威銓科技有限公司
WEY JUAN TECHNOLOGY CO., LTD.



精密切削刀具專業製造

Precision Cutting Tools
Professional Manufacturing

www.wj-tool.com

威銓科技有限公司 WEY JUAN TECHNOLOGY CO., LTD.

2023

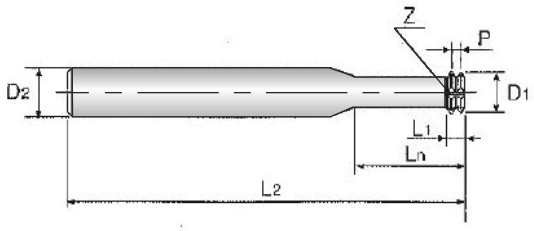
螺紋銑牙刀
Solid Carbide Miniature Thread Mill

Super MG | 0.4 µm | 30° | S type | HRC ▶60 | TIX18



High Speed Cutting
& High Hard Cutting

CMT



Micro Diameter

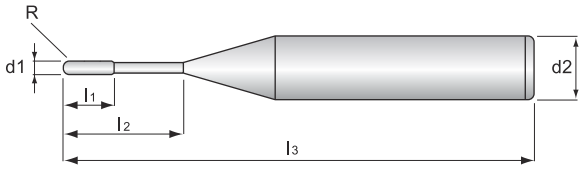
Type No. 型 號	Nominal Diameter [D] 直 徑	Pitch 螺紋間距	Cutter Diameter 刃 徑	Shank Diameter 柄 徑	Thread Length 有效長	Neck Length 頸 長	Over All Length 全 長	No. of Flute 刃 數
		P	D1	D2	L1	Ls	L2	Z
CMT M2	M2	0.4	1.52	6	0.8	4.2	57	4
CMT M2.2	M2.2	0.45	1.66	6	0.9	4.6	57	4
CMT M2.5	M2.5	0.45	1.96	6	0.9	5.3	57	4
CMT M3	M3	0.5	2.4	6	1	6.3	57	4
CMT M4	M4	0.7	3.16	6	1.4	8.4	57	4
CMT M5	M5	0.8	4.04	6	1.6	10.5	57	4
CMT M6	M6	1	4.8	6	2	12.6	57	5
CMT M8	M8	1.25	6.5	8	2.5	16.8	63	5
CMT M10	M10	1.5	8.2	10	3	21	73	6
CMT M12	M12	1.75	9.9	10	3.5	25.2	73	6

New

醫療用長頸球刀
Dental Milling Tools

Super MG | 0.4 µm | 30° | S type | 2 Flutes | HRC ▶60 | TIX18 | NACO BLUE

SEZ



Micro Diameter

Type No. 型 號	Diameter R徑 d1	Flute Length 刃長 l_1	Effective Length 有效長 l_2	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
SEZ20402	R 0.2	0.6	2	50	4
SEZ20404	R 0.2	0.6	4	50	4
SEZ20502	R 0.25	0.8	2	50	4
SEZ20504	R 0.25	0.8	4	50	4
SEZ20506	R 0.25	0.8	6	50	4
SEZ20602	R 0.3	1.0	2	50	4
SEZ20604	R 0.3	1.0	4	50	4
SEZ20606	R 0.3	1.0	6	50	4
SEZ20608	R 0.3	1.0	8	50	4
SEZ20804	R 0.4	1.2	4	50	4
SEZ20806	R 0.4	1.2	6	50	4
SEZ20808	R 0.4	1.2	8	50	4
SEZ20810	R 0.4	1.2	10	50	4
SEZ21004	R 0.5	1.2	4	50	4
SEZ21006	R 0.5	1.2	6	50	4
SEZ21008	R 0.5	1.2	8	50	4
SEZ21010	R 0.5	1.2	10	50	4
SEZ21012	R 0.5	1.2	12	50	4
SEZ21504	R 0.75	1.7	4	50	4
SEZ21506	R 0.75	1.7	6	50	4
SEZ21508	R 0.75	1.7	8	50	4
SEZ21510	R 0.75	1.7	10	50	4
SEZ21512	R 0.75	1.7	12	50	4
SEZ22006	R 1.0	2.2	6	50	4
SEZ22008	R 1.0	2.2	8	50	4
SEZ22010	R 1.0	2.2	10	50	4
SEZ22012	R 1.0	2.2	12	50	4
SEZ22014	R 1.0	2.2	14	50	4
SEZ22016	R 1.0	2.2	16	50	4
SEZ23008	R 1.5	3.2	8	50	4
SEZ23010	R 1.5	3.2	10	50	4
SEZ23012	R 1.5	3.2	12	50	4
SEZ23014	R 1.5	3.2	14	50	4
SEZ23016	R 1.5	3.2	16	75	4
SEZ23020	R 1.5	3.2	20	75	4
SEZ24012-6	R 2.0	4.2	12	75	6
SEZ24014-6	R 2.0	4.2	14	75	6
SEZ24016-6	R 2.0	4.2	16	75	6
SEZ24020-6	R 2.0	4.2	20	75	6
SEZ24025-6	R 2.0	4.2	25	75	6

New



High Speed Cutting
& High Hard Cutting

d1 (mm)	d1(mm) tolerance
R0.25	±0.01
R0.3	±0.01
R0.4	±0.01
R0.5	±0.01
R0.75	±0.01
R1.0	±0.01
R1.5	±0.01
R2.0	±0.01

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	$^{0}_{-0.008}$
Ø 6	$^{0}_{-0.008}$

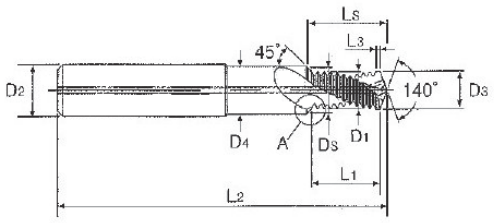
油孔鑽銑螺紋刀
Solid Carbide Drill and Thread Mill with Chamfer

Super MG | 0.4 μm | 35° | 2 Flutes | HRC ▶60 | X CEED



High Speed Cutting
& High Hard Cutting

CMTC



Micro Diameter

Type No. 型號	Nominal Diameter [D] 直徑	Pitch 螺紋間距	Cutter Diameter 牙徑	Shank Diameter 柄徑	Effect Diameter 倒角外徑	Drill Diameter 最大外徑	Max. C'sink 倒角外徑的柄徑	Thread Length 螺紋長	Effect Length 有效長	Drill Length 前端刃長	Over All Length 全長
		P	D1	D2	Ds	D3	D4	L1	Ls	L3	L2
CMTC M6	M6	1.0	4.75	8	6.3	5.00	6.6	13.00	14.68	1.00	62
CMTC M8	M8	1.25	6.35	10	8.3	6.75	9.0	16.27	18.48	1.25	74.0
CMTC M10	M10	1.5	8.50	12	10.3	8.50	11.0	21.05	23.77	1.50	79.0
CMTC M12	M12	1.75	10.25	14	12.3	10.25	13.5	24.21	27.25	1.50	89.0
CMTC M14	M14	2.0	12.00	16	14.3	12.00	15.5	29.58	33.32	1.50	102.0

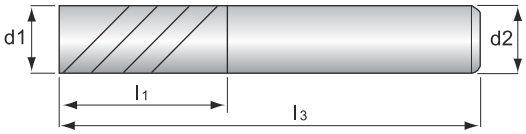
New

不銹鋼不等分不等螺旋銑刀

Square Unequalled Indexing -Variable Helix Geometry End Mills
(for Stainless Steel Processing)

Super MG | 0.4 µm | 35° | 4 Flutes | HRC ▶60 | TIX18

SEDHS



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
SEDHS010F	1.0	2.5	50	4
SEDHS015F	1.5	4	50	4
SEDHS020F	2.0	5	50	4
SEDHS025F	2.5	7	50	4
SEDHS030F	3.0	8	50	4
SEDHS040F	4.0	10	50	4
SEDHS020	2.0	5	50	6
SEDHS030	3.0	8	50	6
SEDHS040	4.0	10	50	6
SEDHS050	5.0	13	50	6
SEDHS060	6.0	15	50	6
SEDHS080	8.0	20	60	8
SEDHS100	10.0	25	75	10
SEDHS120	12.0	30	75	12
SEDHS140	14.0	35	100	14
SEDHS140-16	14.0	45	100	16
SEDHS160	16.0	45	100	16
SEDHS180	18.0	45	100	18
SEDHS200	20.0	45	100	20
SEDHS250	25.0	45	100	25

New



High Speed Cutting
& High Hard Cutting

d1 (mm)	d1(mm) tolerance
1.0	$^{-0.005}_{-0.02}$
1.5	$^{-0.005}_{-0.02}$
2.0	$^{-0.005}_{-0.02}$
3.0	$^{0}_{-0.02}$
4.0	$^{0}_{-0.02}$
5.0	$^{0}_{-0.02}$
6.0	$^{0}_{-0.025}$
8.0	$^{0}_{-0.025}$
10.0	$^{0}_{-0.03}$
12.0	$^{0}_{-0.035}$
14.0	$^{0}_{-0.04}$
16.0	$^{0}_{-0.04}$
18.0	$^{0}_{-0.05}$
20.0	$^{0}_{-0.05}$
25.0	$^{0}_{-0.05}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 14	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 18	$^{0}_{-0.013}$
Ø 20	$^{0}_{-0.013}$
Ø 25	$^{0}_{-0.013}$

鋁用不等分不等螺旋銑刀(鋁合金專用)

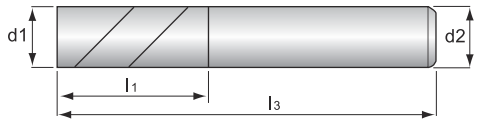
Square Unequalled Indexing-Variable Helix Geometry End Mills
(for Aluminum Alloys Processing)

Super MG | 0.6 μm | 45° | 3 Flutes | H



High Speed Cutting
& High Hard Cutting

SEDR



Micro Diameter

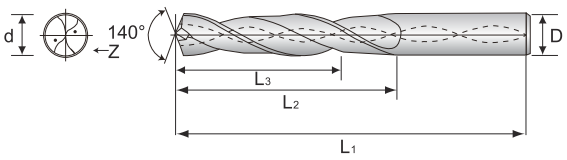
Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l_1	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
SEDR010F	1	2.5	50	4
SEDR020F	2	5	50	4
SEDR030F	3	8	50	4
SEDR030	3	8	50	6
SEDR040F	4	10	50	4
SEDR040	4	10	50	6
SEDR050	5	13	50	6
SEDR060	6	15	50	6
SEDR070	7	18	60	8
SEDR080	8	20	60	8
SEDR090	9	22	75	10
SEDR100	10	25	75	10
SEDR120	12	30	75	12
SEDR160	16	45	100	16

New

全鎢鋼油孔鑽頭-3xD
Carbide Drill with Internal Coolant Hole

0.4 μm | 3D | 30° | 2 Flutes | 140° | HRC ▶60

SDH



Micro Diameter

Type No. 型 號	Drill Dia. 刃徑 d	Flute Length 刃長 L2	Over All Length 全長 L1	Shank Dia. 柄徑 D
SDH3-030	3.0	20	62	6
SDH3-031	3.1	20	62	6
SDH3-032	3.2	20	62	6
SDH3-033	3.3	20	62	6
SDH3-034	3.4	20	62	6
SDH3-035	3.5	20	62	6
SDH3-036	3.6	20	62	6
SDH3-037	3.7	20	62	6
SDH3-038	3.8	24	66	6
SDH3-039	3.9	24	66	6
SDH3-040	4.0	24	66	6
SDH3-041	4.1	24	66	6
SDH3-042	4.2	24	66	6
SDH3-043	4.3	24	66	6
SDH3-044	4.4	24	66	6
SDH3-045	4.5	24	66	6
SDH3-046	4.6	24	66	6
SDH3-047	4.7	24	66	6
SDH3-048	4.8	28	66	6
SDH3-049	4.9	28	66	6
SDH3-050	5.0	28	66	6
SDH3-051	5.1	28	66	6
SDH3-052	5.2	28	66	6
SDH3-053	5.3	28	66	6
SDH3-054	5.4	28	66	6
SDH3-055	5.5	28	66	6
SDH3-056	5.6	28	66	6
SDH3-057	5.7	28	66	6
SDH3-058	5.8	28	66	6
SDH3-059	5.9	28	66	6
SDH3-060	6.0	34	66	6
SDH3-061	6.1	34	79	8
SDH3-062	6.2	34	79	8
SDH3-063	6.3	34	79	8
SDH3-064	6.4	34	79	8
SDH3-065	6.5	34	79	8
SDH3-066	6.6	34	79	8
SDH3-067	6.7	34	79	8
SDH3-068	6.8	34	79	8
SDH3-069	6.9	34	79	8
SDH3-070	7.0	34	79	8
SDH3-071	7.1	41	79	8
SDH3-072	7.2	41	79	8
SDH3-073	7.3	41	79	8
SDH3-074	7.4	41	79	8
SDH3-075	7.5	41	79	8
SDH3-076	7.6	41	79	8
SDH3-077	7.7	41	79	8
SDH3-078	7.8	41	79	8
SDH3-079	7.9	41	79	8



High Speed Cutting
& High Hard Cutting

New

全鎢鋼油孔鑽頭-3xD

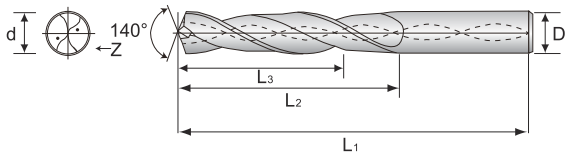
Carbide Drill with Internal Coolant Hole

0.4 μm | 3D | 30° | 2 Flutes | 140° | HRC ▶60



High Speed Cutting
& High Hard Cutting

SDH



Micro Diameter

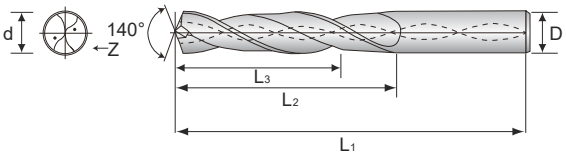
Type No. 型 號	Drill Dia. 刃徑 d	Flute Length 刃長 L2	Over All Length 全長 L1	Shank Dia. 柄徑 D
SDH3-080	8.0	47	79	8
SDH3-081	8.1	47	89	10
SDH3-082	8.2	47	89	10
SDH3-083	8.3	47	89	10
SDH3-084	8.4	47	89	10
SDH3-085	8.5	47	89	10
SDH3-086	8.6	47	89	10
SDH3-087	8.7	47	89	10
SDH3-088	8.8	47	89	10
SDH3-089	8.9	47	89	10
SDH3-090	9.0	47	89	10
SDH3-091	9.1	47	89	10
SDH3-092	9.2	47	89	10
SDH3-093	9.3	47	89	10
SDH3-094	9.4	47	89	10
SDH3-095	9.5	47	89	10
SDH3-096	9.6	47	89	10
SDH3-097	9.7	47	89	10
SDH3-098	9.8	47	89	10
SDH3-099	9.9	47	89	10
SDH3-100	10.0	47	89	10
SDH3-101	10.1	55	102	12
SDH3-102	10.2	55	102	12
SDH3-103	10.3	55	102	12
SDH3-104	10.4	55	102	12
SDH3-105	10.5	55	102	12
SDH3-106	10.6	55	102	12
SDH3-107	10.7	55	102	12
SDH3-108	10.8	55	102	12
SDH3-109	10.9	55	102	12
SDH3-110	11.0	55	102	12
SDH3-111	11.1	55	102	12
SDH3-112	11.2	55	102	12
SDH3-113	11.3	55	102	12
SDH3-114	11.4	55	102	12
SDH3-115	11.5	55	102	12
SDH3-116	11.6	55	102	12
SDH3-117	11.7	55	102	12
SDH3-118	11.8	55	102	12
SDH3-119	11.9	55	102	12
SDH3-120	12.0	55	102	12

New

全鎢鋼油孔鑽頭-5xD
Carbide Drill with Internal Coolant Hole



SDH



Micro Diameter

Type No. 型 號	Drill Dia. 刃徑d	Flute Length 刃長 L2	Over All Length 全長 L1	Shank Dia. 柄徑 D
SDH5-030	3.0	28	66	6
SDH5-031	3.1	28	66	6
SDH5-032	3.2	28	66	6
SDH5-033	3.3	28	66	6
SDH5-034	3.4	28	66	6
SDH5-035	3.5	28	66	6
SDH5-036	3.6	28	66	6
SDH5-037	3.7	28	66	6
SDH5-038	3.8	36	74	6
SDH5-039	3.9	36	74	6
SDH5-040	4.0	36	74	6
SDH5-041	4.1	36	74	6
SDH5-042	4.2	36	74	6
SDH5-043	4.3	36	74	6
SDH5-044	4.4	36	74	6
SDH5-045	4.5	36	74	6
SDH5-046	4.6	36	74	6
SDH5-047	4.7	36	74	6
SDH5-048	4.8	44	82	6
SDH5-049	4.9	44	82	6
SDH5-050	5.0	44	82	6
SDH5-051	5.1	44	82	6
SDH5-052	5.2	44	82	6
SDH5-053	5.3	44	82	6
SDH5-054	5.4	44	82	6
SDH5-055	5.5	44	82	6
SDH5-056	5.6	44	82	6
SDH5-057	5.7	44	82	6
SDH5-058	5.8	44	82	6
SDH5-059	5.9	44	82	6
SDH5-060	6.0	44	82	6
SDH5-061	6.1	53	91	8
SDH5-062	6.2	53	91	8
SDH5-063	6.3	53	91	8
SDH5-064	6.4	53	91	8
SDH5-065	6.5	53	91	8
SDH5-066	6.6	53	91	8
SDH5-067	6.7	53	91	8
SDH5-068	6.8	53	91	8
SDH5-069	6.9	53	91	8
SDH5-070	7.0	53	91	8
SDH5-071	7.1	53	91	8
SDH5-072	7.2	53	91	8
SDH5-073	7.3	53	91	8
SDH5-074	7.4	53	91	8
SDH5-075	7.5	53	91	8
SDH5-076	7.6	53	91	8
SDH5-077	7.7	53	91	8
SDH5-078	7.8	53	91	8
SDH5-079	7.9	53	91	8



High Speed Cutting
& High Hard Cutting

New

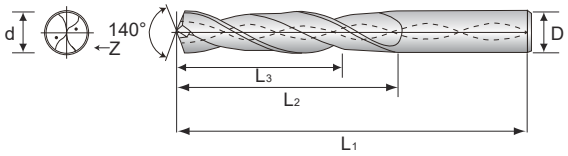
全鎢鋼油孔鑽頭-5xD
Carbide Drill with Internal Coolant Hole

0.4 μm | 5D | 30° | 2 Flutes | 140° | HRC ▶60



High Speed Cutting
& High Hard Cutting

SDH



Micro Diameter

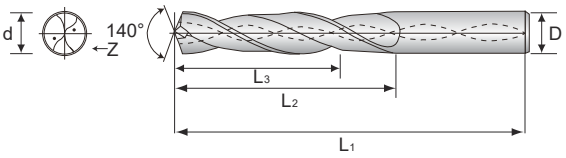
Type No. 型 號	Drill Dia. 刃徑 d	Flute Length 刃長 L2	Over All Length 全長 L1	Shank Dia. 柄徑 D
SDH5-080	8.0	53	91	8
SDH5-081	8.1	61	103	10
SDH5-082	8.2	61	103	10
SDH5-083	8.3	61	103	10
SDH5-084	8.4	61	103	10
SDH5-085	8.5	61	103	10
SDH5-086	8.6	61	103	10
SDH5-087	8.7	61	103	10
SDH5-088	8.8	61	103	10
SDH5-089	8.9	61	103	10
SDH5-090	9.0	61	103	10
SDH5-091	9.1	61	103	10
SDH5-092	9.2	61	103	10
SDH5-093	9.3	61	103	10
SDH5-094	9.4	61	103	10
SDH5-095	9.5	61	103	10
SDH5-096	9.6	61	103	10
SDH5-097	9.7	61	103	10
SDH5-098	9.8	61	103	10
SDH5-099	9.9	61	103	10
SDH5-100	10.0	61	103	10
SDH5-101	10.1	71	118	12
SDH5-102	10.2	71	118	12
SDH5-103	10.3	71	118	12
SDH5-104	10.4	71	118	12
SDH5-105	10.5	71	118	12
SDH5-106	10.6	71	118	12
SDH5-107	10.7	71	118	12
SDH5-108	10.8	71	118	12
SDH5-109	10.9	71	118	12
SDH5-110	11.0	71	118	12
SDH5-111	11.1	71	118	12
SDH5-112	11.2	71	118	12
SDH5-113	11.3	71	118	12
SDH5-114	11.4	71	118	12
SDH5-115	11.5	71	118	12
SDH5-116	11.6	71	118	12
SDH5-117	11.7	71	118	12
SDH5-118	11.8	71	118	12
SDH5-119	11.9	71	118	12
SDH5-120	12.0	71	118	12

New

全鎢鋼油孔鑽頭-8xD
Carbide Drill with Internal Coolant Hole



SDH



Micro Diameter

Type No. 型 號	Drill Dia. 刃徑 d	Flute Length 刃長 L2	Over All Length 全長 L1	Shank Dia. 柄徑 D
SDH8-040	4.0	43	81	6
SDH8-041	4.1	43	81	6
SDH8-042	4.2	43	81	6
SDH8-043	4.3	43	81	6
SDH8-044	4.4	43	81	6
SDH8-045	4.5	43	81	6
SDH8-046	4.6	43	81	6
SDH8-047	4.7	43	81	6
SDH8-048	4.8	57	95	6
SDH8-049	4.9	57	95	6
SDH8-050	5.0	57	95	6
SDH8-051	5.1	57	95	6
SDH8-052	5.2	57	95	6
SDH8-053	5.3	57	95	6
SDH8-054	5.4	57	95	6
SDH8-055	5.5	57	95	6
SDH8-056	5.6	57	95	6
SDH8-057	5.7	57	95	6
SDH8-058	5.8	57	95	6
SDH8-059	5.9	57	95	6
SDH8-060	6.0	57	95	6
SDH8-061	6.1	76	114	8
SDH8-062	6.2	76	114	8
SDH8-063	6.3	76	114	8
SDH8-064	6.4	76	114	8
SDH8-065	6.5	76	114	8
SDH8-066	6.6	76	114	8
SDH8-067	6.7	76	114	8
SDH8-068	6.8	76	114	8
SDH8-069	6.9	76	114	8
SDH8-070	7.0	76	114	8
SDH8-071	7.1	76	114	8
SDH8-072	7.2	76	114	8
SDH8-073	7.3	76	114	8
SDH8-074	7.4	76	114	8
SDH8-075	7.5	76	114	8
SDH8-076	7.6	76	114	8
SDH8-077	7.7	76	114	8
SDH8-078	7.8	76	114	8
SDH8-079	7.9	76	114	8
SDH8-080	8.0	76	114	8
SDH8-081	8.1	95	142	10
SDH8-082	8.2	95	142	10
SDH8-083	8.3	95	142	10
SDH8-084	8.4	95	142	10
SDH8-085	8.5	95	142	10
SDH8-086	8.6	95	142	10
SDH8-087	8.7	95	142	10
SDH8-088	8.8	95	142	10
SDH8-089	8.9	95	142	10



