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■ Roughing End Mill Series

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鎢鋼平刀系列

Square End Mill Series





鎢鋼平刀系列

Square End Mill Series

適用材料：

結構鋼、碳素鋼、鑄鐵、合金鋼、預硬化鋼、調質鋼、淬火鋼、不銹鋼、耐熱合金、鈦合金。

主要特性：

奈米微粒碳化鎢鋼母材韌性高，刀刃被覆 ALTIN (高鋁鈦) / TS 複合塗層，耐磨耗，適用於高速切削，能對常見加工材料直接進行粗加工到細加工，減少換刀次數，提高機床稼動率，節省製作時程。

Application:

Structural Steels, Carbon Steels, Cast Irons. Alloy Steels. Pre-hardened Steels, Hardened Steels, Stainless Steels, Nickel Alloys, Titanium Alloys.

Main Character:

Ultra Micro Grain Carbide that has high toughness, coated ALTIN / TS composite coating and wear-resistance. This series is specialized in milling at high speed and can carry on roughing get to finishing process directly for general work materials. Also, this series can reduce tools change times, improve machine flexible rate and shorten producing time.

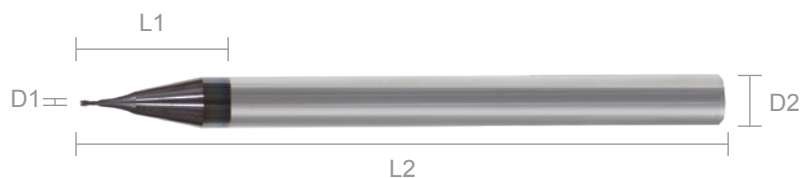


YJ2MQW / X

鎢鋼微小徑平刀 - 2 刃

Micro Diameter Square End Mills - 2 Flutes

Helix Angle 35°



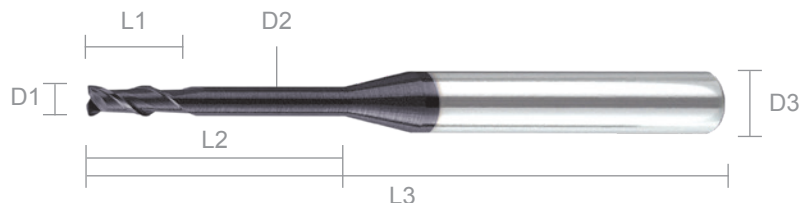
產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2MQW-020	0.2	0.4	3	50
YJ2MQW-030	0.3	0.6	3	50
YJ2MQW-040	0.4	0.8	3	50
YJ2MQW-050	0.5	1	3	50
YJ2MQW-060	0.6	1.2	3	50
YJ2MQW-070	0.7	1.4	3	50
YJ2MQW-080	0.8	1.6	3	50
YJ2MQW-090	0.9	1.8	3	50
YJ2MQX-020	0.2	0.4	4	50
YJ2MQX-030	0.3	0.6	4	50
YJ2MQX-040	0.4	0.8	4	50
YJ2MQX-050	0.5	1	4	50
YJ2MQX-060	0.6	1.2	4	50
YJ2MQX-070	0.7	1.4	4	50
YJ2MQX-080	0.8	1.6	4	50
YJ2MQX-090	0.9	1.8	4	50

YJ2QLN

鎢鋼長頸短刃平刀 - 2 刃

Long Neck Short Flute Square End Mills - 2 Flutes

Helix Angle 35°



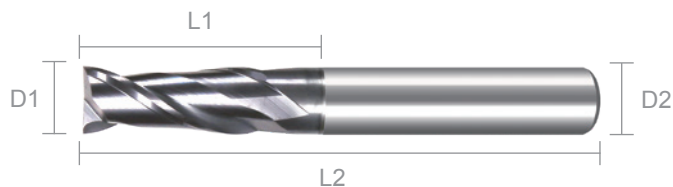
產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	有效長 Effective Length (L2)	頸徑 Neck Diameter (D2)	柄徑 Shank Diameter (D3)	全長 Overall Length (L3)
YJ2QLN-004-02	0.4	0.6	2	0.37	4	50
YJ2QLN-004-04	0.4	0.6	4	0.37	4	50
YJ2QLN-005-02	0.5	0.8	2	0.45	4	50
YJ2QLN-005-04	0.5	0.8	4	0.45	4	50
YJ2QLN-005-06	0.5	0.8	6	0.45	4	50
YJ2QLN-006-02	0.6	1	2	0.55	4	50
YJ2QLN-006-04	0.6	1	4	0.55	4	50
YJ2QLN-006-06	0.6	1	6	0.55	4	50
YJ2QLN-006-08	0.6	1	8	0.55	4	50
YJ2QLN-008-03	0.8	1.2	3	0.75	4	50
YJ2QLN-008-04	0.8	1.2	4	0.75	4	50
YJ2QLN-008-06	0.8	1.2	6	0.75	4	50
YJ2QLN-008-08	0.8	1.2	8	0.75	4	50
YJ2QLN-008-10	0.8	1.2	10	0.75	4	50
YJ2QLN-010-04	1	1.2	4	0.95	4	50
YJ2QLN-010-06	1	1.2	6	0.95	4	50
YJ2QLN-010-08	1	1.2	8	0.95	4	50
YJ2QLN-010-10	1	1.2	10	0.95	4	50
YJ2QLN-010-12	1	1.2	12	0.95	4	50
YJ2QLN-015-04	1.5	1.7	4	1.45	4	50
YJ2QLN-015-06	1.5	1.7	6	1.45	4	50
YJ2QLN-015-08	1.5	1.7	8	1.45	4	50
YJ2QLN-015-10	1.5	1.7	10	1.45	4	50
YJ2QLN-015-12	1.5	1.7	12	1.45	4	50
YJ2QLN-020-06	2	2.2	6	1.95	4	50
YJ2QLN-020-08	2	2.2	8	1.95	4	50
YJ2QLN-020-10	2	2.2	10	1.95	4	50
YJ2QLN-020-12	2	2.2	12	1.95	4	50
YJ2QLN-020-14	2	2.2	14	1.95	4	50
YJ2QLN-020-16	2	2.2	16	1.95	4	50
YJ2QLN-030-08	3	3.2	8	2.85	4	50
YJ2QLN-030-10	3	3.2	10	2.85	4	50
YJ2QLN-030-12	3	3.2	12	2.85	4	50
YJ2QLN-030-14	3	3.2	14	2.85	4	50
YJ2QLN-030-16	3	3.2	16	2.85	4	50
YJ2QLN-030-20	3	3.2	20	2.85	4	50
YJ2QLN-040-12	4	4.2	12	3.85	4	50
YJ2QLN-040-14	4	4.2	14	3.85	4	50
YJ2QLN-040-16	4	4.2	16	3.85	4	50
YJ2QLN-040-20	4	4.2	20	3.85	4	50
YJ2QLN-040-25	4	4.2	25	3.85	4	50

YJ2QEH

鎢鋼平刀 - 2 刃

Square End Mills - 2 Flutes

Helix Angle 35°



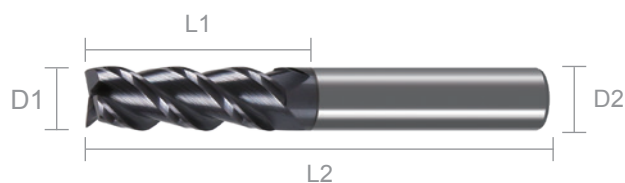
產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2QEH-010	1	3	4	50
YJ2QEH-015	1.5	4.5	4	50
YJ2QEH-020	2	6	4	50
YJ2QEH-025	2.5	7	4	50
YJ2QEH-030	3	8	4	50
YJ2QEH-035	3.5	10	4	50
YJ2QEH-040	4	11	4	50
YJ2QEH-045	4.5	13	6	50
YJ2QEH-050	5	15	6	50
YJ2QEH-055	5.5	15	6	50
YJ2QEH-060	6	15	6	50
YJ2QEH-065	6.5	17	8	60
YJ2QEH-070	7	20	8	60
YJ2QEH-075	7.5	20	8	60
YJ2QEH-080	8	20	8	60
YJ2QEH-085	8.5	25	10	75
YJ2QEH-090	9	30	10	75
YJ2QEH-095	9.5	30	10	75
YJ2QEH-100	10	30	10	75
YJ2QEH-105	10.5	30	12	75
YJ2QEH-110	11	30	12	75
YJ2QEH-115	11.5	30	12	75
YJ2QEH-120	12	30	12	75
YJ2QEH-130	13	40	16	100
YJ2QEH-140	14	40	16	100
YJ2QEH-150	15	40	16	100
YJ2QEH-160	16	45	16	100
YJ2QEH-170	17	45	20	100
YJ2QEH-180	18	45	20	100
YJ2QEH-190	19	45	20	100
YJ2QEH-200	20	45	20	100
YJ2QEH-220	22	45	25	100
YJ2QEH-250	25	45	25	100

YJ3QEF

鎢鋼平刀 - 3 刃

Square End Mills - 3 Flutes

Helix Angle 45°



產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ3QEF-010	1	3	4	50
YJ3QEF-015	1.5	4.5	4	50
YJ3QEF-020	2	6	4	50
YJ3QEF-025	2.5	7	4	50
YJ3QEF-030	3	8	4	50
YJ3QEF-035	3.5	10	4	50
YJ3QEF-040	4	11	4	50
YJ3QEF-045	4.5	13	6	50
YJ3QEF-050	5	15	6	50
YJ3QEF-055	5.5	15	6	50
YJ3QEF-060	6	15	6	50
YJ3QEF-065	6.5	17	8	60
YJ3QEF-070	7	20	8	60
YJ3QEF-075	7.5	20	8	60
YJ3QEF-080	8	20	8	60
YJ3QEF-085	8.5	25	10	75
YJ3QEF-090	9	30	10	75
YJ3QEF-095	9.5	30	10	75
YJ3QEF-100	10	30	10	75
YJ3QEF-105	10.5	30	12	75
YJ3QEF-110	11	30	12	75
YJ3QEF-115	11.5	30	12	75
YJ3QEF-120	12	30	12	75
YJ3QEF-130	13	40	16	100
YJ3QEF-140	14	40	16	100
YJ3QEF-150	15	40	16	100
YJ3QEF-160	16	45	16	100
YJ3QEF-170	17	45	20	100
YJ3QEF-180	18	45	20	100
YJ3QEF-190	19	45	20	100
YJ3QEF-200	20	45	20	100
YJ3QEF-220	22	45	25	100
YJ3QEF-225	25	45	25	100

YJ4QEH / F

鎢鋼平刀 - 4 刃

Square End Mills - 4 Flutes

Helix Angle 35° / Helix Angle 45°



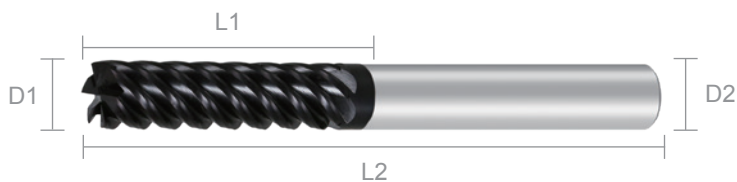
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35°	45°				
YJ4QEH-010	YJ4QEF-010	1	3	4	50
YJ4QEH-015	YJ4QEF-015	1.5	4.5	4	50
YJ4QEH-020	YJ4QEF-020	2	6	4	50
YJ4QEH-025	YJ4QEF-025	2.5	7	4	50
YJ4QEH-030	YJ4QEF-030	3	8	4	50
YJ4QEH-035	YJ4QEF-035	3.5	10	4	50
YJ4QEH-040	YJ4QEF-040	4	11	4	50
YJ4QEH-045	YJ4QEF-045	4.5	13	6	50
YJ4QEH-050	YJ4QEF-050	5	15	6	50
YJ4QEH-055	YJ4QEF-055	5.5	15	6	50
YJ4QEH-060	YJ4QEF-060	6	15	6	50
YJ4QEH-065	YJ4QEF-065	6.5	17	8	60
YJ4QEH-070	YJ4QEF-070	7	20	8	60
YJ4QEH-075	YJ4QEF-075	7.5	20	8	60
YJ4QEH-080	YJ4QEF-080	8	20	8	60
YJ4QEH-085	YJ4QEF-085	8.5	25	10	75
YJ4QEH-090	YJ4QEF-090	9	30	10	75
YJ4QEH-095	YJ4QEF-095	9.5	30	10	75
YJ4QEH-100	YJ4QEF-100	10	30	10	75
YJ4QEH-105	YJ4QEF-105	10.5	30	12	75
YJ4QEH-110	YJ4QEF-110	11	30	12	75
YJ4QEH-115	YJ4QEF-115	11.5	30	12	75
YJ4QEH-120	YJ4QEF-120	12	30	12	75
YJ4QEH-130	YJ4QEF-130	13	40	16	100
YJ4QEH-140	YJ4QEF-140	14	40	16	100
YJ4QEH-150	YJ4QEF-150	15	40	16	100
YJ4QEH-160	YJ4QEF-160	16	45	16	100
YJ4QEH-170	YJ4QEF-170	17	45	20	100
YJ4QEH-180	YJ4QEF-180	18	45	20	100
YJ4QEH-190	YJ4QEF-190	19	45	20	100
YJ4QEH-200	YJ4QEF-200	20	45	20	100
YJ4QEH-220	YJ4QEF-220	22	45	25	100
YJ4QEH-250	YJ4QEF-250	25	45	25	100

YJ6QEF

鎢鋼平刀 - 6 刃

Square End Mills - 6 Flutes

Helix Angle 45°



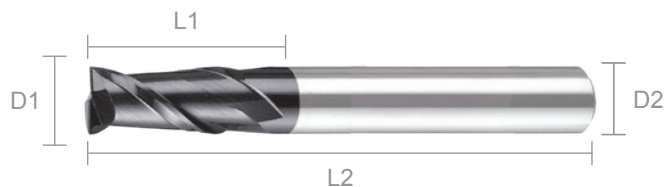
產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ6QEF-040	4	11	6	50
YJ6QEF-050	5	13	6	50
YJ6QEF-060	6	15	6	50
YJ6QEF-080	8	20	8	60
YJ6QEF-100	10	25	10	75
YJ6QEF-120	12	30	12	75
YJ6QEF-160	16	40	16	100
YJ6QEF-200	20	40	20	100
YJ6QEF-250	25	45	25	100

YJ2QFW / X / Y

鎢鋼長刃型平刀 - 2 刃

Long Flute Square End Mills - 2 Flutes

Helix Angle 35°



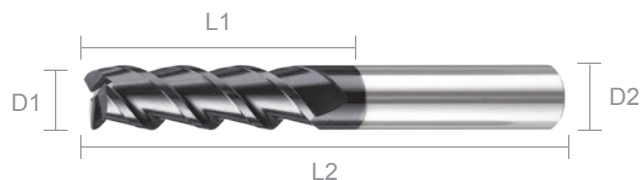
產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2QFW-010	1	5	4	75
YJ2QFW-015	1.5	6	4	75
YJ2QFW-020	2	9	4	75
YJ2QFW-025	2.5	10	4	75
YJ2QFW-030	3	15	4	75
YJ2QFW-035	3.5	15	4	75
YJ2QFW-040	4	20	4	75
YJ2QFW-045	4.5	20	6	75
YJ2QFW-050	5	25	6	75
YJ2QFW-055	5.5	25	6	75
YJ2QFW-060	6	25	6	75
YJ2QFW-065	6.5	25	8	75
YJ2QFW-070	7	25	8	75
YJ2QFW-075	7.5	25	8	75
YJ2QFW-080	8	30	8	75
YJ2QFX-030	3	15	6	100
YJ2QFX-040	4	25	6	100
YJ2QFX-050	5	30	6	100
YJ2QFX-060	6	30	6	100
YJ2QFX-070	7	35	8	100
YJ2QFX-080	8	35	8	100
YJ2QFX-090	9	40	10	100
YJ2QFX-100	10	40	10	100
YJ2QFX-110	11	45	12	100
YJ2QFX-120	12	45	12	100
YJ2QFY-080	8	40	8	150
YJ2QFY-100	10	50	10	150
YJ2QFY-120	12	50	12	150
YJ2QFY-160	16	70	16	150
YJ2QFY-180	18	80	20	150
YJ2QFY-200	20	80	20	150

YJ3QFW / X / Y

鎢鋼長刃型平刀 - 3 刃

Long Flute Square End Mills - 3 Flutes

Helix Angle 35°



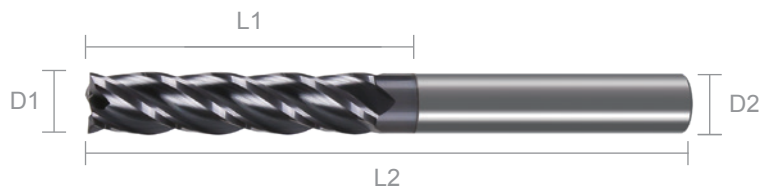
產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ3QFW-010	1	5	4	75
YJ3QFW-015	1.5	6	4	75
YJ3QFW-020	2	9	4	75
YJ3QFW-025	2.5	10	4	75
YJ3QFW-030	3	15	4	75
YJ3QFW-035	3.5	15	4	75
YJ3QFW-040	4	20	4	75
YJ3QFW-045	4.5	20	6	75
YJ3QFW-050	5	25	6	75
YJ3QFW-055	5.5	25	6	75
YJ3QFW-060	6	25	6	75
YJ3QFW-065	6.5	25	8	75
YJ3QFW-070	7	25	8	75
YJ3QFW-075	7.5	25	8	75
YJ3QFW-080	8	30	8	75
YJ3QFX-030	3	15	6	100
YJ3QFX-040	4	25	6	100
YJ3QFX-050	5	30	6	100
YJ3QFX-060	6	30	6	100
YJ3QFX-070	7	35	8	100
YJ3QFX-080	8	35	8	100
YJ3QFX-090	9	40	10	100
YJ3QFX-100	10	40	10	100
YJ3QFX-110	11	45	12	100
YJ3QFX-120	12	45	12	100
YJ3QFY-080	8	40	8	150
YJ3QFY-100	10	50	10	150
YJ3QFY-120	12	50	12	150
YJ3QFY-160	16	70	16	150
YJ3QFY-180	18	80	20	150
YJ3QFY-200	20	80	20	150

YJ4QFW / X / Y

鎢鋼長刃型平刀 - 4 刃

Long Flute Square End Mills - 4 Flutes

Helix Angle 35°



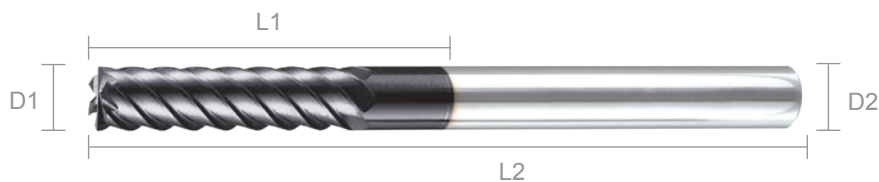
產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ4QFW-010	1	5	4	75
YJ4QFW-015	1.5	6	4	75
YJ4QFW-020	2	9	4	75
YJ4QFW-025	2.5	10	4	75
YJ4QFW-030	3	15	4	75
YJ4QFW-035	3.5	15	4	75
YJ4QFW-040	4	20	4	75
YJ4QFW-045	4.5	20	6	75
YJ4QFW-050	5	25	6	75
YJ4QFW-055	5.5	25	6	75
YJ4QFW-060	6	25	6	75
YJ4QFW-065	6.5	25	8	75
YJ4QFW-070	7	25	8	75
YJ4QFW-075	7.5	25	8	75
YJ4QFW-080	8	30	8	75
YJ4QFX-030	3	15	6	100
YJ4QFX-040	4	25	6	100
YJ4QFX-050	5	30	6	100
YJ4QFX-060	6	30	6	100
YJ4QFX-070	7	35	8	100
YJ4QFX-080	8	35	8	100
YJ4QFX-090	9	40	10	100
YJ4QFX-100	10	40	10	100
YJ4QFX-110	11	45	12	100
YJ4QFX-120	12	45	12	100
YJ4QFY-080	8	40	8	150
YJ4QFY-100	10	50	10	150
YJ4QFY-120	12	50	12	150
YJ4QFY-160	16	70	16	150
YJ4QFY-180	18	80	20	150
YJ4QFY-200	20	80	20	150

YJ6QFW / X / Y

鎢鋼長刃型平刀 - 6 刃

Long Flute Square End Mills - 6 Flutes

Helix Angle 45°



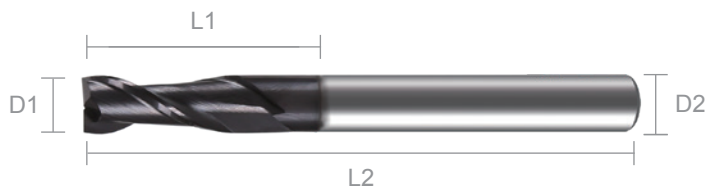
產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ6QFW-040	4	16	6	75
YJ6QFW-050	5	20	6	75
YJ6QFW-060	6	25	6	75
YJ6QFW-080	8	30	8	75
YJ6QFX-040	5	20	6	100
YJ6QFX-050	5	25	6	100
YJ6QFX-060	6	30	6	100
YJ6QFX-080	8	35	8	100
YJ6QFX-100	10	40	10	100
YJ6QFX-120	12	45	12	100
YJ6QFY-080	8	50	8	150
YJ6QFY-100	10	50	10	150
YJ6QFY-120	12	50	12	150
YJ6QFY-160	16	75	16	150
YJ6QFY-200	20	80	20	150
YJ6QFY-250	25	80	25	150

