0.5R	6	75	4
SCK4T0403010	SCK2T0403010	3.0	1.0R	6	75	4
SCK4T0404002	SCK2T0404002	4.0	0.2R	8	75	4
SCK4T0404005	SCK2T0404005	4.0	0.5R	8	75	4
SCK4T0404010	SCK2T0404010	4.0	1.0R	8	75	4
SCK4T0605005	SCK2T0605005	5.0	0.5R	10	75	6
SCK4T0605010	SCK2T0605010	5.0	1.0R	10	75	6
SCK4T0606002	SCK2T0606002	6.0	0.2R	12	75	6
SCK4T0606005	SCK2T0606005	6.0	0.5R	12	75	6
SCK4T0606010	SCK2T0606010	6.0	1.0R	12	100	6
SCK4T0606015	SCK2T0606015	6.0	1.5R	12	100	6
SCK4T0606020	SCK2T0606020	6.0	2.0R	12	100	6
SCK4T0808005	SCK2T0808005	8.0	0.5R	16	75	8
SCK4T0808010	SCK2T0808010	8.0	1.0R	16	75	8
SCK4T0808015	SCK2T0808015	8.0	1.5R	16	100	8
SCK4T0808020	SCK2T0808020	8.0	2.0R	16	100	8
SCK4T1010005	SCK2T1010005	10.0	0.5R	20	100	10
SCK4T1010010	SCK2T1010010	10.0	1.0R	20	100	10
SCK4T1010015	SCK2T1010015	10.0	1.5R	20	100	10
SCK4T1010020	SCK2T1010020	10.0	2.0R	20	100	10
SCK4T1010030	SCK2T1010030	10.0	3.0R	20	100	10
SCK4T1212005	SCK2T1212005	12.0	0.5R	24	100	12
SCK4T1212010	SCK2T1212010	12.0	1.0R	24	100	12
SCK4T1212015	SCK2T1212015	12.0	1.5R	24	100	12
SCK4T1212020	SCK2T1212020	12.0	2.0R	24	100	12
SCK4T1212030	SCK2T1212030	12.0	3.0R	24	100	12

Unit:mm



長頸短刃型圓鼻立銑刀 [深溝用]

Long Neck Corner Radius End Mill



4 刃 - 產品編號	2 刃 - 產品編號	刀徑	圓角	刃長	有效長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Diameter	Circular Bead	Flute Length	Effective Length	Overall Length	Shank Diameter
SCN4T04100401	SCN2T04100401	1.0	0.1R	1	4	50	4
SCN4T04100601	SCN2T04100601	1.0	0.1R	1	6	50	4
SCN4T04100801	SCN2T04100801	1.0	0.1R	1	8	50	4
SCN4T04101001	SCN2T04101001	1.0	0.1R	1	10	50	4
SCN4T04150402	SCN2T04150402	1.5	0.2R	1.5	4	50	4
SCN4T04150602	SCN2T04150602	1.5	0.2R	1.5	6	50	4
SCN4T04150802	SCN2T04150802	1.5	0.2R	1.5	8	50	4
SCN4T04151002	SCN2T04151002	1.5	0.2R	1.5	10	50	4
SCN4T04151202	SCN2T04151202	1.5	0.2R	1.5	12	50	4
SCN4T04200802	SCN2T04200802	2.0	0.2R	2	8	50	4
SCN4T04201002	SCN2T04201002	2.0	0.2R	2	10	50	4
SCN4T04201202	SCN2T04201202	2.0	0.2R	2	12	50	4
SCN4T04201602	SCN2T04201602	2.0	0.2R	2	16	50	4
SCN4T06300802	SCN2T06300802	3.0	0.2R	3	8	50	6
SCN4T06301002	SCN2T06301002	3.0	0.2R	3	10	50	6
SCN4T06301202	SCN2T06301202	3.0	0.2R	3	12	50	6
SCN4T06301602	SCN2T06301602	3.0	0.2R	3	16	50	6
SCN4T06302002	SCN2T06302002	3.0	0.2R	3	20	50	6

Unit:mm



極細微粒系列

Ultra Fine Micro Grain Carbide



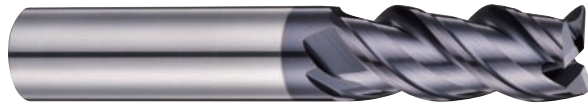


標準型立銑刀
Square End Mill



4 刃 - 產品編號 4 Flutes Item Code	2 刃 - 產品編號 2 Flutes Item Code	刀徑 Diameter	刃長 Flute Length	全長 Overall Length	柄徑 Shank Diameter
HS4T04050010	HS2T04050010	1.0	3	50	4
HS4T04050015	HS2T04050015	1.5	4	50	4
HS4T04050020	HS2T04050020	2.0	5	50	4
HS4T04050025	HS2T04050025	2.5	7	50	4
HS4T03050030	HS2T03050030	3.0	9	50	3
HS4T04050030	HS2T04050030	3.0	9	50	4
HS4T04050040	HS2T04050040	4.0	11	50	4
HS4T06050030	HS2T06050030	3.0	9	50	6
HS4T06050040	HS2T06050040	4.0	11	50	6
HS4T06050050	HS2T06050050	5.0	13	50	6
HS4T06050060	HS2T06050060	6.0	16	50	6
HS4T08060070	HS2T08060070	7.0	18	60	8
HS4T08060080	HS2T08060080	8.0	20	60	8
HS4T10075090	HS2T10075090	9.0	23	75	10
HS4T10075100	HS2T10075100	10.0	25	75	10
HS4T12075120	HS2T12075120	12.0	30	75	12
HS4T16100130	HS2T16100130	13.0	35	100	16
HS4T16100140	HS2T16100140	14.0	35	100	16
HS4T16100150	HS2T16100150	15.0	38	100	16
HS4T16100160	HS2T16100160	16.0	40	100	16
HS4T20100180	HS2T20100180	18.0	40	100	20
HS4T20100200	HS2T20100200	20.0	45	100	20
HS4T25100220	HS2T25100220	22.0	45	100	25
HS4T25100250	HS2T25100250	25.0	45	100	25

Unit:mm



標準型 3 刃立銑刀

3 Flutes Square End Mill



產品編號 Item Code	刀徑 Diameter	刃長 Flute Length	全長 Overall Length	柄徑 Shank Diameter
HS3T04050030	3.0	9	50	4
HS3T04050040	4.0	11	50	4
HS3T06050050	5.0	13	50	6
HS3T06050060	6.0	16	50	6
HS3T08060080	8.0	20	60	8
HS3T10075100	10.0	25	75	10
HS3T12075120	12.0	30	75	12
HS3T16100160	16.0	40	100	16
HS3T20100200	20.0	45	100	20

Unit:mm



標準型 6 刃立銑刀

6 Flutes Square End Mill



產品編號 Item Code	刀徑 Diameter	刃長 Flute Length	全長 Overall Length	柄徑 Shank Diameter
HS6T06050060	6.0	16	50	6
HS6T08060080	8.0	20	60	8
HS6T10075100	10.0	25	75	10
HS6T12075120	12.0	30	75	12
HS6T16100160	16.0	40	100	16
HS6T20100200	20.0	45	100	20

Unit:mm



長柄型立銑刀

Long Shank Square End Mill



4 刃 - 產品編號	2 刃 - 產品編號	刀徑	刃長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Diameter	Flute Length	Overall Length	Shank Diameter
HSK4T03075030	HSK2T03075030	3.0	9	75	3
HSK4T04075030	HSK2T04075030	3.0	11	75	4
HSK4T04075040	HSK2T04075040	4.0	11	75	4
HSK4T04100040	HSK2T04100040	4.0	11	100	4
HSK4T06075030	HSK2T06075030	3.0	9	75	6
HSK4T06075040	HSK2T06075040	4.0	11	75	6
HSK4T06075050	HSK2T06075050	5.0	13	75	6
HSK4T06075060	HSK2T06075060	6.0	16	75	6
HSK4T06100040	HSK2T06100040	4.0	11	100	6
HSK4T06100060	HSK2T06100060	6.0	16	100	6
HSK4T08075080	HSK2T08075080	8.0	20	75	8
HSK4T08100080	HSK2T08100080	8.0	20	100	8
HSK4T10100100	HSK2T10100100	10.0	25	100	10
HSK4T10150100	HSK2T10150100	10.0	25	150	10
HSK4T12100120	HSK2T12100120	12.0	30	100	12
HSK4T12150120	HSK2T12150120	12.0	30	150	12
HSK4T16150160	HSK2T16150160	16.0	40	150	16
HSK4T20150200	HSK2T20150200	20.0	45	150	20

Unit:mm



長刃型立銑刀

Long Flute Square End Mill



4 刃 - 產品編號	2 刃 - 產品編號	刀徑	刃長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Diameter	Flute Length	Overall Length	Shank Diameter
HSC4T03075030	HSC2T03075030	3.0	12	75	3
HSC4T04075030	HSC2T04075030	3.0	12	75	4
HSC4T04075040	HSC2T04075040	4.0	15	75	4
HSC4T06075050	HSC2T06075050	5.0	20	75	6
HSC4T06075060	HSC2T06075060	6.0	25	75	6
HSC4T06100060	HSC2T06100060	6.0	30	100	6
HSC4T08100080	HSC2T08100080	8.0	40	100	8
HSC4T10100100	HSC2T10100100	10.0	45	100	10
HSC4T12100120	HSC2T12100120	12.0	50	100	12
HSC4T16150160	HSC2T16150160	16.0	75	150	16
HSC4T20150200	HSC2T20150200	20.0	80	150	20

Unit:mm



重切削 4 刃立銑刀 [圓溝型螺旋角]

4 Flutes Heavy Cutting End Mill



產品編號 Item Code	刀徑 Diameter	刃長 Flute Length	全長 Overall Length	柄徑 Shank Diameter
HSH4T03075030	3.0	9	50	6
HSH4T06050040	4.0	11	50	6
HSH4T06050050	5.0	13	50	6
HSH4T06050060	6.0	16	50	6
HSH4T08060080	8.0	20	60	8
HSH4T10075100	10.0	25	75	10
HSH4T12075120	12.0	30	75	12
HSH4T16100160	16.0	40	100	16
HSH4T20100200	20.0	45	100	20

Unit:mm



粗銑刀

Roughing End Mill



4 刃 - 產品編號 4 Flutes Item Code	3 刃 - 產品編號 2 Flutes Item Code	刀徑 Diameter	刃長 Flute Length	全長 Overall Length	柄徑 Shank Diameter
HRW4T06050060	HRW3T06050060	6	16	50	6
HRW4T08060080	HRW3T08060080	8	20	60	8
HRW4T10075100	HRW3T10075100	10	25	75	10
HRW4T12075120	HRW3T12075120	12	30	75	12
HRW4T16100160	HRW3T16100160	16	40	100	16
HRW4T20100200	HRW3T20100200	20	45	100	20