High Speed Cutting
& High Hard Cutting

New

全鎢鋼油孔鑽頭-8xD

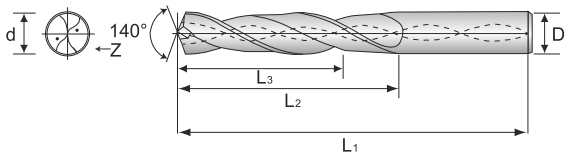
Carbide Drill with Internal Coolant Hole

0.4 μm | 8D | 30° | 2 Flutes | 140° | HRC ▶60



High Speed Cutting
& High Hard Cutting

SDH



Micro Diameter

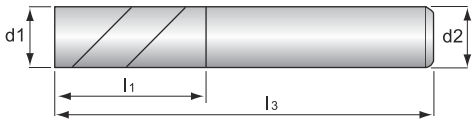
Type No. 型 號	Drill Dia. 刃徑 d	Flute Length 刃長 L2	Over All Length 全長 L1	Shank Dia. 柄徑 D
SDH8-090	9.0	95	142	10
SDH8-091	9.1	95	142	10
SDH8-092	9.2	95	142	10
SDH8-093	9.3	95	142	10
SDH8-094	9.4	95	142	10
SDH8-095	9.5	95	142	10
SDH8-096	9.6	95	142	10
SDH8-097	9.7	95	142	10
SDH8-098	9.8	95	142	10
SDH8-099	9.9	95	142	10
SDH8-100	10.0	95	142	10
SDH8-101	10.1	114	162	12
SDH8-102	10.2	114	162	12
SDH8-103	10.3	114	162	12
SDH8-104	10.4	114	162	12
SDH8-105	10.5	114	162	12
SDH8-106	10.6	114	162	12
SDH8-107	10.7	114	162	12
SDH8-108	10.8	114	162	12
SDH8-109	10.9	114	162	12
SDH8-110	11.0	114	162	12
SDH8-111	11.1	114	162	12
SDH8-112	11.2	114	162	12
SDH8-113	11.3	114	162	12
SDH8-114	11.4	114	162	12
SDH8-115	11.5	114	162	12
SDH8-116	11.6	114	162	12
SDH8-117	11.7	114	162	12
SDH8-118	11.8	114	162	12
SDH8-119	11.9	114	162	12
SDH8-120	12.0	114	162	12

New

壓克力專用刀
Carbide End Mill for Acrylic

Super MG | 0.4 μm | 45° | 2 Flutes | H

SEA



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l_1	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
SEA020**F**	2	5	50	4
SEA020	2	5	50	6
SEA030**F**	3	8	50	4
SEA030	3	8	50	6
SEA040**F**	4	10	50	4
SEA040	4	10	50	6
SEA050	5	13	50	6
SEA060	6	15	50	6
SEA080	8	20	60	8
SEA100	10	25	75	10
SEA120	12	30	75	12
SEA160	16	45	100	16

New



High Speed Cutting
& High Hard Cutting

Solid Carbide



At Present, four types of solid carbide material are being utilized for WJ's end mills.
According to the characteristics and the tests that we've done,each material is well selected and respectively applied to various applications to achieve its best solutions !
The material is from Germany and Japan.

Type of Solid Carbide Material	WC %	Co %	Average Grain Size μm	GPA T.R.S. N/mm²	Desity ISO 3369 [g/cm³]	Hardness Vickers HV30	Coating		Working Material's Hardness
A	90	10	0.6	3600	14.5	1610	X-CEED	X CEED	HRC 55
B	86.65	13	0.4	3900	13.9	1700	X.CEED	X CEED	HRC 60
C	89.8	9	0.2	4000	14.3	2000	NACO	NACO	HRC 68

Hardness



Work material hardness is up to HRC50, HRC55, HRC58, HRC60, HRC62, HRC65, HRC68.

Flute



S Type



It is suitable for three-dimentional curved surface cutting.

Corner R



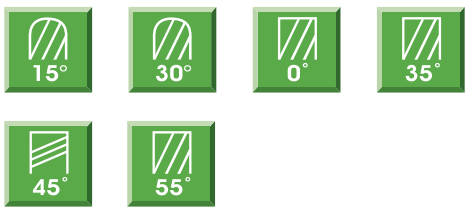
Flute Edge



Thread



Helix Angle



Helix is 15°, 30°, 35°, 45°, 55°.

WEY JUAN TECHNOLOGY 目 錄 Index

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WEY JUAN TECHNOLOGY 目 錄 Index

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	145WW	極細微粒碳化鎢 2刃 鏡面立銑刀(鋁用金專用) Micro Grain Carbide, 2- flute, Smooth Surface End Mills (for Aluminum Alloys Processing) New	P26
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WEY JUAN TECHNOLOGY 目 錄 Index

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WEY JUAN TECHNOLOGY 目 錄 Index



SDC 小徑後拉高速刀桿 & SDC 高速後拉筒夾
SDC Slim Chuck & SDC Collet (for end mill) New P70



KCH銑刀夾頭 Power Grip Milling Chuck / KCH P71



ER筒夾 ER Spring Collets P72



側固式立銑刀架 Side Mill Arbor P73



斜柄鑽頭套筒 Morse Taper Adaptor P74



平面銑刀柄 Face Mill A Type P75-76



延長杆系列 Straight Shank P77



螺母與板手系列 Clamping Nuts & Wrench Series P78



BT螺栓拉頭 & 刀庫主軸清潔棒(可替換式片) & 立橫兩用BT刀軸鎖刀座
BT Pull Stud & Spindle Taper Wipers & BT Tool Holder Locking Device P79

切削數據表 Recommend Cutting Conditions P80-83

極細微粒碳化鎢 2刃立銑刀
Micro Grain Carbide, 2- flute, End Mills

MG | 0.6 μm | 35° | 2 Flutes | HRC ▶55 | X CEED

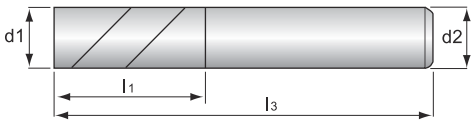


High Speed Cutting
& High Hard Cutting

d1 (mm)	d1(mm) tolerance
1.0	-0.005 -0.02
1.5	-0.005 -0.02
2.0	-0.005 -0.02
3.0	-0.005 -0.02
4.0	-0.005 -0.02
5.0	-0.005 -0.02
6.0	-0.01 -0.025
8.0	-0.01 -0.025
10.0	-0.01 -0.025
12.0	-0.01 -0.025
16.0	-0.01 -0.025
20.0	0 -0.05
25.0	0 -0.05

Shank(mm) (h6)	d2(mm) tolerance
Ø 3	0 -0.006
Ø 4	0 -0.008
Ø 6	0 -0.008
Ø 8	0 -0.008
Ø 10	0 -0.009
Ø 12	0 -0.011
Ø 16	0 -0.011
Ø 20	0 -0.013
Ø 25	0 -0.013

SED



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
352AL010F	1.0	2.5	50	4
352AL015F	1.5	4	50	4
352AL020F	2.0	5	50	4
352AL025F	2.5	7	50	4
352AL030F	3.0	8	50	4
352AL035F	3.5	10	50	4
352AL040F	4.0	10	50	4
352AL045	4.5	13	50	6
352AL050	5.0	13	50	6
352AL055	5.5	13	50	6
352AL060	6.0	15	50	6
352AL065	6.5	15	60	8
352AL070	7.0	17	60	8
352AL075	7.5	17	60	8
352AL080	8.0	20	60	8
352AL085	8.5	25	75	10
352AL090	9.0	25	75	10
352AL095	9.5	25	75	10
352AL100	10.0	25	75	10
352AL105	10.5	25	75	12
352AL110	11.0	28	75	12
352AL115	11.5	28	75	12
352AL120	12.0	30	75	12
352AL130-16	13.0	33	100	16
352AL140-16	14.0	35	100	16
352AL150	15.0	40	100	16
352AL160	16.0	45	100	16
352AL170-18	17.0	45	100	18
352AL180-20	18.0	45	100	20
352AL190	19.0	45	100	20
352AL200	20.0	45	100	20
352AL250	25.0	45	100	25

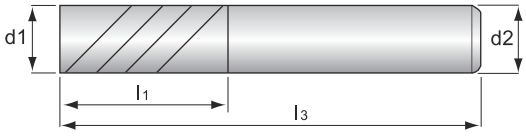
Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
352AL010-3	1.0	2.5	50	3
352AL015-3	1.5	4	50	3
352AL020-3	2.0	5	50	3
352AL025-3	2.5	7	50	3
352AL030-3	3.0	8	50	3
352AL050-5	5.0	13	50	5
352AL-010	1.0	2.5	50	6
352AL-015	1.5	4	50	6
352AL-020	2.0	5	50	6
352AL-025	2.5	7	50	6
352AL-030	3.0	8	50	6
352AL-035	3.5	10	50	6
352AL-040	4 0	10	50	6

* 另有2刃點數銑刀，請來電洽詢。

極細微粒碳化鎢 4刃立銑刀
Micro Grain Carbide, 4-flute, End Mills

MG | 0.6 μm | 35° | 4 Flutes | HRC ▶55 | X CEED

SED



Micro Diameter

Type No. 型號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
354AL010F	1.0	2.5	50	4
354AL015F	1.5	4	50	4
354AL020F	2.0	5	50	4
354AL025F	2.5	7	50	4
354AL030F	3.0	8	50	4
354AL035F	3.5	9	50	4
354AL040F	4.0	10	50	4
354AL045	4.5	13	50	6
354AL050	5.0	13	50	6
354AL055	5.5	13	50	6
354AL060	6.0	15	50	6
354AL065	6.5	15	60	8
354AL070	7.0	17	60	8
354AL080	8.0	20	60	8
354AL090	9.0	25	75	10
354AL095	9.5	25	75	10
354AL100	10.0	25	75	10
354AL105	10.5	25	75	12
354AL110	11.0	28	75	12
354AL120	12.0	30	75	12
354AL140	14.0	35	100	14
354AL140-16	14.0	35	100	16
354AL150	15.0	40	100	16
354AL160	16.0	45	100	16
354AL180	18.0	45	100	18
354AL180	18.0	45	100	20
354AL200	20.0	45	100	20
354AL250	25 0	45	100	25

Type No. 型號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
354AL010-3	1.0	2.5	50	3
354AL015-3	1.5	4	50	3
354AL020-3	2.0	5	50	3
354AL025-3	2.5	7	50	3
354AL030-3	3.0	8	50	3
354AL050-5	5.0	13	50	5
354AL-010	1.0	2.5	50	6
354AL-015	1.5	4	50	6
354AL-020	2.0	5	50	6
354AL-025	2.5	7	50	6
354AL-030	3.0	8	50	6
352AL-035	3.5	10	50	6
354AL-040	4.0	10	50	6



High Speed Cutting
& High Hard Cutting

d1 (mm)	d1(mm) tolerance
1.0	$^{-0.005}_{-0.02}$
1.5	$^{-0.005}_{-0.02}$
2.0	$^{-0.005}_{-0.02}$
3.0	$^{0}_{-0.02}$
4.0	$^{0}_{-0.02}$
5.0	$^{0}_{-0.02}$
6.0	$^{0}_{-0.025}$
8.0	$^{0}_{-0.025}$
10.0	$^{0}_{-0.03}$
12.0	$^{0}_{-0.035}$
14.0	$^{0}_{-0.04}$
16.0	$^{0}_{-0.04}$
18.0	$^{0}_{-0.05}$
20.0	$^{0}_{-0.05}$
25.0	$^{0}_{-0.05}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 14	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 18	$^{0}_{-0.013}$
Ø 20	$^{0}_{-0.013}$
Ø 25	$^{0}_{-0.013}$

極細微粒碳化鎢 4刃立銑刀(不鏽鋼專用)
Micro Grain Carbide, 4-flute, End Mills (for Stainless Steel Processing)

Super MG | 0.6 μm | 45° | 4 Flutes | HRC ▶55 | X CEED

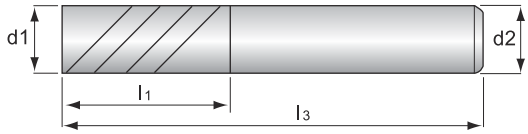


High Speed Cutting
& High Hard Cutting

d1 (mm)	d1(mm) tolerance
1.0	$^{-0.005}_{-0.02}$
1.5	$^{-0.005}_{-0.02}$
2.0	$^{-0.005}_{-0.02}$
3.0	$^{0}_{-0.02}$
4.0	$^{0}_{-0.02}$
5.0	$^{0}_{-0.02}$
6.0	$^{0}_{-0.025}$
8.0	$^{0}_{-0.025}$
10.0	$^{0}_{-0.03}$
12.0	$^{0}_{-0.035}$
14.0	$^{0}_{-0.04}$
16.0	$^{0}_{-0.04}$
18.0	$^{0}_{-0.05}$
20.0	$^{0}_{-0.05}$
25.0	$^{0}_{-0.05}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 14	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 18	$^{0}_{-0.013}$
Ø 20	$^{0}_{-0.013}$
Ø 25	$^{0}_{-0.013}$

SED



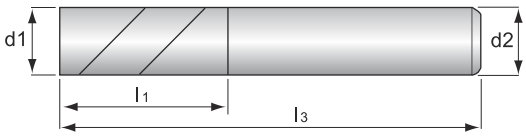
Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l_1	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
454AL010F	1.0	2.5	50	4
454AL015F	1.5	4	50	4
454AL020F	2.0	5	50	4
454AL025F	2.5	7	50	4
454AL030F	3.0	8	50	4
454AL040F	4.0	10	50	4
454AL020	2.0	5	50	6
454AL030	3.0	8	50	6
454AL040	4.0	10	50	6
454AL050	5.0	13	50	6
454AL060	6.0	15	50	6
454AL080	8.0	20	60	8
454AL100	10.0	25	75	10
454AL120	12.0	30	75	12
454AL140	14.0	35	100	14
454AL140-16	14.0	45	100	16
454AL160	16.0	45	100	16
454AL180	18.0	45	100	18
454AL200	20.0	45	100	20
454AL250	25·0	45	100	25

極細微粒碳化鎢 長刃型 2刃立銑刀
Micro Grain Carbide, Long-flute, 2-flute, End Mills

MG | 0.6 μm | 35° | 2 Flutes | HRC ▶55 | X CEED

SED



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
35L2AL010F	1.0	4	75	4
35L2AL015F	1.5	6	75	4
35L2AL020F	2.0	8	75	4
35L2AL025F	2.5	10	75	4
35L2AL030F	3.0	12	75	4
35L2AL040F	4.0	16	75	4
35L2AL020	2.0	8	75	6
35L2AL030	3.0	12	75	6
35L2AL040	4.0	16	75	6
35L2AL050	5.0	20	75	6
35L2AL060	6.0	25	75	6
35L2AL080	8.0	25	75	8
35L2AL030FB	3.0	12	100	4
35L2AL040FB	4.0	16	100	4
35L2AL050B	5.0	25	100	6
35L2AL060B	6.0	25	100	6
35L2AL080B	8.0	35	100	8
35L2AL100	10.0	40	100	10
35L2AL120	12.0	45	100	12
35XL2AL060	6.0	25	150	6
35XL2AL080	8.0	35	150	8
35XL2AL100	10.0	40	150	10
35XL2AL120	12.0	45	150	12
35XL2AL160	16.0	65	150	16
35XL2AL200	20.0	75	150	20



High Speed Cutting
& High Hard Cutting

d1 (mm)	d1(mm) tolerance
2.0	$^{0}_{-0.02}$
3.0	$^{0}_{-0.02}$
4.0	$^{0}_{-0.02}$
5.0	$^{0}_{-0.02}$
6.0	$^{0}_{-0.025}$
8.0	$^{0}_{-0.03}$
10.0	$^{0}_{-0.035}$
12.0	$^{0}_{-0.04}$
16.0	$^{0}_{-0.04}$
20.0	$^{0}_{-0.05}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	$^{0}_{-0.008}$
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$

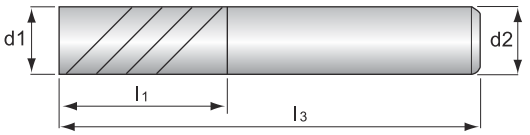
極細微粒碳化鎢 長刃型 4刃立銑刀 (35度)
Micro Grain Carbide, Long-flute, 4-flute, End Mills(Helix Angle 35)

MG | 0.6 μm | 35° | 4 Flutes | HRC ▶55 | X CEED



High Speed Cutting
& High Hard Cutting

SED



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
35L4AL010F	1.0	4	75	4
35L4AL015F	1.5	6	75	4
35L4AL020F	2.0	8	75	4
35L4AL025F	2.5	10	75	4
35L4AL030F	3.0	12	75	4
35L4AL040F	4.0	16	75	4
35L4AL020	2.0	8	75	6
35L4AL030	3.0	12	75	6
35L4AL040	4.0	16	75	6
35L4AL050	5.0	20	75	6
35L4AL060	6.0	25	75	6
35L4AL080	8.0	25	75	8
35L4AL030-3	3.0	12	75	3
35L4AL030FB	3.0	12	100	4
35L4AL030B-3	3.0	12	100	3
35L4AL030B	3.0	12	100	6
35L4AL040FB	4.0	16	100	4
35L4AL050B	5.0	25	100	6
35L4AL060B	6.0	25	100	6
35L4AL080B	8.0	35	100	8
35L4AL100	10.0	40	100	10
35L4AL120	12.0	45	100	12
35XL4AL060	6.0	25	150	6
35XL4AL080	8.0	35	150	8
35XL4AL100	10.0	40	150	10
35XL4AL120	12.0	45	150	12
35XL4AL160	16.0	65	150	16
35XL4AL200	20 0	75	150	20

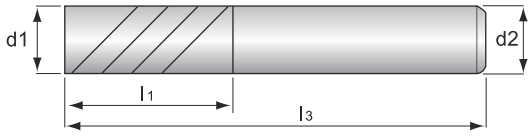
d1 (mm)	d1(mm) tolerance
2.0	$^{0}_{-0.02}$
3.0	$^{0}_{-0.02}$
4.0	$^{0}_{-0.02}$
5.0	$^{0}_{-0.02}$
6.0	$^{0}_{-0.025}$
8.0	$^{0}_{-0.03}$
10.0	$^{0}_{-0.035}$
12.0	$^{0}_{-0.04}$
16.0	$^{0}_{-0.04}$
20.0	$^{0}_{-0.05}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	$^{0}_{-0.008}$
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$

極細微粒碳化鎢 長刃型 4刃立銑刀 (45度)
Micro Grain Carbide, Long-flute, 4-flute, End Mills(Helix Angle 45)

MG | 0.6 μm | 45° | 4 Flutes | HRC ▶55 | X CEED

SED



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l_1	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
45L4AL010F	1.0	4	75	4
45L4AL015F	1.5	6	75	4
45L4AL020F	2.0	8	75	4
45L4AL025F	2.5	10	75	4
45L4AL030	3.0	12	75	6
45L4AL040	4.0	16	75	6
45L4AL050	5.0	20	75	6
45L4AL060	6.0	25	75	6
45L4AL080	8.0	25	75	8
45L4AL060B	6.0	25	100	6
45L4AL080B	8.0	35	100	8
45L4AL100	10.0	40	100	10
45L4AL120	12.0	45	100	12
45XL4AL060	6.0	25	150	6
45XL4AL080	8.0	35	150	8
45XL4AL100	10.0	40	150	10
45XL4AL120	12.0	45	150	12
45XL4AL160	16.0	65	150	16
45XL4AL200	20.0	75	150	20



High Speed Cutting
& High Hard Cutting

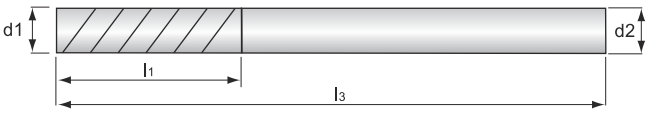
d1 (mm)	d1(mm) tolerance
2.0	$^{0}_{-0.02}$
3.0	$^{0}_{-0.02}$
4.0	$^{0}_{-0.02}$
5.0	$^{0}_{-0.02}$
6.0	$^{0}_{-0.025}$
8.0	$^{0}_{-0.03}$
10.0	$^{0}_{-0.035}$
12.0	$^{0}_{-0.04}$
16.0	$^{0}_{-0.04}$
20.0	$^{0}_{-0.05}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	$^{0}_{-0.008}$
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$



High Speed Cutting
& High Hard Cutting

SEDH



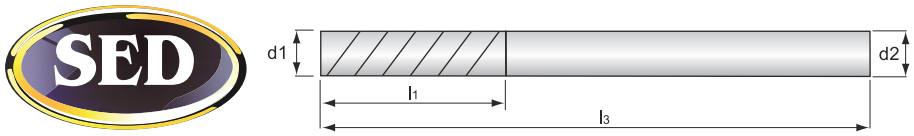
Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l_1	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
SEDHAL020	2.0	5	50	4
SEDHAL025	2.5	7	50	4
SEDHAL030	3.0	8	50	4
SEDHAL040	4.0	10	50	4
SEDHAL050	5.0	13	50	6
SEDHAL060	6.0	15	50	6
SEDHAL080	8.0	20	60	8
SEDHAL100	10.0	25	75	10
SEDHAL120	12.0	30	75	12
SEDHAL160	16.0	45	100	16
SEDHAL200	20.0	45	100	20

New

d1 (mm)	d1(mm) tolerance
2.0	$^{0}_{-0.02}$
3.0	$^{0}_{-0.02}$
4.0	$^{0}_{-0.02}$
5.0	$^{0}_{-0.02}$
6.0	$^{0}_{-0.025}$
8.0	$^{0}_{-0.03}$
10.0	$^{0}_{-0.035}$
12.0	$^{0}_{-0.04}$
16.0	$^{0}_{-0.04}$
20.0	$^{0}_{-0.05}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	$^{0}_{-0.008}$
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$