YJ2QSW / X / Y / Z

鎢鋼長柄型平刀 - 2 刃

Long Shank Square End Mills - 2 Flutes

Helix Angle 35°



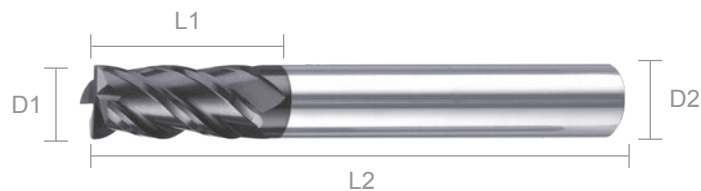
產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2QSW-010	1	3	4	75
YJ2QSW-015	1.5	4.5	4	75
YJ2QSW-020	2	6	4	75
YJ2QSW-025	2.5	7	4	75
YJ2QSW-030	3	8	4	75
YJ2QSW-035	3.5	10	4	75
YJ2QSW-040	4	11	4	75
YJ2QSW-045	4.5	13	6	75
YJ2QSW-050	5	13	6	75
YJ2QSW-055	5.5	13	6	75
YJ2QSW-060	6	15	6	75
YJ2QSW-065	6.5	17	8	75
YJ2QSW-070	7	17	8	75
YJ2QSW-075	7.5	17	8	75
YJ2QSW-080	8	20	8	75
YJ2QSW-090	9	23	10	100
YJ2QSW-100	10	30	10	100
YJ2QSW-110	11	28	12	100
YJ2QSW-120	12	30	12	100
YJ2QSY-080	8	20	8	150
YJ2QSY-100	10	30	10	150
YJ2QSY-120	12	30	12	150
YJ2QSY-160	16	40	16	150
YJ2QSY-180	18	40	20	150
YJ2QSY-200	20	40	20	150
YJ2QSZ-180	16	40	16	200
YJ2QSZ-200	20	40	20	200

YJ4QSW / X / Y / Z

鎢鋼長柄型平刀 - 4 刃

Long Shank Square End Mills - 4 Flutes

Helix Angle 35°



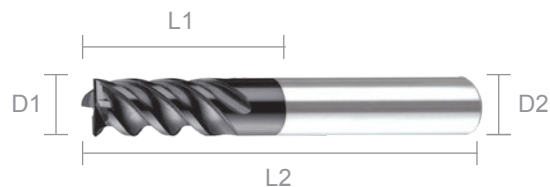
產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ4QSW-010	1	3	4	75
YJ4QSW-015	1.5	4.5	4	75
YJ4QSW-020	2	6	4	75
YJ4QSW-025	2.5	7	4	75
YJ4QSW-030	3	8	4	75
YJ4QSW-035	3.5	10	4	75
YJ4QSW-040	4	11	4	75
YJ4QSW-045	4.5	13	6	75
YJ4QSW-050	5	13	6	75
YJ4QSW-055	5.5	13	6	75
YJ4QSW-060	6	15	6	75
YJ4QSW-065	6.5	17	8	75
YJ4QSW-070	7	17	8	75
YJ4QSW-075	7.5	17	8	75
YJ4QSW-080	8	20	8	75
YJ4QSW-090	9	23	10	100
YJ4QSW-100	10	30	10	100
YJ4QSW-110	11	28	12	100
YJ4QSW-120	12	30	12	100
YJ4QSY-080	8	20	8	150
YJ4QSY-100	10	30	10	150
YJ4QSY-120	12	30	12	150
YJ4QSY-160	16	40	16	150
YJ4QSY-180	18	40	20	150
YJ4QSY-200	20	40	20	150
YJ4QSZ-180	16	40	16	200
YJ4QSZ-200	20	40	20	200

YJ4QHF

鎢鋼重切削平刀 - 4 刃

Heavy Duty Square End Mills - 4 Flutes

Helix Angle 45°



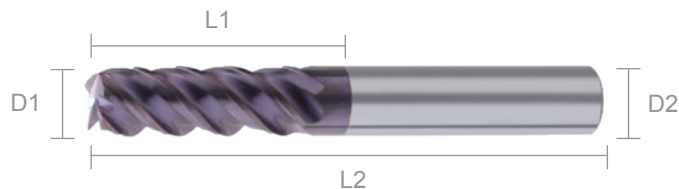
產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ4QHF-020	2	6	4	50
YJ4QHF-025	2.5	7	4	50
YJ4QHF-030	3	8	4	50
YJ4QHF-035	3.5	10	4	50
YJ4QHF-040	4	11	4	50
YJ4QHF-045	4.5	13	6	50
YJ4QHF-050	5	13	6	50
YJ4QHF-055	5.5	13	6	50
YJ4QHF-060	6	15	6	50
YJ4QHF-060L	6	18	6	50
YJ4QHF-065	6.5	17	8	60
YJ4QHF-070	7	17	8	60
YJ4QHF-075	7.5	17	8	60
YJ4QHF-080	8	20	8	60
YJ4QHF-080L	8	24	8	60
YJ4QHF-085	8.5	25	10	75
YJ4QHF-090	9	30	10	75
YJ4QHF-095	9.5	30	10	75
YJ4QHF-100	10	30	10	75
YJ4QHF-105	10.5	30	12	75
YJ4QHF-110	11	30	12	75
YJ4QHF-115	11.5	30	12	75
YJ4QHF-120	12	30	12	75
YJ4QHF-120L	12	36	12	75
YJ4QHF-130	13	40	16	100
YJ4QHF-140	14	40	16	100
YJ4QHF-150	15	40	16	100
YJ4QHF-160	16	45	16	100
YJ4QHF-170	17	45	20	100
YJ4QHF-180	18	45	20	100
YJ4QHF-190	19	45	20	100
YJ4QHF-200	20	45	20	100

YJ4QUF

鎢鋼不等分割平刀 - 4 刃

Unequal Flute Spacing &
Helix Square End Mills - 4 Flutes

Helix Angle 42 - 45°



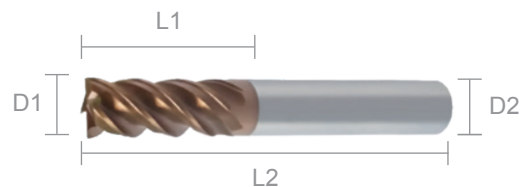
產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ4QUF-060	6	18	6	50
YJ4QUF-065	6.5	18	8	60
YJ4QUF-070	7	18	8	60
YJ4QUF-075	7.5	18	8	60
YJ4QUF-080	8	24	8	60
YJ4QUF-085	8.5	24	10	75
YJ4QUF-090	9	28	10	75
YJ4QUF-095	9.5	28	10	75
YJ4QUF-100	10	30	10	75
YJ4QUF-105	10.5	30	12	75
YJ4QUF-110	11	30	12	75
YJ4QUF-115	11.5	30	12	75
YJ4QUF-120	12	30	12	75
YJ4QUF-130	13	36	16	100
YJ4QUF-140	14	36	16	100
YJ4QUF-150	15	40	16	100
YJ4QUF-160	16	40	16	100
YJ4QUF-170	17	40	20	100
YJ4QUF-180	18	40	20	100
YJ4QUF-190	19	40	20	100
YJ4QUF-200	20	40	20	100

YJ4QUG

鎢鋼不等分割圓溝刀 - 4 刃

Heavy Duty Unequal Flute Spacing & Helix End Mills - 4 Flutes

Helix Angle 42 - 45°



產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ4QUG-060	6	18	6	50
YJ4QUG-065	6.5	18	8	60
YJ4QUG-070	7	18	8	60
YJ4QUG-075	7.5	18	8	60
YJ4QUG-080	8	24	8	60
YJ4QUG-085	8.5	24	10	75
YJ4QUG-090	9	28	10	75
YJ4QUG-095	9.5	28	10	75
YJ4QUG-100	10	30	10	75
YJ4QUG-105	10.5	30	12	75
YJ4QUG-110	11	30	12	75
YJ4QUG-115	11.5	30	12	75
YJ4QUG-120	12	30	12	75
YJ4QUG-130	13	36	16	100
YJ4QUG-140	14	36	16	100
YJ4QUG-150	15	40	16	100
YJ4QUG-160	16	40	16	100
YJ4QUG-170	17	40	20	100
YJ4QUG-180	18	40	20	100
YJ4QUG-190	19	40	20	100
YJ4QUG-200	20	40	20	100



鎢鋼球型銑刀系列

Ball Nose End Mill Series





鎢鋼球型銑刀系列

Ball Nose End Mill Series

適用材料：

碳素鋼、鑄鐵、合金鋼、模具鋼、預硬化鋼、調質鋼、不鏽鋼、高硬度鋼。

主要特性：

奈米微粒碳化鎢母材韌性高，被覆 ALTIN (高鋁鈦)，耐磨耗，專用於高速切削，能對常見加工材料直接進行粗加工到細加工，減少換刀次數，提高機床稼動率，節省模具製作時程。

Application:

Carbon Steels, Cast Irons, Alloy Steels, Mold Steels, Pre-hardened Steels, Hardened Steels.

Main Character:

Ultra Fine Micro Grain Carbide that has high toughness, coated ALTIN and wear-resistance. This series is specialized in milling at high speed and can carry on roughing get to finishing process directly for heat treatment mold. Also, this series can reduce tools change times, improve machine flexible rate and shorten producing time.



YJ2BMW / X

鎢鋼微小徑球型立銑刀 - 2 刃

Micro Diameter Ball Nose End Mills - 2 Flutes

Helix Angle 35°



產品編碼 Item code	R 徑 Radius (1/2 D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2BMW-015	R0.15	0.6	3	50
YJ2BMW-020	R0.2	0.8	3	50
YJ2BMW-025	R0.25	1	3	50
YJ2BMW-030	R0.3	1.2	3	50
YJ2BMW-035	R0.35	1.4	3	50
YJ2BMW-040	R0.4	1.6	3	50
YJ2BMW-045	R0.45	1.8	3	50
YJ2BMX-015	R0.15	0.6	4	50
YJ2BMX-020	R0.2	0.8	4	50
YJ2BMX-025	R0.25	1	4	50
YJ2BMX-030	R0.3	1.2	4	50
YJ2BMX-035	R0.35	1.4	4	50
YJ2BMX-040	R0.4	1.6	4	50
YJ2BMX-045	R0.45	1.8	4	50

YJ2BNA~I

鎢鋼長頸短刃球型立銑刀 - 2 刃

Long Neck Short Flute Ball Nose End Mills - 2 Flutes

Helix Angle 35°



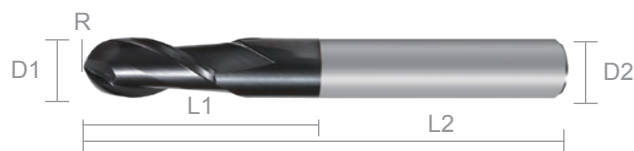
產品編碼 Item code	R 徑 Radius (1/2 D1)	刃長 Flute Length (L1)	有效長 Effective Length (L2)	柄徑 Shank Diameter(D2)	全長 Overall Length (L3)
YJ2BNA-020	R0.2	0.6	2	4	50
YJ2BNA-040	R0.2	0.6	4	4	50
YJ2BNB-020	R0.25	0.8	2	4	50
YJ2BNB-040	R0.25	0.8	4	4	50
YJ2BNB-060	R0.25	0.8	6	4	50
YJ2BNC-020	R0.3	1	2	4	50
YJ2BNC-040	R0.3	1	4	4	50
YJ2BNC-060	R0.3	1	6	4	50
YJ2BNC-080	R0.3	1	8	4	50
YJ2BND-030	R0.4	1.2	3	4	50
YJ2BND-040	R0.4	1.2	4	4	50
YJ2BND-060	R0.4	1.2	6	4	50
YJ2BND-080	R0.4	1.2	8	4	50
YJ2BND-100	R0.4	1.2	10	4	50
YJ2BNE-040	R0.5	1.2	4	4	50
YJ2BNE-060	R0.5	1.2	6	4	50
YJ2BNE-080	R0.5	1.2	8	4	50
YJ2BNE-100	R0.5	1.2	10	4	50
YJ2BNE-120	R0.5	1.2	12	4	50
YJ2BNF-040	R0.75	1.7	4	4	50
YJ2BNF-060	R0.75	1.7	6	4	50
YJ2BNF-080	R0.75	1.7	8	4	50
YJ2BNF-100	R0.75	1.7	10	4	50
YJ2BNF-120	R0.75	1.7	12	4	50
YJ2BNG-060	R1	2.2	6	4	50
YJ2BNG-080	R1	2.2	8	4	50
YJ2BNG-100	R1	2.2	10	4	50
YJ2BNG-120	R1	2.2	12	4	50
YJ2BNG-140	R1	2.2	14	4	50
YJ2BNG-160	R1	2.2	16	4	75
YJ2BNH-080	R1.5	3.2	8	4	50
YJ2BNH-100	R1.5	3.2	10	4	50
YJ2BNH-120	R1.5	3.2	12	4	50
YJ2BNH-140	R1.5	3.2	14	4	50
YJ2BNH-160	R1.5	3.2	16	4	75
YJ2BNH-200	R1.5	3.2	20	4	75
YJ2BNI-120	R2	4.2	12	6	50
YJ2BNI-140	R2	4.2	14	6	50
YJ2BNI-160	R2	4.2	16	6	75
YJ2BNI-200	R2	4.2	20	6	75
YJ2BNI-250	R2	4.2	25	6	75

YJ2BEH

鎢鋼球型立銑刀 - 2 刃

Ball Nose End Mills - 2 Flutes

Helix Angle 35°



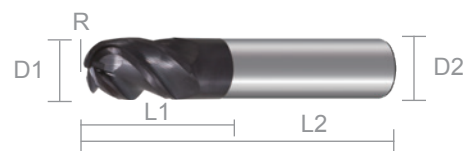
產品編碼 Item code	R 徑 Radius (1/2 D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2BEH-0050	R0.50	2	4	50
YJ2BEH-0075	R0.75	3	4	50
YJ2BEH-0100	R1.00	4	4	50
YJ2BEH-0125	R1.25	5	4	50
YJ2BEH-0150	R1.50	6	4	50
YJ2BEH-0175	R1.75	7	4	50
YJ2BEH-0200	R2.00	8	4	50
YJ2BEH-0225	R2.25	9	6	50
YJ2BEH-0250	R2.50	10	6	50
YJ2BEH-0275	R2.75	11	6	50
YJ2BEH-0300	R3.00	12	6	50
YJ2BEH-0325	R3.25	13	8	60
YJ2BEH-0350	R3.50	14	8	60
YJ2BEH-0375	R3.75	15	8	60
YJ2BEH-0400	R4.00	16	8	60
YJ2BEH-0450	R4.50	18	10	75
YJ2BEH-0500	R5.00	20	10	75
YJ2BEH-0600	R6.00	24	12	75
YJ2BEH-0800	R8.00	30	16	100
YJ2BEH-1000	R10.0	30	20	100
YJ2BEH-1250	R12.5	30	25	100

YJ4BEH

鎢鋼球型立銑刀 - 4 刃

Ball Nose End Mills - 4 Flutes

Helix Angle 35°



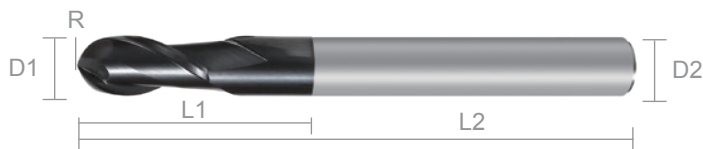
產品編碼 Item code	R 徑 Radius (1/2 D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ4BEH-0050	R0.50	2	4	50
YJ4BEH-0075	R0.75	3	4	50
YJ4BEH-0100	R1.00	4	4	50
YJ4BEH-0125	R1.25	5	4	50
YJ4BEH-0150	R1.50	6	4	50
YJ4BEH-0175	R1.75	7	4	50
YJ4BEH-0200	R2.00	8	4	50
YJ4BEH-0225	R2.25	9	6	50
YJ4BEH-0250	R2.50	10	6	50
YJ4BEH-0275	R2.75	11	6	50
YJ4BEH-0300	R3.00	12	6	50
YJ4BEH-0325	R3.25	13	8	60
YJ4BEH-0350	R3.50	14	8	60
YJ4BEH-0375	R3.75	15	8	60
YJ4BEH-0400	R4.00	16	8	60
YJ4BEH-0450	R4.50	18	10	75
YJ4BEH-0500	R5.00	20	10	75
YJ4BEH-0600	R6.00	24	12	75
YJ4BEH-0800	R8.00	30	16	100
YJ4BEH-1000	R10.0	30	20	100
YJ4BEH-1250	R12.5	30	25	100

YJ2BSW / X / Y / Z

鎢鋼長柄型球型立銑刀 - 2 刃

Long Shank Ball Nose End Mills - 2 Flutes

Helix Angle 35°



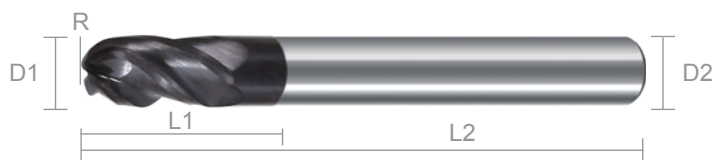
產品編碼 Item code	R 徑 Radius (1/2 D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2BSW-050	R0.50	2	4	75
YJ2BSW-075	R0.75	3	4	75
YJ2BSW-100	R1.00	4	4	75
YJ2BSW-125	R1.25	5	4	75
YJ2BSW-150	R1.50	6	4	75
YJ2BSW-175	R1.75	7	4	75
YJ2BSW-200	R2.00	8	4	75
YJ2BSW-225	R2.25	9	6	75
YJ2BSW-250	R2.50	10	6	75
YJ2BSW-275	R2.75	11	6	75
YJ2BSW-300	R3.00	12	6	75
YJ2BSW-400	R4.00	16	8	75
YJ2BSX-050	R0.50	2	6	100
YJ2BSX-075	R0.75	3	6	100
YJ2BSX-100	R1.00	4	6	100
YJ2BSX-125	R1.25	5	6	100
YJ2BSX-150	R1.50	6	6	100
YJ2BSX-175	R1.75	7	6	100
YJ2BSX-200	R2.00	8	6	100
YJ2BSX-225	R2.25	9	6	100
YJ2BSX-250	R2.50	10	6	100
YJ2BSX-275	R2.75	11	6	100
YJ2BSX-300	R3.00	12	6	100
YJ2BSX-400	R4.00	16	8	100
YJ2BSX-500	R5.00	20	10	100
YJ2BSX-600	R6.00	24	12	100
YJ2BSY-030	R3.00	12	6	150
YJ2BSY-040	R4.00	16	8	150
YJ2BSY-050	R5.00	20	10	150
YJ2BSY-060	R6.00	24	12	150
YJ2BSY-080	R8.00	30	16	150
YJ2BSY-100	R10.0	30	20	150
YJ2BSZ-040	R4.00	16	8	200
YJ2BSZ-050	R5.00	20	10	200
YJ2BSZ-060	R6.00	24	12	200
YJ2BSZ-080	R8.00	30	16	200
YJ2BSZ-100	R10.0	30	20	200

YJ4BSW / X / Y / Z

鎢鋼長柄型球型立銑刀 - 4 刃

Long Shank Ball Nose End Mills - 4 Flutes

Helix Angle 35°



產品編碼 Item code	R 徑 Radius (1/2 D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ4BSW-050	R0.50	2	4	75
YJ4BSW-075	R0.75	3	4	75
YJ4BSW-100	R1.00	4	4	75
YJ4BSW-125	R1.25	5	4	75
YJ4BSW-150	R1.50	6	4	75
YJ4BSW-175	R1.75	7	4	75
YJ4BSW-200	R2.00	8	4	75
YJ4BSW-225	R2.25	9	6	75
YJ4BSW-250	R2.50	10	6	75
YJ4BSW-275	R2.75	11	6	75
YJ4BSW-300	R3.00	12	6	75
YJ4BSW-400	R4.00	16	8	75
YJ4BSX-050	R0.50	2	6	100
YJ4BSX-075	R0.75	3	6	100
YJ4BSX-100	R1.00	4	6	100
YJ4BSX-125	R1.25	5	6	100
YJ4BSX-150	R1.50	6	6	100
YJ4BSX-175	R1.75	7	6	100
YJ4BSX-200	R2.00	8	6	100
YJ4BSX-225	R2.25	9	6	100
YJ4BSX-250	R2.50	10	6	100
YJ4BSX-275	R2.75	11	6	100
YJ4BSX-300	R3.00	12	6	100
YJ4BSX-400	R4.00	16	8	100
YJ4BSX-500	R5.00	20	10	100
YJ4BSX-600	R6.00	24	12	100
YJ4BSY-030	R3.00	12	6	150
YJ4BSY-040	R4.00	16	8	150
YJ4BSY-050	R5.00	20	10	150
YJ4BSY-060	R6.00	24	12	150
YJ4BSY-080	R8.00	30	16	150
YJ4BSY-100	R10.0	30	20	150
YJ4BSZ-040	R4.00	16	8	200
YJ4BSZ-050	R5.00	20	10	200
YJ4BSZ-060	R6.00	24	12	200
YJ4BSZ-080	R8.00	30	16	200
YJ4BSZ-100	R10.0	30	20	200



鎢鋼圓鼻刀系列

Corner Radius End Mill Series





鎢鋼圓鼻刀系列

Corner Radius End Mill Series

適用材料：

結構鋼、碳素鋼、鑄鐵、合金鋼、預硬化鋼、調質鋼、淬火鋼、不銹鋼、耐熱合金、鈦合金。

主要特性：

奈米微粒碳化鎢鋼母材韌性高，刀刃被覆 ALTIN (高鋁鈦)，耐磨耗，適用於高速切削，能對常見加工材料直接進行粗加工到細加工，減少換刀次數，提高機床稼動率，節省製作時程。

Application:

Structural Steels, Carbon Steels, Cast Irons. Alloy Steels. Pre-hardened Steels, Hardened Steels, Stainless Steels, Nickel Alloys, Titanium Alloys.