Unit:mm



不鏽鋼刀

Square End mill for Stainless Steel



4 刃 - 產品編號	2 刃 - 產品編號	刀徑	刃長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Diameter	Flute Length	Overall Length	Shank Diameter
HSS4T04050010	HSS2T04050010	1	3	50	4
HSS4T04050020	HSS2T04050020	2	6	50	4
HSS4T04050030	HSS2T04050030	3	9	50	4
HSS4T04050040	HSS2T04050040	4	11	50	4
HSS4T06050030	HSS2T06050030	3	9	50	6
HSS4T06050040	HSS2T06050040	4	11	50	6
HSS4T06050050	HSS2T06050050	5	13	50	6
HSS4T06050060	HSS2T06050060	6	16	50	6
HSS4T08060080	HSS2T08060080	8	20	60	8
HSS4T10075100	HSS2T10075100	10	25	75	10
HSS4T12075120	HSS2T12075120	12	30	75	12
HSS4T16100160	HSS2T16100160	16	40	100	16
HSS4T20100200	HSS2T20100200	20	45	100	20

Unit:mm



長頸短刃型立銑刀 [深溝用]

Long Neck Square End Mill



4 刃 - 產品編號	2 刃 - 產品編號	刀徑	刃長	有效長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Diameter	Flute Length	Effective Length	Overall Length	Shank Diameter
HSN4T040500610	HSN2T040500610	1.0	1.0	6	50	4
HSN4T040500810	HSN2T040500810	1.0	1.0	8	50	4
HSN4T040501010	HSN2T040501010	1.0	1.0	10	50	4
HSN4T040501210	HSN2T040501210	1.0	1.0	12	50	4
HSN4T040500815	HSN2T040500815	1.5	1.5	8	50	4
HSN4T040501015	HSN2T040501015	1.5	1.5	10	50	4
HSN4T040501215	HSN2T040501215	1.5	1.5	12	50	4
HSN4T040501615	HSN2T040501615	1.5	1.5	16	50	4
HSN4T040500820	HSN2T040500820	2.0	2.0	8	50	4
HSN4T040501020	HSN2T040501020	2.0	2.0	10	50	4
HSN4T040501220	HSN2T040501220	2.0	2.0	12	50	4
HSN4T040501620	HSN2T040501620	2.0	2.0	16	50	4
HSN4T040502020	HSN2T040502020	2.0	2.0	20	50	4
HSN4T040501025	HSN2T040501025	2.5	2.5	10	50	4
HSN4T040501225	HSN2T040501225	2.5	2.5	12	50	4
HSN4T040501625	HSN2T040501625	2.5	2.5	16	50	4
HSN4T040502025	HSN2T040502025	2.5	2.5	20	50	4
HSN4T060501230	HSN2T060501230	3.0	3.0	12	50	6
HSN4T060501630	HSN2T060501630	3.0	3.0	16	50	6
HSN4T060752030	HSN2T060752030	3.0	3.0	20	75	6
HSN4T060752530	HSN2T060752530	3.0	3.0	25	75	6

Unit:mm



球型銑刀

Ball Nose End Mill



4 刃 - 產品編號 4 Flutes Item Code	2 刃 - 產品編號 2 Flutes Item Code	R 值 Radius	刃長 Flute Length	全長 Overall Length	柄徑 Shank Diameter
HB4T040500050	HB2T040500050	R0.50	2.0	50	4
HB4T040050075	HB2T040050075	R0.75	3.0	50	4
HB4T040500100	HB2T040500100	R1.00	4.0	50	4
HB4T040500125	HB2T040500125	R1.25	5.0	50	4
HB4T040500150	HB2T040500150	R1.50	6.0	50	4
HB4T030500150	HB2T030500150	R1.50	6.0	50	3
HB4T040500200	HB2T040500200	R2.00	8.0	50	6
HB4T050500250	HB2T050500250	R2.50	10.0	50	5
HB4T060500250	HB2T060500250	R2.50	10.0	50	6
HB4T060500300	HB2T060500300	R3.00	12.0	50	6
HB4T080600350	HB2T080600350	R3.50	12.0	60	8
HB4T080600400	HB2T080600400	R4.00	16.0	60	8
HB4T100750450	HB2T100750450	R4.50	18.0	75	10
HB4T100750500	HB2T100750500	R5.00	20.0	75	10
HB4T120750600	HB2T120750600	R6.00	24.0	75	12
HB4T161000800	HB2T161000800	R8.00	32.0	100	16
HB4T201001000	HB2T201001000	R10.0	40.0	100	20

Unit:mm



長柄型球型銑刀

Long Shank Ball Nose End Mill



4 刃 - 產品編號 4 Flutes Item Code	2 刃 - 產品編號 2 Flutes Item Code	R 值 Radius	刃長 Flute Length	全長 Overall Length	柄徑 Shank Diameter
HBK4T040750050	HBK2T040750050	R0.5	2.0	75	4
HBK4T040750075	HBK2T040750075	R0.75	3.0	75	4
HBK4T040750100	HBK2T040750100	R1.00	4.0	75	4
HBK4T030750150	HBK2T030750150	R1.50	6.0	75	3
HBK4T040750150	HBK2T040750150	R1.50	6.0	75	4
HBK4T040750200	HBK2T040750200	R2.00	8.0	75	4
HBK4T041000200	HBK2T041000200	R2.00	8.0	100	4
HBK4T050750250	HBK2T050750250	R2.50	10.0	75	5
HBK4T051000250	HBK2T051000250	R2.50	10.0	100	5
HBK4T060750100	HBK2T060750100	R1.00	4.0	75	6
HBK4T060750150	HBK2T060750150	R1.50	6.0	75	6
HBK4T060750200	HBK2T060750200	R2.00	8.0	75	6
HBK4T060750250	HBK2T060750250	R2.50	10.0	75	6
HBK4T060750300	HBK2T060750300	R3.00	12.0	75	6
HBK4T061000200	HBK2T061000200	R2.00	8.0	100	6
HBK4T061000250	HBK2T061000250	R2.50	10.0	100	6
HBK4T061000300	HBK2T061000300	R3.00	12.0	100	6
HBK4T080750400	HBK2T080750400	R4.00	16.0	75	8
HBK4T081000400	HBK2T081000400	R4.00	16.0	100	8
HBK4T101000500	HBK2T101000500	R5.00	20.0	100	10
HBK4T101500500	HBK2T101500500	R5.00	20.0	150	10
HBK4T121000600	HBK2T121000600	R6.00	24.0	100	12
HBK4T121500600	HBK2T121500600	R6.00	24.0	150	12
HBK4T161500800	HBK2T161500800	R8.00	32.0	150	16
HBK4T201501000	HBK2T201501000	R10.0	40.0	150	20

Unit:mm



長頸短刃型球型銑刀 [深溝用]

Long Neck Ball Nose End Mill



4 刃 - 產品編號	2 刃 - 產品編號	R 值	刃長	有效長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Radius	Flute Length	Effective Length	Overall Length	Shank Diameter
HBN4T0405006050	HBN2T0405006050	R0.50	1.0	6	50	4
HBN4T0405008050	HBN2T0405008050	R0.50	1.0	8	50	4
HBN4T0405010050	HBN2T0405010050	R0.50	1.0	10	50	4
HBN4T0405012050	HBN2T0405012050	R0.50	1.0	12	50	4
HBN4T0405008075	HBN2T0405008075	R0.75	1.5	8	50	4
HBN4T0405012075	HBN2T0405012075	R0.75	1.5	12	50	4
HBN4T0405016075	HBN2T0405016075	R0.75	1.5	16	50	4
HBN4T0405020075	HBN2T0405020075	R0.75	1.5	20	50	4
HBN4T0405008080	HBN2T0405008080	R0.80	1.6	8	50	4
HBN4T0405012080	HBN2T0405012080	R0.80	1.6	12	50	4
HBN4T0405016080	HBN2T0405016080	R0.80	1.6	16	50	4
HBN4T0405008100	HBN2T0405008100	R1.00	2.0	8	50	4
HBN4T0405012100	HBN2T0405012100	R1.00	2.0	12	50	4
HBN4T0405016100	HBN2T0405016100	R1.00	2.0	16	50	4
HBN4T0405020100	HBN2T0405020100	R1.00	2.0	20	50	4
HBN4T0605008150	HBN2T0605008150	R1.50	3.0	8	50	6
HBN4T0605010150	HBN2T0605010150	R1.50	3.0	10	50	6
HBN4T0605016150	HBN2T0605016150	R1.50	3.0	16	50	6
HBN4T0607510200	HBN2T0607510200	R2.00	4.0	10	75	6
HBN4T0607515200	HBN2T0607515200	R2.00	4.0	15	75	6
HBN4T0607520200	HBN2T0607520200	R2.00	4.0	20	75	6
HBN4T0607525200	HBN2T0607525200	R2.00	4.0	25	75	6
HBN4T0607530200	HBN2T0607530200	R2.00	4.0	30	75	6

Unit:mm



圓鼻立銑刀

Corner Radius End Mill



4 刃 - 產品編號	2 刃 - 產品編號	刀徑	圓角	刃長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Diameter	Circular Bead	Flute Length	Overall Length	Shank Diameter
HC4T0401002	HC2T0401002	1.0	0.2R	2	50	4
HC4T0402002	HC2T0402002	2.0	0.2R	4	50	4
HC4T0402005	HC2T0402005	2.0	0.5R	4	50	4
HC4T0403002	HC2T0403002	3.0	0.2R	6	50	4
HC4T0403005	HC2T0403005	3.0	0.5R	6	50	4
HC4T0403010	HC2T0403010	3.0	1.0R	6	50	4
HC4T0404002	HC2T0404002	4.0	0.2R	8	50	4
HC4T0404005	HC2T0404005	4.0	0.5R	8	50	4
HC4T0404010	HC2T0404010	4.0	1.0R	8	50	4
HC4T0605005	HC2T0605005	5.0	0.5R	10	50	6
HC4T0605010	HC2T0605010	5.0	1.0R	10	50	6
HC4T0606002	HC2T0606002	6.0	0.2R	12	50	6
HC4T0606005	HC2T0606005	6.0	0.5R	12	50	6
HC4T0606010	HC2T0606010	6.0	1.0R	12	50	6
HC4T0606015	HC2T0606015	6.0	1.5R	12	50	6
HC4T0606020	HC2T0606020	6.0	2.0R	12	50	6
HC4T0808005	HC2T0808005	8.0	0.5R	16	60	8
HC4T0808010	HC2T0808010	8.0	1.0R	16	60	8
HC4T0808015	HC2T0808015	8.0	1.5R	16	60	8
HC4T0808020	HC2T0808020	8.0	2.0R	16	60	8
HC4T1010005	HC2T1010005	10.0	0.5R	20	75	10
HC4T1010010	HC2T1010010	10.0	1.0R	20	75	10
HC4T1010015	HC2T1010015	10.0	1.5R	20	75	10
HC4T1010020	HC2T1010020	10.0	2.0R	20	75	10
HC4T1010025	HC2T1010025	10.0	2.5R	20	75	10
HC4T1010030	HC2T1010030	10.0	3.0R	20	75	10
HC4T1212005	HC2T1212005	12.0	0.5R	24	75	12
HC4T1212010	HC2T1212010	12.0	1.0R	24	75	12
HC4T1212015	HC2T1212015	12.0	1.5R	24	75	12
HC4T1212020	HC2T1212020	12.0	2.0R	24	75	12
HC4T1212025	HC2T1212025	12.0	2.5R	24	75	12
HC4T1212030	HC2T1212030	12.0	3.0R	24	75	12