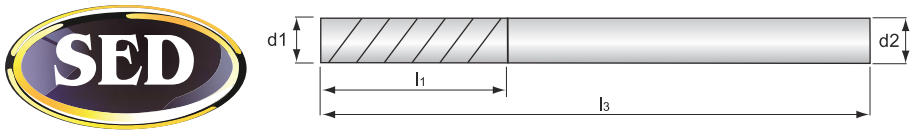


Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
6SEDAL060	6.0	15	50	6
6SEDAL080	8.0	20	60	8
6SEDAL100	10.0	25	75	10
6SEDAL120	12.0	30	75	12
6SEDAL160	16.0	40	100	16
6SEDAL200	20.0	40	100	20



High Speed Cutting
& High Hard Cutting



極細微粒碳化鎢 6刃立銑刀
Micro Grain Carbide, 6- flute, End Mills

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
6SED060	6.0	15	50	6
6SED080	8.0	20	60	8
6SED100	10.0	25	75	10
6SED120	12.0	30	75	12
6SED160	16.0	40	100	16
6SED200	20.0	40	100	20

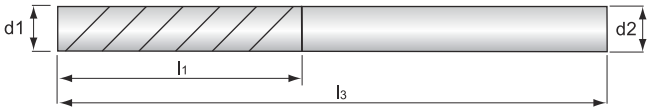
d1 (mm)	d1(mm) tolerance
6.0	$^{0}_{-0.025}$
8.0	$^{0}_{-0.03}$
10.0	$^{0}_{-0.035}$
12.0	$^{0}_{-0.04}$
16.0	$^{0}_{-0.04}$
20.0	$^{0}_{-0.013}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$



High Speed Cutting
& High Hard Cutting

LSED



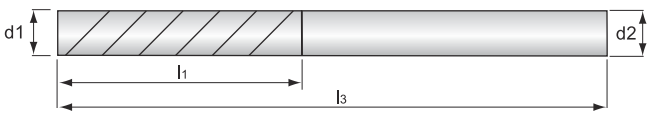
Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
L6SEDAL060	6.0	25	75	6
L6SEDAL060B	6.0	30	100	6
L6SEDAL080B	8.0	35	100	8
L6SEDAL100	10.0	40	100	10
L6SEDAL100B	10.0	40	150	10
L6SEDAL120	12.0	45	100	12
L6SEDAL120B	12.0	45	150	12
L6SEDAL160B	16.0	60	150	16
L6SEDAL200B	20.0	80	150	20

d1 (mm)	d1(mm) tolerance
6.0	$^{0}_{-0.025}$
8.0	$^{0}_{-0.03}$
10.0	$^{0}_{-0.035}$
12.0	$^{0}_{-0.04}$
16.0	$^{0}_{-0.04}$
20.0	$^{0}_{-0.013}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$

LSED



極細微粒碳化鎢 長刃型 6刃立銑刀
Micro Grain Carbide, Long-flute, 6- flute, End Mills

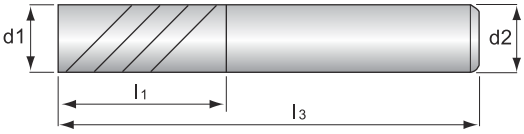
Super MG 0.4 μm 45° 6 Flutes HRC ▶60 CEED

Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
L6SED060	6.0	25	75	6
L6SED060B	6.0	30	100	6
L6SED080B	8.0	35	100	8
L6SED100	10.0	40	100	10
L6SED100B	10.0	40	150	10
L6SED120	12.0	45	100	12
L6SED120B	12.0	45	150	12
L6SED160B	16.0	60	150	16
L6SED200B	20.0	80	150	20



FRE



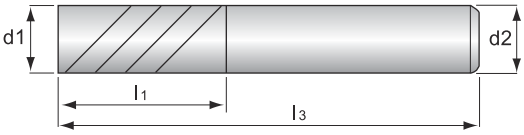
Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
FREAL060	6.0	16	50	6
FREAL080	8.0	20	60	8
FREAL100	10.0	25	75	10
FREAL120	12.0	30	75	12
FREAL140	14.0	35	100	16
FREAL160	16.0	40	100	16
FREAL180	18.0	40	100	20
FREAL200	20.0	45	100	20



High Speed Cutting
& High Hard Cutting

FRE



極細微粒碳化鎢 4刃粗銑立銑刀
Micro Grain Carbide, 4- flute, Roughing, End Mills



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
FRE060	6.0	16	50	6
FRE080	8.0	20	60	8
FRE100	10.0	25	75	10
FRE120	12.0	30	75	12
FRE140	14.0	35	100	16
FRE160	16.0	40	100	16
FRE180	18.0	40	100	20
FRE200	20.0	45	100	20

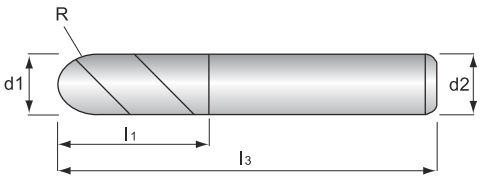
New



Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$



High Speed Cutting
& High Hard Cutting



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l_1	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
MR2AL010F	R 0.5	2	50	4
MR2AL015F	R 0.75	3	50	4
MR2AL020F	R 1.0	4	50	4
MR2AL025F	R 1.25	5	50	4
MR2AL030F	R 1.5	6	50	4
MR2AL035F	R 1.75	7	50	4
MR2AL040F	R 2.0	8	50	4
MR2AL045	R 2.25	9	50	6
MR2AL050	R 2.5	10	50	6
MR2AL050-5	R 2.5	10	50	5
MR2AL055	R 2.75	11	50	6
MR2AL060	R 3.0	12	50	6
MR2AL065	R 3.25	12	60	8
MR2AL070	R 3.5	12	60	8
MR2AL075	R 3.75	14	60	8
MR2AL080	R 4.0	16	60	8
MR2AL090	R 4.5	18	75	10
MR2AL100	R 5.0	20	75	10
MR2AL120	R 6.0	24	75	12
MR2AL160	R 8.0	32	100	16
MR2AL200	R 10.0	40	100	20

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l_1	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
MR2AL010-3	R 0.5	2	50	3
MR2AL015-3	R 0.75	3	50	3
MR2AL020-3	R 1.0	4	50	3
MR2AL025-3	R 1.25	5	50	3
MR2AL030-3	R 1.5	6	50	3
MR2AL010	R 0.5	2	50	6
MR2AL015	R 0.75	3	50	6
MR2AL020	R 1.0	4	50	6
MR2AL025	R 1.25	5	50	6
MR2AL030	R 1.5	6	50	6
MR2AL040	R 2.0	8	50	6

d1 (mm)	d1(mm) tolerance
R1	±0.01
R1.5	±0.01
R2	±0.01
R2.5	±0.01
R3	±0.01
R4	±0.01
R5	±0.01
R6	±0.015
R8	±0.02
R10	±0.02

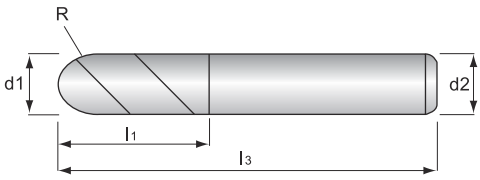
Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$

極細微粒碳化鎢 長柄 2刃球型立銑刀
Micro Grain Carbide, Long-shank, 2- flute, Ball End Mills

MG | 0.6 µm | 30° | S S type | 2 Flutes | HRC ▶55 | X CEED

LR

Micro Diameter



Type No. 型 號	Diameter R	Flute Length 刃長 l_1	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
LR2AL010F	R 0.5	2	75	4
LR2AL015F	R 0.75	3	75	4
LR2AL020F	R 1	4	75	4
LR2AL030F	R 1.5	6	75	4
LR2AL030-3	R 1.5	6	75	3
LR2AL040F	R 2	8	75	4
LR2AL010	R 0.5	2	75	6
LR2AL015	R 0.75	3	75	6
LR2AL020	R 1	4	75	6
LR2AL030	R 1.5	6	75	6
LR2AL040	R 2	8	75	6
LR2AL050	R 2.5	10	75	6
LR2AL060	R 3	12	75	6
LR2AL080	R 4	16	75	8
LR2AL010FB	R 0.5	2	100	4
LR2AL010B	R 0.5	2	100	6
LR2AL020FB	R 1	4	100	4
LR2AL020B	R 1	4	100	6
LR2AL030FB	R 1.5	6	100	4
LR2AL030B-3	R 1.5	6	100	3
LR2AL030B	R 1.5	6	100	6
LR2AL040FB	R 2	8	100	4
LR2AL040B	R 2	8	100	6
LR2AL050B	R 2.5	10	100	6
LR2AL060B	R 3	12	100	6
LR2AL080B	R 4	16	100	8
LR2AL100	R 5	20	100	10
LR2AL120	R 6	24	100	12
XLR2AL060	R 3	12	150	6
XLR2AL080	R 4	16	150	8
XLR2AL100	R 5	20	150	10
XLR2AL120	R 6	24	150	12
XLR2AL160	R 8	32	150	16
XLR2AL200	R 10	40	150	20



High Speed Cutting
& High Hard Cutting

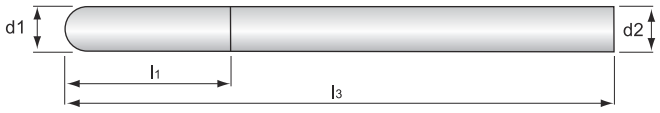
d1 (mm)	d1(mm) tolerance
R1	±0.01
R1.5	±0.01
R2	±0.01
R2.5	±0.01
R3	±0.01
R4	±0.01
R5	±0.01
R6	±0.015
R8	±0.02
R10	±0.02

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$



High Speed Cutting
& High Hard Cutting

MR4

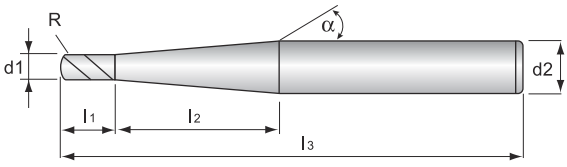


Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
MR4AL010F	R 0.5	2	50	4
MR4AL015F	R 0.75	3	50	4
MR4AL020F	R 1	4	50	4
MR4AL030F	R 1.5	6	50	4
MR4AL040F	R 2	8	50	4
MR4AL050	R 2.5	10	50	6
MR4AL060	R 3	12	50	6
MR4AL080	R 4	16	60	8
MR4AL100	R 5	20	75	10
MR4AL120	R 6	24	75	12
MR4AL160	R 8	32	100	16
MR4AL200	R 10	40	100	20

d1 (mm)	d1(mm) tolerance
R0.5	±0.01
R0.75	±0.01
R1.0	±0.01
R1.5	±0.01
R2.0	±0.01
R2.5	±0.01
R3	±0.01
R4	±0.01
R5	±0.015
R6	±0.015
R8	±0.02
R10	±0.02

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	$^{0}_{-0.008}$
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.009}$
Ø 10	$^{0}_{-0.011}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$

MBN



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l_1	Taper Angle 斜頸 α	Taper Neck 斜頸長 l_2	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
MBN2AL0103-6	R 0.5	2	3°	32	75	6
MBN2AL0105-6	R 0.5	2	5°	32	75	6
MBN2AL0203-6	R 1.0	4	3°	27	100	6
MBN2AL0205-6	R 1.0	4	5°	27	100	6
MBN2AL03015-6	R 1.5	6	1.5°	35	100	6
MBN2AL0303-6	R 1.5	6	3°	35	100	6
MBN2AL04015-6	R 2.0	8	1.5°	28	100	6
MBN2AL0403-6	R 2.0	8	3°	28	100	6
MBN2AL0603	R 3.0	12	3°	32	100	8
MBN2AL0605	R 3.0	12	5°	35	100	10
MBN2AL0603B	R 3.0	12	3°	32	150	8
MBN2AL0605B	R 3.0	12	5°	35	150	10
MBN2AL0803	R 4.0	16	3°	36	100	10
MBN2AL0805	R 4.0	16	5°	39	100	12
MBN2AL0803B	R 4.0	16	3°	36	150	10
MBN2AL0805B	R 4.0	16	5°	39	150	12
MBN2AL1003	R 5.0	20	3°	40	100	12
MBN2AL1003B	R 5.0	20	3°	40	150	12
MBN2AL1205	R 6.0	24	5°	47	100	16
MRN2AL1205B	R 6.0	24	5°	47	150	16



High Speed Cutting
& High Hard Cutting

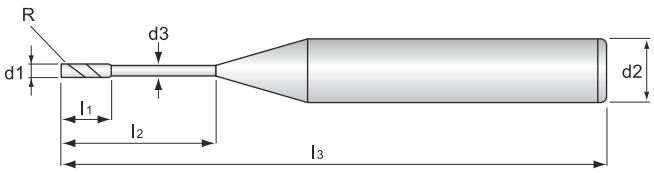
d1 (mm)	d1(mm) tolerance
R1	±0.01
R1.5	±0.01
R2	±0.01
R2.5	±0.01
R3	±0.01
R4	±0.01
R5	±0.01
R6	±0.015

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$



High Speed Cutting
& High Hard Cutting

HRM



Micro Diameter

Type No. 型號	Diameter 刃徑 d1	Neck Dia. d3	Corner R 圓角 R	Flute Length 刃長 l_1	Effective Length 有效長 l_2	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
HRMAL1006R	1.0	0.95	0.2	1.5	6	50	4
HRMAL1008R	1.0	0.95	0.2	1.5	8	50	4
HRMAL1010R	1.0	0.95	0.2	1.5	10	50	4
HRMAL1012R	1.0	0.95	0.2	1.5	12	50	4
HRMAL1508R	1.5	1.44	0.2	2.0	8	50	4
HRMAL1510R	1.5	1.44	0.2	2.0	10	50	4
HRMAL1512R	1.5	1.44	0.2	2.0	12	50	4
HRMAL1516R	1.5	1.44	0.2	2.0	16	50	4
HRMAL2008R	2.0	1.92	0.2	3.0	8	50	4
HRMAL2010R	2.0	1.92	0.2	3.0	10	50	4
HRMAL2012R	2.0	1.92	0.2	3.0	12	50	4
HRMAL2016R	2.0	1.92	0.2	3.0	16	50	4
HRMAL2020R	2.0	1.92	0.2	3.0	20	50	4
HRMAL2510R	2.5	2.40	0.2	3.0	10	50	4
HRMAL2512R	2.5	2.40	0.2	3.0	12	50	4
HRMAL2516R	2.5	2.40	0.2	3.0	16	50	4
HRMAL2520R	2.5	2.40	0.2	3.0	20	50	4
HRMAL3010R	3.0	2.90	0.2	4.0	10	50	6
HRMAL3012R	3.0	2.90	0.2	4.0	12	50	6
HRMAL3016R	3.0	2.90	0.2	4.0	16	50	6
HRMAL3020R	3.0	2.90	0.2	4.0	20	60	6
HRMAL3025R	3.0	2.90	0.2	4.0	25	60	6

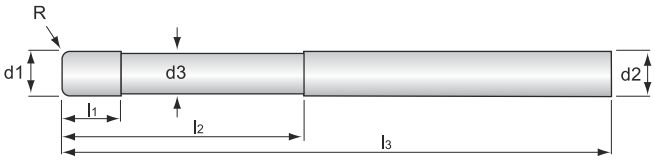
d1 (mm)	R(mm) tolerance	d1(mm) tolerance
1.0	$^{+0.02}_{0}$	$^{0}_{-0.02}$
1.5	$^{+0.02}_{0}$	$^{0}_{-0.02}$
2.0	$^{+0.02}_{0}$	$^{0}_{-0.02}$
2.5	$^{+0.02}_{0}$	$^{0}_{-0.02}$
3.0	$^{+0.02}_{0}$	$^{0}_{-0.02}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	$^{0}_{-0.008}$
Ø 6	$^{0}_{-0.008}$

極細微粒碳化鎢 長頸短刃圓鼻 2刃立銑刀
Micro Grain Carbide, Long-neck, Short-flute, Corner-radius, 2-flute, End Mills

MG | 0.6 µm | 35° | 2 Flutes | HRC ▶55 | X CEED

HSER



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Neck Dia. d3	Corner R 圓角 R	Flute Length 刃長 l_1	Effective Length 有效長 l_2	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
HSERAL0402R	4.0	3.90	0.2	6	12	50	6
HSERAL0405R	4.0	3.90	0.5	6	12	50	6
HSERAL0602R	6.0	5.80	0.2	8	18	50	6
HSERAL0605R	6.0	5.80	0.5	8	18	50	6
HSERAL0610R	6.0	5.80	1.0	8	18	50	6
HSERAL0802R	8.0	7.70	0.2	10	24	60	8
HSERAL0805R	8.0	7.70	0.5	10	24	60	8
HSERAL0810R	8.0	7.70	1.0	10	24	60	8
HSERAL1003R	10.0	9.60	0.3	12	30	75	10
HSERAL1005R	10.0	9.60	0.5	12	30	75	10
HSERAL1010R	10.0	9.60	1.0	12	30	75	10
HSERAL1020R	10.0	9.60	2.0	12	30	75	10
HSERAL1210R	12.0	11.5	1.0	15	36	75	12
HSERAL1220R	12.0	11.5	2.0	15	36	75	12
HSERAL1605R	16.0	15.4	0.5	24	40	75	16
HSERAL1610R	16.0	15.4	1.0	24	40	75	16



High Speed Cutting
& High Hard Cutting

d1 (mm)	R(mm) tolerance	d1(mm) tolerance
4.0	$^{+0.02}_{0}$	$^{0}_{-0.02}$
6.0	$^{+0.02}_{0}$	$^{-0.005}_{-0.025}$
8.0	$^{+0.02}_{0}$	$^{-0.01}_{-0.025}$
10.0	$^{+0.025}_{0}$	$^{-0.01}_{-0.03}$
12.0	$^{+0.025}_{0}$	$^{-0.01}_{-0.035}$
16.0	$^{+0.03}_{0}$	$^{-0.01}_{-0.04}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$

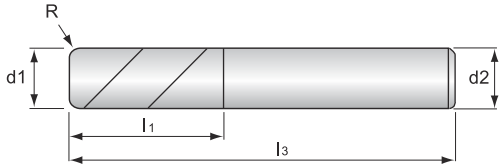


High Speed Cutting
& High Hard Cutting

d1 (mm)	R(mm) tolerance	d1(mm) tolerance
1.0	+0.02 0	0 -0.02
1.5	+0.02 0	0 -0.02
2.0	+0.02 0	0 -0.02
2.5	+0.02 0	0 -0.02
3.0	+0.02 0	0 -0.02
4.0	+0.02 0	0 -0.02
5.0	+0.02 0	0 -0.02
6.0	+0.02 0	-0.005 -0.025
8.0	+0.02 0	-0.01 -0.025
10.0	+0.02 0	-0.01 -0.03
12.0	+0.02 0	-0.01 -0.025

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	0 -0.008
Ø 6	0 -0.008
Ø 8	0 -0.008
Ø 10	0 -0.009
Ø 12	0 -0.011

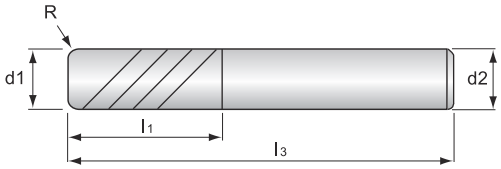
2RM



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Corner R 圓角 R	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
2RMAL0102RF	1.0	R 0.2	2.5	50	4
2RMAL01502RF	1.5	R 0.2	4	50	4
2RMAL01505RF	1.5	R 0.5	4	50	4
2RMAL0202RF	2.0	R 0.2	5	50	4
2RMAL0205RF	2.0	R 0.5	5	50	4
2RMAL02502RF	2.5	R 0.2	6	50	4
2RMAL02505RF	2.5	R 0.5	6	50	4
2RMAL0302RF	3.0	R 0.2	8	50	4
2RMAL0302R-3	3.0	R 0.2	8	50	3
2RMAL0305RF	3.0	R 0.5	8	50	4
2RMAL0305R-3	3.0	R 0.5	8	50	3
2RMAL0310RF	3.0	R 1.0	8	50	4
2RMAL0402RF	4.0	R 0.2	10	50	4
2RMAL0405RF	4.0	R 0.5	10	50	4
2RMAL0405R	4.0	R 0.5	10	50	6
2RMAL0410RF	4.0	R 1.0	10	50	4
2RMAL0505R	5.0	R 0.5	13	50	6
2RMAL0510R	5.0	R 1.0	13	50	6
2RMAL0602R	6.0	R 0.2	15	50	6
2RMAL0605R	6.0	R 0.5	15	50	6
2RMAL0610R	6.0	R 1.0	15	50	6
2RMAL0615R	6.0	R 1.5	15	50	6
2RMAL0620R	6.0	R 2.0	15	50	6
2RMAL0805R	8.0	R 0.5	20	60	8
2RMAL0810R	8.0	R 1.0	20	60	8
2RMAL0815R	8.0	R 1.5	20	60	8
2RMAL0820R	8.0	R 2.0	20	60	8
2RMAL1005R	10.0	R 0.5	25	75	10
2RMAL1010R	10.0	R 1.0	25	75	10
2RMAL1015R	10.0	R 1.5	25	75	10
2RMAL1020R	10.0	R 2.0	25	75	10
2RMAL1025R	10.0	R 2.5	25	75	10
2RMAL1030R	10.0	R 3.0	25	75	10
2RMAL1205R	12.0	R 0.5	30	75	12
2RMAL1210R	12.0	R 1.0	30	75	12
2RMAL1215R	12.0	R 1.5	30	75	12
2RMAL1220R	12.0	R 2.0	30	75	12
2RMAL1225R	12.0	R 2.5	30	75	12
2RMAL1230R	12.0	R 3.0	30	75	12