Main Character:

Ultra Micro Grain Carbide that has high toughness, coated ALTIN and wear-resistance. This series is specialized in milling at high speed and can carry on processing directly for general work materials. Also, this series can reduce tools change times, improve machine flexible rate and shorten producing time.

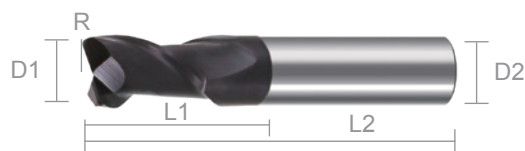


YJ2CEA~K

鎢鋼圓鼻立銑刀 - 2 刃

Corner Radius End Mills - 2 Flutes

Helix Angle 35°



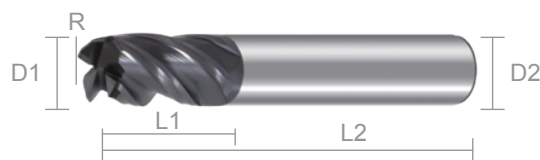
產品編碼 Item code	刃徑 Outside Diameter (D1)	R 徑 Radius (1/2 D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2CEA-020	1	0.2	2	4	50
YJ2CEB-020	1.5	0.2	3	4	50
YJ2CEB-050	1.5	0.5	3	4	50
YJ2CEC-020	2	0.2	4	4	50
YJ2CEC-050	2	0.5	4	4	50
YJ2CED-020	2.5	0.2	5	4	50
YJ2CED-050	2.5	0.5	5	4	50
YJ2CEE-020	3	0.2	6	4	50
YJ2CEE-050	3	0.5	6	4	50
YJ2CEE-100	3	1	6	4	50
YJ2CEF-020	4	0.2	8	4	50
YJ2CEF-050	4	0.5	8	4	50
YJ2CEF-100	4	1	8	4	50
YJ2CEG-050	5	0.5	10	6	50
YJ2CEG-100	5	1	10	6	50
YJ2CEH-020	6	0.2	12	6	50
YJ2CEH-050	6	0.5	12	6	50
YJ2CEH-100	6	1	12	6	50
YJ2CEH-150	6	1.5	12	6	50
YJ2CEH-200	6	2	12	6	50
YJ2CEI-050	8	0.5	16	8	60
YJ2CEI-100	8	1	16	8	60
YJ2CEI-150	8	1.5	16	8	60
YJ2CEI-200	8	2	16	8	60
YJ2CEJ-050	10	0.5	16	10	75
YJ2CEJ-100	10	1	16	10	75
YJ2CEJ-150	10	1.5	16	10	75
YJ2CEJ-200	10	2	16	10	75
YJ2CEJ-250	10	2.5	16	10	75
YJ2CEJ-300	10	3	16	10	75
YJ2CEK-050	12	0.5	24	12	75
YJ2CEK-100	12	1	24	12	75
YJ2CEK-150	12	1.5	24	12	75
YJ2CEK-200	12	2	24	12	75
YJ2CEK-250	12	2.5	24	12	75
YJ2CEK-300	12	3	24	12	75

YJ4CEA~K

鎢鋼圓鼻立銑刀 - 4 刃

Corner Radius End Mills - 4 Flutes

Helix Angle 35°



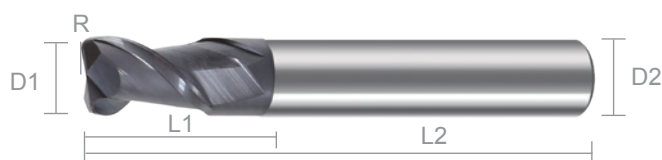
產品編碼 Item code	刃徑 Outside Diameter (D1)	R 徑 Radius (1/2 D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ4CEA-020	1	0.2	2	4	50
YJ4CEB-020	1.5	0.2	3	4	50
YJ4CEB-050	1.5	0.5	3	4	50
YJ4CEC-020	2	0.2	4	4	50
YJ4CEC-050	2	0.5	4	4	50
YJ4CED-020	2.5	0.2	5	4	50
YJ4CED-050	2.5	0.5	5	4	50
YJ4CEE-020	3	0.2	6	4	50
YJ4CEE-050	3	0.5	6	4	50
YJ4CEE-100	3	1	6	4	50
YJ4CEF-020	4	0.2	8	4	50
YJ4CEF-050	4	0.5	8	4	50
YJ4CEF-100	4	1	8	4	50
YJ4CEG-050	5	0.5	10	6	50
YJ4CEG-100	5	1	10	6	50
YJ4CEH-020	6	0.2	12	6	50
YJ4CEH-050	6	0.5	12	6	50
YJ4CEH-100	6	1	12	6	50
YJ4CEH-150	6	1.5	12	6	50
YJ4CEH-200	6	2	12	6	50
YJ4CEI-050	8	0.5	16	8	60
YJ4CEI-100	8	1	16	8	60
YJ4CEI-150	8	1.5	16	8	60
YJ4CEI-200	8	2	16	8	60
YJ4CEJ-050	10	0.5	16	10	75
YJ4CEJ-100	10	1	16	10	75
YJ4CEJ-150	10	1.5	16	10	75
YJ4CEJ-200	10	2	16	10	75
YJ4CEJ-250	10	2.5	16	10	75
YJ4CEJ-300	10	3	16	10	75
YJ4CEK-050	12	0.5	24	12	75
YJ4CEK-100	12	1	24	12	75
YJ4CEK-150	12	1.5	24	12	75
YJ4CEK-200	12	2	24	12	75
YJ4CEK-250	12	2.5	24	12	75
YJ4CEK-300	12	3	24	12	75

YJ2CSA~I / YJ2CSU~Z

鎢鋼長柄圓鼻立銑刀 - 2 刃

Long Shank Corner Radius End Mills - 2 Flutes

Helix Angle 35°



產品編碼 Item code	刃徑 Outside Diameter (D1)	R 徑 Radius (1/2 D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2CSA-020	1	0.2	2	4	75
YJ2CSB-020	1.5	0.2	3	4	75
YJ2CSB-050	1.5	0.5	3	4	75
YJ2CSC-020	2	0.2	4	4	75
YJ2CSC-050	2	0.5	4	4	75
YJ2CSD-020	2.5	0.2	5	4	75
YJ2CSD-050	2.5	0.5	5	4	75
YJ2CSE-020	3	0.2	6	4	75
YJ2CSE-050	3	0.5	6	4	75
YJ2CSE-100	3	1	6	4	75
YJ2CSF-020	4	0.2	8	4	75
YJ2CSF-050	4	0.5	8	4	75
YJ2CSF-100	4	1	8	4	75
YJ2CSG-050	5	0.5	10	6	75
YJ2CSG-100	5	1	10	6	75
YJ2CSH-020	6	0.2	12	6	75
YJ2CSH-050	6	0.5	12	6	75
YJ2CSH-100	6	1	12	6	75
YJ2CSH-150	6	1.5	12	6	75
YJ2CSH-200	6	2	12	6	75
YJ2CSI-050	8	0.5	16	8	75
YJ2CSI-100	8	1	16	8	75
YJ2CSI-150	8	1.5	16	8	75
YJ2CSI-200	8	2	16	8	75
YJ2CSU-020	4	0.2	8	6	100
YJ2CSU-050	4	0.5	8	6	100
YJ2CSU-100	4	1	8	6	100
YJ2CSV-050	5	0.5	10	6	100
YJ2CSV-100	5	1	10	6	100
YJ2CSW-020	6	0.2	12	6	100
YJ2CSW-050	6	0.5	12	6	100
YJ2CSW-100	6	1	12	6	100
YJ2CSW-150	6	1.5	12	6	100
YJ2CSW-200	6	2	12	6	100
YJ2CSX-050	8	0.5	16	8	100
YJ2CSX-100	8	1	16	8	100

YJ2CSA~I / YJ2CSU~Z

鎢鋼長柄圓鼻立銑刀 - 2 刃

Long Shank Corner Radius End Mills - 2 Flutes

Helix Angle 35°



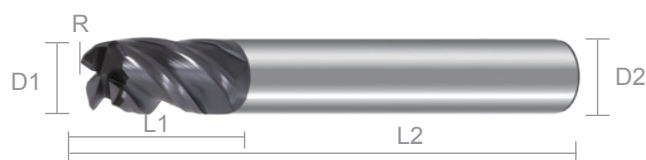
產品編碼 Item code	刃徑 Outside Diameter (D1)	R 徑 Radius (1/2 D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2CSX-150	8	1.5	16	8	100
YJ2CSX-200	8	2	16	8	100
YJ2CSY-050	10	0.5	20	10	100
YJ2CSY-100	10	1	20	10	100
YJ2CSY-150	10	1.5	20	10	100
YJ2CSY-200	10	2	20	10	100
YJ2CSY-250	10	2.5	20	10	100
YJ2CSY-300	10	3	20	10	100
YJ2CSZ-050	12	0.5	24	12	100
YJ2CSZ-100	12	1	24	12	100
YJ2CSZ-150	12	1.5	24	12	100
YJ2CSZ-200	12	2	24	12	100
YJ2CSZ-250	12	2.5	24	12	100
YJ2CSZ-300	12	3	24	12	100

YJ4CSA~I / YJ4CSU~Z

鎢鋼長柄圓鼻立銑刀 - 4 刃

Long Shank Corner Radius End Mills - 4 Flutes

Helix Angle 35°



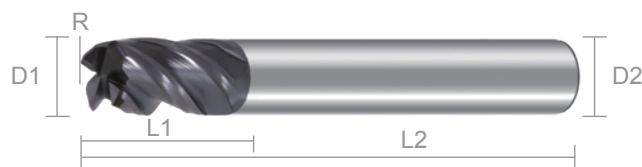
產品編碼 Item code	刃徑 Outside Diameter (D1)	R 徑 Radius (1/2 D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ4CSA-020	1	0.2	2	4	75
YJ4CSB-020	1.5	0.2	3	4	75
YJ4CSB-050	1.5	0.5	3	4	75
YJ4CSC-020	2	0.2	4	4	75
YJ4CSC-050	2	0.5	4	4	75
YJ4CSD-020	2.5	0.2	5	4	75
YJ4CSD-050	2.5	0.5	5	4	75
YJ4CSE-020	3	0.2	6	4	75
YJ4CSE-050	3	0.5	6	4	75
YJ4CSE-100	3	1	6	4	75
YJ4CSF-020	4	0.2	8	4	75
YJ4CSF-050	4	0.5	8	4	75
YJ4CSF-100	4	1	8	4	75
YJ4CSG-050	5	0.5	10	6	75
YJ4CSG-100	5	1	10	6	75
YJ4CSH-020	6	0.2	12	6	75
YJ4CSH-050	6	0.5	12	6	75
YJ4CSH-100	6	1	12	6	75
YJ4CSH-150	6	1.5	12	6	75
YJ4CSH-200	6	2	12	6	75
YJ4CSI-050	8	0.5	16	8	75
YJ4CSI-100	8	1	16	8	75
YJ4CSI-150	8	1.5	16	8	75
YJ4CSI-200	8	2	16	8	75
YJ4CSU-020	4	0.2	8	6	100
YJ4CSU-050	4	0.5	8	6	100
YJ4CSU-100	4	1	8	6	100
YJ4CSV-050	5	0.5	10	6	100
YJ4CSV-100	5	1	10	6	100
YJ4CSW-020	6	0.2	12	6	100
YJ4CSW-050	6	0.5	12	6	100
YJ4CSW-100	6	1	12	6	100
YJ4CSW-150	6	1.5	12	6	100
YJ4CSW-200	6	2	12	6	100
YJ4CSX-050	8	0.5	16	8	100
YJ4CSX-100	8	1	16	8	100

YJ4CSA~I / YJ4CSU~Z

鎢鋼長柄圓鼻立銑刀 - 4 刃

Long Shank Corner Radius End Mills - 4 Flutes

Helix Angle 35°



產品編碼 Item code	刃徑 Outside Diameter (D1)	R 徑 Radius (1/2 D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ4CSX-150	8	1.5	16	8	100
YJ4CSX-200	8	2	16	8	100
YJ4CSY-050	10	0.5	20	10	100
YJ4CSY-100	10	1	20	10	100
YJ4CSY-150	10	1.5	20	10	100
YJ4CSY-200	10	2	20	10	100
YJ4CSY-250	10	2.5	20	10	100
YJ4CSY-300	10	3	20	10	100
YJ4CSZ-050	12	0.5	24	12	100
YJ4CSZ-100	12	1	24	12	100
YJ4CSZ-150	12	1.5	24	12	100
YJ4CSZ-200	12	2	24	12	100
YJ4CSZ-250	12	2.5	24	12	100
YJ4CSZ-300	12	3	24	12	100



鎢鋼粗銑刀系列

Roughing End Mill Series





鎢鋼粗銑刀系列

Roughing End Mill Series

適用材料：

結構鋼、碳素鋼、鑄鐵、合金鋼、預硬化鋼、調質鋼、淬火鋼、不銹鋼、耐熱合金、鈦合金。

主要特性：

奈米微粒碳化鎢鋼母材韌性高，刀刃被覆 ALTIN (高鋁鈦)，耐磨耗，適用於高速切削，能對常見加工材料直接進行定位加工。適合粗加工、亦可重切削。

Application:

Structural Steels, Carbon Steels, Cast Irons. Alloy Steels. Pre-hardened Steels, Hardened Steels, Stainless Steels, Nickel Alloys, Titanium Alloys.

Main Character:

Ultra Micro Grain Carbide that has high toughness, coated ALTIN and wearresistance. This series is specialized in milling at high speed and can carry on roughing and heavy cutting for general work materials.



YJ4GEW-S

鎢鋼細齒粗銑立銑刀 - 4 刃

Fine Pitch End Mills - 4 Flutes

Helix Angle 35°



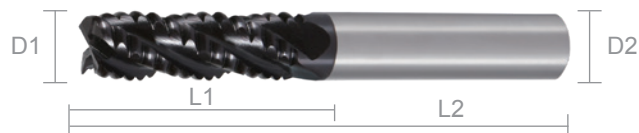
產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ4GEW-060S	6	15	6	50
YJ4GEW-080S	8	20	8	60
YJ4GEW-100S	10	30	10	75
YJ4GEW-120S	12	30	12	75
YJ4GEW-160S	16	45	16	100
YJ4GEW-200S	20	45	20	100

YJ4GEW

鎢鋼粗齒粗銑立銑刀 - 4 刃

Roughing End Mills - 4 Flutes

Helix Angle 35°



產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ4GEW-060	6	15	6	50
YJ4GEW-080	8	20	8	60
YJ4GEW-100	10	30	10	75
YJ4GEW-120	12	30	12	75
YJ4GEW-160	16	45	16	100
YJ4GEW-200	20	45	20	100



鋁銅合金專用鎢鋼立銑刀系列

For Aluminum & Copper Alloy
Processing End Mill Series





鋁鋼合金專用 鎢鋼立銑刀系列

For Aluminum & Copper Alloy Processing End Mill Series

適用材料：

鋁材、鋁合金鈣鎂、鋁合金鎂、鋁合金鋅鎂、鋁合金鑄件、銅合金。

主要特性：

奈米微粒碳化鎢鋼母材韌性高，專用於高速加工，高螺旋角設計，優良的排屑性能及表面的光滑度。

Application:

Aluminum, Aluminum Alloys (Si, Mg-Si, Mg, Zn-Mg), Aluminum Casting, Aluminum Alloy, Copper Alloys.

Main Character:

Ultra Micro Grain Carbide that has high toughness. This series is specialized in milling at a high speed. The design of high helix angle can improve the chip removal rate and the surface roughness.



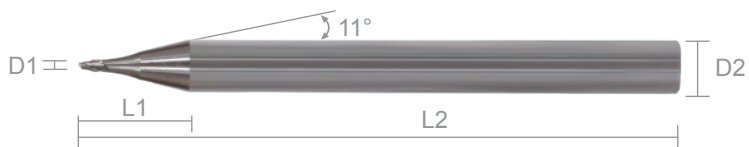
YJ2UQW / X

鋁銅合金專用微小徑立銑刀 - 2 刃

[For Aluminum & Copper]

Micro Diameter End Mills - 2 Flutes

Helix Angle 55°



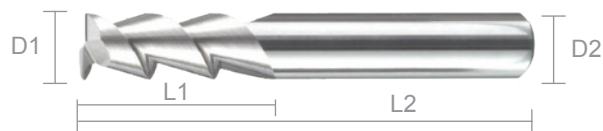
產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2UQW-020	0.2	0.4	3	50
YJ2UQW-030	0.3	0.6	3	50
YJ2UQW-040	0.4	0.8	3	50
YJ2UQW-050	0.5	1	3	50
YJ2UQW-060	0.6	1.2	3	50
YJ2UQW-070	0.7	1.4	3	50
YJ2UQW-080	0.8	1.6	3	50
YJ2UQW-090	0.9	1.8	3	50
YJ2UQX-020	0.2	0.4	4	50
YJ2UQX-030	0.3	0.6	4	50
YJ2UQX-040	0.4	0.8	4	50
YJ2UQX-050	0.5	1	4	50
YJ2UQX-060	0.6	1.2	4	50
YJ2UQX-070	0.7	1.4	4	50
YJ2UQX-080	0.8	1.6	4	50
YJ2UQX-090	0.9	1.8	4	50

YJ2UFV

鋁銅合金專用立銑刀 - 2 刃

[For Aluminum & Copper]
Square End Mills - 2 Flutes

Helix Angle 55°



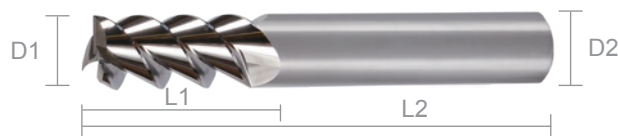
產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2UFV-010	1	3	4	50
YJ2UFV-015	1.5	4.5	4	50
YJ2UFV-020	2	6	4	50
YJ2UFV-025	2.5	7	4	50
YJ2UFV-030	3	8	4	50
YJ2UFV-040	4	11	4	50
YJ2UFV-050	5	15	6	50
YJ2UFV-060	6	18	6	50
YJ2UFV-070	7	18	8	60
YJ2UFV-080	8	20	8	60
YJ2UFV-090	9	30	10	75
YJ2UFV-100	10	30	10	75
YJ2UFV-110	11	30	12	75
YJ2UFV-120	12	30	12	75
YJ2UFV-160	16	40	16	100
YJ2UFV-200	20	40	20	100

YJ3UFV

鋁銅合金專用立銑刀 - 3 刃

[For Aluminum & Copper]
Square End Mills - 3 Flutes

Helix Angle 55°



產品編碼 Item code		刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
一般 Original	鏡面 Specular				
YJ3UFV-010	YJ3UFM-010	1	3	4	50
YJ3UFV-015	YJ3UFM-015	1.5	4.5	4	50
YJ3UFV-020	YJ3UFM-020	2	6	4	50
YJ3UFV-025	YJ3UFM-025	2.5	7	4	50
YJ3UFV-030	YJ3UFM-030	3	8	4	50
YJ3UFV-040	YJ3UFM-040	4	11	4	50
YJ3UFV-050	YJ3UFM-050	5	15	6	50
YJ3UFV-060	YJ3UFM-060	6	18	6	50
YJ3UFV-070	YJ3UFM-070	7	18	8	60
YJ3UFV-080	YJ3UFM-080	8	20	8	60
YJ3UFV-080L	YJ3UFM-080L	8	24	8	60
YJ3UFV-090	YJ3UFM-090	9	30	10	75
YJ3UFV-100	YJ3UFM-100	10	30	10	75
YJ3UFV-110	YJ3UFM-110	11	30	12	75
YJ3UFV-120	YJ3UFM-120	12	30	12	75
YJ3UFV-120L	YJ3UFM-120L	12	36	12	75
YJ3UFV-160	YJ3UFM-160	16	40	16	100
YJ3UFV-200	YJ3UFM-200	20	40	20	100

YJ2UFW~Y

鋁銅合金專用長刃立銑刀 - 2 刃

[For Aluminum & Copper]

Long Flute Square End Mills - 2 Flutes

Helix Angle 55°



產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2UFW-030	3	12	6	75
YJ2UFW-040	4	16	6	75
YJ2UFW-050	5	20	6	75
YJ2UFW-060	6	25	6	75
YJ2UFW-080	8	30	6	75
YJ2UFX-030	3	15	6	100
YJ2UFX-040	4	20	6	100
YJ2UFX-050	5	25	6	100
YJ2UFX-060	6	30	6	100
YJ2UFX-080	8	35	8	100
YJ2UFX-100	10	40	10	100
YJ2UFX-120	12	45	12	100
YJ2UFY-080	8	40	8	150
YJ2UFY-100	10	50	10	150
YJ2UFY-120	12	50	12	150
YJ2UFY-160	16	70	16	150
YJ2UFY-200	20	80	20	150