Unit:mm



長柄型圓鼻立銑刀

Long Shank Corner Radius End Mill



4 刃 - 產品編號	2 刃 - 產品編號	刀徑	圓角	刃長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Diameter	Circular Bead	Flute Length	Overall Length	Shank Diameter
HCK4T0403002	HCK2T0403002	3.0	0.2R	6	75	4
HCK4T0403005	HCK2T0403005	3.0	0.5R	6	75	4
HCK4T0403010	HCK2T0403010	3.0	1.0R	6	75	4
HCK4T0404002	HCK2T0404002	4.0	0.2R	8	75	4
HCK4T0404005	HCK2T0404005	4.0	0.5R	8	75	4
HCK4T0404010	HCK2T0404010	4.0	1.0R	8	75	4
HCK4T0605005	HCK2T0605005	5.0	0.5R	10	75	6
HCK4T0605010	HCK2T0605010	5.0	1.0R	10	75	6
HCK4T0606002	HCK2T0606002	6.0	0.2R	12	75	6
HCK4T0606005	HCK2T0606005	6.0	0.5R	12	75	6
HCK4T0606010	HCK2T0606010	6.0	1.0R	12	100	6
HCK4T0606015	HCK2T0606015	6.0	1.5R	12	100	6
HCK4T0606020	HCK2T0606020	6.0	2.0R	12	100	6
HCK4T0808005	HCK2T0808005	8.0	0.5R	16	75	8
HCK4T0808010	HCK2T0808010	8.0	1.0R	16	75	8
HCK4T0808015	HCK2T0808015	8.0	1.5R	16	100	8
HCK4T0808020	HCK2T0808020	8.0	2.0R	16	100	8
HCK4T1010005	HCK2T1010005	10.0	0.5R	20	100	10
HCK4T1010010	HCK2T1010010	10.0	1.0R	20	100	10
HCK4T1010015	HCK2T1010015	10.0	1.5R	20	100	10
HCK4T1010020	HCK2T1010020	10.0	2.0R	20	100	10
HCK4T1010030	HCK2T1010030	10.0	3.0R	20	100	10
HCK4T1212005	HCK2T1212005	12.0	0.5R	24	100	12
HCK4T1212010	HCK2T1212010	12.0	1.0R	24	100	12
HCK4T1212015	HCK2T1212015	12.0	1.5R	24	100	12
HCK4T1212020	HCK2T1212020	12.0	2.0R	24	100	12
HCK4T1212030	HCK2T1212030	12.0	3.0R	24	100	12

Unit:mm



長頸短刃型圓鼻銑刀 [深溝用]

Long Neck Corner Radius End Mill



4 刃 - 產品編號	2 刃 - 產品編號	刀徑	圓角	刃長	有效長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Diameter	Circular Bead	Flute Length	Effective Length	Overall Length	Shank Diameter
HCN4T04100401	HCN2T04100401	1.0	0.1R	1	4	50	4
HCN4T04100601	HCN2T04100601	1.0	0.1R	1	6	50	4
HCN4T04100801	HCN2T04100801	1.0	0.1R	1	8	50	4
HCN4T04101001	HCN2T04101001	1.0	0.1R	1	10	50	4
HCN4T04150402	HCN2T04150402	1.5	0.2R	2	4	50	4
HCN4T04150602	HCN2T04150602	1.5	0.2R	2	6	50	4
HCN4T04150802	HCN2T04150802	1.5	0.2R	2	8	50	4
HCN4T04151002	HCN2T04151002	1.5	0.2R	2	10	50	4
HCN4T04151202	HCN2T04151202	1.5	0.2R	2	12	50	4
HCN4T04200802	HCN2T04200802	2.0	0.2R	2	8	50	4
HCN4T04201002	HCN2T04201002	2.0	0.2R	2	10	50	4
HCN4T04201202	HCN2T04201202	2.0	0.2R	2	12	50	4
HCN4T04201602	HCN2T04201602	2.0	0.2R	2	16	50	4
HCN4T06300802	HCN2T06300802	3.0	0.2R	3	8	50	6
HCN4T06301002	HCN2T06301002	3.0	0.2R	3	10	50	6
HCN4T06301202	HCN2T06301202	3.0	0.2R	3	12	50	6
HCN4T06301602	HCN2T06301602	3.0	0.2R	3	16	50	6
HCN4T06302002	HCN2T06302002	3.0	0.2R	3	20	50	6

Unit:mm



微小徑 2 刃立銑刀

2 Flutes Micro Diameter Square End Mill



產品編號 Item Code	刀徑 Diameter	刃長 Flute Length	全長 Overall Length	柄徑 Shank Diameter
HMS2T0405002	0.2	0.4	50	4
HMS2T0405003	0.3	0.6	50	4
HMS2T0405004	0.4	0.8	50	4
HMS2T0405005	0.5	1.0	50	4
HMS2T0405006	0.6	1.2	50	4
HMS2T0405007	0.7	1.4	50	4
HMS2T0405008	0.8	1.6	50	4
HMS2T0405009	0.9	1.8	50	4

Unit:mm



微小徑 2 刃球型銑刀

2 Flutes Micro Diameter Ball Nose End Mill



產品編號 Item Code	R 值 Radius	刃長 Flute Length	全長 Overall Length	柄徑 Shank Diameter
HMB2T0405015	R0.15	0.3	50	4
HMB2T0405020	R0.20	0.8	50	4
HMB2T0405025	R0.25	1.0	50	4
HMB2T0405030	R0.30	1.2	50	4
HMB2T0405035	R0.35	1.4	50	4
HMB2T0405040	R0.40	1.6	50	4
HMB2T0405045	R0.45	1.8	50	4

Unit:mm



奈米微粒系列

Super Ultra Fine Micro Grain Carbide





立銑刀 [高硬度]
Square End Mill



4 刃 - 產品編號	2 刃 - 產品編號	刀徑	刃長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Diameter	Flute Length	Overall Length	Shank Diameter
TS4T04050010	TS2T04050010	1.0	3	50	4
TS4T04050015	TS2T04050015	1.5	4	50	4
TS4T04050020	TS2T04050020	2.0	5	50	4
TS4T04050025	TS2T04050025	2.5	7	50	4
TS4T03050030	TS2T03050030	3.0	9	50	3
TS4T04050040	TS2T04050040	4.0	11	50	4
TS4T06050030	TS2T06050030	3.0	9	50	6
TS4T06050040	TS2T06050040	4.0	11	50	6
TS4T06050050	TS2T06050050	5.0	13	50	6
TS4T06050060	TS2T06050060	6.0	16	50	6
TS4T08060070	TS2T08060070	7.0	18	60	8
TS4T08060080	TS2T08060080	8.0	20	60	8
TS4T10075090	TS2T10075090	9.0	23	75	10
TS4T10075100	TS2T10075100	10.0	25	75	10
TS4T12075120	TS2T12075120	12.0	30	75	12
TS4T16100130	TS2T16100130	13.0	35	100	16
TS4T16100140	TS2T16100140	14.0	35	100	16
TS4T16100150	TS2T16100150	15.0	38	100	16
TS4T16100160	TS2T16100160	16.0	40	100	16
TS4T20100180	TS2T20100180	18.0	40	100	20
TS4T20100200	TS2T20100200	20.0	45	100	20

Unit:mm



3刃立銑刀 [高硬度]

3 Flutes Square End Mill



產品編號	刀徑	刃長	全長	柄徑
Item Code	Diameter	Flute Length	Overall Length	Shank Diameter
TS3T04050030	3.0	9	50	4
TS3T04050040	4.0	11	50	4
TS3T06050050	5.0	13	50	6
TS3T06050060	6.0	16	50	6
TS3T08060080	8.0	20	60	8
TS3T10075100	10.0	25	75	10
TS3T12075120	12.0	30	75	12
TS3T16100160	16.0	40	100	16
TS3T20100200	20.0	45	100	20

Unit:mm



6刃立銑刀 [高硬度]

6 Flutes Square End Mill



產品編號	刀徑	刃長	全長	柄徑
Item Code	Diameter	Flute Length	Overall Length	Shank Diameter
TS6T06050060	6.0	16	50	6
TS6T08060080	8.0	20	60	8
TS6T10075100	10.0	25	75	10
TS6T12075120	12.0	30	75	12
TS6T16100160	16.0	40	100	16
TS6T20100200	20.0	45	100	20

Unit:mm



長柄型立銑刀 [高硬度]

Long Shank Square End Mill



4 刃 - 產品編號 4 Flutes Item Code	2 刃 - 產品編號 2 Flutes Item Code	刀徑 Diameter	刃長 Flute Length	全長 Overall Length	柄徑 Shank Diameter
TSK4T04075030	TSK2T04075030	3.0	11	75	4
TSK4T04075040	TSK2T04075040	4.0	11	75	4
TSK4T04100040	TSK2T04100040	4.0	11	100	4
TSK4T06075050	TSK2T06075050	5.0	13	75	6
TSK4T06075060	TSK2T06075060	6.0	16	75	6
TSK4T06100060	TSK2T06100060	6.0	16	100	6
TSK4T08075080	TSK2T08075080	8.0	20	75	8
TSK4T08100080	TSK2T08100080	8.0	20	100	8
TSK4T10100100	TSK2T10100100	10.0	25	100	10
TSK4T10150100	TSK2T10150100	10.0	25	150	10
TSK4T12100120	TSK2T12100120	12.0	30	100	12
TSK4T12150120	TSK2T12150120	12.0	30	150	12
TSK4T16150160	TSK2T16150160	16.0	40	150	16
TSK4T20150200	TSK2T20150200	20.0	45	150	20

Unit:mm



長刃型立銑刀 [高硬度]