4RM



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Corner R 圓角 R	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
4RMAL0102RF	1.0	R 0.2	2.5	50	4
4RMAL01502RF	1.5	R 0.2	4	50	4
4RMAL01505RF	1.5	R 0.5	4	50	4
4RMAL0202RF	2.0	R 0.2	5	50	4
4RMAL0205RF	2.0	R 0.5	5	50	4
4RMAL02502RF	2.5	R 0.2	6	50	4
4RMAL02505RF	2.5	R 0.5	6	50	4
4RMAL0302RF	3.0	R 0.2	8	50	4
4RMAL0302R-3	3.0	R 0.2	8	50	3
4RMAL0303R-3	3.0	R 0.3	8	50	3
4RMAL0305RF	3.0	R 0.5	8	50	4
4RMAL0305R-3	3.0	R 0.5	8	50	3
4RMAL0310RF	3.0	R 1.0	8	50	4
4RMAL0310R	3.0	R 1.0	8	50	6
4RMAL0402RF	4.0	R 0.2	10	50	4
4RMAL0403RF	4.0	R 0.3	10	50	4
4RMAL0405RF	4.0	R 0.5	10	50	4
4RMAL0410RF	4.0	R 1.0	10	50	4
4RMAL0405R	4.0	R 0.5	10	50	6
4RMAL0410R	4.0	R 1.0	10	50	6
4RMAL0302R	3.0	R 0.2	8	50	6
4RMAL0305R	3.0	R 0.2	8	50	6
4RMAL0402R	4.0	R 0.2	10	50	6
4RMAL0403R	4.0	R 0.3	10	50	6
4RMAL0505R	5.0	R 0.5	13	50	6
4RMAL0510R	5.0	R 1.0	13	50	6
4RMAL0602R	6.0	R 0.2	15	50	6
4RMAL0605R	6.0	R 0.5	15	50	6
4RMAL0610R	6.0	R 1.0	15	50	6
4RMAL0615R	6.0	R 1.5	15	50	6
4RMAL0620R	6.0	R 2.0	15	50	6
4RMAL0805R	8.0	R 0.5	20	60	8
4RMAL0810R	8.0	R 1.0	20	60	8
4RMAL0815R	8.0	R 1.5	20	60	8
4RMAL0820R	8.0	R 2.0	20	60	8
4RMAL1005R	10.0	R 0.5	25	75	10
4RMAL1010R	10.0	R 1.0	25	75	10
4RMAL1015R	10.0	R 1.5	25	75	10
4RMAL1020R	10.0	R 2.0	25	75	10
4RMAL1025R	10.0	R 2.5	25	75	10
4RMAL1030R	10.0	R 3.0	25	75	10
4RMAL1205R	12.0	R 0.5	30	75	12
4RMAL1210R	12·0	R 1·0	30	75	12
4RMAL1215R	12.0	R 1.5	30	75	12
4RMAL1220R	12·0	R 2.0	30	75	12
4RMAL1225R	12,0	R 2.5	30	75	12
4RMAL1230R	12 0	R 3.0	30	75	12



High Speed Cutting
& High Hard Cutting

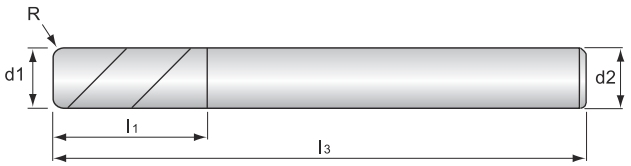
d1 (mm)	R(mm) tolerance	d1(mm) tolerance
1.0	+0.02 0	0 -0.02
1.5	+0.02 0	0 -0.02
2.0	+0.02 0	0 -0.02
2.5	+0.02 0	0 -0.02
3.0	+0.02 0	0 -0.02
4.0	+0.02 0	0 -0.02
5.0	+0.02 0	0 -0.02
6.0	+0.02 0	-0.005 -0.025
8.0	+0.02 0	-0.01 -0.025
10.0	+0.02 0	-0.01 -0.03
12.0	+0.02 0	-0.01 -0.025

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	0 -0.008
Ø 6	0 -0.008
Ø 8	0 -0.008
Ø 10	0 -0.009
Ø 12	0 -0.011



High Speed Cutting
& High Hard Cutting

2LRM



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Corner R 圓角 R	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
2LRMAL0302RF	3.0	R 0.2	8	75	4
2LRMAL0305RF	3.0	R 0.5	8	75	4
2LRMAL0310RF	3.0	R 1.0	8	75	4
2LRMAL0402RF	4.0	R 0.2	10	75	4
2LRMAL0405RF	4.0	R 0.5	10	75	4
2LRMAL0410RF	4.0	R 1.0	10	75	4
2LRMAL0605R	6.0	R 0.5	15	75	6
2LRMAL0610R	6.0	R 1.0	15	75	6
2LRMAL0805R	8.0	R 0.5	20	75	8
2LRMAL0810R	8.0	R 1.0	20	75	8
2LRMAL0405RFB	4.0	R 0.5	10	100	4
2LRMAL0505RB	5.0	R 0.5	13	100	6
2LRMAL0510RB	5.0	R 1.0	13	100	6
2LRMAL0602RB	6.0	R 0.2	15	100	6
2LRMAL0605RB	6.0	R 0.5	15	100	6
2LRMAL0610RB	6.0	R 1.0	15	100	6
2LRMAL0615RB	6.0	R 1.5	15	100	6
2LRMAL0620RB	6.0	R 2.0	15	100	6
2LRMAL0805RB	8.0	R 0.5	20	100	8
2LRMAL0810RB	8.0	R 1.0	20	100	8
2LRMAL0815RB	8.0	R 1.5	20	100	8
2LRMAL0820RB	8.0	R 2.0	20	100	8
2LRMAL1005R	10.0	R 0.5	25	100	10
2LRMAL1010R	10.0	R 1.0	25	100	10
2LRMAL1015R	10.0	R 1.5	25	100	10
2LRMAL1020R	10.0	R 2.0	25	100	10
2LRMAL1030R	10.0	R 3.0	25	100	10
2LRMAL1205R	12.0	R 0.5	30	100	12
2LRMAL1210R	12.0	R 1.0	30	100	12
2LRMAL1215R	12.0	R 1.5	30	100	12
2LRMAL1220R	12.0	R 2.0	30	100	12
2LRMAL1230R	12.0	R 3.0	30	100	12

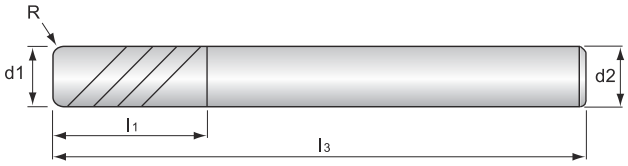
d1 (mm)	d1(mm) tolerance
6.0	$^{-0.01}_{-0.025}$
8.0	$^{-0.01}_{-0.025}$
10.0	$^{-0.01}_{-0.03}$
12.0	$^{-0.01}_{-0.035}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.008}$
Ø 12	$^{0}_{-0.009}$

極細微粒碳化鎢 長柄圓鼻 4刃立銑刀
Micro Grain Carbide, Long-shank, Corner-radius, 4-flute, End Mills

MG | 0.6 µm | 45° | R | 4 Flutes | HRC ▶55 | X CEED

4LRM



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Corner R 圓角 R	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
4LRMAL0302R	3.0	R 0.2	8	75	6
4LRMAL0305RF	3.0	R 0.5	8	75	4
4LRMAL0305R	3.0	R 0.5	8	75	6
4LRMAL0310RF	3.0	R 1.0	8	75	4
4LRMAL0310R	3.0	R 1.0	8	75	6
4LRMAL0402RF	4.0	R 0.2	10	75	4
4LRMAL0405RF	4.0	R 0.5	10	75	4
4LRMAL0410RF	4.0	R 1.0	10	75	4
4LRMAL0402R	4.0	R 0.2	10	75	6
4LRMAL0405R	4.0	R 0.5	10	75	6
4LRMAL0605R	6.0	R 0.5	15	75	6
4LRMAL0610R	6.0	R 1.0	15	75	6
4LRMAL0805R	8.0	R 0.5	20	75	8
4LRMAL0810R	8.0	R 1.0	20	75	8
4LRMAL0405RFB	4.0	R 0.5	10	100	4
4LRMAL0505RB	5.0	R 0.5	13	100	6
4LRMAL0510RB	5.0	R 1.0	13	100	6
4LRMAL0602RB	6.0	R 0.2	15	100	6
4LRMAL0605RB	6.0	R 0.5	15	100	6
4LRMAL0610RB	6.0	R 1.0	15	100	6
4LRMAL0615RB	6.0	R 1.5	15	100	6
4LRMAL0620RB	6.0	R 2.0	15	100	6
4LRMAL0805RB	8.0	R 0.5	20	100	8
4LRMAL0810RB	8.0	R 1.0	20	100	8
4LRMAL0815RB	8.0	R 1.5	20	100	8
4LRMAL0820RB	8.0	R 2.0	20	100	8
4LRMAL1005R	10.0	R 0.5	25	100	10
4LRMAL1010R	10.0	R 1.0	25	100	10
4LRMAL1015R	10.0	R 1.5	25	100	10
4LRMAL1020R	10.0	R 2.0	25	100	10
4LRMAL1030R	10.0	R 3.0	25	100	10
4LRMAL1205R	12.0	R 0.5	30	100	12
4LRMAL1210R	12.0	R 1.0	30	100	12
4LRMAL1215R	12.0	R 1.5	30	100	12
4LRMAL1220R	12.0	R 2.0	30	100	12
4LRMAL1230R	12 0	R 3.0	30	100	12



High Speed Cutting
& High Hard Cutting

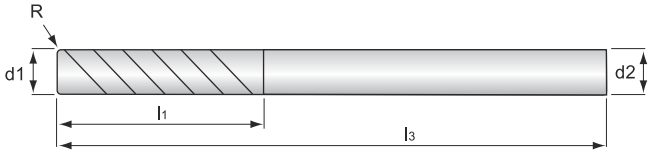
d1 (mm)	R(mm) tolerance	d1(mm) tolerance
4.0	$^{+0.02}_{0}$	$^{0}_{-0.02}$
6.0	$^{+0.02}_{0}$	$^{-0.005}_{-0.025}$
8.0	$^{+0.03}_{0}$	$^{-0.01}_{-0.025}$
10.0	$^{+0.03}_{0}$	$^{-0.01}_{-0.03}$
12.0	$^{+0.03}_{0}$	$^{-0.01}_{-0.035}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$



High Speed Cutting
& High Hard Cutting

H60RW



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Corner R 圓角 R	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
H60RWAL0605R	6.0	R 0.5	16	50	6
H60RWAL0610R	6.0	R 1.0	16	50	6
H60RWAL0805R	8.0	R 0.5	20	60	8
H60RWAL0810R	8.0	R 1.0	20	60	8
H60RWAL1010R	10.0	R 1.0	25	75	10
H60RWAL1210R	12.0	R 1.0	30	75	12
H60RWAL1610R	16.0	R 1.0	40	100	16
H60RWAL1620R	16.0	R 2.0	40	100	16
H60RWAL2020R	20.0	R 2.0	45	100	20

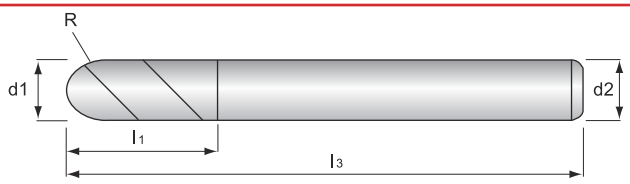
d1 (mm)	R(mm) tolerance	d1(mm) tolerance
6.0	$^{+0.02}_{0}$	$^{0}_{-0.025}$
8.0	$^{+0.02}_{0}$	$^{0}_{-0.025}$
10.0	$^{+0.02}_{0}$	$^{0}_{-0.03}$
12.0	$^{+0.03}_{0}$	$^{0}_{-0.03}$
16.0	$^{+0.03}_{0}$	$^{0}_{-0.04}$
20.0	$^{+0.03}_{0}$	$^{0}_{-0.04}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$

極細微粒碳化鎢 2刃球型立銑刀(鋁合金專用)
Micro Grain Carbide, 2- flute, Ball End Mills (for Aluminum Alloys Processing)

MG | 0.6 μm | 30° | 2 Flutes | S S type

UR



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
UR010F	R 0.5	2	50	4
UR015F	R 0.75	3	50	4
UR020F	R 1.0	4	50	4
UR030F	R 1.5	6	50	4
UR040F	R 2.0	8	50	4
UR040	R 2.0	8	50	6
UR050	R 2.5	10	50	6
UR060	R 3.0	12	50	6
UR080	R 4.0	16	60	8
UR100	R 5.0	20	75	10
UR120	R 6.0	24	75	12
UR160	R 8.0	32	100	16
UR200	R 10 0	32	100	20



High Speed Cutting
& High Hard Cutting

d1 (mm)	d1(mm) tolerance
R1	±0.01
R1.5	±0.01
R2	±0.01
R2.5	±0.01
R3	±0.01
R4	±0.01
R5	±0.01
R6	±0.015
R8	±0.02
R10	±0.02

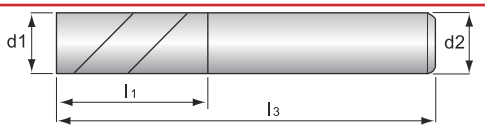
Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$



High Speed Cutting
& High Hard Cutting

155WW

Micro Diameter



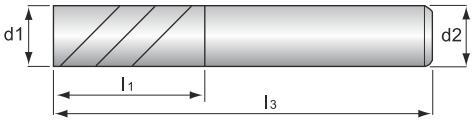
Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
155WW010F	1.0	2.5	50	4
155WW010	1.0	2.5	50	6
155WW015F	1.5	4	50	4
155WW015-3	1.5	4	50	3
155WW020F	2.0	5	50	4
155WW020	2.0	5	50	6
155WW025F	2.5	6	50	4
155WW025	2.5	7	50	6
155WW030F	3.0	8	50	4
155WW030	3.0	8	50	6
155WW040F	4.0	10	50	4
155WW040	4.0	10	50	6
155WW050	5.0	13	50	6
155WW060	6.0	15	50	6
155WW070	7.0	20	60	8
155WW080	8.0	20	60	8
155WW090	9.0	25	75	10
155WW100	10.0	25	75	10
155WW110	11.0	28	75	12
155WW120	12.0	30	75	12
155WW160	16.0	45	100	16
155WW200	20.0	45	100	20



155WW 極細微粒碳化鎢 3刃立銑刀(鋁合金專用)

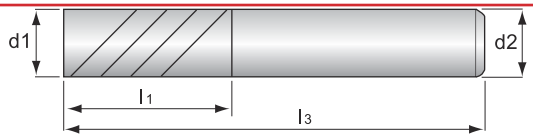
Micro Grain Carbide, 3- flute, End Mills (for Aluminum Alloys Processing)

Micro Diameter



Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
155WW015FX3T	1.5	4	50	4
155WW020FX3T	2.0	5	50	4
155WW025FX3T	2.5	6	50	4
155WW030X3T-3	3.0	8	50	3
155WW030FX3T	3.0	8	50	4
155WW030X3T	3.0	8	50	6
155WW040X3T	4.0	10	50	6
155WW040FX3T	4.0	10	50	4
155WW050X3T	5.0	13	50	6
155WW060X3T	6.0	15	50	6
155WW070X3T	7.0	20	60	8
155WW080X3T	8.0	20	60	8
155WW090X3T	9.0	25	75	10
155WW100X3T	10.0	25	75	10
155WW120X3T	12.0	30	75	12
155WW140X3T	14.0	35	100	14
155WW160X3T	16.0	45	100	16
155WW180X3T	18.0	45	100	20
155WW200X3T	20.0	45	100	20





Micro Diameter

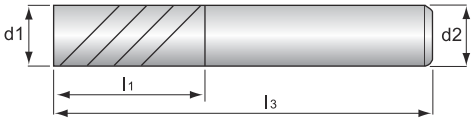
Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
L155WW030-3	3.0	12	75	3
L155WW030F	3.0	12	75	4
L155WW030	3.0	12	75	6
L155WW040	4.0	16	75	6
L155WW040F	4.0	16	75	4
L155WW050	5.0	20	75	6
L155WW060	6.0	25	75	6
L155WW080	8.0	32	75	8
L155WW080B	8.0	35	100	8
L155WW100	10.0	40	100	10
L155WW120	12.0	45	100	12
XL155WW160	16,0	65	150	16
XL155WW200	20 0	75	150	20





極細微粒碳化鎢 長刃 3刃立銑刀(鋁合金專用)
Micro Grain Carbide, Long-flute, 3- flute, End Mills (for Aluminum Alloys Processing)

High Speed Cutting
& High Hard Cutting



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
L155WW030X3T-3	3.0	12	75	3
L155WW030FX3T	3.0	12	75	4
L155WW030X3T	3.0	12	75	6
L155WW040X3T	4.0	16	75	6
L155WW050X3T	5.0	20	75	6
L155WW060X3T	6.0	25	75	6
L155WW060BX3T	6.0	25	100	6
L155WW080X3T	8.0	32	75	8
L155WW080BX3T	8.0	35	100	8
L155WW100X3T	10.0	40	100	10
L155WW120X3T	12.0	45	100	12
XL155WW160X3T	16.0	65	150	16
XL155WW180X3T	18.0	75	150	20
XL155WW200X3T	20.0	75	150	20

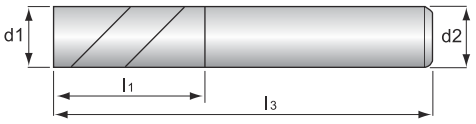


極細微粒碳化鎢 2刃 鏡面立銑刀(鋁合金專用)
Micro Grain Carbide, 2- flute, Smooth Surface End Mills (for Aluminum Alloys Processing)

Super MG | 0.6 μm | 45° | 2 Flutes | H



145WW



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
145WW020AF	2	5	50	4
145WW020A	2	5	50	6
145WW030AF	3	8	50	4
145WW030A	3	8	50	6
145WW040AF	4	10	50	4
145WW040A	4	10	50	6
145WW050A	5	13	50	6
145WW060A	6	15	50	6
145WW080A	8	20	60	8
145WW100A	10	25	75	10
145WW120A	12	30	75	12
145WW160A	16	45	100	16

New

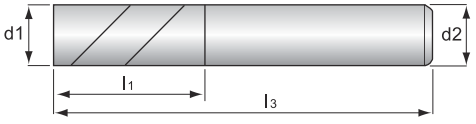
High Speed Cutting
& High Hard Cutting



145WW

極細微粒碳化鎢 3刃 鏡面立銑刀(鋁用金專用)
Micro Grain Carbide, 3- flute, Smooth Surface End Mills (for Aluminum Alloys Processing)

Super MG | 0.6 μm | 45° | 3 Flutes | H



Micro Diameter

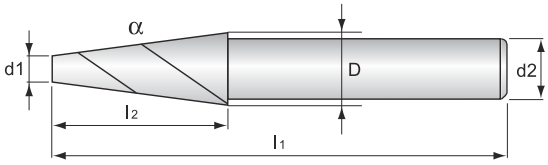
Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
145WW010AFX3T	1	2.5	50	4
145WW020AFX3T	2	5	50	4
145WW030AFX3T	3	8	50	4
145WW030AX3T	3	8	50	6
145WW040AFX3T	4	10	50	4
145WW040AX3T	4	10	50	6
145WW050AX3T	5	13	50	6
145WW060AX3T	6	15	50	6
145WW070AX3T	7	18	60	8
145WW080AX3T	8	20	60	8
145WW090AX3T	9	22	75	10
145WW100AX3T	10	25	75	10
145WW120AX3T	12	30	75	12
145WW160AX3T	16	45	100	16

New

極細微粒碳化鎢 斜度刀 2刃立銑刀
Micro Grain Carbide, Taper, 2- flute, End Mills

MG | 0.6 μm | 35° | 2 Flutes | HRC ▶55 | X CEED

TPM



Micro Diameter

Type No. 型 號	Diameter 先徑端 d1	Flute Length 刃長 l2	Taper Angle 斜度 a	Large Mill Dia. 粗端徑D	O. A. L. 全長 l1	Shank Dia. 柄徑 d2
TPM1ø0.5°	1.0	4	0.5°	1.07	50	4
TPM1ø1°	1.0	4	1°	1.14	50	4
TPM1ø1.5°	1.0	4	1.5°	1.21	50	4
TPM1ø2°	1.0	4	2°	1.28	50	4
TPM1ø2.5°	1.0	4	2.5°	1.35	50	4
TPM1ø3°	1.0	4	3°	1.42	50	4
TPM1ø5°	1.0	5	5°	1.7	50	4
TPM1ø7°	1.0	5	7°	1.98	50	4
TPM1ø10°	1.0	5	10°	2.41	50	4
TPM1.5ø0.5°	1.5	5	0.5°	1.59	50	4
TPM1.5ø1°	1.5	5	1°	1.67	50	4
TPM1.5ø1.5°	1.5	5	1.5°	1.76	50	4
TPM1.5ø2°	1.5	5	2°	1.85	50	4
TPM1.5ø2.5°	1.5	5	2.5°	1.93	50	4
TPM1.5ø3°	1.5	5	3°	2.02	50	4
TPM1.5ø5°	1.5	5	5°	2.37	50	4
TPM1.5ø7°	1.5	5	7°	2.73	50	4
TPM1.5ø10°	1.5	5	10°	3.26	50	4
TPM2ø0.5°	2.0	6	0.5°	2.10	50	4
TPM2ø1°	2.0	6	1°	2.21	50	4
TPM2ø1.5°	2.0	6	1.5°	2.31	50	4
TPM2ø2°	2.0	6	2°	2.41	50	4
TPM2ø2.5°	2.0	6	2.5°	2.52	50	4
TPM2ø3°	2.0	6	3°	2.62	50	4
TPM2ø5°	2.0	6	5°	3.05	50	4
TPM2ø7°	2.0	6	7°	3.47	50	4
TPM2ø10°	2.0	6	10°	4.12	50	4
TPM2.5ø0.5°	2.5	8	0.5°	2.64	50	4
TPM2.5ø1°	2.5	8	1°	2.78	50	4
TPM2.5ø1.5°	2.5	8	1.5°	2.91	50	4
TPM2.5ø2°	2.5	8	2°	3.05	50	4
TPM2.5ø2.5°	2.5	8	2.5°	3.20	50	4
TPM2.5ø3°	2.5	8	3°	3.33	50	4
TPM2.5ø5°	2.5	8	5°	3.90	50	4
TPM2.5ø7°	2.5	8	7°	4.46	50	4
TPM2.5ø10°	2.5	8	10°	5.32	50	4
TPM3ø0.5°	3.0	10	0.5°	3.17	50	4
TPM3ø1°	3.0	10	1°	3.35	50	4
TPM3ø1.5°	3.0	10	1.5°	3.52	50	4
TPM3ø2°	3.0	10	2°	3.69	50	4
TPM3ø2.5°	3.0	10	2.5°	3.87	50	4
TPM3ø3°	3.0	10	3°	4.05	50	6
TPM3ø5°	3.0	10	5°	4.75	50	6
TPM3ø7°	3.0	10	7°	5.45	50	6
TPM3ø10°	3.0	10	10°	6.53	60	8