YJ3UFW~Y

鋁銅合金專用長刃立銑刀 - 3 刃

[For Aluminum & Copper]

Long Flute Square End Mills - 3 Flutes

Helix Angle 55°



產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ3UFW-030	3	12	6	75
YJ3UFW-040	4	16	6	75
YJ3UFW-050	5	20	6	75
YJ3UFW-060	6	25	6	75
YJ3UFW-080	8	30	6	75
YJ3UFX-030	3	15	6	100
YJ3UFX-040	4	20	6	100
YJ3UFX-050	5	25	6	100
YJ3UFX-060	6	30	6	100
YJ3UFX-080	8	35	8	100
YJ3UFX-100	10	40	10	100
YJ3UFX-120	12	45	12	100
YJ3UFY-080	8	40	8	150
YJ3UFY-100	10	50	10	150
YJ3UFY-120	12	50	12	150
YJ3UFY-160	16	70	16	150
YJ3UFY-200	20	80	20	150

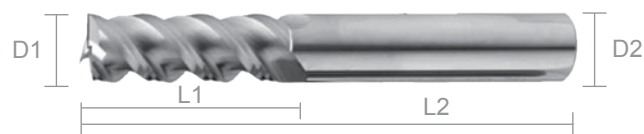
YJ3UFS

鋁銅合金專用重切削立銑刀 - 3 刃

[For Aluminum & Copper]

Heavy Duty Square End Mills - 3 Flutes

Helix Angle 55°



產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ3UFS-020	2	6	4	50
YJ3UFS-025	2.5	7	4	50
YJ3UFS-030	3	8	4	50
YJ3UFS-040	4	11	4	50
YJ3UFS-050	5	15	6	50
YJ3UFS-060	6	18	6	50
YJ3UFS-070	7	20	8	60
YJ3UFS-080	8	20	8	60
YJ3UFS-080L	8	24	8	60
YJ3UFS-090	9	28	10	75
YJ3UFS-100	10	30	10	75
YJ3UFS-110	11	30	12	75
YJ3UFS-120	12	30	12	75
YJ3UFS-120L	12	36	12	75
YJ3UFS-160	16	40	16	100
YJ3UFS-200	20	40	20	100

YJ2UBF

鋁銅合金專用球型立銑刀 - 2 刃

[For Aluminum & Copper]
Ball Nose End Mills - 2 Flutes

Helix Angle 40°



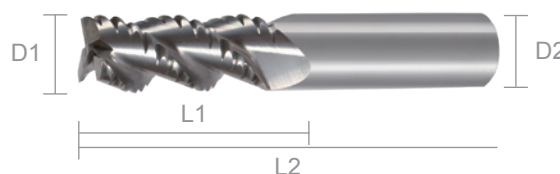
產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2UBF-050	R0.50	2	4	50
YJ2UBF-075	R0.75	3	4	50
YJ2UBF-100	R1.00	4	4	50
YJ2UBF-125	R1.25	5	4	50
YJ2UBF-150	R1.50	6	4	50
YJ2UBF-175	R1.75	7	4	50
YJ2UBF-200	R2.00	8	4	50
YJ2UBF-250	R2.25	10	6	50
YJ2UBF-300	R3.00	12	6	50
YJ2UBF-400	R4.00	16	8	60
YJ2UBF-500	R5.00	20	10	75
YJ2UBF-600	R6.00	24	12	75
YJ2UBF-800	R8.00	30	16	100
YJ2UBF-1000	R10.0	30	20	100

YJ3UEW

鋁銅合金專用粗銑刀 - 3 刃

[For Aluminum & Copper]
Roughing End Mills - 3 Flutes

Helix Angle 40°



產品編碼 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ3UEW-060	6	15	6	50
YJ3UEW-080	8	20	8	60
YJ3UEW-100	10	30	10	75
YJ3UEW-120	12	30	12	75
YJ3UEW-160	16	40	16	100
YJ3UEW-200	20	40	20	100



鎢鋼斜度刀系列

Taper Flute End Mill Series





鎢鋼斜度刀系列

Taper Flute End Mill Series

適用材料：

碳素鋼、合金鋼、鑄鐵、預化硬鋼、調質鋼、淬火鋼。

主要特性：

奈米微粒碳化鎢鋼母材韌性高，刀刃被覆 ALTIN（高鋁鈦），耐磨耗，適用於高速切削，能對常見加工材料直接進行細加工到粗加工，減少換刀次數，提高機床稼動率，節省製作時程。

Application:

Carbon steels, Alloy Steels, Pre-hardened Steels, hardened steels.

Main Character:

Ultra Micro Grain Carbide that has high toughness, coated ALTIN and wear-resistance, this series is specialized in milling at high speed and can carry on roughing get to finishing process directly for general work materials.

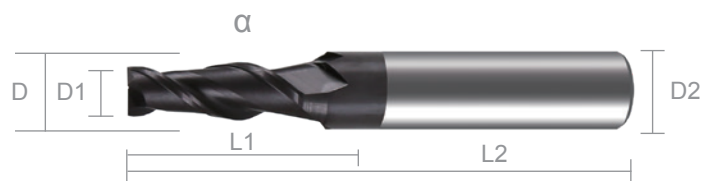
Also, this series can reduce tools change times, improve machine flexible rate and shorten producing time.



YJ2TEA~D

錫鋼斜度刀立銑刀 - 2 刃

Taper Flute Square End Mills - 2 Flutes



產品編碼 Item code	先端徑 Taper First Diameter (D1)	刃長 Flute Length (L1)	斜度 Taper (α)	粗端徑 Taper Last Diameter (D)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2TEA-005	1	4	0.5	1.07	4	50
YJ2TEA-010	1	4	1	1.14	4	50
YJ2TEA-015	1	4	1.5	1.21	4	50
YJ2TEA-020	1	4	2	1.28	4	50
YJ2TEA-025	1	4	2.5	1.35	4	50
YJ2TEA-030	1	4	3	1.42	4	50
YJ2TEA-050	1	4	5	1.7	4	60
YJ2TEA-070	1	4	7	1.98	4	60
YJ2TEA-100	1	4	10	2.41	4	60
YJ2TEB-005	1.5	5	0.5	1.59	4	50
YJ2TEB-010	1.5	5	1	1.67	4	50
YJ2TEB-015	1.5	5	1.5	1.76	4	50
YJ2TEB-020	1.5	5	2	1.85	4	50
YJ2TEB-025	1.5	5	2.5	1.93	4	50
YJ2TEB-030	1.5	5	3	2.02	4	50
YJ2TEB-050	1.5	5	5	2.37	4	50
YJ2TEB-070	1.5	5	7	2.73	4	50
YJ2TEB-100	1.5	5	10	3.26	4	50
YJ2TEC-005	2	6	0.5	2.1	4	50
YJ2TEC-010	2	6	1	2.21	4	50
YJ2TEC-015	2	6	1.5	2.31	4	50
YJ2TEC-020	2	6	2	2.41	4	50
YJ2TEC-025	2	6	2.5	2.52	4	50
YJ2TEC-030	2	6	3	2.62	4	50
YJ2TEC-050	2	6	5	3.05	4	50
YJ2TEC-070	2	6	7	3.47	4	50
YJ2TEC-100	2	6	10	4.12	6	50
YJ2TED-005	2.5	8	0.5	2.64	4	50
YJ2TED-010	2.5	8	1	2.78	4	50
YJ2TED-015	2.5	8	1.5	2.91	4	50
YJ2TED-020	2.5	8	2	3.05	4	50
YJ2TED-025	2.5	8	2.5	3.2	4	50
YJ2TED-030	2.5	8	3	3.33	4	50
YJ2TED-050	2.5	8	5	3.9	4	50
YJ2TED-070	2.5	8	7	4.46	6	50
YJ2TED-100	2.5	8	10	5.32	6	50

YJ2TEE~H

錫鋼斜度刀立銑刀 - 2 刃

Taper Flute Square End Mills - 2 Flutes

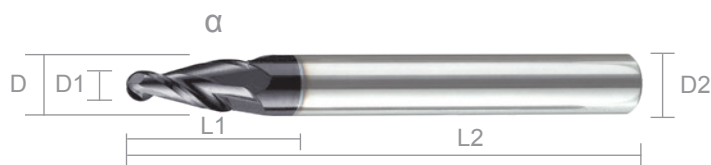


產品編碼 Item code	先端徑 Taper First Diameter (D1)	刃長 Flute Length (L1)	斜度 Taper (α)	粗端徑 Taper Last Diameter (D)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2TEE-005	3	10	0.5	3.17	4	50
YJ2TEE-010	3	10	1	3.35	4	50
YJ2TEE-015	3	10	1.5	3.52	4	50
YJ2TEE-020	3	10	2	3.69	4	50
YJ2TEE-025	3	10	2.5	3.87	4	50
YJ2TEE-030	3	10	3	4.05	6	50
YJ2TEE-050	3	10	5	4.75	6	50
YJ2TEE-070	3	10	7	5.54	6	50
YJ2TEE-100	3	10	10	6.53	8	50
YJ2TEF-005	4	15	0.5	4.26	6	50
YJ2TEF-010	4	15	1	4.52	6	50
YJ2TEF-015	4	15	1.5	4.79	6	50
YJ2TEF-020	4	15	2	5.04	6	50
YJ2TEF-025	4	15	2.5	5.31	6	50
YJ2TEF-030	4	15	3	5.57	6	50
YJ2TEF-050	4	15	5	6.62	8	60
YJ2TEF-070	4	15	7	7.68	8	60
YJ2TEF-100	4	15	10	9.3	10	75
YJ2TEG-005	5	20	0.5	5.34	6	50
YJ2TEG-010	5	20	1	5.7	6	50
YJ2TEG-015	5	20	1.5	5.99	8	60
YJ2TEG-020	5	20	2	6.39	8	60
YJ2TEG-025	5	20	2.5	6.74	8	60
YJ2TEG-030	5	20	3	7.1	8	60
YJ2TEG-050	5	20	5	8.5	10	75
YJ2TEG-070	5	20	7	9.91	10	75
YJ2TEG-100	5	20	10	11.7	12	75
YJ2TEH-005	6	20	0.5	6.35	8	60
YJ2TEH-010	6	20	1	6.7	8	60
YJ2TEH-015	6	20	1.5	7.05	8	60
YJ2TEH-020	6	20	2	7.4	8	60
YJ2TEH-025	6	20	2.5	7.75	8	60
YJ2TEH-030	6	20	3	7.99	8	75
YJ2TEH-050	6	20	5	9.5	10	75

YJ2TBA~D

錫鋼斜度球型立銑刀 - 2 刃

Taper Flute Ball Nose End Mills - 2 Flutes



產品編碼 Item code	先端徑 Taper First Diameter (D1)	刃長 Flute Length (L1)	斜度 Taper (α)	粗端徑 Taper Last Diameter (D)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2TBA-005-01	R0.5	10	0.5	1.17	4	50
YJ2TBA-005-02	R0.5	10	1	1.33	4	50
YJ2TBA-005-03	R0.5	10	1.5	1.5	4	50
YJ2TBA-005-04	R0.5	10	2	1.66	4	50
YJ2TBA-005-06	R0.5	10	3	2	4	50
YJ2TBA-005-08	R0.5	10	4	2.33	4	50
YJ2TBA-005-10	R0.5	10	5	2.67	4	50
YJ2TBA-005-14	R0.5	10	7	3.34	4	50
YJ2TBA-005-20	R0.5	10	10	4.37	4	50
YJ2TBB-075-01	R0.75	10	0.5	1.66	4	50
YJ2TBB-075-02	R0.75	10	1	1.82	4	50
YJ2TBB-075-03	R0.75	10	1.5	1.99	4	50
YJ2TBB-075-04	R0.75	10	2	2.15	4	50
YJ2TBB-075-06	R0.75	10	3	2.47	4	50
YJ2TBB-075-08	R0.75	10	4	2.8	4	50
YJ2TBB-075-10	R0.75	10	5	3.12	4	50
YJ2TBB-075-14	R0.75	10	7	3.78	4	50
YJ2TBB-075-20	R0.75	10	10	4.79	4	50
YJ2TBC-100-01	R1.0	13	0.5	2.21	4	50
YJ2TBC-100-02	R1.0	13	1	2.42	4	50
YJ2TBC-100-03	R1.0	13	1.5	2.63	4	50
YJ2TBC-100-04	R1.0	13	2	2.84	4	50
YJ2TBC-100-06	R1.0	13	3	3.26	4	50
YJ2TBC-100-08	R1.0	13	4	3.68	4	50
YJ2TBC-100-10	R1.0	13	5	4.11	6	50
YJ2TBC-100-14	R1.0	13	7	4.96	6	50
YJ2TBC-100-20	R1.0	13	10	6.26	8	60
YJ2TBD-125-01	R1.25	15	0.5	2.74	4	50
YJ2TBD-125-02	R1.25	15	1	2.98	4	50
YJ2TBD-125-03	R1.25	15	1.5	3.22	4	50
YJ2TBD-125-04	R1.25	15	2	3.46	4	50
YJ2TBD-125-06	R1.25	15	3	3.94	4	50
YJ2TBD-125-08	R1.25	15	4	4.43	6	50
YJ2TBD-125-10	R1.25	15	5	4.92	6	50
YJ2TBD-125-14	R1.25	15	7	5.9	6	50
YJ2TBD-125-20	R1.25	15	10	7.39	8	60

YJ2TBE~H

錫鋼斜度球型立銑刀 - 2 刃

Taper Flute Ball Nose End Mills - 2 Flutes

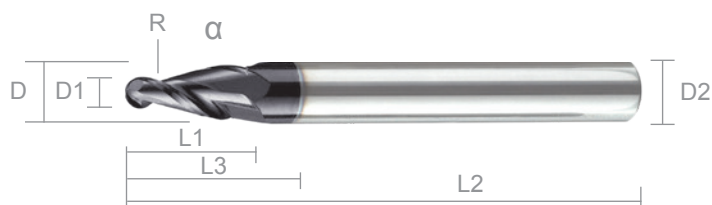


產品編碼 Item code	先端徑 Taper First Diameter (D1)	刃長 Flute Length (L1)	斜度 Taper (α)	粗端徑 Taper Last Diameter (D)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2TBE-150-01	R1.5	20	0.5	3.32	4	50
YJ2TBE-150-02	R1.5	20	1	3.65	4	50
YJ2TBE-150-03	R1.5	20	1.5	3.97	4	50
YJ2TBE-150-04	R1.5	20	2	4.29	6	50
YJ2TBE-150-06	R1.5	20	3	4.94	6	50
YJ2TBE-150-08	R1.5	20	4	5.6	6	50
YJ2TBE-150-10	R1.5	20	5	6.25	8	60
YJ2TBE-150-14	R1.5	20	7	7.57	8	60
YJ2TBE-150-20	R1.5	20	10	9.57	10	75
YJ2TBF-200-01	R2.0	20	0.5	4.4	6	75
YJ2TBF-200-02	R2.0	20	1	4.8	6	75
YJ2TBF-200-03	R2.0	20	1.5	5.21	6	75
YJ2TBF-200-04	R2.0	20	2	5.61	6	75
YJ2TBF-200-06	R2.0	20	3	6.42	8	75
YJ2TBF-200-08	R2.0	20	4	7.23	8	75
YJ2TBF-200-14	R2.0	20	7	9.68	10	75
YJ2TBG-250-01	R2.5	30	0.5	5.48	6	75
YJ2TBG-250-02	R2.5	30	1	5.96	6	75
YJ2TBG-250-03	R2.5	30	1.5	6.44	8	75
YJ2TBG-250-04	R2.5	30	2	6.92	8	75
YJ2TBG-250-06	R2.5	30	3	7.89	8	75
YJ2TBG-250-08	R2.5	30	4	8.86	8	75
YJ2TBG-250-10	R2.5	30	5	9.83	10	75
YJ2TBG-250-14	R2.5	30	7	11.79	10	75
YJ2TBG-250-20	R2.5	30	10	14.78	12	75
YJ2TBH-300-01	R3.0	35	0.5	6.56	8	100
YJ2TBH-300-02	R3.0	35	1	7.12	8	100
YJ2TBH-300-03	R3.0	35	1.5	7.68	8	100
YJ2TBH-300-04	R3.0	35	2	8.24	10	100
YJ2TBH-300-06	R3.0	35	3	9.36	10	100
YJ2TBH-300-08	R3.0	35	4	10.49	12	100
YJ2TBH-300-10	R3.0	35	5	11.62	12	100

YJ2BWA~H

鎢鋼長斜頸球刀 - 2 刃

Long Taper Neck Ball Nose End Mills - 2 Flutes



產品編碼 Item code	R 徑 Radius (1/2 D1)	刃長 Flute Length (L1)	斜頸 Taper Neck (α)	斜頸長 Taper Neck Length (L3)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2BWA-300	R0.5	2	3°	32	6	100
YJ2BWA-500	R0.5	2	5°	32	6	100
YJ2BWB-300	R1.0	4	3°	27	6	100
YJ2BWB-500	R1.0	4	5°	27	6	100
YJ2BWC-300	R1.5	6	1.5°	35	6	100
YJ2BWC-500	R1.5	6	3°	35	6	100
YJ2BWD-300	R2.0	8	1.5°	28	6	100
YJ2BWD-500	R2.0	8	3°	28	6	100
YJ2BWE-300	R3.0	12	3°	32	8	100
YJ2BWE-500	R3.0	12	5°	35	10	100
YJ2BWF-300	R4.0	16	3°	36	10	100
YJ2BWF-500	R4.0	16	5°	39	12	100
YJ2BWG-300	R5.0	20	3°	40	12	100
YJ2BWH-500	R6.0	24	5°	47	16	100



鎢鋼特製系列

Special End Mill Series





鎢鋼特製系列

Special End Mill Series

適用材料：

結構鋼、碳素鋼、鑄鐵、合金鋼、預硬化鋼、調質鋼、淬火鋼、不銹鋼、耐熱合金、鈦合金。

主要特性：

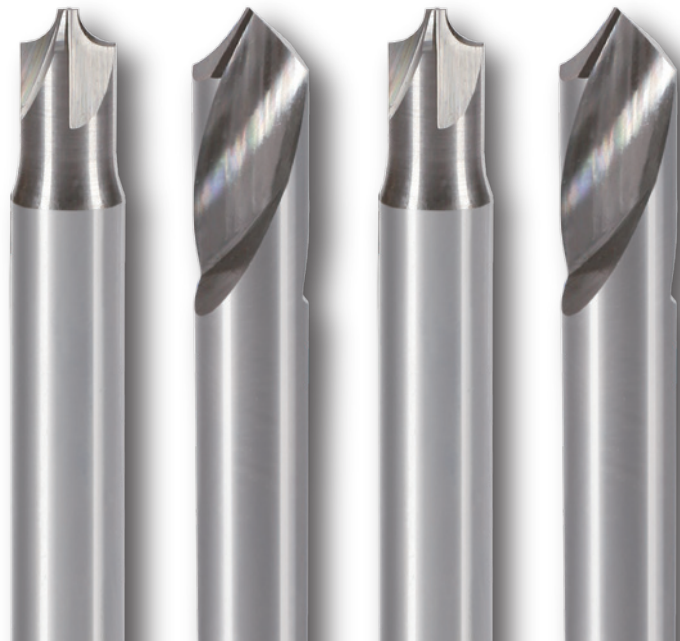
奈米超微粒碳化鎢鋼母材韌性高，能對常見加工材料直接定位加工，適合高速加工、槽加工及鑽銑。鑽頭壽命特佳。

Application:

Structural Steels, Carbon Steels, Cast Irons. Alloy Steels. Pre-hardened Steels, Hardened Steels, Stainless Steels, Nickel Alloys, Titanium Alloys.

Main Character:

Ultra Micro Grain Carbide that has high toughness, coated ALTIN and wear-resistance. This series is specialized in milling at high speed and can carry on grooving and drilling.