Long Flute Square End Mill



4 刃 - 產品編號	2 刃 - 產品編號	刀徑	刃長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Diameter	Flute Length	Overall Length	Shank Diameter
TSC4T04075030	TSC2T04075030	3.0	12	75	4
TSC4T04075040	TSC2T04075040	4.0	15	75	4
TSC4T06075050	TSC2T06075050	5.0	20	75	6
TSC4T06075060	TSC2T06075060	6.0	25	75	6
TSC4T06100060	TSC2T06100060	6.0	30	100	6
TSC4T08100080	TSC2T08100080	8.0	40	100	8
TSC4T10100100	TSC2T10100100	10.0	45	100	10
TSC4T12100120	TSC2T12100120	12.0	50	100	12
TSC4T16150160	TSC2T16150160	16.0	75	150	16
TSC4T20150200	TSC2T20150200	20.0	80	150	20

Unit:mm



長頸短刃型立銑刀 [深溝用]

Long Neck Square End Mill



4 刃 - 產品編號	2 刃 - 產品編號	刀徑	刃長	有效長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Diameter	Flute Length	Effective Length	Overall Length	Shank Diameter
TSN4T040500610	TSN2T040500610	1.0	1.0	6	50	4
TSN4T040500810	TSN2T040500810	1.0	1.0	8	50	4
TSN4T040501010	TSN2T040501010	1.0	1.0	10	50	4
TSN4T040501210	TSN2T040501210	1.0	1.0	12	50	4
TSN4T040500815	TSN2T040500815	1.5	1.5	8	50	4
TSN4T040501015	TSN2T040501015	1.5	1.5	10	50	4
TSN4T040501215	TSN2T040501215	1.5	1.5	12	50	4
TSN4T040501615	TSN2T040501615	1.5	1.5	16	50	4
TSN4T040500820	TSN2T040500820	2.0	2.0	8	50	4
TSN4T040501020	TSN2T040501020	2.0	2.0	10	50	4
TSN4T040501220	TSN2T040501220	2.0	2.0	12	50	4
TSN4T040501620	TSN2T040501620	2.0	2.0	16	50	4
TSN4T040502020	TSN2T040502020	2.0	2.0	20	50	4
TSN4T040501025	TSN2T040501025	2.5	2.5	10	50	4
TSN4T040501225	TSN2T040501225	2.5	2.5	12	50	4
TSN4T040501625	TSN2T040501625	2.5	2.5	16	50	4
TSN4T040502025	TSN2T040502025	2.5	2.5	20	50	4
TSN4T060501230	TSN2T060501230	3.0	3.0	12	50	6
TSN4T060501630	TSN2T060501630	3.0	3.0	16	50	6
TSN4T060752030	TSN2T060752030	3.0	3.0	20	75	6
TSN4T060752530	TSN2T060752530	3.0	3.0	25	75	6

Unit:mm



球型銑刀 [高硬度]

Ball Nose End Mill



4 刃 - 產品編號	2 刃 - 產品編號	R 值	刃長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Radius	Flute Length	Overall Length	Shank Diameter
TB4T040500050	TB2T040500050	R0.50	2.0	50	4
TB4T040500075	TB2T040500075	R0.75	3.0	50	4
TB4T040500100	TB2T040500100	R1.00	4.0	50	4
TB4T040500125	TB2T040500125	R1.25	5.0	50	4
TB4T040500150	TB2T040500150	R1.50	6.0	50	4
TB4T040500200	TB2T040500200	R2.00	8.0	50	4
TB4T060500250	TB2T060500250	R2.50	10.0	50	6
TB4T050500250	TB2T050500250	R2.50	10.0	50	5
TB4T060500300	TB2T060500300	R3.00	12.0	50	6
TB4T080600350	TB2T080600350	R3.50	12.0	60	8
TB4T080600400	TB2T080600400	R4.00	16.0	60	8
TB4T100750450	TB2T100750450	R4.50	18.0	75	10
TB4T100750500	TB2T100750500	R5.00	20.0	75	10
TB4T120750600	TB2T120750600	R6.00	24.0	75	12
TB4T161000800	TB2T161000800	R8.00	32.0	100	16
TB4T201001000	TB2T201001000	R10.0	40.0	100	20

Unit:mm



長柄型球型銑刀 [高硬度]

Long Shank Ball Nose End Mill



4 刃 - 產品編號	2 刃 - 產品編號	R 值	刃長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Radius	Flute Length	Overall Length	Shank Diameter
TBK4T04075050	TBK2T04075050	R0.50	2.0	75	4
TBK4T04075075	TBK2T04075075	R0.75	3.0	75	4
TBK4T04075100	TBK2T04075100	R1.00	4.0	75	4
TBK4T04075150	TBK2T04075150	R1.50	6.0	75	4
TBK4T04075200	TBK2T04075200	R2.00	8.0	75	4
TBK4T04100200	TBK2T04100200	R2.00	8.0	100	4
TBK4T05075250	TBK2T05075250	R2.50	10.0	75	5
TBK4T05100250	TBK2T05100250	R2.50	10.0	100	5
TBK4T06075250	TBK2T06075250	R2.50	10.0	75	6
TBK4T06075300	TBK2T06075300	R3.00	12.0	75	6
TBK4T06100200	TBK2T06100200	R2.00	8.0	100	6
TBK4T06100250	TBK2T06100250	R2.50	10.0	100	6
TBK4T06100300	TBK2T06100300	R3.00	12.0	100	6
TBK4T08075400	TBK2T08075400	R4.00	16.0	75	8
TBK4T08100400	TBK2T08100400	R4.00	16.0	100	8
TBK4T10100500	TBK2T10100500	R5.00	20.0	100	10
TBK4T10150500	TBK2T10150500	R5.00	20.0	150	10
TBK4T12100600	TBK2T12100600	R6.00	24.0	100	12
TBK4T12150600	TBK2T12150600	R6.00	24.0	150	12
TBK4T16150800	TBK2T16150800	R8.00	32.0	150	16

Unit:mm



長頸短刃型球型銑刀 [深溝用]

Long Neck Ball Nose End Mill



4 刃 - 產品編號	2 刃 - 產品編號	R 值	刃長	有效長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Radius	Flute Length	Overall Length	Overall Diameter	Shank Diameter
TBN4T0405006050	TBN2T0405006050	R0.50	1.0	6	50	4
TBN4T0405008050	TBN2T0405008050	R0.50	1.0	8	50	4
TBN4T0405010050	TBN2T0405010050	R0.50	1.0	10	50	4
TBN4T0405012050	TBN2T0405012050	R0.50	1.0	12	50	4
TBN4T0405008075	TBN2T0405008075	R0.75	1.5	8	50	4
TBN4T0405012075	TBN2T0405012075	R0.75	1.5	12	50	4
TBN4T0405016075	TBN2T0405016075	R0.75	1.5	16	50	4
TBN4T0405020075	TBN2T0405020075	R0.75	1.5	20	50	4
TBN4T0405008080	TBN2T0405008080	R0.80	1.6	8	50	4
TBN4T0405012080	TBN2T0405012080	R0.80	1.6	12	50	4
TBN4T0405016080	TBN2T0405016080	R0.80	1.6	16	50	4
TBN4T0405008100	TBN2T0405008100	R1.00	2.0	8	50	4
TBN4T0405012100	TBN2T0405012100	R1.00	2.0	12	50	4
TBN4T0405016100	TBN2T0405016100	R1.00	2.0	16	50	4
TBN4T0405020100	TBN2T0405020100	R1.00	2.0	20	50	4
TBN4T0605008150	TBN2T0605008150	R1.50	3.0	8	50	6
TBN4T0605010150	TBN2T0605010150	R1.50	3.0	10	50	6
TBN4T0605016150	TBN2T0605016150	R1.50	3.0	16	50	6
TBN4T0607510200	TBN2T0607510200	R2.00	4.0	10	75	6
TBN4T0607515200	TBN2T0607515200	R2.00	4.0	15	75	6
TBN4T0607520200	TBN2T0607520200	R2.00	4.0	20	75	6
TBN4T0607525200	TBN2T0607525200	R2.00	4.0	25	75	6
TBN4T0607530200	TBN2T0607530200	R2.00	4.0	30	75	6

Unit:mm



圓鼻立銑刀 [高硬度]

Corner Radius End Mill



4 刃 - 產品編號	2 刃 - 產品編號	刀徑	圓角	刃長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Diameter	Circular Bead	Flute Length	Overall Length	Shank Diameter
TC4T0401002	TC2T0401002	1.0	0.2R	2	50	4
TC4T0402002	TC2T0402002	2.0	0.2R	4	50	4
TC4T0402005	TC2T0402005	2.0	0.5R	4	50	4
TC4T0403002	TC2T0403002	3.0	0.2R	6	50	4
TC4T0403005	TC2T0403005	3.0	0.5R	6	50	4
TC4T0403010	TC2T0403010	3.0	1.0R	6	50	4
TC4T0404002	TC2T0404002	4.0	0.2R	8	50	4
TC4T0404005	TC2T0404005	4.0	0.5R	8	50	4
TC4T0404010	TC2T0404010	4.0	1.0R	8	50	4
TC4T0605005	TC2T0605005	5.0	0.5R	10	50	6
TC4T0605010	TC2T0605010	5.0	1.0R	10	50	6
TC4T0606002	TC2T0606002	6.0	0.2R	12	50	6
TC4T0606005	TC2T0606005	6.0	0.5R	12	50	6
TC4T0606010	TC2T0606010	6.0	1.0R	12	50	6
TC4T0606015	TC2T0606015	6.0	1.5R	12	50	6
TC4T0606020	TC2T0606020	6.0	2.0R	12	50	6
TC4T0808005	TC2T0808005	8.0	0.5R	16	60	8
TC4T0808010	TC2T0808010	8.0	1.0R	16	60	8
TC4T0808015	TC2T0808015	8.0	1.5R	16	60	8
TC4T0808020	TC2T0808020	8.0	2.0R	16	60	8
TC4T1010005	TC2T1010005	10.0	0.5R	20	75	10
TC4T1010010	TC2T1010010	10.0	1.0R	20	75	10
TC4T1010015	TC2T1010015	10.0	1.5R	20	75	10
TC4T1010020	TC2T1010020	10.0	2.0R	20	75	10
TC4T1010025	TC2T1010025	10.0	2.5R	20	75	10
TC4T1010030	TC2T1010030	10.0	3.0R	20	75	10
TC4T1212005	TC2T1212005	12.0	0.5R	24	75	12
TC4T1212010	TC2T1212010	12.0	1.0R	24	75	12
TC4T1212015	TC2T1212015	12.0	1.5R	24	75	12
TC4T1212020	TC2T1212020	12.0	2.0R	24	75	12
TC4T1212025	TC2T1212025	12.0	2.5R	24	75	12
TC4T1212030	TC2T1212030	12.0	3.0R	24	75	12