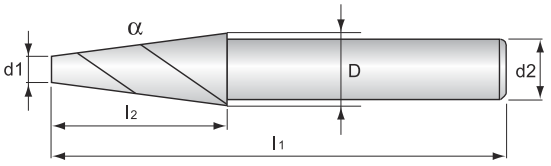


High Speed Cutting
& High Hard Cutting



High Speed Cutting
& High Hard Cutting

TPM



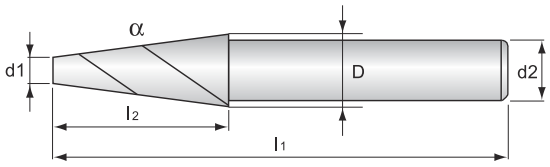
Micro Diameter

Type No. 型 號	Diameter 先徑端 d1	Flute Length 刃長 l2	Taper Angle 斜度 α	Large Mill Dia. 粗端徑D	O. A. L. 全長 l1	Shank Dia. 柄徑 d2
TPM4ø0.5°	4.0	15	0.5°	4.26	50	6
TPM4ø1°	4.0	15	1°	4.52	50	6
TPM4ø1.5°	4.0	15	1.5°	4.79	50	6
TPM4ø2°	4.0	15	2°	5.04	50	6
TPM4ø2.5°	4.0	15	2.5°	5.31	50	6
TPM4ø3°	4.0	15	3°	5.57	50	6
TPM4ø5°	4.0	15	5°	6.62	60	8
TPM4ø7°	4.0	15	7°	7.68	60	8
TPM4ø10°	4.0	15	10°	9.30	75	10
TPM5ø0.5°	5.0	20	0.5°	5.34	50	6
TPM5ø1°	5.0	20	1°	5.70	50	6
TPM5ø1.5°	5.0	20	1.5°	6.04	60	8
TPM5ø2°	5.0	20	2°	6.39	60	8
TPM5ø2.5°	5.0	20	2.5°	6.74	60	8
TPM5ø3°	5.0	20	3°	7.10	60	8
TPM5ø5°	5.0	20	5°	8.50	75	10
TPM5ø7°	5.0	20	7°	9.91	75	10
TPM5ø10°	5.0	20	10°	12.05	75	12
TPM6ø0.5°	6.0	20	0.5°	6.35	60	8
TPM6ø1°	6.0	20	1°	6.70	60	8
TPM6ø1.5°	6.0	20	1.5°	7.05	60	8
TPM6ø2°	6.0	20	2°	7.40	60	8
TPM6ø2.5°	6.0	20	2.5°	7.75	60	8
TPM6ø3°	6.0	20	3°	8.10	75	10
TPM6ø5°	6.0	20	5°	9.50	75	10
TPM6ø7°	6.0	20	7°	10.91	75	12
TPM6ø10°	6.0	20	10°	13.05	75	12
TPM8ø0.5°	8.0	25	0.5°	8.44	75	10
TPM8ø1°	8.0	25	1°	8.87	75	10
TPM8ø1.5°	8.0	25	1.5°	9.31	75	10
TPM8ø2°	8.0	25	2°	9.74	75	10
TPM8ø2.5°	8.0	25	2.5°	10.18	75	12
TPM8ø3°	8.0	25	3°	10.62	75	12
TPM8ø5°	8.0	25	5°	12.37	100	16
TPM8ø7°	8.0	25	7°	14.14	100	16
TPM8ø10°	8.0	25	10°	16.82	100	16
TPM10ø0.5°	10.0	35	0.5°	10.61	100	16
TPM10ø1°	10.0	35	1°	11.22	100	16
TPM10ø1.5°	10.0	35	1.5°	11.83	100	16
TPM10ø2°	10.0	35	2°	12.44	100	16
TPM10ø2.5°	10.0	35	2.5°	13.06	100	16
TPM10ø3°	10.0	35	3°	13.67	100	16
TPM10ø5°	10.0	35	5°	16.12	100	16
TPM10ø7°	10.0	35	7°	18.30	100	16
TPM10ø10°	10.0	35	10°	22.34	100	16

極細微粒碳化鎢 斜度刀 4刃立銑刀
Micro Grain Carbide, Taper, 4- flute, End Mills

MG | 0.6 μm | 35° | 4 Flutes | HRC ▶55 | X CEED

TPM



Micro Diameter

Type No. 型號	Diameter 先徑端 d1	Flute Length 刃長 l2	Taper Angle 斜度 a	Large Mill Dia. 粗端徑D	O. A. L. 全長 l1	Shank Dia. 柄徑 d2
4TPM3ø0.5°	3.0	10	0.5°	3.17	50	4
4TPM3ø1°	3.0	10	1°	3.35	50	4
4TPM3ø1.5°	3.0	10	1.5°	3.52	50	4
4TPM3ø2°	3.0	10	2°	3.07	50	4
4TPM3ø3°	3.0	10	3°	4.05	50	6
4TPM3ø5°	3.0	10	5°	4.75	50	6
4TPM4ø0.5°	4.0	15	0.5°	4.26	50	6
4TPM4ø1°	4.0	15	1°	4.52	50	6
4TPM4ø1.5°	4.0	15	1.5°	4.79	50	6
4TPM4ø2°	4.0	15	2°	5.05	50	6
4TPM4ø3°	4.0	15	3°	5.57	50	6
4TPM4ø5°	4.0	15	5°	6.62	60	8
4TPM5ø0.5°	5.0	20	0.5°	5.35	50	6
4TPM5ø1°	5.0	20	1°	5.70	50	6
4TPM5ø1.5°	5.0	20	1.5°	6.05	60	8
4TPM5ø2°	5.0	20	2°	6.40	60	8
4TPM5ø3°	5.0	20	3°	7.10	60	8
4TPM5ø5°	5.0	20	5°	8.50	75	10
4TPM6ø0.5°	6.0	20	0.5°	6.35	75	8
4TPM6ø1°	6.0	20	1°	6.70	75	8
4TPM6ø1.5°	6.0	20	1.5°	7.05	75	8
4TPM6ø2°	6.0	20	2°	7.40	75	8
4TPM6ø3°	6.0	20	3°	8.10	75	10
4TPM6ø5°	6.0	20	5°	9.50	75	10
4TPM8ø0.5°	8.0	25	0.5°	8.44	75	10
4TPM8ø1°	8.0	25	1°	8.87	75	10
4TPM8ø1.5°	8.0	25	1.5°	9.31	75	10
4TPM8ø2°	8.0	25	2°	9.75	75	10
4TPM8ø3°	8.0	25	3°	10.62	75	12
4TPM8ø5°	8.0	25	5°	12.37	100	16
4TPM10ø0.5°	10.0	35	0.5°	10.61	100	16
4TPM10ø1°	10.0	35	1°	11.22	100	16
4TPM10ø1.5°	10.0	35	1.5°	11.83	100	16
4TPM10ø2°	10.0	35	2°	12.44	100	16
4TPM10ø3°	10.0	35	3°	13.67	100	16
4TPM10ø5°	10.0	35	5°	16.00	100	16



High Speed Cutting
& High Hard Cutting



High Speed Cutting
& High Hard Cutting

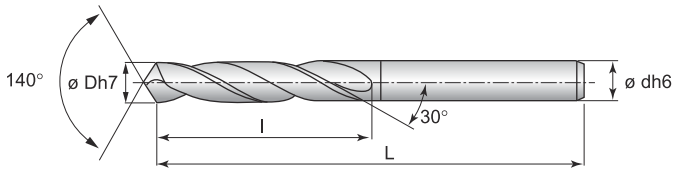
SNCD

Micro Diameter

Type No. 型號	Diameter 先徑端 d1	Flute Length 刃長 l_2	O. A. L. 全長 l_1	Shank Dia. 柄徑 d2
SNCD030	3.0	6	50	3
SNCD040	4.0	8	50	4
SNCD040-75	4.0	8	75	4
SNCD040-100	4.0	8	100	4
SNCD060	6.0	12	50	6
SNCD060-75	6.0	12	75	6
SNCD060-100	6.0	12	100	6
SNCD060-150	6.0	12	150	6
SNCD080	8.0	16	60	8
SNCD080-100	8.0	16	100	8
SNCD080-150	8.0	16	150	8
SNCD080-200	8.0	16	200	8
SNCD0100	10.0	20	75	10
SNCD0100-100	10.0	20	100	10
SNCD0100-150	10.0	20	150	10
SNCD0100-200	10.0	20	200	10
SNCD0120	12.0	24	75	12
SNCD120-100	12.0	24	100	12
SNCD120-150	12.0	24	150	12
SNCD120-200	12.0	24	200	12
SNCD160	16.0	30	100	16
SNCD160-150	16.0	30	150	16
SNCD160-200	16.0	30	200	16
SNCD200	20.0	30	100	20
SNCD200-150	20.0	30	150	20
SNCD200-200	20.0	30	200	20

註:150L / 200L 為訂製品

鋼用全鎢鋼鑽頭 Solid Carbide Drills For Steel



Micro Diameter

	Flute Length 刃長 l	O. A. L. 全長 L	Shank Dia. 柄徑
M132-020	12	38	2.0
M132-021	12	38	2.1
M132-022	13	40	2.2
M132-023	13	40	2.3
M132-024	14	43	2.4
M132-025	14	43	2.5
M132-026	14	43	2.6
M132-027	16	46	2.7
M132-028	16	46	2.8
M132-029	16	46	2.9
M132-030	16	46	3.0
M132-031	18	49	3.1
M132-032	18	49	3.2
M132-033	18	49	3.3
M132-034	20	52	3.4
M132-035	20	52	3.5
M132-036	20	52	3.6
M132-037	20	52	3.7
M132-038	22	55	3.8
M132-039	22	55	3.9
M132-040	22	55	4.0
M132-041	22	55	4.1
M132-042	22	55	4.2

Type No. 型號	Flute Length 刃長 l	O. A. L. 全長 L	Shank Dia. 柄徑
M132-043	24	58	4.3
M132-044	24	58	4.4
M132-045	24	58	4.5
M132-046	24	58	4.6
M132-047	24	58	4.7
M132-048	26	62	4.8
M132-049	26	62	4.9
M132-050	26	62	5.0
M132-051	26	62	5.1
M132-052	26	62	5.2
M132-053	26	62	5.3
M132-054	28	66	5.4
M132-055	28	66	5.5
M132-056	28	66	5.6
M132-057	28	66	5.7
M132-058	28	66	5.8
M132-059	28	66	5.9
M132-060	28	66	6.0
M132-061	31	70	6.1
M132-062	31	70	6.2
M132-063	31	70	6.3
M132-064	31	70	6.4
M132-065	31	70	6.5

* 6MM以下另有銑刀柄，請來電洽詢。



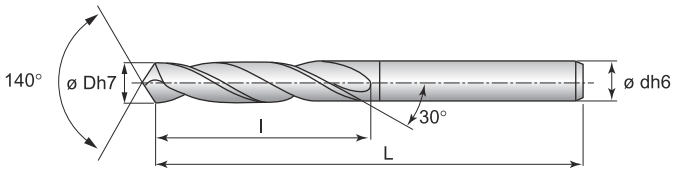
High Speed Cutting
& High Hard Cutting

● 最適於鋼材、極難切削材之孔加工

被削材 Working Material	普通鋼・合成鋼 Carbon Steel, Alloy Steel					
	(<HRC30 未滿)		(HRC30~45)		(HRC45~55)	
切削速度 Cutting Speed	80 m/nin		60 m/nin		15 m/nin	
刃徑 D	回轉數 Speed (rpm)	進給 Feed (mm/min)	回轉數 Speed (rpm)	進給 Feed (mm/min)	回轉數 Speed (rpm)	進給 Feed (mm/min)
3	8500	1300	6400	770	1600	160
4	6400	1150	4800	670	1200	130
6	4200	880	3200	540	800	100
8	3200	800	2400	480	600	85
10	2500	680	1900	420	480	70
12	2100	610	1600	370	400	65



High Speed Cutting
& High Hard Cutting



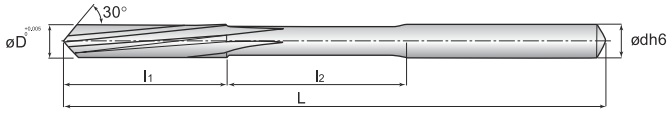
Type No. 型號	Flute Length 刃長 l	O. A. L. 全長 L	Shank Dia. 柄徑
M132-066	31	70	6.6
M132-067	31	70	6.7
M132-068	34	74	6.8
M132-069	34	74	6.9
M132-070	34	74	7.0
M132-071	34	74	7.1
M132-072	34	74	7.2
M132-073	34	74	7.3
M132-074	34	74	7.4
M132-075	34	74	7.5
M132-076	37	79	7.6
M132-077	37	79	7.7
M132-078	37	79	7.8
M132-079	37	79	7.9
M132-080	37	79	8.0
M132-081	37	79	8.1
M132-082	37	79	8.2
M132-083	37	79	8.3
M132-084	37	79	8.4
M132-085	37	79	8.5
M132-086	40	84	8.6
M132-087	40	84	8.7
M132-088	40	84	8.8

Type No. 型號	Flute Length 刃長 l	O. A. L. 全長 L	Shank Dia. 柄徑
M132-089	40	84	8.9
M132-090	40	84	9.0
M132-091	40	84	9.1
M132-092	40	84	9.2
M132-093	40	84	9.3
M132-094	40	84	9.4
M132-095	40	84	9.5
M132-096	43	84	9.6
M132-097	43	84	9.7
M132-098	43	84	9.8
M132-099	43	84	9.9
M132-100	43	84	10.0
M132-102	43	89	10.2
M132-105	43	89	10.5
M132-110	47	95	11.0
M132-115	47	95	11.5
M132-117	47	95	11.7
M132-118	47	95	11.8
M132-119	51	95	11.9
M132-120	51	102	12.0
M132-125	51	102	12.5
M132-130	51	102	13.0

最適於鋼材、極難切削材之孔加工

被削材 Working Material	不鏽鋼 Stainless Steel (SUS302, 304)		球狀黑鉛鑄鐵 Graphite Cast Iron (FCD60,61)	
切削速度 Cutting Speed	20 m/nin		66 m/nin	
刃徑 D	回轉數 Speed (rpm)	進給 Feed (mm/min)	回轉數 Speed (rpm)	進給 Feed (mm/min)
3	2100	210	7000	1050
4	1600	180	5300	900
6	1050	130	3500	700
8	800	110	2600	600
10	640	100	2000	520
12	540	90	1750	450

全鎢鋼絞刀 Solid Carbide Reamers (Straight Shank)



Micro Diameter

Type No. 型號	Shank Dia 柄徑	Flute Length 刃長 l_1	O. A. L. 全長 L	Effective Length 有效長 l_2	Flute No. 刃數
SCR020	2.0	11	49	24	4
SCR021	2.1	11	49	24	4
SCR022	2.2	12	53	26	4
SCR023	2.3	12	53	26	4
SCR024	2.4	14	57	28	4
SCR025	2.5	14	57	28	4
SCR026	2.6	14	57	28	4
SCR027	2.7	15	61	32	4
SCR028	2.8	15	61	32	4
SCR029	2.9	15	61	32	4
SCR030	3.0	15	61	32	4
SCR031	3.1	16	65	35	4
SCR032	3.2	16	65	35	4
SCR033	3.3	16	65	35	4
SCR034	3.4	18	70	40	4
SCR035	3.5	18	70	40	4
SCR036	3.6	18	70	40	4
SCR037	3.7	18	70	40	4
SCR038	3.8	19	75	43	4
SCR039	3.9	19	75	43	4
SCR040	4.0	19	75	43	4
SCR041	4.1	19	75	43	4
SCR042	4.2	19	75	43	4
SCR043	4.3	21	80	47	4
SCR044	4.4	21	80	47	4
SCR045	4.5	21	80	47	4
SCR046	4.6	21	80	47	4
SCR047	4.7	21	80	47	4
SCR048	4.8	23	86	52	4
SCR049	4.9	23	86	52	4
SCR050	5.0	23	86	52	4
SCR051	5.1	23	86	52	4
SCR052	5.2	23	86	52	4
SCR053	5.3	23	86	52	4

被削材 / 切削條件		炭素鋼・高硬度合金鋼 (SKD, SUS)		鋁合金	
		切削速度：5 - 9 m/nin		切削速度：10 - 20m/nin	
刃徑	預留削除量	回轉數 (rpm)	進給 (mm/min)	回轉數 (rpm)	進給 (mm/min)
2	0.1 - 0.2	1000	0.1 - 0.2	2800	0.2 - 0.3
4	0.1 - 0.2	500	0.1 - 0.2	1400	0.2 - 0.3
6	0.2 - 0.3	340	0.2 - 0.3	950	0.2 - 0.3
8	0.2 - 0.3	250	0.2 - 0.3	720	0.3 - 0.4
10	0.2 - 0.3	190	0.2 - 0.3	570	0.3 - 0.4
12	0.2 - 0.3	160	0.2 - 0.3	480	0.4 - 0.5

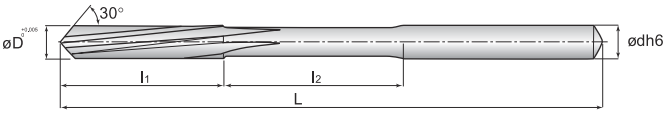


High Speed Cutting
& High Hard Cutting



High Speed Cutting
& High Hard Cutting

SCR



Micro Diameter

Type No. 型 號	Shank Dia 柄徑	Flute Length 刃長 l_1	O. A. L. 全長 L	Effective Length 有效長 l_2	Flute No. 刃數
SCR054	5.4	26	93	57	4
SCR055	5.5	26	93	57	4
SCR056	5.6	26	93	57	4
SCR057	5.7	26	93	57	4
SCR058	5.8	26	93	57	4
SCR059	5.9	26	93	57	4
SCR060	6.0	26	93	57	6
SCR061	6.1	28	101	63	6
SCR062	6.2	28	101	63	6
SCR063	6.3	28	101	63	6
SCR064	6.4	28	101	63	6
SCR065	6.5	28	101	63	6
SCR066	6.6	31	110	63	6
SCR067	6.7	31	110	63	6
SCR068	6.8	31	110	69	6
SCR069	6.9	31	110	69	6
SCR070	7.0	31	110	69	6
SCR071	7.1	31	110	69	6
SCR072	7.2	31	110	69	6
SCR073	7.3	31	110	69	6
SCR074	7.4	31	110	69	6
SCR075	7.5	31	110	69	6
SCR076	7.6	31	110	75	6
SCR078	7.8	31	110	75	6
SCR079	7.9	31	110	75	6
SCR080	8.0	31	110	75	6
SCR085	8.5	31	110	75	6
SCR090	9.0	33	110	80	6
SCR095	9.5	33	110	80	6
SCR100	10.0	36	110	90	6
SCR110	11.0	41	142	95	6
SCR120	12.0	44	151	105	6
SCR130	13.0	44	151	105	6

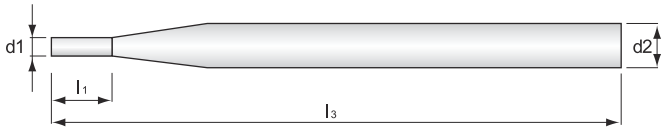
鑄鐵 (FC, FCD)	
切削速度:9 - 12m/nin	
回轉數 (rpm)	進給 (mm/min)
1800	0.2 - 0.3
940	0.2 - 0.3
630	0.2 - 0.3
470	0.3 - 0.4
380	0.3 - 0.4
300	0.3 - 0.5

- 螺旋刃
  使用超微粒超硬合金
  最適於高精度、高效率化

注1：絞孔加工依使用機械及作業條件而其最佳切削條件亦隨之變動，因此應適宜調整為要。

注2：切削油請充分使用具有潤滑性之不水溶性切削油。





Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
SED001	0.1	0.2	50	4
SED002	0.2	0.4	50	4
SED003	0.3	0.6	50	4
SED004	0.4	0.8	50	4
SED005	0.5	1.0	50	4
SED006	0.6	1.2	50	4
SED007	0.7	1.4	50	4
SED008	0.8	1.6	50	4
SED009	0.9	1.8	50	4
SED011	1.1	3.0	50	4
SED012	1.2	3.0	50	4
SED014	1.4	3.5	50	4
SED016	1.6	4.0	50	4
SED018	1.8	5.0	50	4
SED019	1.9	5.0	50	4
SED001-3	0.1	0.2	50	3
SED002-3	0.2	0.4	50	3
SED003-3	0.3	0.6	50	3
SED004-3	0.4	0.8	50	3
SED005-3	0.5	1.0	50	3
SED006-3	0.6	1.2	50	3
SED007-3	0.7	1.4	50	3
SED008-3	0.8	1.6	50	3
SED009-3	0.9	1.8	50	3



High Speed Cutting
& High Hard Cutting

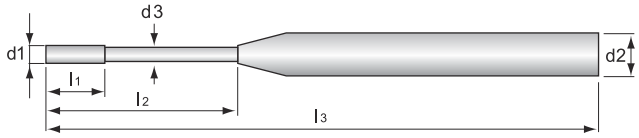
d1 (mm)	d1(mm) tolerance
0.1	$^{0}_{-0.015}$
0.2	$^{0}_{-0.015}$
0.3	$^{0}_{-0.015}$
0.4	$^{0}_{-0.015}$
0.5	$^{0}_{-0.02}$
0.6	$^{0}_{-0.02}$
0.7	$^{0}_{-0.02}$
0.8	$^{0}_{-0.02}$
1.0	$^{0}_{-0.02}$
1.2	$^{0}_{-0.02}$
1.5	$^{0}_{-0.02}$
1.6	$^{0}_{-0.02}$
1.8	$^{0}_{-0.02}$
2.0	$^{0}_{-0.02}$
2.5	$^{0}_{-0.02}$
3.0	$^{0}_{-0.02}$
4.0	$^{0}_{-0.02}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	$^{0}_{-0.008}$



High Speed Cutting
& High Hard Cutting

HSE



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Neck Dia d3	Flute Length 刃長 l_1	Effective Length 有效長 l_2	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
HSE0502	0.5	0.46	0.8	2	50	4
HSE0504	0.5	0.46	0.8	4	50	4
HSE0506	0.5	0.46	0.8	6	50	4
HSE1006	1.0	0.95	1.5	6	50	4
HSE1008	1.0	0.95	1.5	8	50	4
HSE1010	1.0	0.95	1.5	10	50	4
HSE1012	1.0	0.95	1.5	12	50	4
HSE1508	1.5	1.44	2.0	8	50	4
HSE1510	1.5	1.44	2.0	10	50	4
HSE1512	1.5	1.44	2.0	12	50	4
HSE1516	1.5	1.44	2.0	16	50	4
HSE2008	2.0	1.92	3.0	8	50	4
HSE2010	2.0	1.92	3.0	10	50	4
HSE2012	2.0	1.92	3.0	12	50	4
HSE2016	2.0	1.92	3.0	16	50	4
HSE2020	2.0	1.92	3.0	20	50	4
HSE2510	2.5	2.40	3.0	10	50	4
HSE2512	2.5	2.40	3.0	12	50	4
HSE2516	2.5	2.40	3.0	16	50	4
HSE2520	2.5	2.40	3.0	20	50	4
HSE3010	3.0	2.90	4.0	10	50	6
HSE3012	3.0	2.90	4.0	12	50	6
HSE3016	3.0	2.90	4.0	16	50	6
HSE3020	3.0	2.90	4.0	20	60	6
HSE3025	3.0	2.90	4.0	25	60	6
HSE4012	4.0	3.90	5.0	12	75	6
HSE4014	4.0	3.90	5.0	14	75	6
HSE4016	4.0	3.90	5.0	16	75	6
HSE4020	4.0	3.90	5.0	20	75	6
HSE4025	4.0	3.90	5.0	25	75	6