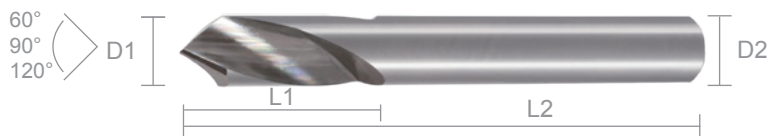


YJ2NDV~Y

鎢鋼定位鑽 - 2 刃 (60°, 90°, 120°)

NC Spotting Drills - 2 Flutes (60°, 90°, 120°)

Helix Angle 20°



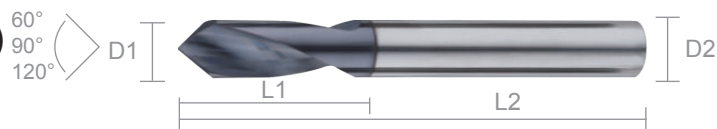
產品編碼 - 白刀 Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2NDV-020	2	4	2	50
YJ2NDV-030	3	6	3	50
YJ2NDV-040	4	8	4	50
YJ2NDV-050	5	10	5	50
YJ2NDV-060	6	12	6	50
YJ2NDV-080	8	16	8	60
YJ2NDV-100	10	20	10	75
YJ2NDV-120	12	20	12	75
YJ2NDV-160	16	25	16	100
YJ2NDV-200	20	25	20	100
YJ2NDW-030	3	6	3	75
YJ2NDW-040	4	8	4	75
YJ2NDW-050	5	10	5	75
YJ2NDW-060	6	12	6	75
YJ2NDW-080	8	16	8	75
YJ2NDX-040	4	8	4	100
YJ2NDX-050	5	10	5	100
YJ2NDX-060	6	12	6	100
YJ2NDX-080	8	16	8	100
YJ2NDX-100	10	20	10	100
YJ2NDX-120	12	20	12	100
YJ2NDY-060	6	12	6	150
YJ2NDY-080	8	16	8	150
YJ2NDY-100	10	20	10	150
YJ2NDY-120	12	20	12	150
YJ2NDY-160	16	25	16	150
YJ2NDY-200	20	25	20	150

YJ2NDVC / WC / XC / YC

鎢鋼鍍鈦定位鑽 - 2 刃 (60°, 90°, 120°)

NC Spotting Drills with Coating - 2 Flutes (60°, 90°, 120°)

Helix Angle 20°

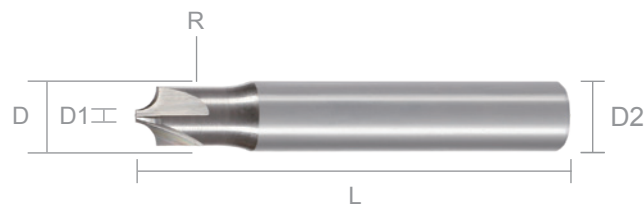


產品編碼 -AT Item code	刃徑 Outside Diameter (D1)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJ2NDVC-020	2	4	2	50
YJ2NDVC-030	3	6	3	50
YJ2NDVC-040	4	8	4	50
YJ2NDVC-050	5	10	5	50
YJ2NDVC-060	6	12	6	50
YJ2NDVC-080	8	16	8	60
YJ2NDVC-100	10	20	10	75
YJ2NDVC-120	12	20	12	75
YJ2NDVC-160	16	25	16	100
YJ2NDVC-200	20	25	20	100
YJ2NDWC-030	3	6	3	75
YJ2NDWC-040	4	8	4	75
YJ2NDWC-050	5	10	5	75
YJ2NDWC-060	6	12	6	75
YJ2NDWC-080	8	16	8	75
YJ2NDXC-040	4	8	4	100
YJ2NDXC-050	5	10	5	100
YJ2NDXC-060	6	12	6	100
YJ2NDXC-080	8	16	8	100
YJ2NDXC-100	10	20	10	100
YJ2NDXC-120	12	20	12	100
YJ2NDYC-060	6	12	6	150
YJ2NDYC-080	8	16	8	150
YJ2NDYC-100	10	20	10	150
YJ2NDYC-120	12	20	12	150
YJ2NDYC-160	16	25	16	150
YJ2NDYC-200	20	25	20	150

YJ4RCZ

鎢鋼外角 R 刀 - 4 刃

Corner Rounding Cutters - 4 Flutes



產品編碼 Item code	R 角 Radius	先端徑 Taper First Diameter (D1)	外徑 Outside Diameter (D)	柄徑 Shank Diameter (D2)	全長 Overall Length (L)
YJ4RCZ-050	R0.50	1.5	2.7	4	50
YJ4RCZ-075	R0.75	1.5	3.2	4	50
YJ4RCZ-100	R1.00	1.5	3.7	4	50
YJ4RCZ-125	R1.25	1.5	4.2	6	50
YJ4RCZ-150	R1.50	1.5	4.7	6	50
YJ4RCZ-175	R1.75	1.5	5.2	6	50
YJ4RCZ-200	R2.00	1.5	5.7	6	50
YJ4RCZ-250	R2.50	1.5	6.7	8	50
YJ4RCZ-300	R3.00	1.5	7.7	8	50
YJ4RCZ-400	R4.00	2	10.2	12	60
YJ4RCZ-500	R5.00	3	13.2	16	75
YJ4RCZ-600	R6.00	3	15.2	16	75



焊刃式鎢鋼銑刀系列

Welded Carbide End Mill Series





焊刃式鎢鋼銑刀系列

Welded Carbide End Mill Series

適用材料：

泛用於鑄 / 鐵件精密孔位鑽孔用 / 修 T 槽溝或側向加工用。

Application:

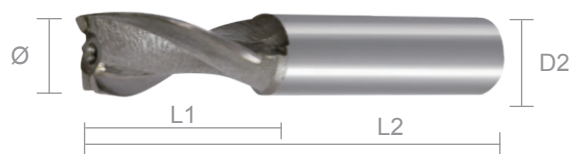
For Cast Irons and Irons, this series can be used on drilling hole precisely, T-type grooving or side milling.



YJE-F

焊刃式鎢鋼銑刀 - 2 刃

Welded Carbide End Mills - 2 Flutes



產品編碼 Item code	外徑 Outside Diameter (Ø)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJE142F	14	32	16	110
YJE162F	16	40	16	110
YJE182F	18	40	20	110
YJE202F	20	40	20	110
YJE222F	22	40	20	130
YJE242F	24	50	25	130
YJE252F	25	50	25	130
YJE262F	26	50	25	130
YJE302F	30	50	25 / 32	130
YJE322F	32	50	32	130
YJE352F	35	50	32	130
YJE402F	40	50	32	140
YJE452F	45	50	32	140

YJE-F

焊刃式鎢鋼銑刀 - 4 刃

Welded Carbide End Mills - 4 Flutes

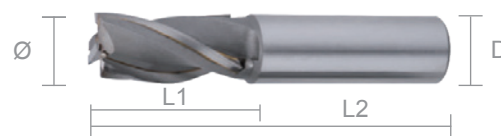


產品編碼 Item code	外徑 Outside Diameter (Ø)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D2)	全長 Overall Length (L2)
YJE144F	14	35	16	110
YJE164F	16	40	16	110
YJE184F	18	40	20	110
YJE204F	20	40	20	110
YJE224F	22	40	20	130
YJE244F	24	50	25	130
YJE254F	25	50	25	130
YJE264F	26	50	25	130
YJE304F	30	50	25 / 32	130
YJE324F	32	50	32	130
YJE354F	35	50	32	130
YJE404F	40	50	32	140
YJE454F	45	50	32	140

YJE-V

焊刃式鎢鋼過中心銑刀 - 2 刃 / 3 刃 / 4 刃

Welded Carbide Endmills with Over-Centered - 2 Flutes / 3 Flutes / 4 Flutes

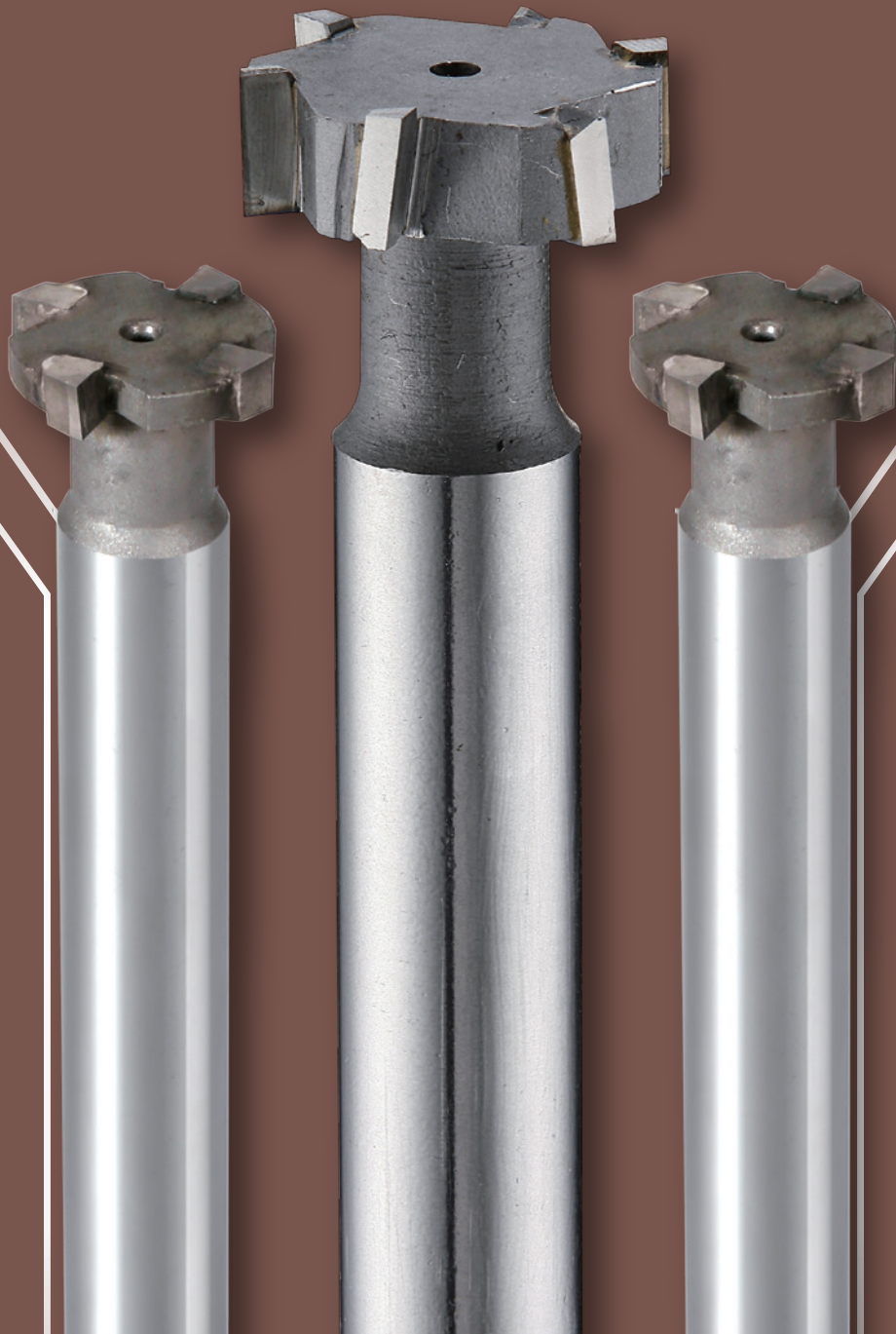


產品編碼 Item code	外徑 Outside Diameter (Ø)	刃長 Flute Length (L1)	柄徑 Shank Diameter (D)	刃數 Flute	全長 Overall Length (L2)
YJE142V	14	32	12	2	110
YJE162V	16	40	16	2	110
YJE182V	18	40	20	2	110
YJE202V	20	40	20	2	110
YJE252V	25	50	25	2	130
YJE302V	30	50	32	2	130
YJE322V	32	50	32	2	130
YJE352V	35	50	32	2	130
YJE402V	40	50	32	2	140
YJE143V	14	32	12	3	110
YJE163V	16	40	16	3	110
YJE183V	18	40	20	3	110
YJE203V	20	40	20	3	110
YJE253V	25	50	25	3	130
YJE303V	30	50	32	3	130
YJE323V	32	50	32	3	130
YJE353V	35	50	32	3	130
YJE403V	40	50	32	3	140
YJE184V	18	40	20	4	110
YJE204V	20	40	20	4	110
YJE254V	25	50	25	4	130
YJE304V	30	50	32	4	130
YJE324V	32	50	32	4	130
YJE354V	35	50	32	4	130
YJE404V	40	50	32	4	140



焊刃式鎢鋼T型刀系列

Welded Carbide T-Slot Milling Cutter Series





焊刃式鎢鋼 T 型刀系列

Welded Carbide T-Slot Milling Cutter Series

適用材料：

泛用一般鑄 / 鐵件材質，於銑削 T 槽溝或倒鉤加工用。

主要特性：

刀刃可分直刃、干鳥刃，刀片材質一般分 K、P 二種，尺寸皆可依客戶需求訂製。

Application:

For Cast Irons / Irons, this series can be used on T-type grooving or under cutting.

Main Character:

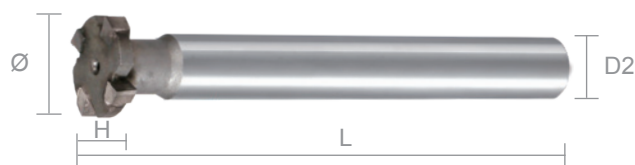
Blade types: Straight / Staggered teeth. Blade materials: K / P. We can offer customized services also.



YJT-T

焊刃式鎢鋼 T 型刀 - 直刃

Welded Carbide T-Slot Milling Cutters-Straight Teeth

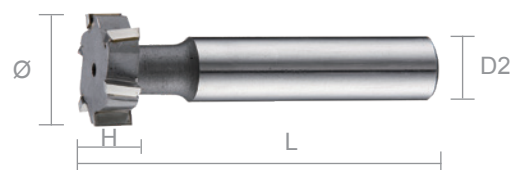


產品編碼 Item code	刃徑 Outside Diameter (\varnothing)	厚度 Blade Thickness (H)	刃數 Flute No.	柄徑 Shank Diameter (D2)	全長 Overall Length (L)
YJT16(3~12)T	16	3/4/5/6/8/10/12	4	12	100
YJT20(3~12)T	20	3/4/5/6/8/10/12	4	12	110
YJT25(3~12)T	25	3/4/5/6/8/10/12	6	12	110
YJT30(3~12)T	30	3/4/5/6/8/10/12	6	16	120
YJT32(3~12)T	32	3/4/5/6/8/10/12	6	16	120
YJT35(3~12)T	35	3/4/5/6/8/10/12	6	16	120
YJT40(3~12)T	40	3/4/5/6/8/10/12	6	20/25	130
YJT45(3~12)T	45	3/4/5/6/8/10/12	6/8	20/25	130
YJT50(3~12)T	50	3/4/5/6/8/10/12	8	25	130
YJT60(5~12)T	60	5/6/8/10/12	10	32	130

YJT-G

焊刃式鎢鋼 T 型刀 - 千鳥刃

Welded Carbide T-Slot Milling Cutters-Staggered Teeth

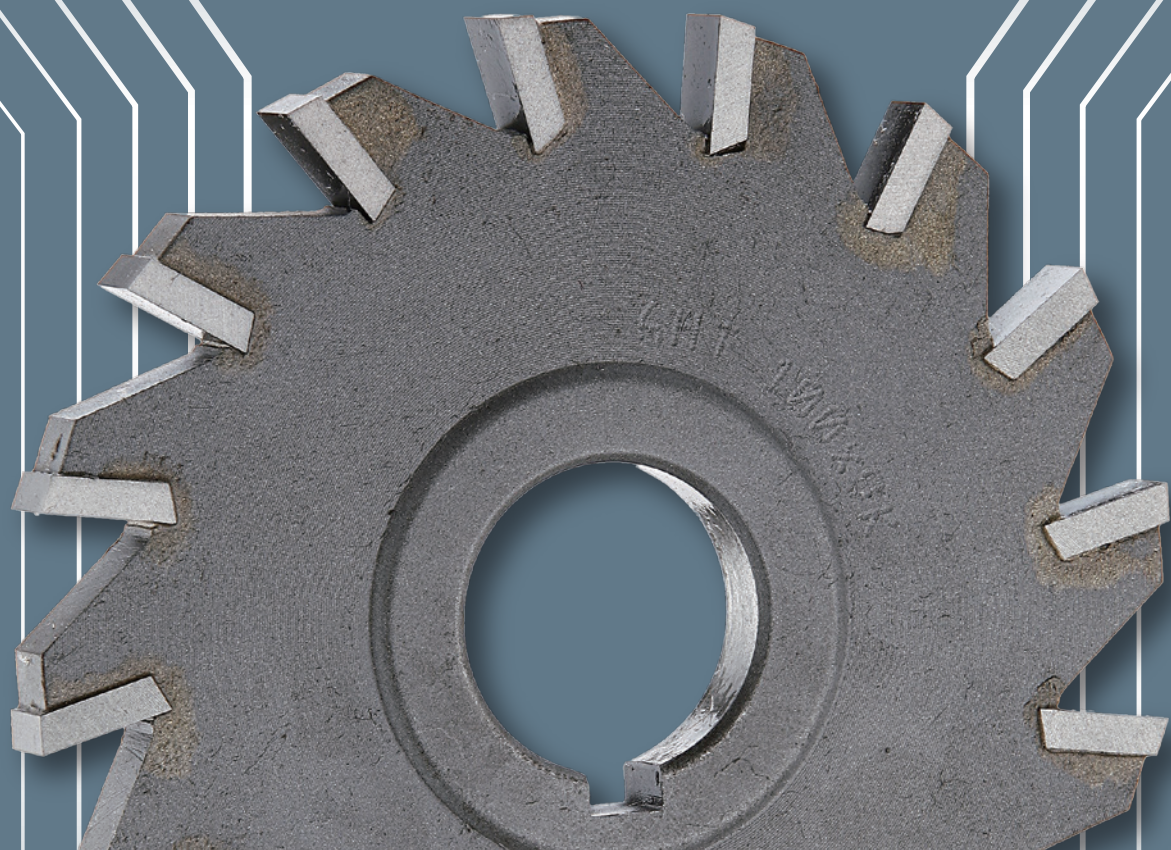


產品編碼 Item code	刃徑 Outside Diameter (\varnothing)	厚度 Blade Thickness (H)	刃數 Flute No.	柄徑 Shank Diameter (D)	全長 Overall Length (L)
YJT16(3~12)G	16	3/4/5/6/8/10/12	4	12	100
YJT20(3~12)G	20	3/4/5/6/8/10/12	4	12/16	110
YJT25(3~12)G	25	3/4/5/6/8/10/12	6	16	110
YJT30(3~12)G	30	3/4/5/6/8/10/12	6	16	120
YJT32(3~12)G	32	3/4/5/6/8/10/12	6	16	120
YJT35(3~12)G	35	3/4/5/6/8/10/12	6	16	120
YJT40(3~12)G	40	3/4/5/6/8/10/12	6	25	130
YJT45(3~12)G	45	3/4/5/6/8/10/12	6/8	25	130
YJT50(3~12)G	50	3/4/5/6/8/10/12	8	25	130
YJT60(5~12)G	60	5/6/8/10/12	10	32	130



焊刃式鎢鋼側銑刀/平面刀系列

Welded Carbide Side /
Face Milling Cutter Series





焊刃式鎢鋼側銑刀 / 平面刀系列

Welded Carbide Side / Face Milling Cutter Series

適用材料：

平面刀 - 泛用鑄 / 鐵件平面粗銑 / 精銑 / 倒拉鉤加工用。

側銑刀 - 泛用鑄 / 鐵件平面粗銑 / 精銑 / 逃溝加工用。

主要特性：

刀刃可分直刃、千鳥刃，刀片材質一般分 K、P 二種，尺寸皆可依客戶需求訂製。

Application:

Face Milling cutter :

For Cast Irons / Irons, this series can carry on face roughing, finishing or under cutting.

Side Milling cutter :

For Cast Irons / Irons, this series can carry on face roughing, finishing or fluting.

Main Character:

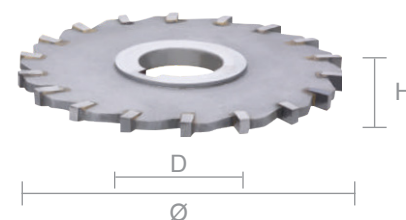
Blade types : Straight / Staggered teeth. Blade materials : K/ P. We can offer customized services also.