Unit:mm



長柄型圓鼻立銑刀

Long Shank Corner Radius End Mill



4 刃 - 產品編號	2 刃 - 產品編號	刀徑	圓角	刃長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Diameter	Circular Bead	Flute Length	Overall Length	Shank Diameter
TCK4T0403002	TCK2T0403002	3.0	0.2R	6	75	4
TCK4T0403005	TCK2T0403005	3.0	0.5R	6	75	4
TCK4T0403010	TCK2T0403010	3.0	1.0R	6	75	4
TCK4T0404002	TCK2T0404002	4.0	0.2R	8	75	4
TCK4T0404005	TCK2T0404005	4.0	0.5R	8	75	4
TCK4T0404010	TCK2T0404010	4.0	1.0R	8	75	4
TCK4T0605005	TCK2T0605005	5.0	0.5R	10	75	6
TCK4T0605010	TCK2T0605010	5.0	1.0R	10	75	6
TCK4T0606002	TCK2T0606002	6.0	0.2R	12	75	6
TCK4T0606005	TCK2T0606005	6.0	0.5R	12	75	6
TCK4T0606010	TCK2T0606010	6.0	1.0R	12	100	6
TCK4T0606015	TCK2T0606015	6.0	1.5R	12	100	6
TCK4T0606020	TCK2T0606020	6.0	2.0R	12	100	6
TCK4T0808005	TCK2T0808005	8.0	0.5R	16	75	8
TCK4T0808010	TCK2T0808010	8.0	1.0R	16	75	8
TCK4T0808015	TCK2T0808015	8.0	1.5R	16	100	8
TCK4T0808020	TCK2T0808020	8.0	2.0R	16	100	8
TCK4T1010005	TCK2T1010005	10.0	0.5R	20	100	10
TCK4T1010010	TCK2T1010010	10.0	1.0R	20	100	10
TCK4T1010015	TCK2T1010015	10.0	1.5R	20	100	10
TCK4T1010020	TCK2T1010020	10.0	2.0R	20	100	10
TCK4T1010030	TCK2T1010030	10.0	3.0R	20	100	10
TCK4T1212005	TCK2T1212005	12.0	0.5R	24	100	12
TCK4T1212010	TCK2T1212010	12.0	1.0R	24	100	12
TCK4T1212015	TCK2T1212015	12.0	1.5R	24	100	12
TCK4T1212020	TCK2T1212020	12.0	2.0R	24	100	12
TCK4T1212030	TCK2T1212030	12.0	3.0R	24	100	12

Unit:mm



長頸短刃型圓鼻立銑刀 [深溝用]

Long Neck Corner Radius End Mill



4 刃 - 產品編號	2 刃 - 產品編號	刀徑	圓角	刃長	有效長	全長	柄徑
4 Flutes Item Code	2 Flutes Item Code	Diameter	Circular Bead	Flute Length	Effective Length	Overall Length	Shank Diameter
TCN4T04100401	TCN2T04100401	1.0	0.1R	1	4	50	4
TCN4T04100601	TCN2T04100601	1.0	0.1R	1	6	50	4
TCN4T04100801	TCN2T04100801	1.0	0.1R	1	8	50	4
TCN4T04101001	TCN2T04101001	1.0	0.1R	1	10	50	4
TCN4T04150402	TCN2T04150402	1.5	0.2R	2	4	50	4
TCN4T04150602	TCN2T04150602	1.5	0.2R	2	6	50	4
TCN4T04150802	TCN2T04150802	1.5	0.2R	2	8	50	4
TCN4T04151002	TCN2T04151002	1.5	0.2R	2	10	50	4
TCN4T04151202	TCN2T04151202	1.5	0.2R	2	12	50	4
TCN4T04200802	TCN2T04200802	2.0	0.2R	2	8	50	4
TCN4T04201002	TCN2T04201002	2.0	0.2R	2	10	50	4
TCN4T04201202	TCN2T04201202	2.0	0.2R	2	12	50	4
TCN4T04201602	TCN2T04201602	2.0	0.2R	2	16	50	4
TCN4T06300802	TCN2T06300802	3.0	0.2R	3	8	50	6
TCN4T06301002	TCN2T06301002	3.0	0.2R	3	10	50	6
TCN4T06301202	TCN2T06301202	3.0	0.2R	3	12	50	6
TCN4T06301602	TCN2T06301602	3.0	0.2R	3	16	50	6
TCN4T06302002	TCN2T06302002	3.0	0.2R	3	20	50	6

Unit:mm



鋁用系列
Aluminum Cutting Serise





3刃度鋁用立銑刀 3 Flutes Square End Mill



45°產品編號 45° Helix Angle Item Code	55°產品編號 55° Helix Angle Item Code	刀徑 Diameter	刃長 Flute Length	全長 Overall Length	柄徑 Shank Diameter
AS453T06050010	AS553T06050010	1.0	3	50	6
AS453T06050020	AS553T06050020	2.0	6	50	6
AS453T06050030	AS553T06050030	3.0	9	50	6
AS453T06050040	AS553T06050040	4.0	12	50	6
AS453T06050050	AS553T06050050	5.0	15	50	6
AS453T06050060	AS553T06050060	6.0	18	50	6
AS453T08060080	AS553T08060080	8.0	24	60	8
AS453T10075100	AS553T10075100	10.0	30	75	10
AS453T12075120	AS553T12075120	12.0	30	75	12
AS453T16100160	AS553T16100160	16.0	45	100	16
AS453T20100200	AS553T20100200	20.0	45	100	20
AS453T25100250	AS553T25100250	25.0	45	100	25

Unit:mm

48 Aluminum Cutting Serie

Sharpmax 偉力刀具



2刃 45 度鋁用立銑刀

2 Flutes Square End Mill for Soft Metal-45°



產品編號 Item Code	刀徑 Diameter	刃長 Flute Length	全長 Overall Length	柄徑 Shank Diameter
AS452T06050010	1.0	3	50	6
AS452T06050020	2.0	6	50	6
AS452T06050030	3.0	9	50	6
AS452T06050040	4.0	12	50	6
AS452T06050050	5.0	15	50	6
AS452T06050060	6.0	18	50	6
AS452T08060080	8.0	24	60	8
AS452T10075100	10.0	30	75	10
AS452T12075120	12.0	30	75	12
AS452T16100160	16.0	45	100	16
AS452T20100200	20.0	45	100	20
AS452T25100250	25.0	45	100	25

Unit:mm



3刃鋁用立銑刀 [長刃型]

3 Flutes Square End Mill [Long Flute]



45° 產品編號 45° Helix Angle Item Code	55° 產品編號 55° Helix Angle Item Code	刀徑 Diameter	刃長 Flute Length	全長 Overall Length	柄徑 Shank Diameter
ASC453T06075030	ASC553T06075030	3.0	15	75	6
ASC453T06075040	ASC553T06075040	4.0	20	75	6
ASC453T06075050	ASC553T06075050	5.0	25	75	6
ASC453T06075060	ASC553T06075060	6.0	30	75	6
ASC453T08100080	ASC553T08100080	8.0	40	100	8
ASC453T10100100	ASC553T10100100	10.0	45	100	10
ASC453T12100120	ASC553T12100120	12.0	50	100	12
ASC453T16150160	ASC553T16150160	16.0	80	150	16
ASC453T20150200	ASC553T20150200	20.0	80	150	20

Unit:mm



3 刃鋁用粗銑刀

3 Flutes Roughing End Mill for Soft Metal



產品編號 Item Code	刀徑 Diameter	刃長 Flute Length	全長 Overall Length	柄徑 Shank Diameter
AR3T06050040	4.0	12	50	6
AR3T06050050	5.0	15	50	6
AR3T06050060	6.0	18	50	6
AR3T08060080	8.0	24	60	8
AR3T10075100	10.0	30	75	10
AR3T12075120	12.0	30	75	12
AR3T16100160	16.0	45	100	16
AR3T20100200	20.0	45	100	20
AR3T25100250	25.0	45	100	25

Unit:mm

50 Aluminum Cutting Series

Sharpmax 偉力刀具



圓溝型 3 刃鋁用立銑刀

3 Flutes Heavy Cutting for Soft Metal



產品編號	刀徑	刃長	全長	柄徑
Item Code	Diameter	Flute Length	Overall Length	Shank Diameter
ASH3T06050040	4.0	12	50	6
ASH3T06050050	5.0	15	50	6
ASH3T06050060	6.0	18	50	6
ASH3T08060080	8.0	24	60	8
ASH3T10075100	10.0	30	75	10
ASH3T12075120	12.0	30	75	12
ASH3T16100160	16.0	45	100	16
ASH3T20100200	20.0	45	100	20
ASH3T25100250	25.0	45	100	25

Unit:mm



2 刃定位鑽頭
2 Flutes NC Spot Drill



90°產品編號	120°產品編號	刀徑	刃長	全長	柄徑
90° Item Code	120° Item Code	Diameter	Flute Length	Overall Length	Shank Diameter
ACP9003050030	ACP12003050030	3.0	6	50	3
ACP9004050040	ACP12004050040	4.0	8	50	4
ACP9004075040	ACP12004075040	4.0	8	75	4
ACP9006050060	ACP12006050060	6.0	12	50	6
ACP9006075060	ACP12006075060	6.0	12	75	6
ACP9008060080	ACP12008060080	8.0	16	60	8
ACP9008100080	ACP12008100080	8.0	16	100	8
ACP9010075100	ACP12010075100	10.0	20	75	10
ACP9010100100	ACP12010100100	10.0	20	100	10
ACP9010150100	ACP12010150100	10.0	20	150	10
ACP9012075120	ACP12012075120	12.0	24	75	12
ACP9012100120	ACP12012100120	12.0	24	100	12
ACP9012150120	ACP12012150120	12.0	24	150	12
ACP9016100160	ACP12016100160	16.0	30	100	16
ACP9016150160	ACP12016150160	16.0	30	150	16
ACP9020100200	ACP12020100200	20.0	30	100	20
ACP9020150200	ACP12020150200	20.0	30	150	20

Unit:mm

切削條件注意事項：

- 請將產品目錄中所記載基準切削條件表內的參數作為新加工工作開始時的大致標準。
- 因加工件和加工設備的關係出現震動和異常聲響時，請根據情況變更切削條件。
- 您使用加工設備的最高轉速未達到基準切削條件時，請以其最高轉速進行加工。請將進給速度也以相同比例調低。

Attention on using the milling condition tables

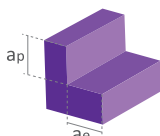
- Utilize the standard milling condition shown in the catalogs just as the general guide, when starting operation.
- Adjust milling condition when unusual vibration, different sound occur by cutting.
- When using low speed machines, use the maximum speed and adjust the feed rate.