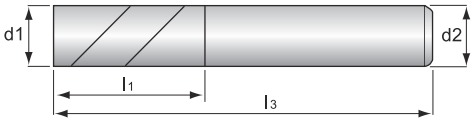
d1 (mm)	d1(mm) tolerance
0.5	$^{0}_{-0.02}$
1.0	$^{0}_{-0.02}$
1.5	$^{0}_{-0.02}$
2.0	$^{0}_{-0.02}$
2.5	$^{0}_{-0.02}$
3.0	$^{0}_{-0.02}$
4.0	$^{0}_{-0.02}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	$^{0}_{-0.008}$
Ø 6	$^{0}_{-0.008}$

極細微粒碳化鎢 2刃立銑刀
Micro Grain Carbide, 2- flute, End Mills

Super MG | 0.4 μm | 35° | 2 Flutes | HRC ▶60 | X CEED

SED



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
SED352010F	1.0	2.5	50	4
SED352015F	1.5	4	50	4
SED352020F	2.0	5	50	4
SED352025F	2.5	7	50	4
SED352030F	3.0	8	50	4
SED352035F	3.5	10	50	4
SED352040F	4.0	10	50	4
SED352045	4.5	13	50	6
SED352050	5.0	13	50	6
SED352055	5.5	13	50	6
SED352060	6.0	15	50	6
SED352065	6.5	15	60	8
SED352070	7.0	17	60	8
SED352075	7.5	17	60	8
SED352080	8.0	20	60	8
SED352085	8.5	25	75	10
SED352090	9.0	25	75	10
SED352095	9.5	25	75	10
SED352100	10.0	25	75	10
SED352105	10.5	25	75	12
SED352110	11.0	28	75	12
SED352115	11.5	28	75	12
SED352120	12.0	30	75	12
SED352130	13.0	33	100	16
SED352140	14.0	35	100	16
SED352150	15.0	38	100	16
SED352160	16.0	45	100	16
SED352170	17.0	45	100	18
SED352180	18.0	45	100	18
SED352190	19.0	45	100	20
SED352200	20.0	45	100	20
SED352250	25.0	45	100	25

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
SED352010-3	1.0	2.5	50	3
SED352015-3	1.5	4	50	3
SED352020-3	2.0	5	50	3
SED352025-3	2.5	7	50	3
SED352030-3	3.0	8	50	3
SED352-010	1.0	2.5	50	6
SED352-015	1.5	4	50	6
SED352-020	2.0	5	50	6
SED352-025	2.5	7	50	6
SED352-030	3.0	8	50	6
SED352-035	3.5	10	50	6
SED352-040	4.0	10	50	6



High Speed Cutting & High Hard Cutting

d1 (mm)	d1(mm) tolerance
1.0	-0.005 -0.02
1.5	-0.005 -0.02
2.0	-0.005 -0.02
3.0	-0.005 -0.02
4.0	-0.005 -0.02
5.0	-0.005 -0.02
6.0	-0.01 -0.025
8.0	-0.01 -0.025
10.0	-0.01 -0.025
12.0	-0.01 -0.025
16.0	-0.01 -0.025
20.0	0 -0.05
25.0	0 -0.05

Shank(mm) (h6)	d2(mm) tolerance
Ø 3	0 -0.006
Ø 4	0 -0.008
Ø 6	0 -0.008
Ø 8	0 -0.008
Ø 10	0 -0.009
Ø 12	0 -0.011
Ø 16	0 -0.011
Ø 20	0 -0.013
Ø 25	0 -0.013

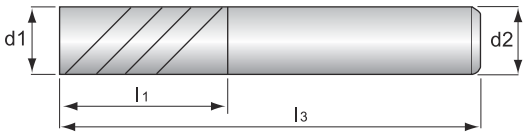


High Speed Cutting
& High Hard Cutting

d1 (mm)	d1(mm) tolerance
1.0	-0.005 -0.02
1.5	-0.005 -0.02
2.0	-0.005 -0.02
3.0	0 -0.02
4.0	0 -0.02
5.0	0 -0.02
6.0	0 -0.025
8.0	0 -0.025
10.0	0 -0.03
12.0	0 -0.035
14.0	0 -0.04
16.0	0 -0.04
18.0	0 -0.05
20.0	0 -0.05
25.0	0 -0.05

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	0 -0.008
Ø 8	0 -0.008
Ø 10	0 -0.009
Ø 12	0 -0.011
Ø 14	0 -0.011
Ø 16	0 -0.011
Ø 18	0 -0.013
Ø 20	0 -0.013
Ø 25	0 -0.013

SED



Micro Diameter

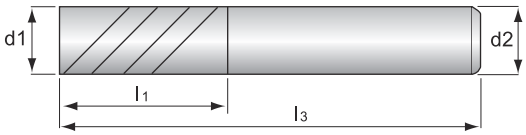
Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
SED354010F	1.0	2.5	50	4
SED354015F	1.5	4	50	4
SED354020F	2.0	5	50	4
SED354025F	2.5	7	50	4
SED354030F	3.0	8	50	4
SED354035F	3.5	9	50	4
SED354040F	4.0	10	50	4
SED354045	4.5	11	50	6
SED354050	5.0	13	50	6
SED354055	5.5	13	50	6
SED354060	6.0	15	50	6
SED354065	6.5	15	50	8
SED354070	7.0	17	60	8
SED354080	8.0	20	60	8
SED354090	9.0	22	75	10
SED354095	9.5	24	75	10
SED354100	10.0	25	75	10
SED354110	11.0	27	75	12
SED354120	12.0	30	75	12
SED354140	14.0	35	100	16
SED354160	16.0	45	100	16
SED354180	18.0	45	100	20
SED354200	20.0	45	100	20
SED354250	25 0	45	100	25

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
SED354010-3	1.0	2.5	50	3
SED354015-3	1.5	4	50	3
SED354020-3	2.0	5	50	3
SED354025-3	2.5	7	50	3
SED354030-3	3.0	8	50	3
SED354-010	1.0	2.5	50	6
SED354-015	1.5	4	50	6
SED354-020	2.0	5	50	6
SED354-025	2.5	7	50	6
SED354-030	3.0	8	50	6
SED354-035	3.5	10	50	6
SED354-040	4.0	10	50	6

極細微粒碳化鎢 4刃立銑刀(不鏽鋼專用)
Micro Grain Carbide, 4-flute, End Mills (for Stainless Steel Processing)

Super MG | 0.4 μm | 45° | 4 Flutes | HRC ▶60 | X CEED

SED



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
SED454010F	1.0	2.5	50	4
SED454015F	1.5	4	50	4
SED454020F	2.0	5	50	4
SED454025F	2.5	7	50	4
SED454030F	3.0	8	50	4
SED454040F	4.0	10	50	4
SED454020	2.0	5	50	6
SED454030	3.0	8	50	6
SED454040	4.0	10	50	6
SED454050	5.0	13	50	6
SED454060	6.0	15	50	6
SED454080	8.0	20	60	8
SED454100	10.0	25	75	10
SED454120	12.0	30	75	12
SED454140	14.0	35	100	16
SED454160	16.0	45	100	16
SED454180	18.0	45	100	20
SED454200	20.0	45	100	20
SED454250	25·0	45	100	25

$$N = \frac{VC \times 320}{D} \qquad F = N \times Fz \times \text{刃數 (Flute No)}$$

Recommended Working Details 白鐵加工數據表

Material	Vc	Fz - feed per tooth									
	m/min	ø4	ø5	ø6	ø8	ø10	ø12	ø16	ø18	ø20	ø25
Easy to Cut Steel(304)	90-115	0.015	0.015	0.020	0.030	0.030	0.040	0.050	0.060	0.060	0.060
Moderately difficult to cut Stainless Steels	70-85	0.013	0.013	0.018	0.028	0.028	0.038	0.053	0.058	0.058	0.058
Difficult to cut Stainless Steels (316L)	60-80	0.011	0.011	0.016	0.026	0.026	0.036	0.051	0.056	0.056	0.056
High Temperature Alloy	25-35	0.011	0.011	0.017	0.027	0.027	0.038	0.055	0.060	0.060	0.060
Soft Steels	150-180	0.020	0.020	0.020	0.030	0.030	0.040	0.060	0.060	0.060	0.060
Titanium	50-70	0.012	0.020	0.016	0.022	0.022	0.033	0.044	0.055	0.055	0.055
Gray Cast Iron	120-150	0.015	0.020	0.020	0.030	0.030	0.040	0.060	0.060	0.060	0.060

Material	Profiling		Slotting depth	Performance
	a	b	c	
Easy to Cut Steel(304)	D	50%D	D	Excellent
Moderately difficult to cut Stainless Steels	D	50%D	D	Excellent
Difficult to cut Stainless Steels (316L)	D	50%D	D	Excellent
High Temperature Alloy	D	20%D	30%D	Excellent
Soft Steels	D	50%D	D	Excellent
Titanium	D	20%D	20%D	Recommended for side milling fz x 1.2
Gray Cast Iron	D	50%D	D	Recommended for side milling fz x 1.2



High Speed Cutting
& High Hard Cutting

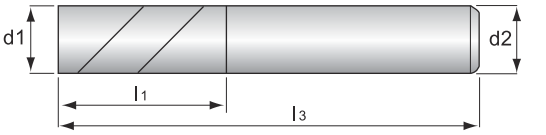
d1 (mm)	d1(mm) tolerance
1.0	-0.005 -0.02
1.5	-0.005 -0.02
2.0	-0.005 -0.02
3.0	0 -0.02
4.0	0 -0.02
5.0	0 -0.02
6.0	0 -0.025
8.0	0 -0.025
10.0	0 -0.03
12.0	0 -0.035
14.0	0 -0.04
16.0	0 -0.04
18.0	0 -0.05
20.0	0 -0.05
25.0	0 -0.05

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	0 -0.008
Ø 8	0 -0.008
Ø 10	0 -0.009
Ø 12	0 -0.011
Ø 14	0 -0.011
Ø 16	0 -0.011
Ø 18	0 -0.013
Ø 20	0 -0.013
Ø 25	0 -0.013



High Speed Cutting
& High Hard Cutting

SED



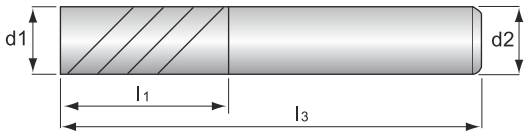
Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l_1	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
SED35L2-010F	1.0	4	75	4
SED35L2-015F	1.5	6	75	4
SED35L2-020F	2.0	8	75	4
SED35L2-025F	2.5	10	75	4
SED35L2-030F	3.0	12	75	4
SED35L2-040F	4.0	16	75	4
SED35L2-020	2.0	8	75	6
SED35L2-030	3.0	12	75	6
SED35L2-040	4.0	16	75	6
SED35L2-050	5.0	20	75	6
SED35L2-060	6.0	25	75	6
SED35L2-080	8.0	25	75	8
SED35L2-040FB	4.0	16	100	4
SED35L2-050B	5.0	25	100	6
SED35L2-060B	6.0	25	100	6
SED35L2-080B	8.0	35	100	8
SED35L2-100	10.0	40	100	10
SED35L2-120	12.0	45	100	12
SED35XL2-060	6.0	25	150	6
SED35XL2-080	8.0	35	150	8
SED35XL2-100	10.0	40	150	10
SED35XL2-120	12.0	45	150	12
SED35XL2-160	16.0	65	150	16
SED35XL2-200	20.0	75	150	20

d1 (mm)	d1(mm) tolerance
2.0	$^{0}_{-0.02}$
3.0	$^{0}_{-0.02}$
4.0	$^{0}_{-0.02}$
5.0	$^{0}_{-0.02}$
6.0	$^{0}_{-0.025}$
8.0	$^{0}_{-0.03}$
10.0	$^{0}_{-0.035}$
12.0	$^{0}_{-0.04}$
16.0	$^{0}_{-0.04}$
20.0	$^{0}_{-0.05}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	$^{0}_{-0.008}$
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$





Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
SED35L4-030-3	3.0	12	75	3
SED35L4-010F	1.0	4	75	4
SED35L4-015F	1.5	6	75	4
SED35L4-020F	2.0	8	75	4
SED35L4-025F	2.5	10	75	4
SED35L4-030F	3.0	12	75	4
SED35L4-040F	4.0	16	75	4
SED35L4-020	2.0	8	75	6
SED35L4-030	3.0	12	75	6
SED35L4-040	4.0	16	75	6
SED35L4-050	5.0	20	75	6
SED35L4-060	6.0	25	75	6
SED35L4-080	8.0	25	75	8
SED35L4-020FB	2.0	8	100	4
SED35L4-030B-3	3.0	12	100	3
SED35L4-030FB	3 0	12	100	4
SED35L4-030B	3.0	12	100	6
SED35L4-040FB	4.0	16	100	4
SED35L4-040B	4.0	16	100	6
SED35L4-050B	5.0	25	100	6
SED35L4-060B	6.0	25	100	6
SED35L4-080B	8.0	35	100	8
SED35L4-100	10.0	40	100	10
SED35L4-120	12.0	45	100	12
SED35XL4-060	6.0	25	150	6
SED35XL4-080	8.0	35	150	8
SED35XL4-100	10.0	40	150	10
SED35XL4-120	12.0	45	150	12
SED35XL4-160	16.0	65	150	16
SED35XL4-200	20.0	75	150	20



High Speed Cutting
& High Hard Cutting

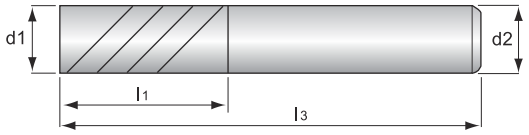
d1 (mm)	d1(mm) tolerance
2.0	$^{0}_{-0.02}$
3.0	$^{0}_{-0.02}$
4.0	$^{0}_{-0.02}$
5.0	$^{0}_{-0.02}$
6.0	$^{0}_{-0.025}$
8.0	$^{0}_{-0.03}$
10.0	$^{0}_{-0.035}$
12.0	$^{0}_{-0.04}$
16.0	$^{0}_{-0.04}$
20.0	$^{0}_{-0.05}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	$^{0}_{-0.008}$
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$



High Speed Cutting
& High Hard Cutting

SED



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l_1	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
SED45L4-010F	1.0	4	75	4
SED45L4-015F	1.5	6	75	4
SED45L4-020F	2.0	8	75	4
SED45L4-025F	2.5	10	75	4
SED45L4-030F	3.0	12	75	4
SED45L4-040F	4 0	16	75	4
SED45L4-030	3.0	12	75	6
SED45L4-040	4.0	16	75	6
SED45L4-050	5.0	20	75	6
SED45L4-060	6.0	25	75	6
SED45L4-080	8.0	25	75	8
SED45L4-040FB	4 0	16	100	4
SED45L4-040B	4 0	16	100	6
SED45L4-060B	6.0	25	100	6
SED45L4-080B	8.0	35	100	8
SED45L4-100	10.0	40	100	10
SED45L4-120	12.0	45	100	12
SED45XL4-060	6.0	25	150	6
SED45XL4-080	8.0	35	150	8
SED45XL4-100	10.0	40	150	10
SED45XL4-120	12.0	45	150	12
SED45XL4-160	16.0	65	150	16
SED45XL4-200	20.0	75	150	20

d1 (mm)	d1(mm) tolerance
2.0	$^{0}_{-0.02}$
3.0	$^{0}_{-0.02}$
4.0	$^{0}_{-0.02}$
5.0	$^{0}_{-0.02}$
6.0	$^{0}_{-0.025}$
8.0	$^{0}_{-0.03}$
10.0	$^{0}_{-0.035}$
12.0	$^{0}_{-0.04}$
16.0	$^{0}_{-0.04}$
20.0	$^{0}_{-0.05}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	$^{0}_{-0.008}$
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$

SEDH



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
SEDH-020	2.0	5	50	4
SEDH-025	2.5	7	50	4
SEDH-030	3.0	8	50	4
SEDH-040	4.0	10	50	4
SEDH-050	5.0	13	50	6
SEDH-060	6.0	15	50	6
SEDH-080	8.0	20	60	8
SEDH-100	10.0	25	75	10
SEDH-120	12.0	30	75	12
SEDH-160	16.0	45	100	16
SEDH-200	20.0	45	100	20

New



High Speed Cutting
& High Hard Cutting

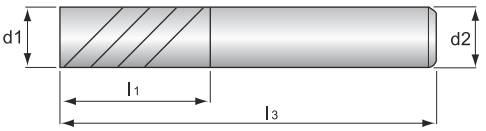
d1 (mm)	d1(mm) tolerance
2.0	$^{0}_{-0.02}$
3.0	$^{0}_{-0.02}$
4.0	$^{0}_{-0.02}$
5.0	$^{0}_{-0.02}$
6.0	$^{0}_{-0.025}$
8.0	$^{0}_{-0.03}$
10.0	$^{0}_{-0.035}$
12.0	$^{0}_{-0.04}$
16.0	$^{0}_{-0.04}$
20.0	$^{0}_{-0.05}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	$^{0}_{-0.008}$
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$



High Speed Cutting
& High Hard Cutting

SED



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
SED453030F	3	8	50	4
SED453040F	4	10	50	4
SED453020	2	5	50	6
SED453025	2.5	8	50	6
SED453030	3	8	50	6
SED453035	3.5	9	50	6
SED453040	4	10	50	6
SED453045	4.5	10	50	6
SED453050	5	13	50	6
SED453060	6	15	50	6
SED453080	8	20	60	8
SED453100	10	25	75	10
SED453120	12	30	75	12
SED453160	16	40	100	16

d1 (mm)	d1(mm) tolerance
1.0	$^{-0.005}_{-0.02}$
1.5	$^{-0.005}_{-0.02}$
2.0	$^{-0.005}_{-0.02}$
3.0	$^{0}_{-0.02}$
4.0	$^{0}_{-0.02}$
5.0	$^{0}_{-0.02}$
6.0	$^{0}_{-0.025}$
8.0	$^{0}_{-0.025}$
10.0	$^{0}_{-0.03}$
12.0	$^{0}_{-0.035}$
14.0	$^{0}_{-0.04}$
16.0	$^{0}_{-0.04}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 14	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$

SED

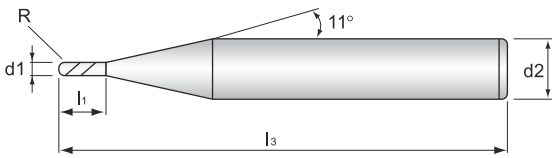
極細微粒碳化鎢 2刃立銑刀(鈦合金專用)
Micro Grain Carbide, 3- flute, End Mills(for Titanium Alloys Processing)

Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
SED452010F	1	2.5	50	4
SED452015F	1.5	4	50	4
SED452020F	2	5	50	4
SED452030F	3	8	50	4
SED452040F	4	10	50	4
SED452050	5	13	50	6
SED452060	6	15	50	6
SED452080	8	20	60	8
SED452100	10	25	75	10
SED452120	12	30	75	12

New





Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
MR2002-3	R 0.10	0.4	50	3
MR2003-3	R 0.15	0.6	50	3
MR2004-3	R 0.20	0.8	50	3
MR2005-3	R 0.25	1.0	50	3
MR2006-3	R 0.30	1.2	50	3
MR2007-3	R 0.35	1.4	50	3
MR2008-3	R 0.40	1.6	50	3
MR2009-3	R 0.45	1.8	50	3
MR2002	R 0.10	0.4	50	4
MR2003	R 0.15	0.6	50	4
MR2004	R 0.20	0.8	50	4
MR2005	R 0.25	1.0	50	4
MR2006	R 0.30	1.2	50	4
MR2007	R 0.35	1.4	50	4
MR2008	R 0.40	1.6	50	4
MR2009	R 0.45	1.8	50	4
MR2012	R 0.60	2.4	50	4
MR2014	R 0.70	2.8	50	4
MR2016	R 0.80	3.2	50	4
MR2018	R 0.90	3.6	50	4



High Speed Cutting
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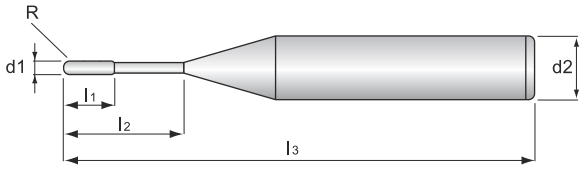
d1 (mm)	d1(mm) tolerance
R0.1	±0.01
R0.15	±0.01
R0.2	±0.01
R.025	±0.01
R0.3	±0.01
R0.35	±0.01
R0.4	±0.01
R0.5	±0.01
R0.75	±0.01
R1.0	±0.01
R1.5	±0.01
R2.0	±0.01