YJS-T

焊刃式鎢鋼側銑刀 - 直刃

Welded Carbide Side Milling Cutter-Straight Teeth

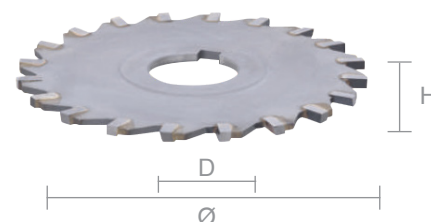


產品編碼 Item code	外徑 Outside Diameter (Ø)	刃高 Flute Length (H)	孔徑 Hole Diameter (D)	刃數 Flute	材質 Blade Level
YJS075T(3~16)	75	3/4/5/6/8/10/12/16	25.4	14	K/P
YJS100T(3~16)	100	3/4/5/6/8/10/12/16	25.4	18	K/P
YJS125T(3~16)	125	3/4/5/6/8/10/12/16	25.4	20	K/P
YJS150T(3~12)	150	3/4/5/6/8/10/12	25.4	22	K/P
YJS175T(3~12)	175	3/4/5/6/8/10/12	25.4	24	K/P
YJS200T(3~12)	200	3/4/5/6/8/10/12	25.4	28	K/P

YJS-G

焊刃式鎢鋼側銑刀 - 千鳥刃

Welded Carbide Side Milling Cutter-Staggered Teeth



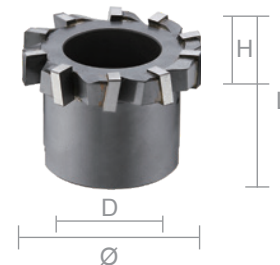
產品編碼 Item code	外徑 Outside Diameter (Ø)	刃高 Flute Length (H)	孔徑 Hole Diameter (D)	刃數 Flute	材質 Blade Level
YJS075G(3~16)	75	3/4/5/6/8/10/12	25.4	14	K/P
YJS100G(3~16)	100	3/4/5/6/8/10/12	25.4	18	K/P
YJS125G(3~16)	125	3/4/5/6/8/10/12	25.4	20	K/P
YJS150G(3~12)	150	3/4/5/6/8/10/12	25.4	22	K/P
YJS175G(3~12)	175	6/8/10/12	25.4	24	K/P
YJS200G(3~12)	200	6/8/10/12	25.4	28	K/P



YJFM

焊刃式鎢鋼平面刀 - 千鳥刃

Welded Carbide Face Milling Cutters-Staggered Teeth

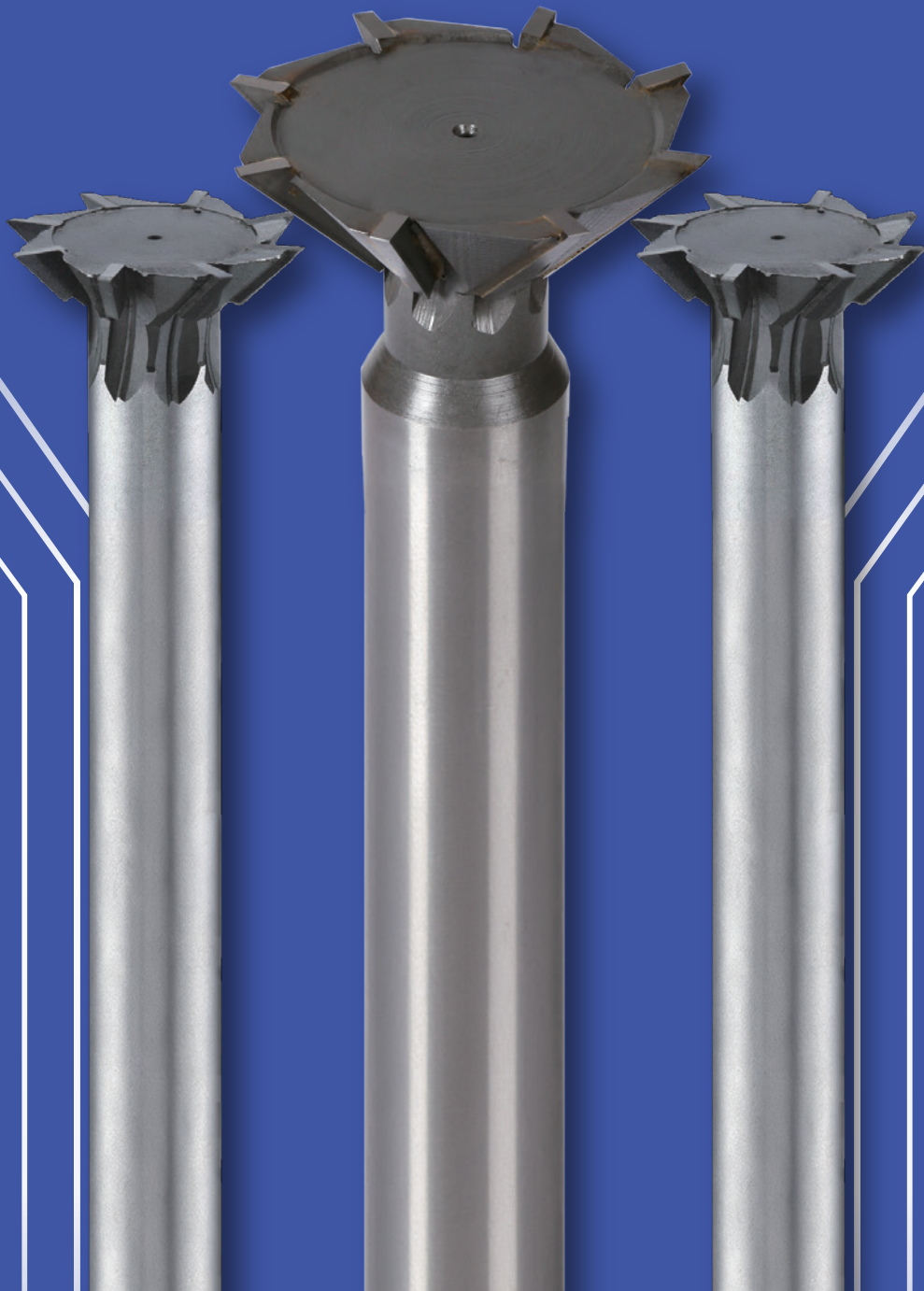


產品編碼 Item code	外徑 Outside Diameter (Ø)	刃長 Flute Length (H)	孔徑 Hole Diameter (D)	刃數 Flute	全長 Overall Length (L)
YJFM075G	75	15	25.4	10	55
YJFM080G	80	15	31.75	10	55
YJFM100G	100	15	31.75	12	60
YJFM130G	130	15	31.75	16	60
YJFM150G	150	15	31.75	18	60
YJFM180G	180	15	31.75	20	60



焊刃式鎢鋼鳩尾刀系列

Welded Carbide Angle Milling Cutter Series





焊刃式鎢鋼鳩尾刀系列

Welded Carbide Angle Milling Cutter Series

適用材料：

泛用於鑄 / 鐵件平面精銑或逃溝用。

主要特性：

刀刃可分直刃、千鳥刃，刀片材質一般分 K、P 二種，尺寸皆可依客戶需求訂製。

Application:

For Cast Irons / Irons, this series can be carry on face finishing or fluting.

Main Character:

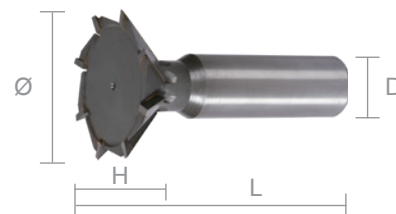
Blade types: Straight / Staggered teeth. Blade materials: K/ P. We can offer customized services also.



YJASD45

焊刃式鎢鋼附柄鳩尾刀 - 45°

Welded Carbide Angle Milling Cutters with Shank - 45°

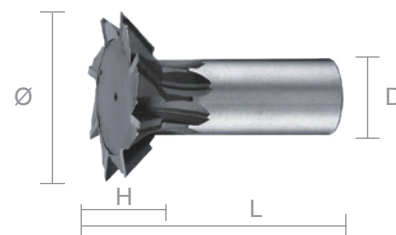


產品編碼 Item code	外徑 Outside Diameter (Ø)	刀高 Flute Length (H)	柄徑 Hole Diameter (D)	刀數 Flute	全長 Overall Length (L)
YJA20SD45	20	5.5	12	4	90
YJA25SD45	25	7	12	4	90
YJA30SD45	30	8.5	16	4	100
YJA35SD45	35	9.5	16	4	100
YJA40SD45	40	11.5	20	6	100
YJA45SD45	45	13	25	6	120
YJA50SD45	50	15	25	6	120
YJA55SD45	55	15	32	6	120
YJA60SD45	60	19	32	6	120
YJA75SD45	75	24	32	8	130

YJASD60

焊刃式鎢鋼附柄鳩尾刀 - 60°

Welded Carbide Angle Milling Cutters with Shank - 60°

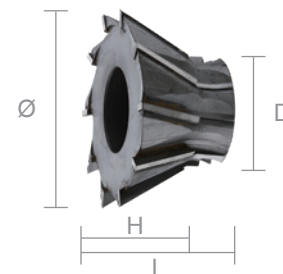


產品編碼 Item code	外徑 Outside Diameter (Ø)	刀高 Flute Length (H)	柄徑 Hole Diameter (D)	刀數 Flute	全長 Overall Length (L)
YJA20SD60	20	7.5	12	4	90
YJA25SD60	25	10.5	12	4	90
YJA30SD60	30	13.5	16	4	100
YJA35SD60	35	16.5	16	4	100
YJA40SD60	40	16.5	20	6	100
YJA45SD60	45	19.5	25	6	120
YJA50SD60	50	22	25	6	120
YJA55SD60	55	24.5	32	6	120
YJA60SD60	60	28	32	6	120
YJA75SD60	75	34	32	8	130

YJAD45

焊刃式鎢鋼鳩尾刀 - 45°

Welded Carbide Angle Milling Cutters - 45°

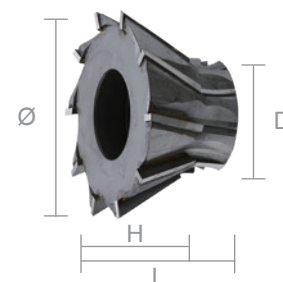


產品編碼 Item code	外徑 Outside Diameter (Ø)	刀長 Flute Length (H)	孔徑 Hole Diameter (D)	刃數 Flute	全長 Overall Length (L)
YJA075D45	75	30	25.4	8	50
YJA080D45	80	30	25.4	8	50
YJA100D45	100	40	31.75	10	60
YJA125D45	125	50	31.75	10	70
YJA150D45	150	55	31.75	12	75

YJAD60

焊刃式鎢鋼鳩尾刀 - 60°

Welded Carbide Angle Milling Cutters - 60°

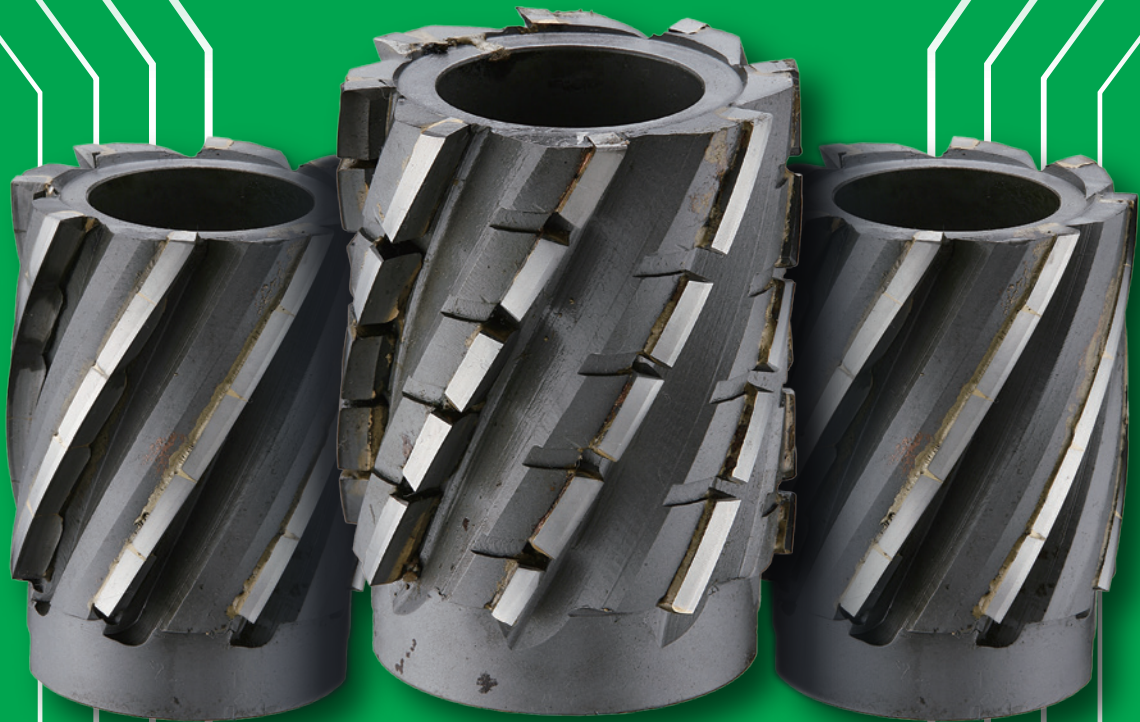


產品編碼 Item code	外徑 Outside Diameter (Ø)	刀高 Flute Length (H)	孔徑 Hole Diameter (D)	刃數 Flute	材質 Blade Level
YJA075D60	75	30	25.4	8	50
YJA080D60	80	30	25.4	8	50
YJA100D60	100	40	31.75	10	60
YJA125D60	125	50	31.75	10	70
YJA150D60	150	55	31.75	12	75



焊刃式鎢鋼筒刀系列

Welded Carbide Tube Type
Milling Cutter Series





焊刃式鎢鋼筒刀系列

Welded Carbide Tube Type Milling Cutter Series

適用材料：

泛用於鑄 / 鐵件於側向 / 臥式加工用，可用於平面加工。

主要特性：

刀片材質一般分 K、P 二種尺寸，皆可依客戶需求訂製。

Application:

For Cast Irons / Irons this series can be used on side / horizontal / face milling process.

Main Character:

Blade materials: K / P. We can offer customized services also.



YJFAR

焊刃式鎢鋼粗筒刀

Welded Carbide Tube Type Roughing Milling Cutters

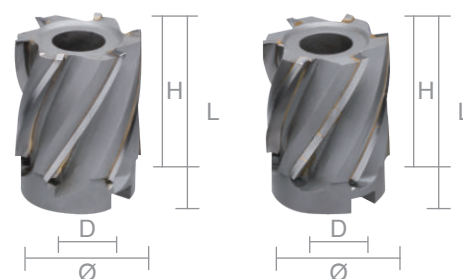


產品編碼 Item code	外徑 Outside Diameter (\varnothing)	刃高 Flute Length (H)	孔徑 Hole Diameter (D)	刃數 Flute	全長 Overall Length (L)
YJF50AR	50	50	25.4	6	70
YJF50ARL	50	80	25.4	6	95
YJF60AR	60	60	25.4 / 31.75	6	80
YJF60ARL	60	80	25.4 / 31.75	6	95
YJF60ARM	60	100	25.4 / 31.75	6	115
YJF75AR	75	75	31.75	8	95
YJF75ARL	75	100	31.75	8	115

YJFAF / YJFAF-TL

焊刃式鎢鋼精筒刀 / 密接筒刀

Welded Carbide Tube Type Fine/Tightlock Blades Milling Cutters

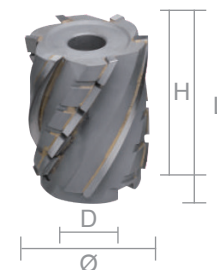


產品編碼 Item code		外徑 Outside Diameter (\varnothing)	刃高 Flute Length (H)	孔徑 Hole Diameter (D)	刃數 Flute	全長 Overall Length (L)
精筒刀 Fine	密接筒刀 Tightlock Blades					
YJF50AF	YJF50AF-TL	50	50	25.4	6	70
YJF50AFL	YJF50AFL-TL	50	80	25.4	6	95
YJF60AF	YJF60AF-TL	60	60	25.4/31.75	6	80
YJF60AFL	YJF60AFL-TL	60	80	25.4/31.75	6	95
YJF60AFM	YJF60AFM-TL	60	100	25.4/31.75	6	115
YJF75AF	YJF75AF-TL	75	75	31.75	8	95
YJF75AFL	YJF75AFL-TL	75	100	31.75	8	115

YJFAS

焊刃式鎢鋼半精半粗筒刀

Welded Carbide Tube Type Semi-Roughing Milling Cutters

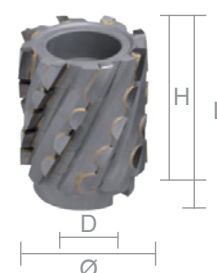


產品編碼 Item code	外徑 Outside Diameter (Ø)	刃高 Flute Length (H)	孔徑 Hole Diameter (D)	刃數 Flute	全長 Overall Length (L)
YJF50AS	55	50	25.4	6	70
YJF60AS	65	65	25.4/31.75	6	85
YJF60ASL	65	75	25.4/31.75	6	95
YJF75AS	75	75	31.75	8	95
YJF75ASL	75	100	31.75	8	115

YJFAM

焊刃式鎢鋼半月粗筒刀

Welded Carbide Tube Type Semi-Circular Blades Roughing Milling Cutters



產品編碼 Item code	外徑 Outside Diameter (Ø)	刃高 Flute Length (H)	孔徑 Hole Diameter (D)	刃數 Flute	全長 Overall Length (L)
YJF60AM	65	75	31.75	6	90
YJF75AM	75	75	31.75	8	90
YJF75AML	75	100	31.75	8	115



焊刃式鎢鋼倒角刀系列 焊刃式鎢鋼中心鑽系列

Welded Carbide Chamfers-60° / 90°
Welded Carbide Spotting Drills





焊刃式鎢鋼倒角刀系列 焊刃式鎢鋼中心鑽系列

Welded Carbide Chamfers-60° / 90°
Welded Carbide Spotting Drills

適用材料：

泛用材料有調質 / 高週波 / 滲碳鋼，倒角或鑽孔前引孔，避免鑽孔時偏位。

主要特性：

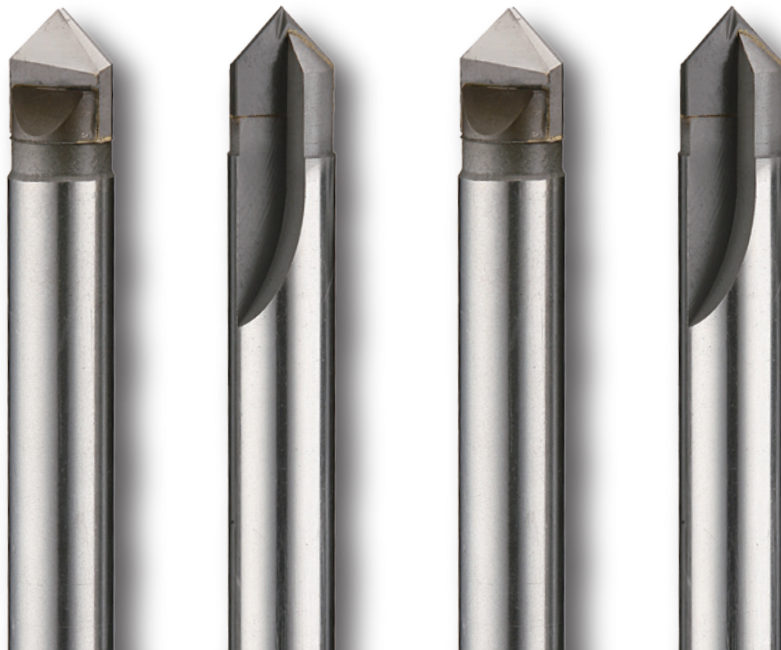
刀片材質一般分 K、P 二種，尺寸皆可依客戶需求訂製。

Application:

For hardened / high frequency / carbon steels, this series can carry on chamfering and guiding the hole to avoid the offset.

Main Character:

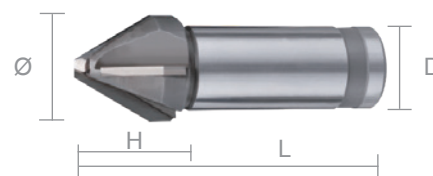
Blade materials: K/ P. We can offer customized services also.