重切削立銑刀

Heavy Cutting End Mill

產品規格表 **P11** specification page

側面加工 Side Milling

被切削材料 Work Material	結構鋼、碳素鋼 SS, SC Structural Steels, Carbon Steels (150~250HB)		鑄鐵 FC, FCD Cast Irons		合金鋼 SCM 預硬化鋼 NAK, HPM Alloy Steels Pre-Hardened Steels (25~35HRC)		淬火鋼 Hardened Steels (40~50HRC)		不銹鋼 Stainless Steels (SUS304, 316)		耐熱合金 鈦合金 Nickel Alloys Titanium Alloys (20~45HRC)		
	外徑 Dia. of Mill (mm)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)
6	4800	800	5300	890	4200	510	2700	290	3200	230	1600	110	
8	3600	800	4000	890	3200	510	2000	290	2400	230	1200	110	
10	2800	800	3200	890	2500	510	1600	290	1900	230	950	110	
12	2400	800	2700	890	2100	510	1300	290	1600	230	800	110	
16	1800	740	2000	830	1600	460	1000	250	1200	190	600	100	
20	1400	700	1600	780	1300	410	800	220	950	150	480	80	
側面加工	ap	1.5D				1.0D		1.5D		1.0D			
	ae	0.3D				0.2D		0.2D		0.1D			
*1 側面加工	ap	1.0D				0.6D		1.0D		0.6D			
	ae	0.05D				0.03D		0.01D		0.02D		0.01D	
側面加工 Side Milling 													

產品規格表 **P11** specification page

槽加工 Grooving

被切削材料 Work Material	結構鋼、碳素鋼 SS, SC Structural Steels, Carbon Steels (150~250HB)		鑄鐵 FC, FCD Cast Irons		合金鋼 SCM 預硬化鋼 NAK, HPM Alloy Steels Pre-Hardened Steels (25~35HRC)		淬火鋼 Hardened Steels (40~50HRC)		不銹鋼 Stainless Steels (SUS304, 316)		耐熱合金 鈦合金 Nickel Alloys Titanium Alloys (20~45HRC)		
	外徑 Dia. of Mill (mm)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)
6	3700	620	4200	710	3200	380	1900	200	2700	190	1100	80	
8	2800	620	3200	710	2400	380	1400	200	2000	190	800	80	
10	2200	620	2600	710	1900	380	1100	200	1600	190	650	80	
12	1900	620	2100	710	1600	380	900	200	1300	190	550	80	
16	1400	580	1600	660	1200	340	700	180	1000	160	400	60	
20	1100	540	1300	620	950	300	550	160	800	130	320	50	
加工槽	ap	0.7D				0.2D		0.3D		0.2D			
槽加工 Grooving 													

切削條件表 \ Milling Condition

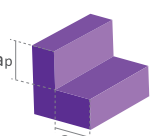
標準型立銑刀4刃 4 Flutes Square End Mill 圓鼻立銑刀 4 Flutes Corner Radius End Mill

產品規格表 **P7** specification page

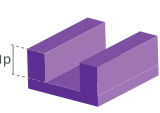
產品規格表 **P16** specification page

被切削材料 Work Material		結構鋼、碳素鋼、鑄鐵 SS, SC, FC Structural Steels, Carbon Steels, Cast Irons (150~250HB)		合金鋼 SCM 預硬化鋼 NAK, HPM Alloy Steels Pre-Hardened Steels (25~35HRC)		調質鋼 淬火鋼 Hardened Steels (40~50HRC)		不銹鋼 Stainless Steels (SUS304, 316)		耐熱合金 鈦合金 Nickel Alloys Titanium Alloys (20~45HRC)	
切削條件 Milling Condition		轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)
外徑 Dia. of Mill (mm)											
2		9000	720	6000	430	4000	320	5500	320	2600	120
4		6600	800	4500	450	3000	380	4000	320	2000	120
6		4800	960	3000	480	2500	380	3000	480	1200	120
8		3600	1000	2200	610	2000	400	2000	520	1000	140
10		2800	1000	1800	610	1500	400	1700	550	800	160
12		2400	950	1500	550	1200	380	1500	500	700	140
14		2200	880	1300	490	1000	360	1200	430	600	130
16		1800	650	1100	420	800	300	1000	360	500	120
18		1600	580	1000	360	750	270	900	340	450	110
20		1400	500	900	330	700	250	820	300	400	100
側面加工 Side Milling	ap	1.5D									
	ae	0.1D				0.05D		0.1D		0.05D	
槽加工 Grooving	ap	1D				0.2D		0.3D		0.2D	

側面加工
Side Milling



槽加工
Grooving

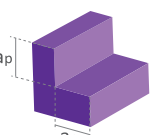


長刃型立銑刀4刃 4 Flutes Long Flute Square End Mill

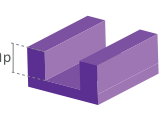
產品規格表 **P10** specification page

被切削材料 Work Material		結構鋼、碳素鋼、鑄鐵 SS, SC, FC Structural Steels, Carbon Steels, Cast Irons (150~250HB)		合金鋼 SCM 預硬化鋼 NAK, HPM Alloy Steels Pre-Hardened Steels (25~35HRC)		調質鋼 淬火鋼 Hardened Steels (40~50HRC)		不銹鋼 Stainless Steels (SUS304, 316)		耐熱合金 鈦合金 Nickel Alloys Titanium Alloys (20~45HRC)	
切削條件 Milling Condition		轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)
外徑 Dia. of Mill (mm)											
2		9000	570	6000	340	4000	250	5500	250	2600	95
4		6600	640	4500	360	3000	300	4000	250	2000	95
6		4800	770	3000	380	2500	300	3000	380	1200	95
8		3600	800	2200	480	2000	320	2000	420	1000	110
10		2800	800	1800	480	1500	320	1700	440	800	130
12		2400	760	1500	440	1200	300	1500	400	700	110
14		2200	700	1300	390	1000	290	1200	340	600	100
16		1800	520	1100	330	800	240	1000	290	500	95
20		1400	400	900	260	700	200	820	240	400	80
側面加工 Side Milling	ap	1.5D									
	ae	0.1D				0.05D		0.1D		0.05D	
槽加工 Grooving	ap	1D				0.2D		0.3D		0.2D	

側面加工
Side Milling



槽加工
Grooving



54 Milling Condition

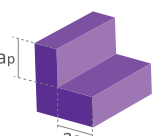
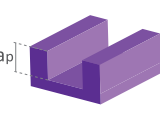
Sharpmax 偉力刀具

長柄型立銑刀 Long Shank Square End Mill

長柄型圓鼻立銑刀4刃 4 Flutes Long Shank Corner Radius End Mill

產品規格表 **P9** specification page

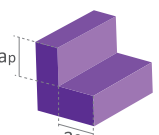
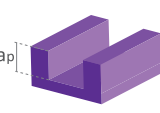
產品規格表 **P17** specification page

被切削材料 Work Material	結構鋼、碳素鋼、鑄鐵 SS, SC, FC Structural Steels, Carbon Steels, Cast Irons (150~250HB)		合金鋼 SCM 預硬化鋼 NAK, HPM Alloy Steels Pre-Hardened Steels (25~35HRC)		調質鋼 淬火鋼 Hardened Steels (40~50HRC)		不銹鋼 Stainless Steels (SUS304, 316)		耐熱合金 鈦合金 Nickel Alloys Titanium Alloys (20~45HRC)		
	切削條件 Milling Condition	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)
外徑 Dia. of Mill (mm)											
3		8500	520	5500	300	3800	260	5000	220	2500	80
4		6600	560	4500	320	3000	270	4000	220	2000	80
6		4800	670	3000	340	2500	270	3000	340	1200	80
8		3600	700	2200	430	2000	280	2000	360	1000	100
10		2800	700	1800	430	1500	280	1700	390	800	110
12		2400	670	1500	390	1200	270	1500	350	700	100
16		1800	460	1100	290	800	210	1000	250	500	80
20		1400	350	900	230	700	180	820	210	400	70
側面加工	ap	1.2D									
	ae	0.1D		0.05D		0.1D		0.05D			
槽加工	ap	0.5D		0.1D		0.2D		0.1D			
側面加工 Side Milling			槽加工 Grooving								

標準型立銑刀3刃

3 Flutes Square End Mill

產品規格表 **P8** specification page

被切削材料 Work Material	結構鋼、碳素鋼、鑄鐵 SS, SC, FC Structural Steels, Carbon Steels, Cast Irons (150~250HB)		合金鋼 SCM 預硬化鋼 NAK, HPM Alloy Steels Pre-Hardened Steels (25~35HRC)		調質鋼 淬火鋼 Hardened Steels (40~50HRC)		不銹鋼 Stainless Steels (SUS304, 316)		耐熱合金 鈦合金 Nickel Alloys Titanium Alloys (20~45HRC)		
	切削條件 Milling Condition	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)
外徑 Dia. of Mill (mm)											
2		9000	540	6000	320	4000	240	5500	240	2600	90
4		6600	600	4500	340	3000	280	4000	240	2000	90
6		4800	720	3000	360	2500	280	3000	360	1200	90
8		3600	750	2200	460	2000	300	2000	390	1000	100
10		2800	750	1800	460	1500	300	1700	410	800	120
12		2400	710	1500	410	1200	280	1500	380	700	100
14		2200	660	1300	370	1000	270	1200	320	600	95
16		1800	490	1100	320	800	230	1000	270	500	90
側面加工	ap	1.5D									
	ae	0.1D		0.05D		0.1D		0.05D			
槽加工	ap	1D		0.2D		0.3D		0.2D			
側面加工 Side Milling			槽加工 Grooving								

切削條件表 \ Milling Condition

標準型立銑刀3刃

3 Flutes Square End Mill

鑽削 Slotting

產品規格表 **P8** specification page

被切削材料 Work Material 切削條件 Milling Condition	結構鋼、碳素鋼、鑄鐵 SS, SC, FC Structural Steels, Carbon Steels, Cast Irons (150~250HB)		合金鋼 SCM 預硬化鋼 NAK, HPM Alloy Steels Pre-Hardened Steels (25~35HRC)		調質鋼 淬火鋼 Hardened Steels (40~50HRC)		不銹鋼 Stainless Steels (SUS304, 316)		耐熱合金 鈦合金 Nickel Alloys Titanium Alloys (20~45HRC)	
	外徑 Dia. of Mill (mm)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)
2	9000	150	6000	100	4000	60	5500	60	2600	20
4	6600	250	4500	170	3000	80	4000	110	2000	40
6	4800	300	3000	200	2500	110	3000	120	1200	40
8	3600	300	2200	200	2000	120	2000	120	1000	50
10	2800	300	1800	200	1500	120	1700	130	800	50
12	2400	300	1500	200	1200	120	1500	130	700	50
14	2200	350	1300	150	1000	80	1200	100	600	40
16	1800	200	1100	120	800	60	1000	80	500	30