Shank(mm) (h6)	d2(mm) tolerance
Ø 3	$^{0}_{-0.006}$
Ø 4	$^{0}_{-0.008}$



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HMR



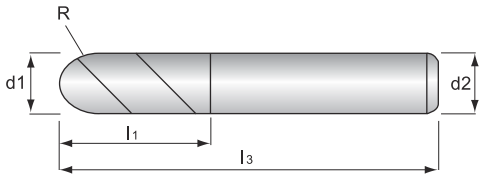
Micro Diameter

Type No. 型 號	Diameter R徑 d1	Flute Length 刃長 l_1	Effective Length 有效長 l_2	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
HMR20402	R 0.2	0.6	2	50	4
HMR20404	R 0.2	0.6	4	50	4
HMR20502	R 0.25	0.8	2	50	4
HMR20504	R 0.25	0.8	4	50	4
HMR20506	R 0.25	0.8	6	50	4
HMR20602	R 0.3	1.0	2	50	4
HMR20604	R 0.3	1.0	4	50	4
HMR20606	R 0.3	1.0	6	50	4
HMR20608	R 0.3	1.0	8	50	4
HMR20804	R 0.4	1.2	4	50	4
HMR20806	R 0.4	1.2	6	50	4
HMR20808	R 0.4	1.2	8	50	4
HMR20810	R 0.4	1.2	10	50	4
HMR21004	R 0.5	1.2	4	50	4
HMR21006	R 0.5	1.2	6	50	4
HMR21008	R 0.5	1.2	8	50	4
HMR21010	R 0.5	1.2	10	50	4
HMR21012	R 0.5	1.2	12	50	4
HMR21504	R 0.75	1.7	4	50	4
HMR21506	R 0.75	1.7	6	50	4
HMR21508	R 0.75	1.7	8	50	4
HMR21510	R 0.75	1.7	10	50	4
HMR21512	R 0.75	1.7	12	50	4
HMR22006	R 1.0	2.2	6	50	4
HMR22008	R 1.0	2.2	8	50	4
HMR22010	R 1.0	2.2	10	50	4
HMR22012	R 1.0	2.2	12	50	4
HMR22014	R 1.0	2.2	14	50	4
HMR22016	R 1.0	2.2	16	50	4
HMR23008	R 1.5	3.2	8	50	4
HMR23010	R 1.5	3.2	10	50	4
HMR23012	R 1.5	3.2	12	50	4
HMR23014	R 1.5	3.2	14	50	4
HMR23016	R 1.5	3.2	16	75	4
HMR23020	R 1.5	3.2	20	75	4
HMR24012-6	R 2.0	4.2	12	75	6
HMR24014-6	R 2.0	4.2	14	75	6
HMR24016-6	R 2.0	4.2	16	75	6
HMR24020-6	R 2.0	4.2	20	75	6
HMR24025-6	R 2.0	4.2	25	75	6

d1 (mm)	d1(mm) tolerance
R0.25	±0.01
R0.3	±0.01
R0.4	±0.01
R0.5	±0.01
R0.75	±0.01
R1.0	±0.01
R1.5	±0.01
R2.0	±0.01

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	$^{0}_{-0.008}$
Ø 6	$^{0}_{-0.008}$





Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
MR2010F	R 0.5	2	50	4
MR2015F	R 0.75	3	50	4
MR2020F	R 1.0	4	50	4
MR2025F	R 1.25	5	50	4
MR2030F	R 1.5	6	50	4
MR2035F	R 1.75	7	50	4
MR2040F	R 2.0	8	50	4
MR2045	R 2.25	9	50	6
MR2050	R 2.5	10	50	6
MR2055	R 2.75	11	50	6
MR2060	R 3.0	12	50	6
MR2065	R 3.25	12	60	8
MR2070	R 3.5	12	60	8
MR2075	R 3.75	14	60	8
MR2080	R 4.0	16	60	8
MR2090	R 4.5	18	75	10
MR2100	R 5.0	20	75	10
MR2120	R 6.0	24	75	12
MR2160	R 8.0	32	100	16
MR2200	R 10.0	40	100	20

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
MR2010-3	R 0.5	2	50	3
MR2015-3	R 0.75	3	50	3
MR2020-3	R 1.0	4	50	3
MR2025-3	R 1.25	5	50	3
MR2030-3	R 1.5	6	50	3
MR2010	R 0.5	2	50	6
MR2015	R 0.75	3	50	6
MR2020	R 1.0	4	50	6
MR2030	R 1.5	6	50	6
MR2040	R 2.0	8	50	6



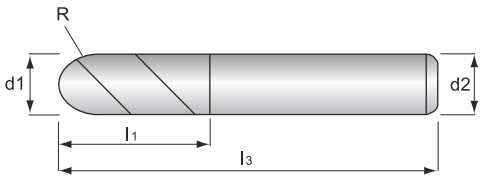
High Speed Cutting
& High Hard Cutting

d1 (mm)	d1(mm) tolerance
R1	±0.01
R1.5	±0.01
R2	±0.01
R2.5	±0.01
R3	±0.01
R4	±0.01
R5	±0.01
R6	±0.015
R8	±0.02
R10	±0.02

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$



High Speed Cutting
& High Hard Cutting



Micro Diameter

Type No. 型 號	Diameter R	Flute Length 刃長 l_1	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
LR2010F	R 0.5	2	75	4
LR2015F	R 0.75	3	75	4
LR2020F	R 1	4	75	4
LR2025F	R 1.25	5	75	4
LR2030F	R 1.5	6	75	4
LR2040F	R 2	8	75	4
LR2030-3	R1.5	6	75	3
LR2010	R 0.5	2	75	6
LR2015	R 0.75	3	75	6
LR2020	R 1	4	75	6
LR2030	R 1.5	6	75	6
LR2040	R 2	8	75	6
LR2050	R 2.5	10	75	6
LR2060	R 3	12	75	6
LR2080	R 4	16	75	8
LR2010FB	R 0.5	2	100	4
LR2030FB	R1.5	6	100	4
LR2040FB	R 2	8	100	4
LR2020B	R1	4	100	6
LR2030B	R1.5	6	100	6
LR2040B	R 2	8	100	6
LR2050B	R 2.5	10	100	6
LR2060B	R 3	12	100	6
LR2080B	R 4	16	100	8
LR2100	R 5	20	100	10
LR2120	R 6	24	100	12
XLR2060	R 3	12	150	6
XLR2080	R 4	16	150	8
XLR2100	R 5	20	150	10
XLR2120	R 6	24	150	12
XLR2160	R 8	32	150	16
XLR2200	R 10	40	150	20

d1 (mm)	d1(mm) tolerance
R1	±0.01
R1.5	±0.01
R2	±0.01
R2.5	±0.01
R3	±0.01
R4	±0.01
R5	±0.01
R6	±0.015
R8	±0.02
R10	±0.02

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$





Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
MR4010F	R 0.5	2	50	4
MR4015F	R 0.75	3	50	4
MR4020F	R 1	4	50	4
MR4030F	R 1.5	6	50	4
MR4040F	R 2	8	50	4
MR4040	R 2	8	50	6
MR4050	R 2.5	10	50	6
MR4060	R 3	12	50	6
MR4080	R 4	16	60	8
MR4100	R 5	20	75	10
MR4120	R 6	24	75	12
MR4160	R 8	32	100	16
MR4200	R 10	40	100	20



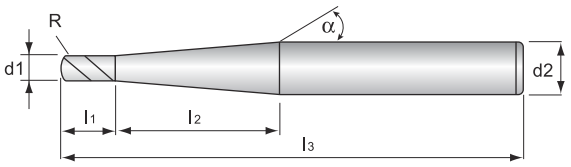
High Speed Cutting
& High Hard Cutting

d1 (mm)	d1(mm) tolerance
R0.5	±0.01
R0.75	±0.01
R1.0	±0.01
R1.5	±0.01
R2.0	±0.01
R2.5	±0.01
R3	±0.01
R4	±0.01
R5	±0.015
R6	±0.015
R8	±0.02
R10	±0.02

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	$^{0}_{-0.008}$
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.009}$
Ø 10	$^{0}_{-0.011}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$



High Speed Cutting
& High Hard Cutting

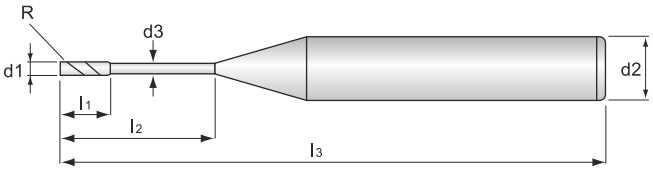


Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	Taper Angle 斜頸 α	Taper Neck 斜頸長 l2	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
MBN20103-6	R 0.5	2	3°	32	75	6
MBN20105-6	R 0.5	2	5°	32	75	6
MBN20203-6	R 1.0	4	3°	27	100	6
MBN20205-6	R 1.0	4	5°	27	100	6
MBN203015-6	R 1.5	6	1.5°	35	100	6
MBN20303-6	R 1.5	6	3°	35	100	6
MBN204015-6	R 2.0	8	1.5°	28	100	6
MBN20403-6	R 2.0	8	3°	28	100	6
MBN20603	R 3.0	12	3°	32	100	8
MBN20605	R 3.0	12	5°	35	100	10
MBN20603	R 3.0	12	3°	32	150	8
MBN20605	R 3.0	12	5°	35	150	10
MBN20803	R 4.0	16	3°	36	100	10
MBN20805	R 4.0	16	5°	39	100	12
MBN20803	R 4.0	16	3°	36	150	10
MBN20805	R 4.0	16	5°	39	150	12
MBN21003	R 5.0	20	3°	40	100	12
MBN21003	R 5.0	20	3°	40	150	12
MBN21205	R 6.0	24	5°	47	100	16
MRN21205	R 6.0	24	5°	47	150	16

d1 (mm)	d1(mm) tolerance
R1	±0.01
R1.5	±0.01
R2	±0.01
R2.5	±0.01
R3	±0.01
R4	±0.01
R5	±0.01
R6	±0.015

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$



Micro Diameter

Type No. 型號	Diameter 刃徑 d1	Neck Dia. d3	Corner R 圓角 R	Flute Length 刃長 l_1	Effective Length 有效長 l_2	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
HRM1006R	1.0	0.95	0.2	1.5	6	50	4
HRM1008R	1.0	0.95	0.2	1.5	8	50	4
HRM1010R	1.0	0.95	0.2	1.5	10	50	4
HRM1012R	1.0	0.95	0.2	1.5	12	50	4
HRM1508R	1.5	1.44	0.2	2.0	8	50	4
HRM1510R	1.5	1.44	0.2	2.0	10	50	4
HRM1512R	1.5	1.44	0.2	2.0	12	50	4
HRM1516R	1.5	1.44	0.2	2.0	16	50	4
HRM2008R	2.0	1.92	0.2	3.0	8	50	4
HRM2010R	2.0	1.92	0.2	3.0	10	50	4
HRM2012R	2.0	1.92	0.2	3.0	12	50	4
HRM2016R	2.0	1.92	0.2	3.0	16	50	4
HRM2020R	2.0	1.92	0.2	3.0	20	50	4
HRM2510R	2.5	2.40	0.2	3.0	10	50	4
HRM2512R	2.5	2.40	0.2	3.0	12	50	4
HRM2516R	2.5	2.40	0.2	3.0	16	50	4
HRM2520R	2.5	2.40	0.2	3.0	20	50	4
HRM3010R	3.0	2.90	0.2	4.0	10	50	6
HRM3012R	3.0	2.90	0.2	4.0	12	50	6
HRM3016R	3.0	2.90	0.2	4.0	16	50	6
HRM3020R	3.0	2.90	0.2	4.0	20	60	6
HRM3025R	3.0	2.90	0.2	4.0	25	60	6



High Speed Cutting
& High Hard Cutting

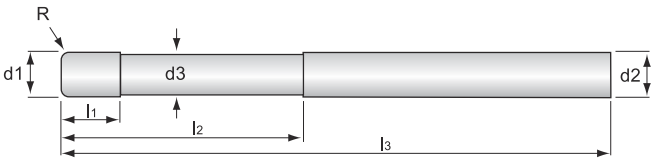
d1 (mm)	R(mm) tolerance	d1(mm) tolerance
1.0	$^{+0.02}_{0}$	$^{0}_{-0.02}$
1.5	$^{+0.02}_{0}$	$^{0}_{-0.02}$
2.0	$^{+0.02}_{0}$	$^{0}_{-0.02}$
2.5	$^{+0.02}_{0}$	$^{0}_{-0.02}$
3.0	$^{+0.02}_{0}$	$^{0}_{-0.02}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	$^{0}_{-0.008}$
Ø 6	$^{0}_{-0.008}$



High Speed Cutting
& High Hard Cutting

HSER



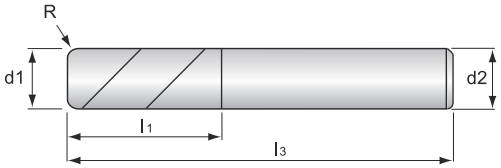
Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Neck Dia. d3	Corner R 圓角 R	Flute Length 刃長 l_1	Effective Length 有效長 l_2	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
HSER0402R	4.0	3.90	0.2	6	12	50	6
HSER0405R	4.0	3.90	0.5	6	12	50	6
HSER0602R	6.0	5.80	0.2	8	18	50	6
HSER0605R	6.0	5.80	0.5	8	18	50	6
HSER0610R	6.0	5.80	1.0	8	18	50	6
HSER0802R	8.0	7.70	0.2	10	24	60	8
HSER0805R	8.0	7.70	0.5	10	24	60	8
HSER0810R	8.0	7.70	1.0	10	24	60	8
HSER1003R	10.0	9.60	0.3	12	30	75	10
HSER1005R	10.0	9.60	0.5	12	30	75	10
HSER1010R	10.0	9.60	1.0	12	30	75	10
HSER1020R	10.0	9.60	2.0	12	30	75	10
HSER1210R	12.0	11.5	1.0	15	36	75	12
HSER1220R	12.0	11.5	2.0	15	36	75	12
HSER1605R	16.0	15.4	0.5	24	40	100	16
HSER1610R	16.0	15.4	1.0	24	40	100	16

d1 (mm)	R(mm) tolerance	d1(mm) tolerance
4.0	$^{+0.02}_{0}$	$^{0}_{-0.02}$
6.0	$^{+0.02}_{0}$	$^{-0.005}_{-0.025}$
8.0	$^{+0.02}_{0}$	$^{-0.01}_{-0.025}$
10.0	$^{+0.025}_{0}$	$^{-0.01}_{-0.03}$
12.0	$^{+0.025}_{0}$	$^{-0.01}_{-0.035}$
16.0	$^{+0.03}_{0}$	$^{-0.01}_{-0.04}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$





Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Corner R 圓角 R	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
2RM0102RF	1.0	R 0.2	2.5	50	4
2RM01502RF	1.5	R 0.2	4	50	4
2RM01505RF	1.5	R 0.5	4	50	4
2RM0202RF	2.0	R 0.2	5	50	4
2RM0205RF	2.0	R 0.5	5	50	4
2RM02502RF	2.5	R 0 2	6	50	4
2RM02505RF	2.5	R 0.5	6	50	4
2RM0302R-3	3.0	R 0.2	8	50	3
2RM0305R-3	3.0	R 0.5	8	50	3
2RM0302RF	3.0	R 0.2	8	50	4
2RM0305RF	3.0	R 0.5	8	50	4
2RM0310RF	3.0	R 1.0	8	50	4
2RM0402RF	4.0	R 0.2	10	50	4
2RM0405RF	4.0	R 0.5	10	50	4
2RM0410RF	4.0	R 1.0	10	50	4
2RM0305R	3.0	R 0.5	8	50	6
2RM0310R	3 0	R 1 0	8	50	6
2RM0405R	4.0	R 0.5	10	50	6
2RM0410R	4.0	R 1.0	10	50	6
2RM0505R	5.0	R 0.5	13	50	6
2RM0510R	5.0	R 1.0	13	50	6
2RM0602R	6.0	R 0.2	15	50	6
2RM0605R	6.0	R 0.5	15	50	6
2RM0610R	6.0	R 1.0	15	50	6
2RM0615R	6.0	R 1.5	15	50	6
2RM0620R	6.0	R 2.0	15	50	6
2RM0805R	8.0	R 0.5	20	60	8
2RM0810R	8.0	R 1.0	20	60	8
2RM0815R	8.0	R 1.5	20	60	8
2RM0820R	8.0	R 2.0	20	60	8
2RM1005R	10.0	R 0.5	25	75	10
2RM1010R	10.0	R 1.0	25	75	10
2RM1015R	10.0	R 1.5	25	75	10
2RM1020R	10.0	R 2.0	25	75	10
2RM1025R	10.0	R 2.5	25	75	10
2RM1030R	10.0	R 3.0	25	75	10
2RM1205R	12.0	R 0.5	30	75	12
2RM1210R	12.0	R 1.0	30	75	12
2RM1215R	12.0	R 1.5	30	75	12
2RM1220R	12.0	R 2.0	30	75	12
2RM1225R	12·0	R 2·5	30	75	12
2RM1230R	12 0	R 3 0	30	75	12



High Speed Cutting
& High Hard Cutting

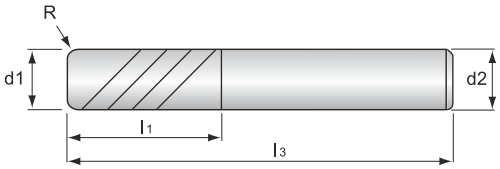
d1 (mm)	R(mm) tolerance	d1(mm) tolerance
1.0	$^{+0.02}_{0}$	$^{0}_{-0.02}$
1.5	$^{+0.02}_{0}$	$^{0}_{-0.02}$
2.0	$^{+0.02}_{0}$	$^{0}_{-0.02}$
2.5	$^{+0.02}_{0}$	$^{0}_{-0.02}$
3.0	$^{+0.02}_{0}$	$^{0}_{-0.02}$
4.0	$^{+0.02}_{0}$	$^{0}_{-0.02}$
5.0	$^{+0.02}_{0}$	$^{0}_{-0.02}$
6.0	$^{+0.02}_{0}$	$^{-0.005}_{-0.025}$
8.0	$^{+0.02}_{0}$	$^{-0.01}_{-0.025}$
10.0	$^{+0.02}_{0}$	$^{-0.01}_{-0.03}$
12.0	$^{+0.02}_{0}$	$^{-0.01}_{-0.025}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	$^{0}_{-0.008}$
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$



High Speed Cutting
& High Hard Cutting

4RM



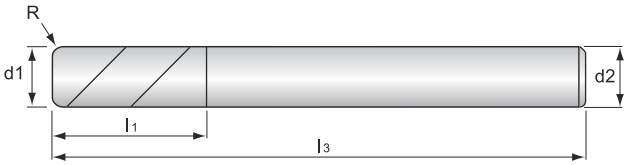
Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Corner R 圓角 R	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
4RM0102RF	1.0	R 0.2	2.5	50	4
4RM01502RF	1.5	R 0.2	4	50	4
4RM01505RF	1.5	R 0.5	4	50	4
4RM0202RF	2.0	R 0.2	5	50	4
4RM0205RF	2.0	R 0.5	5	50	4
4RM02502RF	2.5	R 0.2	6	50	4
4RM02505RF	2.5	R 0.5	6	50	4
4RM0302RF	3.0	R 0.2	8	50	4
4RM0302R-3	3.0	R 0.2	8	50	3
4RM0302R	3.0	R 0.2	8	50	6
4RM0303R-3	3.0	R 0.3	8	50	3
4RM0303RF	3.0	R 0.3	8	50	4
4RM0305RF	3.0	R 0.5	8	50	4
4RM0305R-3	3.0	R 0.5	8	50	3
4RM0305R	3.0	R 0.5	8	50	6
4RM0310RF	3.0	R 1.0	8	50	4
4RM0310R-3	3.0	R 1.0	8	50	3
4RM0310R	3 0	R 1 0	8	50	6
4RM0402RF	4.0	R 0.2	10	50	4
4RM0402R	4.0	R 0.2	10	50	6
4RM0403RF	4.0	R 0.3	10	50	4
4RM0405RF	4.0	R 0.5	10	50	4
4RM0405R	4.0	R 0.5	10	50	6
4RM0410RF	4.0	R 1.0	10	50	4
4RM0410R	4.0	R 1.0	10	50	6
4RM0505R	5.0	R 0.5	13	50	6
4RM0510R	5.0	R 1.0	13	50	6
4RM0602R	6.0	R 0.2	15	50	6
4RM0605R	6.0	R 0.5	15	50	6
4RM0610R	6.0	R 1.0	15	50	6
4RM0615R	6.0	R 1.5	15	50	6
4RM0620R	6.0	R 2.0	15	50	6
4RM0805R	8.0	R 0.5	20	60	8
4RM0810R	8.0	R 1.0	20	60	8
4RM0815R	8.0	R 1.5	20	60	8
4RM0820R	8.0	R 2.0	20	60	8
4RM1005R	10.0	R 0.5	25	75	10
4RM1010R	10.0	R 1.0	25	75	10
4RM1015R	10.0	R 1.5	25	75	10
4RM1020R	10.0	R 2.0	25	75	10
4RM1025R	10.0	R 2.5	25	75	10
4RM1030R	10.0	R 3.0	25	75	10
4RM1205R	12.0	R 0.5	30	75	12
4RM1210R	12.0	R 1.0	30	75	12
4RM1215R	12.0	R 1.5	30	75	12
4RM1220R	12.0	R 2.0	30	75	12
4RM1225R	12.0	R 2.5	30	75	12
4RM1230R	12.0	R 3.0	30	75	12

d1 (mm)	R(mm) tolerance	d1(mm) tolerance
1.0	+0.02 0	0 -0.02
1.5	+0.02 0	0 -0.02
2.0	+0.02 0	0 -0.02
2.5	+0.02 0	0 -0.02
3.0	+0.02 0	0 -0.02
4.0	+0.02 0	0 -0.02
5.0	+0.02 0	0 -0.02
6.0	+0.02 0	-0.005 -0.025
8.0	+0.02 0	-0.01 -0.025
10.0	+0.02 0	-0.01 -0.03
12.0	+0.02 0	-0.01 -0.025

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	0 -0.008
Ø 6	0 -0.008
Ø 8	0 -0.008
Ø 10	0 -0.009
Ø 12	0 -0.011





Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Corner R 圓角 R	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
2LRM0302RF	3.0	R 0.2	8	75	4
2LRM0305RF	3.0	R 0.5	8	75	4
2LRM0310RF	3.0	R 1.0	8	75	4
2LRM0402RF	4.0	R 0.2	10	75	4
2LRM0405RF	4.0	R 0.5	10	75	4
2LRM0410RF	4.0	R 1.0	10	75	4
2LRM0405RFB	4.0	R 0.5	10	100	4
2LRM0505RB	5.0	R 0.5	13	100	6
2LRM0510RB	5.0	R 1.0	13	100	6
2LRM0602RB	6.0	R 0.2	15	100	6
2LRM0605RB	6.0	R 0.5	15	100	6
2LRM0605R	6.0	R 0.5	15	75	6
2LRM0610R	6.0	R 1.0	15	75	6
2LRM0805R	8.0	R 0.5	20	75	8
2LRM0810R	8.0	R 1.0	20	75	8
2LRM0610RB	6.0	R 1.0	15	100	6
2LRM0615RB	6.0	R 1.5	15	100	6
2LRM0620RB	6.0	R 2.0	15	100	6
2LRM0805RB	8 0	R 0 5	20	100	8
2LRM0810RB	8.0	R 1.0	20	100	8
2LRM0815RB	8.0	R 1.5	20	100	8
2LRM0820RB	8.0	R 2.0	20	100	8
2LRM1005R	10.0	R 0.5	25	100	10
2LRM1010R	10.0	R 1.0	25	100	10
2LRM1015R	10.0	R 1.5	25	100	10
2LRM1020R	10.0	R 2.0	25	100	10
2LRM1030R	10.0	R 3.0	25	100	10
2LRM1205R	12·0	R 0·5	30	100	12
2LRM1210R	12.0	R 1.0	30	100	12
2LRM1215R	12.0	R 1.5	30	100	12
2LRM1220R	12'0	R 2'0	30	100	12
2LRM1230R	12 0	R 3 0	30	100	12