YJCD60

焊刃式鎢鋼倒角刀 - 60°

Welded Carbide Chamfers - 60°

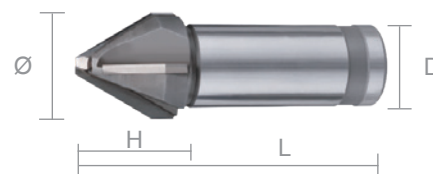


產品編碼 Item code	小徑 First Diameter (Ø)	外徑 Outside Diameter (Ø)	刃高 Flute Length (H)	刃數 Flute	柄徑 Shank Diameter (D)	全長 Overall Length (L)
YJC20D60	6	20	12.12	2	16	90
YJC25D60	6	25	16.45	2	20	110
YJC30D60	6	30	20.78	2	25	110
YJC35D60	8	35	23.38	2	25	120
YJC40D60	8	40	27.71	4	32	120
YJC45D60	8	45	32.04	4	32	130
YJC50D60	8	50	36.37	4	32	130
YJC55D60	8	55	40.7	4	32	140
YJC60D60	8	60	45.03	4	32	140

YJCD90

焊刃式鎢鋼倒角刀 - 90°

Welded Carbide Chamfers - 90°



產品編碼 Item code	小徑 First Diameter (Ø)	外徑 Outside Diameter (Ø)	刃高 Flute Length (H)	刃數 Flute	柄徑 Shank Diameter (D)	全長 Overall Length (L)
YJC20D90	3	20	8.5	2	16	90
YJC25D90	4	25	10.33	2	16/20	90
YJC30D90	4	30	13	2	25	100
YJC35D90	5	35	15	2	25	100
YJC40D90	5	40	17.5	4	32	110
YJC45D90	5	45	20	4	32	110
YJC50D90	5	50	22.5	4	32	110
YJC55D90	5	55	25	6	32	110
YJC60D90	6	60	27	6	32	120

YJSDF

焊刃式鎢鋼中心鑽 - (一片式)

Welded Carbide Spotting Drills-One Piece



產品編碼 Item code	外徑 Outside Diameter (Ø)	柄徑 Shank Diameter (D)	全長 Overall Length (L1)
YJSDF10	10	10	200
YJSDF12	12	12	200
YJSDF16	16	16	200
YJSDF20	20	20	200
YJSDF25	25	25	200

YJSDE

焊刃式鎢鋼中心鑽 - (鑽尾頭)

Welded Carbide Side Milling Cutter-Staggered Teeth



產品編碼 Item code	外徑 Outside Diameter (Ø)	柄徑 Shank Diameter (D)	全長 Overall Length (L1)
YJSDE10	10	10	200
YJSDE12	12	12	200
YJSDE16	16	16	200
YJSDE20	20	20	200
YJSDE25	25	25	200



切削數據表

Cutting Speed Specifications





微小徑平刀 - 2 刃

Micro Diameter Square End Mills - 2 Flutes

被切削材 Work Material	SS,SC,FC 結構鋼·碳素鋼·鑄鐵 Structural Steels, Carbon Steels, Cast Irons HB 150~250		SCM, NAK, HPM 合金鋼·預硬化鋼 Alloy Steels, Pre-hardened Steels HRC 25~35		調質鋼·淬火鋼 Hardened Steels HRC 40~50	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
0.2	32000	130	32000	120	32000	100
0.3	32000	190	32000	170	24000	120
0.4	32000	260	29000	210	18000	120
0.5	29000	290	23000	210	14000	110
0.6	27000	320	21000	230	13000	120
0.8	20000	320	16000	230	10000	130
側銑 ap	1.0D		1.0D		1.0D	
側銑 ae	0.05D (D<1) 0.1.0D (D ≥ 1)		0.05D (D<1) 0.1.0D (D ≥ 1)		0.05D	
溝銑 ap	0.3D (D<1) 0.5D (D ≥ 1)		0.3D (D<1) 0.5D (D ≥ 1)		0.2D	

被切削材 Work Material	SUS 304,316 不銹鋼 Stainless Steels		耐熱合金·鈦合金 Nickel Alloys, Titanium Alloys HRC 20~45	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min
0.2	32000	90	19000	30
0.3	29000	120	14000	30
0.4	21000	120	11000	30
0.5	17000	120	8600	30
0.6	16000	130	8000	40
0.8	12000	130	6000	40
側銑 ap	1.0D		1.0D	
側銑 ae	0.05D (D<1) 0.1.0D (D ≥ 1)		0.05D (D<1) 0.1.0D (D ≥ 1)	
溝銑 ap	0.3D		0.1.0D	



長頸短刃平刀 - 2 刃

Long Neck Short Flute Square End Mills - 2 Flutes

被切削材 Work Material		SS,SC 碳素鋼・合金鋼 Carbon Steels, Alloy Steels HB 150~250		SUS 不銹鋼・模具鋼 Stainless Steels, Mold Steels HRC 25~35		NAK 預硬化鋼 Pre-hardened Steels HRC 35~45		淬火鋼 Hardened Steels HRC 45~55	
刀徑 Mill Diameter	有效長度 Effective Length	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
		min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
0.3	1	50000	500	50000	450	50000	400	42000	300
0.3	2	50000	500	50000	450	50000	400	42000	300
0.3	3	50000	500	50000	450	45000	400	42000	300
0.4	2	50000	750	50000	680	50000	560	34000	340
0.4	3	50000	750	50000	680	50000	560	34000	340
0.4	4	50000	750	50000	680	35000	560	34000	340
0.5	2	50000	900	43000	770	30000	450	25000	320
0.5	4	50000	900	43000	770	30000	450	25000	320
0.5	6	48000	860	41000	730	29000	430	24000	300
0.6	2	50000	1000	43000	850	30000	500	25000	350
0.6	4	50000	1000	43000	850	30000	500	25000	350
0.6	6	42000	840	36000	710	25000	420	21000	290
0.6	8	20000	640	27000	540	19000	320	16000	220
0.7	2	45000	990	38000	840	27000	500	23000	350
0.7	4	45000	990	38000	840	27000	500	23000	350
0.7	6	36000	790	31000	670	22000	400	18000	280
0.7	8	36000	790	31000	670	22000	400	18000	280
0.7	10	28000	620	24000	530	17000	310	14000	220
0.8	4	40000	1000	34000	850	24000	500	20000	350
0.8	6	40000	1000	34000	850	24000	500	20000	350
0.8	8	32000	800	27000	680	19000	400	16000	280
0.8	10	24000	600	20000	510	14000	300	12000	210
0.8	12	24000	600	20000	510	14000	300	12000	210
0.9	6	36000	1190	31000	1010	22000	600	18000	420
0.9	8	30000	990	26000	840	18000	500	15000	350
0.9	10	30000	990	26000	840	18000	500	15000	350
1	4	32000	1280	27000	900	22000	640	11000	300
1	6	32000	1280	27000	900	22000	640	11000	300
1	8	32000	1280	27000	900	22000	640	11000	300
1	10	26000	1040	22000	730	18000	520	9000	250
1	12	26000	1040	22000	730	18000	520	9000	250



長頸短刃平刀 - 2 刃

Long Neck Short Flute Square End Mills - 2 Flutes

被切削材 Work Material		SS,SC 碳素鋼・合金鋼 Carbon Steels, Alloy Steels HB 150~250		SUS 不銹鋼・模具鋼 Stainless Steels, Mold Steels HRC 25~35		NAK 預硬化鋼 Pre-hardened Steels HRC 35~45		淬火鋼 Hardened Steels HRC 45~55	
刀徑 Mill Diameter	有效長度 Effective Length	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
		min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
1.5	6	21000	1130	18000	790	15000	570	7000	300
1.5	8	21000	1130	18000	790	15000	570	7000	300
1.5	10	21000	1130	18000	790	15000	570	7000	300
1.5	12	21000	1130	18000	790	15000	570	7000	300
1.5	14	17000	920	14000	640	12000	460	6000	260
1.5	16	17000	920	14000	640	12000	460	6000	260
1.5	18	17000	920	14000	640	12000	460	6000	260
1.5	20	12800	690	11000	480	9000	350	6000	260
2	6	16000	1120	14000	780	11000	560	6000	360
2	8	16000	1120	14000	780	11000	560	6000	360
2	10	16000	1120	14000	780	11000	560	6000	360
2	12	16000	1120	14000	780	11000	560	6000	360
2	14	16000	1120	14000	780	11000	560	6000	360
2	16	16000	1120	14000	780	11000	560	6000	360
2	18	12000	840	10000	590	8000	420	5000	300
2	20	12000	840	10000	590	8000	420	5000	300
3	8	11000	1760	9000	1230	8000	880	4000	450
3	10	11000	1760	9000	1230	8000	880	4000	450
3	12	11000	1760	9000	1230	8000	880	4000	450
3	14	11000	1760	9000	1230	8000	880	4000	450
3	16	11000	1760	9000	1230	8000	880	4000	450
3	18	11000	1760	9000	1230	8000	880	4000	450
3	20	11000	1760	9000	1230	8000	880	4000	450
3	25	8000	1280	7000	900	6000	640	3000	330
4	12	8000	1440	7000	1010	6000	720	3000	420
4	20	8000	1440	7000	1010	6000	720	3000	420
4	25	8000	1440	7000	1010	6000	720	3000	420



平刀 -2 刃

Square End Mills - 2 Flutes

被切削材 Work Material	SS,SC,FC 結構鋼・碳素鋼・鑄鐵 Structural Steels, Carbon Steels,Cast Irons HB 150~250		SCM,NAK,HPM 合金鋼・預硬化鋼 Alloy Steels, Pre-hardened Steels HRC 25~35		調質鋼・淬火鋼 Hardened Steels HRC 25~35	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
2	11200	340	1050	240	7300	130
4	6400	460	6000	320	4200	180
6	4600	550	4300	390	3000	210
8	3400	550	3200	390	2200	210
10	2800	560	2600	390	1800	210
12	2300	560	2200	400	1500	210
16	1700	450	1600	320	1100	180
20	1350	380	1300	280	900	160
側銑 ap	1.5D		1.5D		1.5D	
側銑 ae	0.1.0D		0.1.0D		0.05D	
側銑 ap	0.5D		0.5D		0.3D	

被切削材 Work Material	淬火鋼 Hardened Steels HRC 25~35		SUS 304,316 不銹鋼 Stainless Steels		耐熱合金・鈦合金 Nickel Alloys,Titanium Alloys HRC 20~45	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
2	5300	80	5300	90	3300	50
4	3000	110	3000	130	1900	70
6	2200	130	2200	150	1400	80
8	1600	130	1600	150	1000	80
10	1300	130	1300	150	800	80
12	1100	130	1100	150	700	80
16	800	100	800	110	500	60
20	650	90	650	100	400	50
側銑 ap	1.0D		1.5D		1.0D	
側銑 ae	0.02D		0.1.0D		0.05D	
側銑 ap	0.05D		0.5D		0.05D	



平刀 - 4 刃 (通用條件)

Square End Mills - 4 Flutes (Conventional Condition)

被切削材 Work Material	SS,SC,FC 結構鋼 · 碳素鋼 · 鑄鐵 Structural Steels, Carbon Steels, Cast Irons HB 150~250		SCM,NAK,HPM 合金鋼 · 預硬化鋼 Alloy Steels, Pre-hardened Steels HRC 25~35		調質鋼 · 淬火鋼 Hardened Steels HRC 25~35	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
2	12800	570	12000	380	8300	230
4	6800	730	6400	490	4400	300
6	4600	770	4300	520	3000	320
8	3400	770	3200	520	2200	320
10	2800	780	2600	520	1800	320
12	2300	780	2200	530	1500	320
16	1700	650	1600	420	1100	280
20	1350	600	1300	380	900	260
側銑 ap	1.5D		1.5D		1.5D	
側銑 ae	0.1D		0.1D		0.05D	
溝銑 ap	0.5D		0.5D		0.2D	

被切削材 Work Material	淬火鋼 Hardened Steels HRC 25~35		SUS 304,316 不銹鋼 Stainless Steels		耐熱合金 · 鈦合金 Nickel Alloys, Titanium Alloys HRC 20~45	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
2	6000	150	6000	130	3700	70
4	3200	200	3200	170	2000	90
6	2200	210	2200	180	1400	100
8	1600	210	1600	180	1000	100
10	1300	210	1300	180	800	100
12	1100	210	1100	180	700	100
16	800	170	800	150	500	80
20	650	150	650	140	400	75
側銑 ap	1.0D		1.5D		1.0D	
側銑 ae	0.02D		0.1D		0.05D	
溝銑 ap	0.05D		0.3D		0.1D	



平刀 - 4 刃 (高速條件)

Square End Mills - 4 Flutes (High Speed Condition)

被切削材 Work Material	SS,SC,FC 結構鋼・碳素鋼・鑄鐵 Structural Steels, Carbon Steels, Cast Irons HB 150~250		SCM,NAK,HPM 合金鋼・預硬化鋼 Alloy Steels, Pre-hardened Steels HRC 25~35		調質鋼・淬火鋼 Hardened Steels HRC 25~35		淬火鋼 Hardened Steels HRC 45~55		SUS 304,316 不銹鋼 Stainless Steels		
	刀徑 Mill Diameter	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
		min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
2	47800	2200	47800	1600	39800	1200	31800	900	15900	400	
4	23900	2600	23900	1900	19900	1400	15900	1100	8000	490	
6	16000	2700	16000	2000	13300	1500	10600	1200	5300	510	
8	12000	2700	12000	2000	10000	1500	8000	1200	4000	520	
10	9600	2700	9600	2000	8000	1500	6400	1200	3200	520	
12	8000	2700	8000	2000	6700	1500	5300	1200	2700	520	
16	6000	2200	6000	1600	5000	1200	4000	900	2000	450	
20	4800	2000	4800	1400	4000	1100	3200	750	1600	380	
側銑 ap	1.5D		1.5D		1.5D		1.0D		1.5D		
側銑 ae	0.05D		0.05D		0.05D		0.02D		0.05D		

長刃型平刀

Long Flute Square End Mills

被切削材 Work Material	SS,SC,FC 結構鋼・碳素鋼・鑄鐵 Structural Steels, Carbon Steels, Cast Irons HB 150~250		SCM,NAK,HPM 合金鋼・預硬化鋼 Alloy Steels, Pre-hardened Steels HRC 25~35		調質鋼・淬火鋼 Hardened Steels HRC 25~35		SUS 304,316 不銹鋼 Stainless Steels		耐熱合金・鈦合金 Nickel Alloys, Titanium Alloys HRC 20~45		
	刀徑 Mill Diameter	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
		min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
2	8500	370	5500	210	4000	180	5500	160	2600	60	
4	6600	400	4500	220	3000	190	4000	160	2000	60	
6	4800	480	3000	240	2500	190	3000	240	1200	60	
8	3600	500	2200	300	2000	200	2000	260	1000	70	
10	2800	500	1800	300	1500	200	1700	270	800	80	
12	2400	470	1500	270	1200	190	1500	250	700	70	
16	1800	320	1100	210	800	150	1000	180	500	60	
20	1400	250	900	160	700	120	820	150	400	50	
側銑 ap	3.0D		3.0D		3.0D		3.0D		3.0D		
側銑 ae	0.05D		0.05D		0.02D		0.05D		0.02D		



長柄型平刀

Long Shank Square End Mills

被切削材 Work Material	SS,SC,FC 結構鋼・碳素鋼・鑄鐵 Structural Steels, Carbon Steels, Cast Irons HB 150~250		SCM,NAK,HPM 合金鋼・預硬化鋼 Alloy Steels, Pre-hardened Steels HRC 25~35		調質鋼・淬火鋼 Hardened Steels HRC 25~35		SUS 304,316 不銹鋼 Stainless Steels		耐熱合金・鈦合金 Nickel Alloys, Titanium Alloys HRC 20~45		
	刀徑 Mill Diameter	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
		min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
2	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	
側銑 ap	1.2D		1.2D		1.2D		1.2D		1.2D		
側銑 ae	0.05D		0.05D		0.1D		0.2D		0.1D		

重切削平刀

Heavy Duty Square End Mills

被切削材 Work Material	SS,SC,FC 結構鋼・碳素鋼・鑄鐵 Structural Steels, Carbon Steels, Cast Irons HB 150~250		SCM,NAK,HPM 合金鋼・預硬化鋼 Alloy Steels, Pre-hardened Steels HRC 25~35		調質鋼・淬火鋼 Hardened Steels HRC 25~35		SUS 304,316 不銹鋼 Stainless Steels		耐熱合金・鈦合金 Nickel Alloys, Titanium Alloys HRC 20~45		
	刀徑 Mill Diameter	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
		min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
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	
側銑 ap	1.5D		1.5D		1.5D		1.5D		1.0D		
側銑 ae	0.1D		0.1D		0.05D		0.1D		0.05D		
溝銑 ap	1.0D		1.0D		0.2D		0.3D		0.2D		



平刀 - 6 刃 (通用條件)

Square End Mills - 6 Flutes (Conventional Condition)

被切削材 Work Material	FC,FCD 鑄鐵 Cast Irons		SUS 304,316 不銹鋼 Stainless Steels		SC,SKD 低硬度鋼·碳素鋼·模具鋼 Carbon Steels, Alloy Steels HRC ~35		SC,NAK,SKD 中硬度鋼·預硬化鋼·模具鋼 Pre-hardened Steels,Mold Steels HRC 35~45		高硬度鋼 Hardened Steels HRC 45~55	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
刀徑 Mill Diameter	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
4	8000	1600	2800	180	8000	1600	4000	490	2400	180
5	6200	2000	2200	230	6200	2000	3200	490	1900	220
6	5300	2400	1900	230	5300	2000	2700	490	1600	250
8	4000	2400	1400	230	4000	2000	2000	490	1200	280
10	3200	2400	1100	230	3200	2000	1600	630	1000	300
12	2700	2400	930	300	2700	2100	1300	570	800	350
16	2000	2000	700	270	2000	1900	1100	360	640	220
20	1600	1600	560	240	1600	1600	800	200	480	180
側銑 ap	1.5D		1.5D		1.5D		1.5D		1.5D	
側銑 ae	0.1D		0.1D		0.1D		0.1D		0.05D	
溝銑 ap	0.1D		0.1D		0.1D		0.1D		MAX 0.005	

平刀 - 6 刃 (高速條件)

Square End Mills- 6 Flutes (High Speed Condition)

被切削材 Work Material	SS,SC,FC 結構鋼·碳素鋼·鑄鐵 Structural Steels, Carbon Steels,Cast Irons HB 150~250		SCM,NAK,HPM 合金鋼·預硬化鋼 Alloy Steels,Pre-hardened Steels HRC 25~35		調質鋼·淬火鋼 Hardened Steels HRC 25~35	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
刀徑 Mill Diameter	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
4	24000	4800	24000	4600	24000	3200
5	19200	6000	19200	5800	19200	4000
6	16000	6000	16000	5800	16000	4000
8	12000	6000	12000	5800	12000	4000
10	10000	6000	10000	5700	9500	4200
12	8000	7600	8000	5300	8000	4600
16	6000	7600	6000	5300	6000	4000
20	5000	7000	5000	5000	4800	3000
側銑 ap	1~1.5D		1~1.5D		1~1.5D	
側銑 ae	0.1D		0.05D		0.02~0.05D	



微小徑球刀 - 2 刃 (通用條件)

Micro Diameter Ball Nose End Mills - 2 Flutes (Conventional Condition)

被切削材 Work Material	SC,FC 碳素鋼 · 鑄鐵 Carbon Steels, Cast Irons HB 150~250		SCM,SKD 合金鋼 · 模具鋼 Alloy Steels, Mold Steels HRC 25~35		NAK 調質鋼 · 預硬化鋼 Hardened Steels, Pre-hardened Steels HRC 30~38	
	球半徑 R Ball Radius	轉速 SPEED min ⁻¹	進給速 FEED mm/min	轉速 SPEED min ⁻¹	進給速 FEED mm/min	轉速 SPEED min ⁻¹
0.1	32000	320	32000	320	32000	300
0.15	32000	480	32000	480	32000	450
0.2	32000	600	32000	600	32000	520
0.25	32000	750	32000	650	32000	620
0.3	32000	900	32000	700	32000	700
0.4	32000	1200	32000	1000	32000	920
0.5	32000	1500	32000	1250	32000	1150
0.75	32000	2200	32000	1600	32000	1700
1	32000	2900	28500	2100	25000	1800
1.5	21000	2900	19000	2100	17000	1800
2	16000	2900	14000	2100	12500	1800
切入量 ap	0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D (R<0.5) 0.1D (R ≥ 0.5)	
切入量 Pf	0.2D		0.2D		0.2D	

被切削材 Work Material	SUS 不銹鋼 · 調質鋼 Stainless Steels, Hardened Steels HRC 38~45		高硬度鋼 Hardened Steels HRC 45~55		高硬度鋼 Hardened Steels HRC 55~60	
	球半徑 R Ball Radius	轉速 SPEED min ⁻¹	進給速 FEED mm/min	轉速 SPEED min ⁻¹	進給速 FEED mm/min	轉速 SPEED min ⁻¹
0.1	32000	250	32000	160	32000	125
0.15	32000	375	32000	240	32000	190
0.2	32000	500	32000	320	32000	255
0.25	32000	600	32000	400	32000	320
0.3	32000	640	32000	480	32000	380
0.4	32000	850	32000	640	25000	400
0.5	32000	1000	32000	800	20000	400
0.75	29500	1400	25500	950	13500	400
1	22000	1400	19000	950	10000	400
1.5	14500	1400	12500	950	6800	400
2	11000	1400	9500	950	5000	400
切入量 ap	0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D	
切入量 Pf	0.2D		0.2D		0.1D	



微小徑球刀 - 2 刃 (高速條件)

Micro Diameter Ball Nose End Mills - 2 Flutes (High Speed Condition)

被切削材 Work Material	SC,FC 碳素鋼 · 鑄鐵 Carbon Steels, Cast Irons HB 150~250		SCM,SKD 合金鋼 · 模具鋼 Alloy Steels, Mold Steels HRC 25~35		NAK 調質鋼 · 預硬化鋼 Hardened Steels, Pre-hardened Steels HRC 30~38	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
0.1	60000	600	60000	600	60000	560
0.15	60000	900	60000	900	60000	840
0.2	60000	1100	60000	1100	60000	1000
0.25	60000	1200	60000	1200	60000	1150
0.3	60000	1400	60000	1400	60000	1300
0.4	60000	1900	60000	1900	60000	1700
0.5	60000	2350	60000	2350	60000	2150
0.75	60000	3000	60000	3000	55000	2900
1	48000	4350	45000	3300	41500	2900
1.5	32000	4350	30000	3300	27500	2900
2	24000	4350	22000	3300	20500	2900
切入量 ap	0.05D		0.05D		0.05D	
切入量 Pf	0.1D		0.1D		0.1D	

被切削材 Work Material	SUS 不銹鋼 · 調質鋼 Stainless Steels, Hardened Steels HRC 38~45		高硬度鋼 Hardened Steels HRC 45~55		高硬度鋼 Hardened Steels HRC 55~60	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
0.1	60000	480	48000	240	48000	180
0.15	60000	700	48000	360	48000	280
0.2	60000	940	48000	480	48000	380
0.25	60000	1100	48000	600	48000	480
0.3	60000	1200	48000	720	48000	570
0.4	60000	1600	48000	960	48000	750
0.5	60000	1900	48000	1200	48000	950
0.75	51000	2400	42500	1600	32000	950
1	38000	2400	32000	1600	24000	950
1.5	25000	2400	21000	1600	16000	950
2	19000	2400	16000	1600	12000	950
切入量 ap	0.05D		0.05D		0.05D	
切入量 Pf	0.1D		0.1D		0.1D	