球型銑刀2刃

2 Flutes Ball Nose End Mill

通用條件 Conventional Condition

產品規格表 **P27** specification page

被切削材料 Work Material 切削條件 Milling Condition	結構鋼、碳素鋼、鑄鐵 SS, SC, FC Carbon Steels, Cast Irons (150~250HB)		合金鋼、預硬化鋼 Alloy Steels Pre-Hardened Steels (25~35HRC)		調質鋼 淬火鋼 Hardened Steels (35~45HRC)		淬火鋼 Hardened Steels (45~55HRC)		不銹鋼 Stainless Steels (SUS304, 316)		耐熱合金 鈦合金 Nickel Alloys Titanium Alloys	
	球半徑 Ball Radius (mm)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)
R1	19100	770	12800	370	10200	270	8900	190	8900	210	6400	120
R2	10800	1100	7200	550	5700	400	5000	280	5000	310	3600	180
R3	7700	1300	5200	660	4100	480	3600	330	3600	380	2600	210
R4	6000	1400	4000	700	3200	510	2800	360	2800	400	2000	230
R5	4800	1400	3200	700	2600	520	2300	370	2300	410	1600	230
R6	4000	1400	2700	710	2200	530	1900	370	1900	410	1400	240
切入量 Depth of cut	ap	0.1D		0.05D		0.1D		0.05D				
	Pf	0.2D		0.1D		0.2D		0.1D				

The diagram shows a ball nose end mill with a cutting edge. The axial depth of cut is labeled as 'ap' and the radial depth of cut is labeled as 'Pf'.

56 | Milling Condition

Sharpmax 偉力刀具

球型銑刀2刃

2 Flutes Ball Nose End Mill

產品規格表 **P27**
specification page

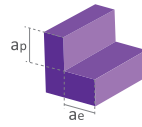
高速條件 High speed Condition

被切削材料 Work Material 切削條件 Milling Condition		結構鋼、碳素鋼、鑄鐵 SS, SC, FC Structural Steels, Carbon Steels, Cast Irons (150~250HB)		合金鋼 SCM 預硬化鋼 NAK, HPM Alloy Steels Pre-Hardened Steels (25~35HRC)		調質鋼 淬火鋼 Hardened Steels (35~45HRC)		淬火鋼 Hardened Steels (45~55HRC)		不銹鋼 Stainless Steels (SUS304, 316)	
		球半徑 Ball Radius (mm)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)
R1		51000	2100	38900	1300	35700	960	23700	640	35700	960
R2		25500	2700	19900	1700	17900	1300	11900	830	17900	1300
R3		17000	3000	13300	1900	11900	1400	7900	920	11900	1400
R4		12800	3100	10000	2000	9000	1500	6000	960	9000	1500
R5		10200	3100	8000	2000	7200	1500	4800	960	7200	1500
R6		8500	3100	6700	2000	6000	1500	4000	960	6000	1500
切入量 Depth of cut	ap	0.05D						0.02D		0.05D	
	Pf	0.1D						0.05D		0.1D	

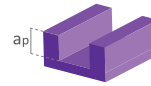
長頸短刃型立銑刀4刃

4 Flutes Long Neck Square End Mill

側面加工 Side Milling



槽加工 Grooving



產品規格表 **P26** specification page

被切削材料 Work Material		碳素鋼、合金鋼 Carbon Steels, Alloy Steels (150~250HB)					不銹鋼、模具鋼 Stainless Steels, Mold Steels (25~35HRC)				
切削條件 Milling Condition		轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	最大切入量 Depth of cut mm			轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	最大切入量 Depth of cut mm		
外徑 Dia. of Mill (mm)	頸下長度 L1 (mm)			ap	ae	H			ap	ae	H
1	6	32000	1920	0.5	0.06	0.04	27000	1340	0.1	0.05	0.04
1	8	32000	1920	0.5	0.05	0.04	27000	1340	0.1	0.05	0.04
1	10	26000	1560	0.5	0.04	0.03	22000	1090	0.1	0.04	0.03
1	12	26000	1560	0.5	0.03	0.03	22000	1090	0.1	0.03	0.03
1.5	8	21000	1700	0.75	0.1	0.06	18000	1190	0.15	0.09	0.05
1.5	10	21000	1700	0.75	0.08	0.06	18000	1190	0.15	0.07	0.05
1.5	12	21000	1700	0.75	0.07	0.06	18000	1190	0.15	0.06	0.05
1.5	16	17000	1380	0.75	0.04	0.05	14000	970	0.15	0.04	0.04
2	8	16000	1680	1	0.12	0.14	14000	1180	0.2	0.11	0.13
2	10	16000	1680	1	0.11	0.14	14000	1180	0.2	0.1	0.13
2	12	16000	1680	1	0.1	0.08	14000	1180	0.2	0.09	0.07
2	16	16000	1680	1	0.08	0.08	14000	1180	0.2	0.07	0.07
2.5	10	13000	1950	1.25	0.12	0.18	11000	1370	0.25	0.11	0.16
2.5	12	13000	1950	1.25	0.1	0.18	11000	1370	0.25	0.09	0.16
2.5	16	13000	1950	1.25	0.06	0.1	11000	1370	0.25	0.05	0.09
2.5	20	13000	1950	1.25	0.04	0.1	11000	1370	0.25	0.04	0.09

長頸短刃型立銑刀4刃

4 Flutes Long Neck Square End Mill

產品規格表 **P26** specification page

被切削材料 Work Material		預硬化鋼 Pre-hardened Steels (35~45HRC)					淬火鋼 Hardened Steels (45~55HRC)				
切削條件 Milling Condition		轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	最大切入量 Depth of cut mm			轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	最大切入量 Depth of cut mm		
外徑 Dia. of Mill (mm)	頸下長度 L1 (mm)			ap	ae	H			ap	ae	H
1	6	22000	960	0.1	0.04	0.03	11000	450	0.1	0.03	0.02
1	8	22000	960	0.1	0.04	0.03	11000	450	0.1	0.03	0.02
1	10	18000	780	0.1	0.03	0.02	9000	370	0.1	0.02	0.015
1	12	18000	780	0.1	0.02	0.02	9000	370	0.1	0.015	0.015
1.5	8	15000	850	0.15	0.07	0.04	7000	450	0.15	0.05	0.03
1.5	10	15000	850	0.15	0.06	0.04	7000	450	0.15	0.04	0.03
1.5	12	15000	850	0.15	0.05	0.04	7000	450	0.15	0.04	0.03
1.5	16	12000	690	0.15	0.03	0.03	6000	390	0.15	0.02	0.02
2	8	11000	840	0.2	0.08	0.1	6000	540	0.2	0.06	0.07
2	10	11000	840	0.2	0.08	0.1	6000	540	0.2	0.06	0.07
2	12	11000	840	0.2	0.07	0.06	6000	540	0.2	0.05	0.04
2	16	11000	840	0.2	0.05	0.06	6000	540	0.2	0.04	0.04
2.5	10	9000	980	0.25	0.08	0.12	5000	600	0.25	0.06	0.09
2.5	12	9000	980	0.25	0.07	0.12	5000	600	0.25	0.05	0.09
2.5	16	9000	980	0.25	0.04	0.07	5000	600	0.25	0.03	0.05
2.5	20	9000	980	0.25	0.03	0.07	5000	600	0.25	0.02	0.05

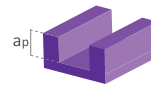
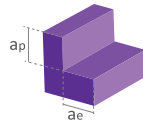
58 | Milling Condition

Sharpmax 偉力刀具

長頸短刃型立銑刀2刃 2 Flutes Long Neck Square End Mill

側面加工 Side Milling

槽加工 Grooving



產品規格表 **P26** specification page

被切削材料 Work Material		碳素鋼、合金鋼 Carbon Steels, Alloy Steels (150~250HB)					不銹鋼、模具鋼 Stainless Steels, Mold Steels (25~35HRC)				
切削條件 Milling Condition		轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	最大切入量 Depth of cut mm			轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	最大切入量 Depth of cut mm		
外徑 Dia. of Mill (mm)	有效長度 Effective length L1 (mm)			ap	ae	H			ap	ae	H
1	6	32000	1280	0.5	0.06	0.04	27000	900	0.1	0.05	0.04
1	8	32000	1280	0.5	0.05	0.04	27000	900	0.1	0.05	0.04
1	10	26000	1040	0.5	0.04	0.03	22000	730	0.1	0.04	0.03
1	12	26000	1040	0.5	0.03	0.03	22000	730	0.1	0.03	0.03
1	16	19000	760	0.5	0.03	0.02	16000	530	0.1	0.03	0.02

被切削材料 Work Material		預硬化鋼 Pre-hardened Steels (35~45HRC)					淬火鋼 Hardened Steels (45~55HRC)				
切削條件 Milling Condition		轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	最大切入量 Depth of cut mm			轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	最大切入量 Depth of cut mm		
外徑 Dia. of Mill (mm)	頸下長度 L1 (mm)			ap	ae	H			ap	ae	H
1	6	22000	640	0.1	0.04	0.03	11000	300	0.1	0.03	0.02
1	8	22000	640	0.1	0.04	0.03	11000	300	0.1	0.03	0.02
1	10	18000	520	0.1	0.03	0.02	9000	250	0.1	0.02	0.015
1	12	18000	520	0.1	0.02	0.02	9000	250	0.1	0.015	0.015

長頸短刃型立銑刀2刃 2 Flutes Long Neck Square End Mill

產品規格表 **P26** specification page

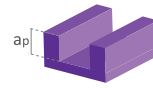
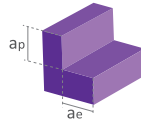
被切削材料 Work Material		碳素鋼、合金鋼 Carbon Steels, Alloy Steels (150~250HB)					不銹鋼、模具鋼 Stainless Steels, Mold Steels (25~35HRC)				
切削條件 Milling Condition		轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	最大切入量 Depth of cut mm			轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	最大切入量 Depth of cut mm		
外徑 Dia. of Mill (mm)	頸下長度 L1 (mm)			ap	ae	H			ap	ae	H
1.5	8	21000	1130	0.75	0.1	0.06	18000	790	0.15	0.09	0.05
1.5	10	21000	1130	0.75	0.08	0.06	18000	790	0.15	0.07	0.05
1.5	12	21000	1130	0.75	0.07	0.06	18000	790	0.15	0.06	0.05
1.5	14	17000	920	0.75	0.05	0.05	14000	640	0.15	0.05	0.04
1.5	16	17000	920	0.75	0.04	0.05	14000	640	0.15	0.04	0.04
2	8	16000	1120	1	0.12	0.14	14000	780	0.2	0.11	0.13
2	10	16000	1120	1	0.11	0.14	14000	780	0.2	0.1	0.13
2	12	16000	1120	1	0.1	0.08	14000	780	0.2	0.09	0.07
2	16	16000	1120	1	0.08	0.08	14000	780	0.2	0.07	0.07
2	20	12000	840	1	0.05	0.06	10000	590	0.2	0.05	0.05
2.5	10	13000	1300	1.25	0.12	0.18	11000	910	0.25	0.11	0.16
2.5	12	13000	1300	1.25	0.1	0.18	11000	910	0.25	0.09	0.16
2.5	16	13000	1300	1.25	0.06	0.1	11000	910	0.25	0.05	0.09
2.5	20	13000	1300	1.25	0.04	0.1	11000	910	0.25	0.04	0.09
3	12	11000	1760	1.5	0.12	0.21	9000	1230	0.3	0.11	0.19
3	16	11000	1760	1.5	0.1	0.12	9000	1230	0.3	0.09	0.11
3	20	11000	1760	1.5	0.07	0.12	9000	1230	0.3	0.06	0.11
3	25	8000	1260	1.5	0.06	0.09	7000	900	0.3	0.05	0.08

切削條件表 / Milling Condition

長頸短刃型立銑刀2刃 2 Flutes Long Neck Square End Mill

側面加工 Side Milling

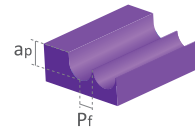
槽加工 Grooving



產品規格表 **P26** specification page

被切削材料 Work Material		預硬化鋼 Pre-hardened Steels (35~45HRC)					淬火鋼 Hardened Steels (45~55HRC)				
切削條件 Milling Condition		轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	最大切入量 Depth of cut mm			轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	最大切入量 Depth of cut mm		
外徑 Dia. of Mill (mm)	頸下長度 L (mm)			ap	ae	H			ap	ae	H
1.5	8	15000	570	0.15	0.07	0.04	7000	300	0.15	0.05	0.03
1.5	10	15000	570	0.15	0.06	0.04	7000	300	0.15	0.04	0.03
1.5	12	15000	570	0.15	0.05	0.04	7000	300	0.15	0.04	0.03
1.5	14	12000	460	0.15	0.04	0.03	6000	260	0.15	0.03	0.02
1.5	16	12000	460	0.15	0.03	0.03	6000	260	0.15	0.02	0.02
2	8	11000	560	0.2	0.08	0.1	6000	360	0.2	0.06	0.07
2	10	11000	560	0.2	0.08	0.1	6000	360	0.2	0.06	0.07
2	12	11000	560	0.2	0.07	0.06	6000	360	0.2	0.05	0.04
2	16	11000	560	0.2	0.05	0.06	6000	360	0.2	0.04	0.04
2	20	8000	420	0.2	0.04	0.04	5000	300	0.2	0.03	0.03
2.5	10	9000	650	0.25	0.08	0.12	5000	400	0.25	0.06	0.09
2.5	12	9000	650	0.25	0.07	0.12	5000	400	0.25	0.05	0.09
2.5	16	9000	650	0.25	0.04	0.07	5000	400	0.25	0.03	0.05
2.5	20	9000	650	0.25	0.03	0.07	5000	400	0.25	0.02	0.05
3	12	8000	880	0.3	0.08	0.15	4000	450	0.3	0.06	0.11
3	16	8000	880	0.3	0.07	0.08	4000	450	0.3	0.05	0.06
3	20	8000	880	0.3	0.05	0.08	4000	450	0.3	0.04	0.06

高硬度球型立銑刀2刃 2 Flutes Ball Nose End Mill



產品規格表 **P40** specification page

被切削材料 Work Material		預硬化鋼 Pre-Hardened Steels 模具鋼 Mold Steels (40~50HRC)		淬火鋼 Hardened Steels (50~55HRC)		淬火鋼 Hardened Steels (55~60HRC)		淬火鋼 Hardened Steels (60~65HRC)	
切削條件 Milling Condition		轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)	轉速 Rotation (min ⁻¹)	進給速度 Feed (mm/min)
球半徑 Ball Radius (mm)									
R0.5		50000	1360	50000	1360	50000	1250	41970	960
R1		38130	2070	38130	2070	27980	1400	20990	960
R1.25		30510	2070	30510	2070	22390	1400	16790	960
R1.5		25420	2070	25420	2070	18660	1400	13990	960
R2		19070	2070	19070	2070	13990	1400	10490	960
R2.5		15250	2070	15250	2070	11190	1400	8390	960
R3		12710	2070	12710	2070	9330	1400	7000	960
R4		9530	2070	9530	2070	7000	1400	5250	960
R5		7630	2070	7630	2070	5600	1400	4200	960
R6		6360	2070	6360	2070	4660	1400	3500	960
切入量 Depth of cut	ap	0.08D				0.05D			
	Pf	0.25D				0.15D			
D:立銑刀外徑 Dia. of Mill									
R:球半徑 Ball Radius									



波浪槽銑刀

Wave Edge End Mills

- 專為鈦合金與特殊材料所設計的粗加工刀具。
- 高效能的排屑與切削讓刀具產生最佳性能。
- 專屬PVD塗層專門延長刀具壽命。
- 每條刃波峰波谷在同一斷面上，相當於不等齒結構，切削平穩，避免週期性振動。
- Designed for high performance rough machining of Titanium and other exotic materials.
- Optimum performance with maximum chip load per tooth and efficient chip formation with higher volume of metal removal.
- Exclusive PVD coating for long life.
- Vibration Free.

SHARP MAX

偉力刀具 SHARP MAX TOOL



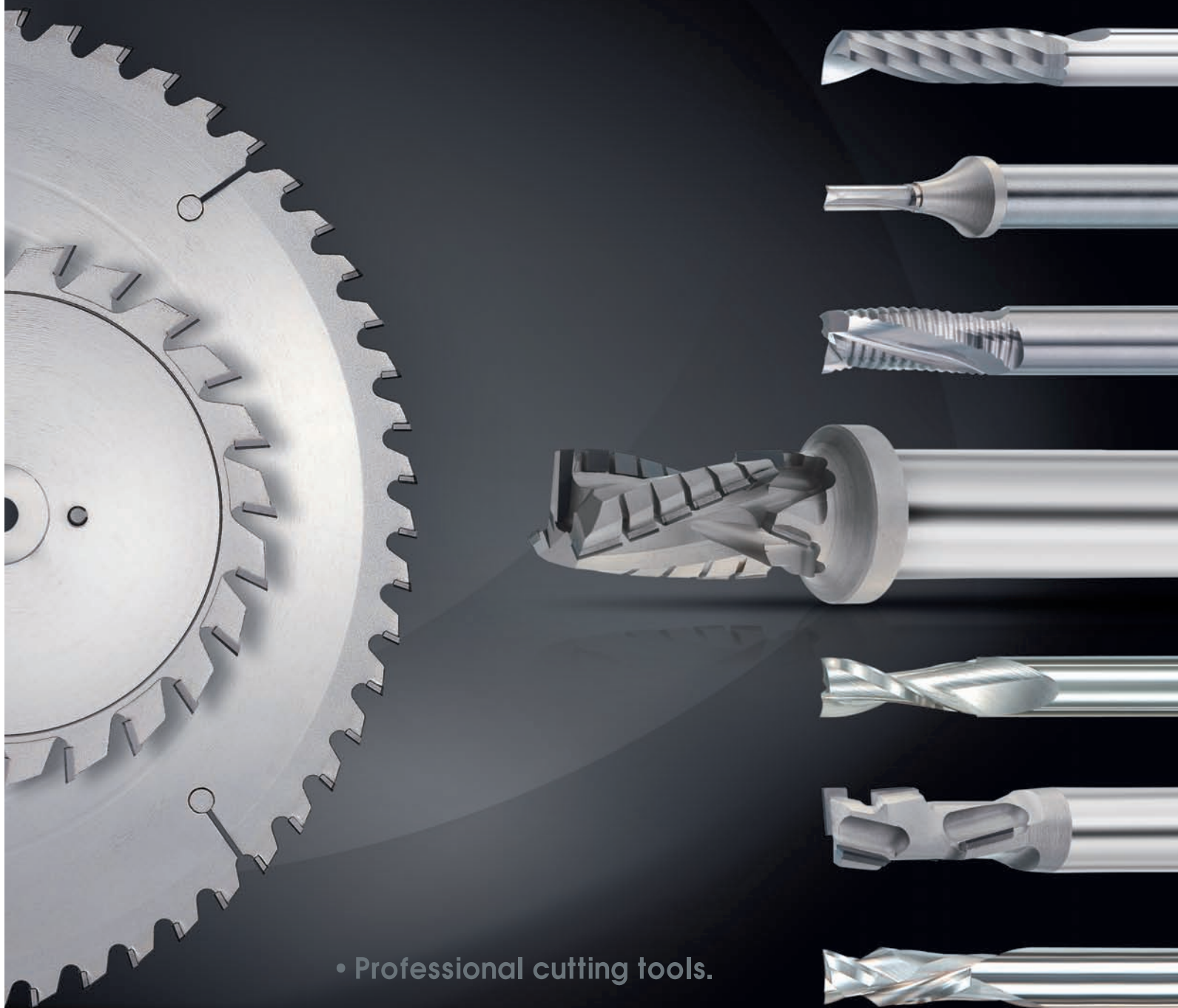
不等分圓溝平刀

End mill with unequal tooth spacing and variable leads

- 不等分割、不等距導程
連續變化外周刃的分割比例，有效的抑制了切削的週期性壓力與細微的振動。
- 優異的抗顫動效果，適用於多種難切削合金，包括SUS、鎳鐵合金、鈦合金等等。
- 高效能的降低顫動，適用高轉度與高進給加工。
- 專屬特殊塗層增加刀具耐磨性與穩定性。
- 優化了芯部厚度、排屑槽形狀和尺寸，增強刀具剛性和排屑能力。
- Periodic cutting stress is effectively suppressed by continuously changing outer teeth spacing, allowing for chattering control.
- Good anti-vibration performance compatible with wide range of milling for exotic alloys including SUS, inconel, and Titanium.
- Reduces chattering for high-speed and high-feed cutting.
- Ultra-smooth coating with significantly improved coating hardness and heat resistance improves tool life in heat resistive ally machining.
- The optimized web thickness and the shape and size of the flute provide tool rigidity and excellent chip evacuation.

SHARP MAX

偉力刀具 SHARP MAX TOOL



- Professional cutting tools.
- PCD Saw Blades and Tools.
- Solid carbide cutting tools.



SHARP MAX

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