長頸短刃球刀 - 2 刃

Long Neck Short Flute Ball Nose End Mills - 2 Flutes

被切削材 Work Material		SS,SC 碳素鋼・合金鋼 Carbon Steels, Alloy Steels HB 150~250		SUS 不銹鋼・模具鋼 Stainless Steels, Mold Steels HRC 25~35		NAK 預硬化鋼 Pre-hardened Steels HRC 35~45		淬火鋼 Hardened Steels HRC 45~55	
球半徑 R Ball Radius	有效長度 Effective Length	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
		min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
0.2	2	50000	800	50000	810	50000	640	50000	500
0.2	2.5	50000	800	50000	740	50000	640	50000	500
0.2	3	50000	800	50000	740	50000	640	50000	500
0.2	4	50000	800	50000	740	50000	640	50000	500
0.2	5	48000	400	46000	420	50000	350	50000	500
0.25	2	50000	1100	50000	990	45000	770	32000	500
0.25	4	50000	1100	50000	990	40000	700	29000	450
0.25	5	50000	1100	40000	790	40000	700	29000	450
0.25	6	50000	1100	40000	790	31000	540	29000	450
0.3	2	50000	1300	48000	1110	37000	780	27000	520
0.3	3	50000	1300	46000	1060	35000	740	25000	480
0.3	4	50000	1300	43000	990	33000	700	24000	460
0.3	5	42000	1090	38000	880	30000	630	24000	440
0.3	6	42000	1090	33000	760	26000	550	24000	440
0.4	2	48000	1750	36000	1180	28800	840	20000	500
0.4	4	48000	1750	36000	1180	28800	840	20000	500
0.4	5	40000	1460	30000	980	24000	700	18000	420
0.4	6	40000	1460	30000	980	24000	700	18000	420
0.4	7	32000	1120	24000	780	20000	560	18000	420
0.4	8	32000	1120	24000	780	20000	560	18000	420
0.4	10	24000	840	21000	680	18000	500	16000	380
0.5	3	38000	1710	29000	1160	22800	770	16000	480
0.5	4	38000	1710	29000	1160	22800	770	16000	480
0.5	5	38000	1710	29000	1160	22800	770	16000	480
0.5	6	32000	1440	24000	960	19200	650	14500	435
0.5	7	32000	1440	24000	960	19200	650	14500	435
0.5	8	32000	1440	24000	960	19200	650	14500	435
0.5	9	26000	1170	20000	800	15600	530	14500	435
0.5	10	26000	1170	20000	800	15600	530	13000	390
0.5	12	26000	1170	20000	800	15600	530	13000	390
0.75	8	13200	680	8800	450	22000	1500	16500	1050
0.75	10	13200	680	8800	450	22000	1500	16500	1050
0.75	12	13200	680	8800	450	22000	1500	16500	1050
0.75	14	17000	1160	12750	810	10200	520	6800	350
0.75	16	17000	1160	12750	810	10200	520	6800	350



長頸短刃球刀 - 2 刃

Long Neck Short Flute Ball Nose End Mills - 2 Flutes

被切削材 Work Material		SS,SC 碳素鋼・合金鋼 Carbon Steels, Alloy Steels HB 150~250		SUS 不銹鋼・模具鋼 Stainless Steels, Mold Steels HRC 25~35		NAK 預硬化鋼 Pre-hardened Steels HRC 35~45		淬火鋼 Hardened Steels HRC 45~55	
球半徑 R Ball Radius	有效長度 Effective Length	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
		min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
1	4	19000	1710	14250	1200	11400	770	7600	510
1	6	19000	1710	14250	1200	11400	770	7600	510
1	8	19000	1710	14250	1200	11400	770	7600	510
1	12	16000	1440	12000	1010	9600	650	6400	430
1	14	16000	1440	12000	1010	9600	650	6400	430
1	16	16000	1440	12000	1010	9600	650	6400	430
1	18	12800	1150	9600	810	7680	520	5120	350
1.5	8	12800	2180	9600	1530	7680	980	5120	650
1.5	10	12800	2180	9600	1530	7680	980	5120	650
1.5	16	10600	1800	7950	1260	6360	810	4240	540
1.5	20	10600	1800	7950	1260	6360	810	4240	540
2	10	10000	2200	7500	1540	6000	990	4000	660
2	16	10000	2200	7500	1540	6000	990	4000	660
2	20	10000	2200	7500	1540	6000	990	4000	660
2	25	8000	1760	6000	1230	4800	790	3200	530



球刀 (通用條件)

Ball Nose End Mills (Conventional Condition)

被切削材 Work Material	SC,FC 碳素鋼・鑄鐵 Carbon Steels,Cast Irons HB 150~250		SCM,SKD 合金鋼・模具鋼 Alloy Steels,Mold Steels HRC 25~35		NAK 調質鋼・預硬化鋼 Hardened Steels, Pre-hardened Steels HRC 30~38	
	球半徑 R Ball Radius	轉速 SPEED min ⁻¹	進給速 FEED mm/min	轉速 SPEED min ⁻¹	進給速 FEED mm/min	轉速 SPEED min ⁻¹
0.5	32000	820	32000	620	25000	440
1	16000	920	15000	680	13000	510
2	8000	1000	7600	760	6400	560
3	5300	1000	5100	770	4200	550
5	3200	1000	3100	780	2500	550
8	2000	920	1900	680	1600	510
10	1600	820	1500	600	1300	460
切入量 ap	0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D (R<0.5) 0.1D (R ≥ 0.5)	
切入量 Pf	0.2D		0.2D		0.2D	

被切削材 Work Material	SUS 不銹鋼・調質鋼 Stainless Steels,Hardened Steels HRC 38~45		高硬度鋼 Hardened Steels HRC 45~55		高硬度鋼 Hardened Steels HRC 55~60	
	球半徑 R Ball Radius	轉速 SPEED min ⁻¹	進給速 FEED mm/min	轉速 SPEED min ⁻¹	進給速 FEED mm/min	轉速 SPEED min ⁻¹
0.5	22000	330	19000	240	14000	130
1	11000	380	9600	380	7200	160
2	2600	430	4800	310	3600	170
3	3700	420	3200	310	2400	170
5	2200	420	1900	300	1400	170
8	1400	380	1200	280	900	160
10	1100	330	960	250	720	140
切入量 ap	0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D	
切入量 Pf	0.2D		0.2D		0.1D	



球刀 (高速條件)

Ball Nose End Mills (High Speed Condition)

被切削材 Work Material	SC,FC 碳素鋼 · 鑄鐵 Carbon Steels, Cast Irons HB 150~250		SCM,SKD 合金鋼 · 模具鋼 Alloy Steels, Mold Steels HRC 25~35		NAK 調質鋼 · 預硬化鋼 Hardened Steels, Pre-hardened Steels HRC 30~38	
	球半徑 R Ball Radius	轉速 SPEED min ⁻¹	進給速 FEED mm/min	轉速 SPEED min ⁻¹	進給速 FEED mm/min	轉速 SPEED min ⁻¹
0.5	60000	3600	60000	3600	60000	3000
1	51000	5100	48000	4800	40000	3200
2	25000	5000	24000	4800	20000	3200
3	17000	4100	16000	3800	13000	2900
5	10200	3100	9600	2500	8000	1900
8	6400	1900	6000	1800	5000	1200
10	5100	1600	4800	1400	4000	1000
切入量 ap	0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D (R<0.5) 0.1D (R ≥ 0.5)	
切入量 Pf	0.1D		0.1D		0.1D	

被切削材 Work Material	SUS 不銹鋼 · 調質鋼 Stainless Steels, Hardened Steels HRC 38~45		高硬度鋼 Hardened Steels HRC 45~55		高硬度鋼 Hardened Steels HRC 55~60	
	球半徑 R Ball Radius	轉速 SPEED min ⁻¹	進給速 FEED mm/min	轉速 SPEED min ⁻¹	進給速 FEED mm/min	轉速 SPEED min ⁻¹
0.5	60000	3000	60000	2400	48000	1900
1	37000	3000	35000	2100	24000	1400
2	18000	2500	18000	2200	12000	1400
3	12000	2200	12000	1900	8000	1300
5	7300	1500	7000	1400	4800	960
8	4600	1000	4400	900	3000	600
10	3700	890	3500	700	2400	480
切入量 ap	0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D (R<0.5) 0.1D (R ≥ 0.5)	
切入量 Pf	0.1D		0.05D		0.05D	



圓鼻刀

Corner Radius End Mills

被切削材 Work Material	SS,SC,FC 結構鋼·碳素鋼·鑄鐵 Structural Steels, Carbon Steels, Cast Irons HB 150~250		SCM,NAK,HPM 合金鋼·預硬化鋼 Alloy Steels, Pre-hardened Steels HRC 25~35		調質鋼·淬火鋼 Hardened Steels HRC 40~50		SUS 304,316 不銹鋼 Stainless Steels		耐熱合金·鈦合金 Nickel Alloys, Titanium Alloys HRC 20~45		
	刀徑 Mill Diameter	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
		min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
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	
側銑 ap	1.5D		1.5D		1.5D		1.5D		1.5D		
側銑 ae	0.1D		0.1D		0.05D		0.1D		0.05D		
溝銑 ap	1.0D		1.0D		0.2D		0.3D		0.2D		

長柄型圓鼻刀

Long Shank Corner Radius End Mills

被切削材 Work Material	SS,SC,FC 結構鋼·碳素鋼·鑄鐵 Structural Steels, Carbon Steels, Cast Irons HB 150~250		SCM,NAK,HPM 合金鋼·預硬化鋼 Alloy Steels, Pre-hardened Steels HRC 25~35		調質鋼·淬火鋼 Hardened Steels HRC 40~50		SUS 304,316 不銹鋼 Stainless Steels		耐熱合金·鈦合金 Nickel Alloys, Titanium Alloys HRC 20~45		
	刀徑 Mill Diameter	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
		min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
2	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	
側銑 ap	1.2D		1.2D		1.2D		1.2D		1.2D		
側銑 ae	0.01D		0.01D		0.05D		0.1D		0.05D		
溝銑 ap	0.05D		0.05D		0.1D		0.2D		0.1D		



粗銑刀

Roughing End Mills

溝加工 Grooving

被切削材 Work Material	SS,SC 結構鋼・碳素鋼 Structural Steels, Carbon Steels HB 150~250		FC,FCD 鑄鐵 Cast Irons		SCM,NAK,HPM 合金鋼・預硬化鋼 Alloy Steels, Pre-hardened Steels HRC 25~35	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
6	3700	620	4200	710	3200	380
8	2800	620	3200	710	2400	380
10	2200	620	2600	710	1900	380
12	1900	620	2100	710	1600	380
16	1400	580	1600	660	1200	340
20	1100	540	1300	620	950	300
溝銑 ap	0.7D		0.7D		0.7D	

被切削材 Work Material	淬火鋼 Hardened Steels HRC 45~55		SUS 304,316 不銹鋼 Stainless Steels		耐熱合金・鈦合金 Nickel Alloys, Titanium Alloys HRC 20~45	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
6	1900	200	2700	190	1100	80
8	1400	200	2000	190	800	80
10	1100	200	1600	190	650	80
12	900	200	1300	190	550	80
16	700	180	1000	160	400	60
20	550	160	800	130	320	50
溝銑 ap	0.2D		0.3D		0.2D	



粗銑刀

Roughing End Mills

側面加工 Side Milling

被切削材 Work Material	SS,SC 結構鋼・碳素鋼 Structural Steels, Carbon Steels HB 150~250		FC,FCD 鑄鐵 Cast Irons		SCM,NAK,HPM 合金鋼・預硬化鋼 Alloy Steels, Pre-hardened Steels HRC 25~35	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
6	4800	800	5300	890	4200	510
8	3600	800	4000	890	3200	510
10	2800	800	3200	890	2500	510
12	2400	800	2700	890	2100	510
16	1800	740	2000	830	1600	460
20	1400	740	1600	780	1300	410
側銑 ap	1.5D		1.5D		1.5D	
側銑 ae	0.3D		0.3D		0.3D	
側銑 ap	1.0D		1.0D		1.0D	
側銑 ae	0.7D		0.7D		0.7D	

被切削材 Work Material	淬火鋼 Hardened Steels HRC 45~55		SUS 304,316 不銹鋼 Stainless Steels		耐熱合金・鈦合金 Nickel Alloys, Titanium Alloys HRC 20~45	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
6	2700	290	3200	230	1600	110
8	2000	290	2400	230	1200	110
10	1600	290	1900	230	950	110
12	1300	290	1600	230	800	110
16	1000	250	1200	190	600	110
20	800	220	950	150	480	80
側銑 ap	1.0D		1.5D		1.0D	
側銑 ae	0.02D		0.2D		0.1D	
側銑 ap	0.6D		1.5D		0.6D	
側銑 ae	0.01D		0.02D		0.01D	



鋁銅專用平刀

For Aluminum&Copper Alloy Processing Square End Mills

被切削材 Work Material	1070 鋁材 Aluminum		4032,6061 鋁合金 Si,Mg-Si 類 Aluminum Alloys (Si,Mg-Si)		5052 鋁合金 Mg 類 Aluminum Alloys (Mg)	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
3	32000	800	5300	200	13000	400
5	19200	1000	3200	250	8000	500
6	16000	1000	2650	250	6500	500
8	12000	1000	2000	300	5000	600
10	9600	1200	1600	300	4000	600
12	8000	1200	1300	350	3300	700
16	6000	1200	1000	350	2500	700
20	4800	1200	800	350	2000	700
側銑 ap	1.5D		1.5D		1.5D	
側銑 ae	0.2D		0.2D		0.2D	
溝銑 ap	1.0D		1.0D		1.0D	

被切削材 Work Material	7075 鋁合金 Zn-Mg 類 Aluminum Alloys (Zn-Mg)		AC,ADC 鋁合金鑄件 Aluminum Casting Alloys		C1100 鋁合金 Copper Alloys	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
3	27000	400	16000	500	7900	200
5	16000	500	9600	600	4700	240
6	13500	500	8000	600	3900	240
8	10000	600	6000	700	2900	240
10	8000	600	4800	700	2300	240
12	6600	700	4000	800	1900	280
16	5000	700	3000	800	1400	280
20	4000	700	2400	800	1100	280
側銑 ap	1.5D		1.5D		1.5D	
側銑 ae	0.2D		0.2D		0.2D	
溝銑 ap	1.0D		1.0D		0.5D	



斜度刀

Taper Flute Square End Mills

溝加工 Grooving

被切削材 Work Material	SC,SCM,FC 碳素鋼・合金鋼・鑄鐵 Carbon Steels,Alloy Steels HRC ~30		SK,SCM,NAK,SKD 合金鋼・預硬化鋼 Alloy Steels,Pre-hardened Steels HRC 30~45		調質鋼・淬火鋼 Hardened Steels HRC 45~55	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
1	16000	400	12000	300	10000	100
1.5	10000	400	7500	300	6500	100
2	8000	400	6000	300	5000	100
2.5	6500	400	5000	300	4000	100

斜度刀

Taper Flute Square End Mills

側面加工 Side Milling

被切削材 Work Material	SC,SCM,FC 碳素鋼・合金鋼・鑄鐵 Carbon Steels,Alloy Steels HRC ~30		SK,SCM,NAK,SKD 合金鋼・預硬化鋼 Alloy Steels,Pre-hardened Steels HRC 30~45		調質鋼・淬火鋼 Hardened Steels HRC 45~55	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
3	4200	110	3400	95	2300	60
4	3400	135	2700	110	1800	70
5	2900	170	2300	135	1500	80
6	2500	200	2000	170	1300	100
8	1900	220	1500	170	1000	100
10	1600	220	1300	170	800	100



斜度球刀

Taper Flute Ball Nose End Mills

被切削材 Work Material	SK,SCM,NAK,SKD 合金鋼・預硬化鋼 Alloy Steels,Pre-hardened Steels HRC ~40			
	$\alpha \leq 15^\circ$		$\alpha > 15^\circ$	
先端徑 R Taper First Radius	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min
0.5	40000	8000	40000	3200
0.75	40000	9600	40000	4000
1	40000	9600	39000	4700
1.5	40000	12000	27000	4300
2	32000	11000	20000	3600
2.5	25000	9000	16000	2900
3	21000	8400	13000	2600
4	16000	6400	10000	2000
5	13000	5200	8000	1700
6	9000	3600	6000	1300

被切削材 Work Material	調質鋼・淬火鋼 Hardened Steels HRC 45~55			
	$\alpha \leq 15^\circ$		$\alpha > 15^\circ$	
先端徑 R Taper First Radius	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min
0.5	40000	7500	40000	3000
0.75	40000	9000	32000	3200
1	40000	9000	31000	3500
1.5	32000	7700	22000	3400
2	25000	8000	16000	2700
2.5	20000	7200	13000	2300
3	17000	6300	10000	2000
4	13000	4800	8000	1500
5	10000	3900	6400	1200
6	7200	2700	4800	1000



長斜頸球刀 (通用條件)

Long Taper Neck Ball Nose End Mills (Conventional Condition)

被切削材 Work Material	SC,FC 碳素鋼・鑄鐵 Carbon Steels,Cast Irons HB 150~250		SCM,SKD 合金鋼・模具鋼 Alloy Steels,Mold Steels HRC 25~35		NAK 調質鋼・預硬化鋼 Hardened Steels, Pre-hardened Steels HRC 30~38		
	球半徑 R Ball Radius	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
		min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
0.5	32000	820	31000	620	25000	440	
1	16000	920	15000	680	13000	510	
2	8000	1000	7600	760	6400	560	
3	5300	1000	5100	770	4200	550	
5	3200	1000	3100	780	2500	550	
8	2000	920	1900	680	1600	510	
10	1600	820	1500	600	1300	460	
切入量 ap	0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D (R<0.5) 0.1D (R ≥ 0.5)		
切入量 Pf	0.2D		0.2D		0.2D		

被切削材 Work Material	SUS 不銹鋼・調質鋼 Stainless Steels,Hardened Steels HRC 38~45		高硬度鋼 Hardened Steels HRC 45~55		高硬度鋼 Hardened Steels HRC 55~60		
	球半徑 R Ball Radius	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
		min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
0.5	22000	330	19000	240	14000	130	
1	11000	380	9600	380	7200	160	
2	2600	430	4800	310	3600	170	
3	3700	420	3200	310	2400	170	
5	2200	420	1900	300	1400	170	
8	1400	380	1200	280	900	160	
10	1100	330	960	250	720	140	
切入量 ap	0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D		
切入量 Pf	0.2D		0.2D		0.1D		



長斜頸球刀 (高速條件)

Long Taper Neck Ball Nose End Mills (High Speed Condition)

被切削材 Work Material	SC,FC 碳素鋼 · 鑄鐵 Carbon Steels, Cast Irons HB 150~250		SCM,SKD 合金鋼 · 模具鋼 Alloy Steels, Mold Steels HRC 25~35		NAK 調質鋼 · 預硬化鋼 Hardened Steels, Pre-hardened Steels HRC 30~38		
	球半徑 R Ball Radius	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
		min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
0.5	60000	3600	60000	3600	60000	3000	
1	51000	5100	48000	4800	40000	3200	
2	25000	5000	24000	4800	20000	3200	
3	17000	4100	16000	3800	13000	2900	
5	10200	3100	9600	2500	8000	1900	
8	6400	1900	6000	1800	5000	1200	
10	5100	1600	4800	1400	4000	1000	
切入量 ap	0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D (R<0.5) 0.1D (R ≥ 0.5)		
切入量 Pf	0.1D		0.1D		0.1D		

被切削材 Work Material	SUS 不銹鋼 · 調質鋼 Stainless Steels, Hardened Steels HRC 38~45		高硬度鋼 Hardened Steels HRC 45~55		高硬度鋼 Hardened Steels HRC 55~60		
	球半徑 R Ball Radius	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
		min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
0.5	60000	3000	60000	2400	48000	1900	
1	37000	3000	35000	2100	24000	1400	
2	18000	2500	18000	2200	12000	1400	
3	12000	2200	12000	1900	8000	1300	
5	7300	1500	7000	1400	4800	960	
8	4600	1000	4400	900	3000	600	
10	3700	890	3500	700	2400	480	
切入量 ap	0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D (R<0.5) 0.1D (R ≥ 0.5)		0.05D (R<0.5) 0.1D (R ≥ 0.5)		
切入量 Pf	0.1D		0.05D		0.05D		



外角 R 刀 - 4 刃

Corner Rounding Cutters - 4 Flutes

被切削材 Work Material	SS,SC 結構鋼·碳素鋼 Structural Steels, Carbon Steels HRC ~20		SCM,NAK,HPM 合金鋼·預硬化鋼 Alloy Steels, Pre-hardened Steels HRC 25~35		調質鋼·淬火鋼 Hardened Steels HRC 40~50		FC 鑄鐵 Cast Irons		耐熱合金·鈦合金 Nickel Alloys, Titanium Alloys	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
0.5-1.5	1300	100	900	70	700	50	1400	150	2800	350
2.0-4.0	900	100	600	65	500	45	1000	130	2000	350
4.5-5.0	700	100	400	60	400	40	800	130	1600	350
6	550	100	300	60	350	40	650	130	1300	350
切入量 ap	0.5-1.5(0.5↓) ; 2.0-4.0(0.6↓) ; 4.5-5.0(0.6↓) ; 6.0(0.8↓)									

定位鑽 - 60° / 90° / 120°

NC Spotting Drills - 60° / 90° / 120°

被切削材 Work Material	SS,SC,FC 結構鋼·碳素鋼·鑄鐵 Structural Steels, Carbon Steels, Cast Irons HB 150~250		SCM,NAK,HPM 合金鋼·預硬化鋼 Alloy Steels, Pre-hardened Steels HRC 30~45		SUS 304,316 不銹鋼 Stainless Steels		調質鋼·淬火鋼 Hardened Steels HRC 40~50	
	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED	轉速 SPEED	進給速 FEED
	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
2	16000	960	11000	590	9500	460	8000	320
4	8000	480	5600	300	4800	230	4000	160
6	5300	320	3700	200	3200	150	2700	110
8	4000	240	2800	150	2400	120	2000	80
10	3200	190	2200	120	1900	90	1600	60
12	2700	160	1900	100	1600	80	1300	50