High Speed Cutting
& High Hard Cutting

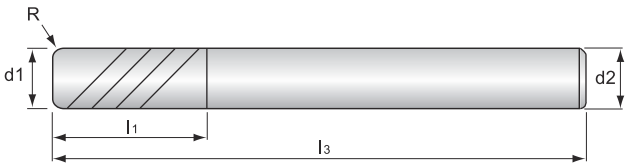
d1 (mm)	d1(mm) tolerance
6.0	$^{-0.01}_{-0.025}$
8.0	$^{-0.01}_{-0.025}$
10.0	$^{-0.01}_{-0.03}$
12.0	$^{-0.01}_{-0.035}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.008}$
Ø 12	$^{0}_{-0.009}$



High Speed Cutting
& High Hard Cutting

4LRM



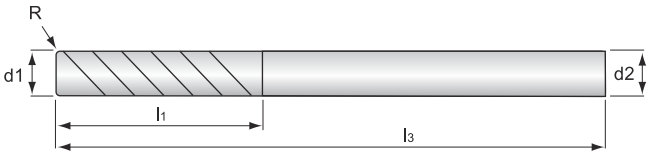
Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Corner R 圓角 R	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
4LRM0302RF	3.0	R 0.2	8	75	4
4LRM0305RF	3.0	R 0.5	8	75	4
4LRM0305R-3	3.0	R 0.5	8	75	3
4LRM0310RF	3.0	R 1.0	8	75	4
4LRM0402RF	4.0	R 0.2	10	75	4
4LRM0405RF	4.0	R 0.5	10	75	4
4LRM0410RF	4.0	R 1.0	10	75	4
4LRM0405R	4.0	R 1.0	10	75	6
4LRM0410R	4.0	R 1.0	10	75	6
4LRM0605R	6.0	R 0.5	15	75	6
4LRM0610R	6.0	R 1.0	15	75	6
4LRM0805R	8.0	R 0.5	20	75	8
4LRM0810R	8.0	R 1.0	20	75	8
4LRM0405RFB	4.0	R 0.5	10	100	4
4LRM0405RB	4.0	R 0.5	10	100	6
4LRM0410RFB	4 0	R 1 0	10	100	4
4LRM0410RB	4 0	R 1 0	10	100	6
4LRM0505RB	5.0	R 0.5	12	100	6
4LRM0510RB	5.0	R 1.0	12	100	6
4LRM0602RB	6.0	R 0.2	15	100	6
4LRM0605RB	6.0	R 0.5	15	100	6
4LRM0610RB	6.0	R 1.0	15	100	6
4LRM0615RB	6.0	R 1.5	15	100	6
4LRM0620RB	6.0	R 2.0	15	100	6
4LRM0805RB	8 0	R 0 5	20	100	8
4LRM0810RB	8.0	R 1.0	20	100	8
4LRM0815RB	8.0	R 1.5	20	100	8
4LRM0820RB	8.0	R 2.0	20	100	8
4LRM1005R	10.0	R 0.5	25	100	10
4LRM1010R	10.0	R 1.0	25	100	10
4LRM1015R	10.0	R 1.5	25	100	10
4LRM1020R	10.0	R 2.0	25	100	10
4LRM1030R	10.0	R 3.0	25	100	10
4LRM1205R	12.0	R 0.5	30	100	12
4LRM1210R	12.0	R 1.0	30	100	12
4LRM1215R	12.0	R 1.5	30	100	12
4LRM1220R	12.0	R 2.0	30	100	12
4LRM1230R	12 0	R 3 0	30	100	12

d1 (mm)	R(mm) tolerance	d1(mm) tolerance
4.0	$^{+0.02}_{0}$	$^{0}_{-0.02}$
6.0	$^{+0.02}_{0}$	$^{-0.005}_{-0.025}$
8.0	$^{+0.03}_{0}$	$^{-0.01}_{-0.025}$
10.0	$^{+0.03}_{0}$	$^{-0.01}_{-0.03}$
12.0	$^{+0.03}_{0}$	$^{-0.01}_{-0.035}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$

H60RW



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Corner R 圓角 R	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
H60RW0605R	6.0	R 0.5	16	50	6
H60RW0610R	6.0	R 1.0	16	50	6
H60RW0805R	8.0	R 0.5	20	60	8
H60RW0810R	8.0	R 1.0	20	60	8
H60RW1010R	10.0	R 1.0	25	75	10
H60RW1210R	12.0	R 1.0	30	75	12
H60RW1610R	16.0	R 1.0	40	100	16
H60RW1620R	16.0	R 2.0	40	100	16
H60RW2020R	20.0	R 2.0	45	100	20



High Speed Cutting
& High Hard Cutting

d1 (mm)	R(mm) tolerance	d1(mm) tolerance
6.0	$^{+0.02}_{0}$	$^{0}_{-0.025}$
8.0	$^{+0.02}_{0}$	$^{0}_{-0.025}$
10.0	$^{+0.02}_{0}$	$^{0}_{-0.03}$
12.0	$^{+0.03}_{0}$	$^{0}_{-0.03}$
16.0	$^{+0.03}_{0}$	$^{0}_{-0.04}$
20.0	$^{+0.03}_{0}$	$^{0}_{-0.04}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$

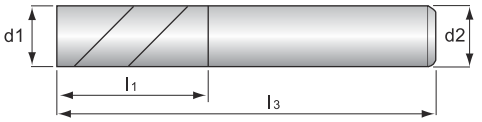


High Speed Cutting
& High Hard Cutting

d1 (mm)	d1(mm) tolerance
1.0	-0.005 -0.02
1.5	-0.005 -0.02
2.0	-0.005 -0.02
3.0	-0.005 -0.02
4.0	-0.005 -0.02
5.0	-0.005 -0.02
6.0	-0.01 -0.025
8.0	-0.01 -0.025
10.0	-0.01 -0.025
12.0	-0.01 -0.025
16.0	-0.01 -0.025
20.0	0 -0.05
25.0	0 -0.05

Shank(mm) (h6)	d2(mm) tolerance
Ø 3	0 -0.006
Ø 4	0 -0.008
Ø 6	0 -0.008
Ø 8	0 -0.008
Ø 10	0 -0.009
Ø 12	0 -0.011
Ø 16	0 -0.011
Ø 20	0 -0.013
Ø 25	0 -0.013

SED

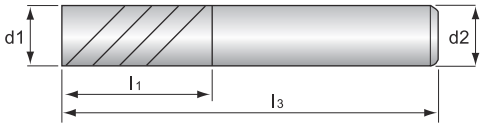


Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
SED352010FG	1.0	2.5	50	4
SED352015FG	1.5	4	50	4
SED352020FG	2.0	5	50	4
SED352025FG	2.5	7	50	4
SED352030FG	3.0	8	50	4
SED352035FG	3.5	10	50	4
SED352040FG	4.0	10	50	4
SED352045G	4.5	13	50	6
SED352050G	5.0	13	50	6
SED352055G	5.5	13	50	6
SED352060G	6.0	15	50	6
SED352065G	6.5	15	60	8
SED352070G	7.0	17	60	8
SED352075G	7.5	17	60	8
SED352080G	8.0	20	60	8
SED352085G	8.5	25	75	10
SED352090G	9.0	25	75	10
SED352095G	9.5	25	75	10
SED352100G	10.0	25	75	10
SED352105G	10.5	25	75	12
SED352110G	11.0	28	75	12
SED352115G	11.5	28	75	12
SED352120G	12.0	30	75	12
SED352130G	13.0	33	100	16
SED352140G	14.0	35	100	16
SED352150G	15.0	38	100	16
SED352160G	16.0	45	100	16
SED352170G	17.0	45	100	18
SED352180G	18.0	45	100	18
SED352190G	19.0	45	100	20
SED352200G	20.0	45	100	20
SED352250G	25.0	45	100	25

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
SED352010-3G	1.0	2.5	50	3
SED352015-3G	1.5	4	50	3
SED352020-3G	2.0	5	50	3
SED352030-3G	3.0	8	50	3
SED352-010G	1.0	2.5	50	6
SED352-015G	1.5	4	50	6
SED352-020G	2.0	5	50	6
SED352-025G	2.5	7	50	6
SED352-030G	3.0	8	50	6
SED352-035G	3.5	10	50	6
SED352-040G	4.0	10	50	6

SED



Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
SED354010FG	1.0	2.5	50	4
SED354015FG	1.5	4	50	4
SED354020FG	2.0	5	50	4
SED354025FG	2.5	7	50	4
SED354030FG	3.0	8	50	4
SED354040FG	4.0	10	50	4
SED354050G	5.0	13	50	6
SED354060G	6.0	15	50	6
SED354080G	8.0	20	60	8
SED354100G	10.0	25	75	10
SED354120G	12.0	30	75	12
SED354140G	14.0	35	100	16
SED354160G	16.0	45	100	16
SED354180G	18.0	45	100	18
SED354200G	20.0	45	100	20
SED354250G	25.0	45	100	25

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
SED354010-3G	1.0	2.5	50	3
SED354015-3G	1.5	4	50	3
SED354020-3G	2.0	5	50	3
SED354025-3G	2.5	7	50	3
SED354030-3G	3.0	8	50	3
SED354-010G	1.0	2.5	50	6
SED354-015G	1.5	4	50	6
SED354-020G	2.0	5	50	6
SED354-025G	2.5	7	50	6
SED354-030G	3.0	8	50	6
SED354-040G	4.0	10	50	6



High Speed Cutting
& High Hard Cutting

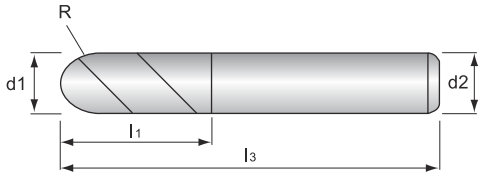
d1 (mm)	d1(mm) tolerance
1.0	-0.005 -0.02
1.5	-0.005 -0.02
2.0	-0.005 -0.02
3.0	0 -0.02
4.0	0 -0.02
5.0	0 -0.02
6.0	0 -0.025
8.0	0 -0.025
10.0	0 -0.03
12.0	0 -0.035
14.0	0 -0.04
16.0	0 -0.04
18.0	0 -0.05
20.0	0 -0.05
25.0	0 -0.05

Shank(mm) (h6)	d2(mm) tolerance
Ø 3	0 -0.008
Ø 4	0 -0.008
Ø 6	0 -0.008
Ø 8	0 -0.008
Ø 10	0 -0.009
Ø 12	0 -0.011
Ø 14	0 -0.011
Ø 16	0 -0.011
Ø 18	0 -0.013
Ø 20	0 -0.013
Ø 25	0 -0.013



High Speed Cutting
& High Hard Cutting

MR



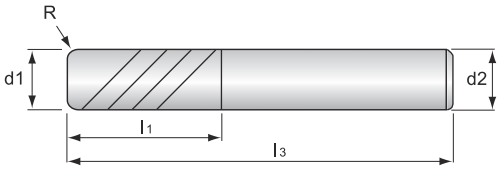
Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
MR2010FG	R 0.5	2	50	4
MR2015FG	R 0.75	3	50	4
MR2020FG	R 1.0	4	50	4
MR2025FG	R 1.25	5	50	4
MR2030FG	R 1.5	6	50	4
MR2035FG	R 1.75	7	50	4
MR2040FG	R 2.0	8	50	4
MR2045G	R 2.25	9	50	6
MR2050G	R 2.5	10	50	6
MR2055G	R 2.75	11	50	6
MR2060G	R 3.0	12	50	6
MR2065G	R 3.25	12	60	8
MR2070G	R 3.5	12	60	8
MR2075G	R 3.75	14	60	8
MR2080G	R 4.0	16	60	8
MR2090G	R 4.5	18	75	10
MR2100G	R 5.0	20	75	10
MR2120G	R 6.0	24	75	12
MR2160G	R 8.0	32	100	16
MR2200G	R 10.0	40	100	20

d1 (mm)	d1(mm) tolerance
R1	±0.01
R1.5	±0.01
R2	±0.01
R2.5	±0.01
R3	±0.01
R4	±0.01
R5	±0.01
R6	±0.015
R8	±0.02
R10	±0.02

Shank(mm) (h6)	d2(mm) tolerance
Ø 4	$^{0}_{-0.008}$
Ø 6	$^{0}_{-0.008}$
Ø 8	$^{0}_{-0.008}$
Ø 10	$^{0}_{-0.009}$
Ø 12	$^{0}_{-0.011}$
Ø 16	$^{0}_{-0.011}$
Ø 20	$^{0}_{-0.013}$

4RM



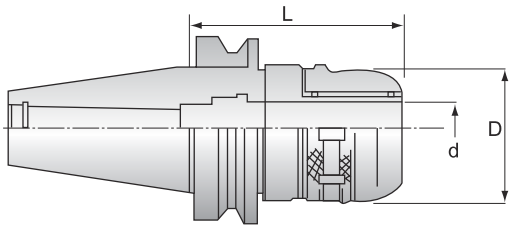
Micro Diameter

Type No. 型 號	Diameter 刃徑 d1	Corner R 圓角 R	Flute Length 刃長 l_1	O. A. L. 全長 l_3	Shank Dia. 柄徑 d2
4RM0102RFG	1.0	R 0.2	2.5	50	4
4RM01502RFG	1.5	R 0.2	4	50	4
4RM01505RFG	1.5	R 0.5	4	50	4
4RM0202RFG	2.0	R 0.2	5	50	4
4RM0205RFG	2.0	R 0.5	5	50	4
4RM02502RFG	2.5	R 0.2	6	50	4
4RM02505RFG	2.5	R 0.5	6	50	4
4RM0302RFG	3.0	R 0.2	8	50	4
4RM0302RG-3	3.0	R 0.2	8	50	3
4RM0303RG-3	3.0	R 0.3	8	50	3
4RM0305RFG	3.0	R 0.5	8	50	4
4RM0305RG-3	3.0	R 0.5	8	50	3
4RM0310RFG	3.0	R 1.0	8	50	4
4RM0310RG-3	3.0	R 1.0	8	50	3
4RM0402RFG	4.0	R 0.2	10	50	4
4RM0403RFG	4.0	R 0.3	10	50	4
4RM0405RFG	4.0	R 0.5	10	50	4
4RM0405RG	4.0	R 0.5	10	50	6
4RM0410RFG	4.0	R 1.0	10	50	4
4RM0410RG	4.0	R 1.0	10	50	6
4RM0505RG	5.0	R 0.5	13	50	6
4RM0510RG	5.0	R 1.0	13	50	6
4RM0602RG	6.0	R 0.2	15	50	6
4RM0605RG	6.0	R 0.5	15	50	6
4RM0610RG	6.0	R 1.0	15	50	6
4RM0615RG	6.0	R 1.5	15	50	6
4RM0620RG	6.0	R 2.0	15	50	6
4RM0805RG	8.0	R 0.5	20	60	8
4RM0810RG	8.0	R 1.0	20	60	8
4RM0815RG	8.0	R 1.5	20	60	8
4RM0820RG	8.0	R 2.0	20	60	8
4RM1005RG	10.0	R 0.5	25	75	10
4RM1010RG	10.0	R 1.0	25	75	10
4RM1015RG	10.0	R 1.5	25	75	10
4RM1020RG	10.0	R 2.0	25	75	10
4RM1025RG	10.0	R 2.5	25	75	10
4RM1030RG	10.0	R 3.0	25	75	10
4RM1205RG	12.0	R 0.5	30	75	12
4RM1210RG	12.0	R 1.0	30	75	12
4RM1215RG	12.0	R 1.5	30	75	12
4RM1220RG	12.0	R 2.0	30	75	12
4RM1225RG	12.0	R 2.5	30	75	12
4RM1230RG	12.0	R 3.0	30	75	12



High Speed Cutting
& High Hard Cutting



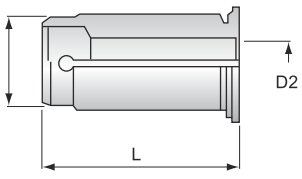


Micro Diameter

Type No. 型 號	D	L	C	Collet
BT30-KCH20-80	6-20	80	54	SC20
BT40-KCH20-80	6-20	80	54	SC20
BT40-KCH20-105	6-20	105	54	SC20
BT40-KCH20-135	6-20	135	54	SC20
BT40-KCH32-105	6-32	105	68	SC32
BT40-KCH32-135	6-32	135	68	SC32
BT50-KCH20-105	6-20	105	54	SC20
BT50-KCH20-135	6-20	135	54	SC20
BT50-KCH20-165	6-20	165	54	SC20
BT50-KCH32-105	6-32	105	68	SC32
BT50-KCH32-135	6-32	135	68	SC32
BT50-KCH32-165	6-32	165	68	SC32
BT50-KCH32-200	6-32	200	68	SC32
BT50-KCH42-105	6-42	105	87	SC42







SC筒夾 SC Spring Collets

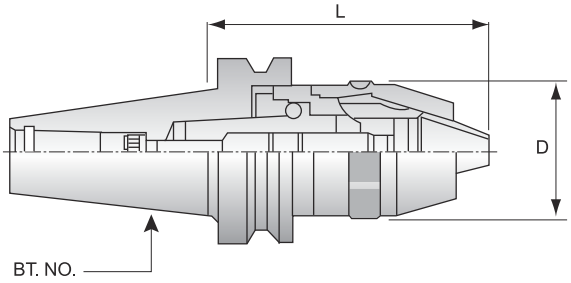
Type No. 型 號	Collet	Model
SC20	6, 8, 10, 12, 14, 16	64
SC32	6, 8, 10, 12, 16, 20, 25	71
SC42	6, 8, 10, 12, 16, 20, 25, 32	80

扳手 Wrench For ASC Milling Chuck C20, C32, C42

Type No. 型 號	D1	Chuck
C20	45	ASC20
C32	76	ASC32
C42	76	ASC42

BT30, BT40, BT50 一體式鑽夾頭
BT30, BT40, BT50 Drill Chuck Holder

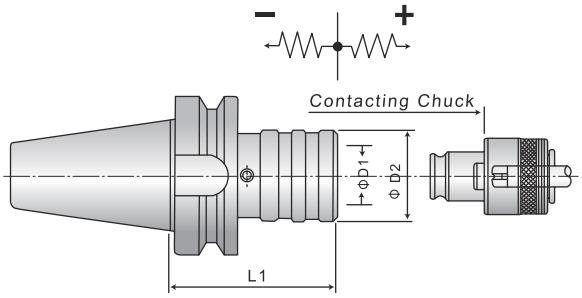




Micro Diameter

Type No. 型 號	Clamping Range(ømm)	D	L	
			Minimum	Maximum
BT30-APU08-80	1-8	36.3	75	82
BT30-APU13-100	1-13	51.5	97	104.5
BT40-APU08-80	1-8	36.3	79	86.5
BT40-APU13-100	1-13	51.5	98	109
BT40-APU16-130	3-16	58	116	130
BT50-APU08-95	1-8	36.3	90	97.5
BT50-APU13-120	1-13	51.5	109	120
BT50-APU13-180	1-13	51.5	169	180
BT50-APU16-130	3-16	58	116	130
BT50-APU16-190	3-16	58	176	190



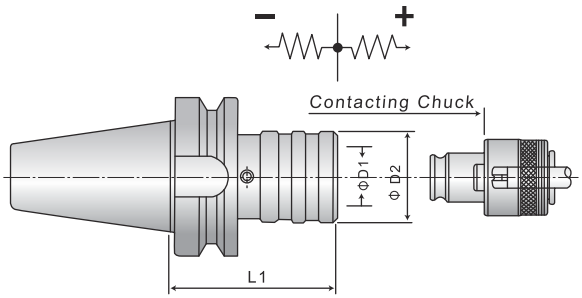


Micro Diameter

Type No. 型 號	Capacity 攻牙能力	L1	⌀D1	⌀D2	伸縮長度 Length Comp.		Collets 絲攻筒夾
					壓縮Comp.	伸長Tens.	
BT30-WF12	M3～M14	57	19	36	7.5	7.5	TC312
BT30-WF20	M8～M24	95	31	53	12.5	12.5	TC820
BT40-WF12	M3～M14	67	19	36	7.5	7.5	TC312
BT40-WF20	M8～M24	94	31	53	12.5	12.5	TC820
BT40-WF33	M14～M36	163	48	78	20.0	20.0	TC1433
BT50-WF12	M3～M14	100	19	36	7.5	7.5	TC312
BT50-WF20	M8～M24	102	31	53	12.5	12.5	TC820
BT50-WF33	M14～M36	163	48	78	20.0	20.0	TC1433

※ 絲攻筒夾須另購





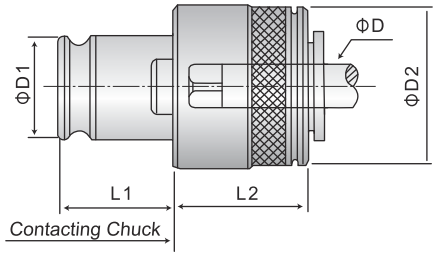
Micro Diameter

Type No. 型 號	Capacity 攻牙能力	L1	⌀D1	⌀D2	伸縮長度 Length Comp.		Collets 絲攻筒夾
					壓縮Comp.	伸長Tens.	
BT40-WEE12-135	M3～M14	135	19	46	15.0	20.0	TC312
BT40-WEE12-165	M3～M14	165	19	46	15.0	20.0	TC312
BT40-WEE12-135	M3～M14	135	19	46	15.0	20.0	TC312
BT40-WEE12-165	M3～M14	165	19	46	15.0	20.0	TC312
BT40-WEE12-195	M3～M14	195	19	46	15.0	20.0	TC312

※ 絲攻筒夾須另購

快換式絲攻筒夾Quick Change Tap Collets





Micro Diameter

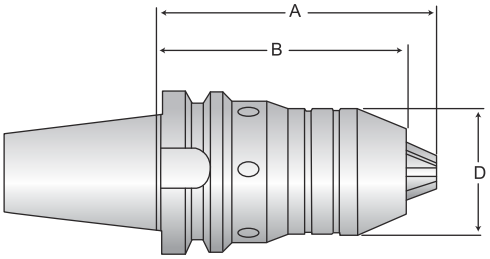
Type No. 型 號	Capacity 攻牙能力	⌀D1	⌀D2	L1	L2
TC 312	M2~M14	19.0	32.0	21.5	25.0
TC 820	M8~M24	31.0	50.0	35.0	34.0
TC 1433	M14~M36	48.0	72.0	55.5	45.0

Micro Diameter

JIS絲攻 JIS Tap			攻牙能力 Capacity		訂購編號 Order No.		
			柄徑⌀D	四方孔□	TC 312(#1)	TC 820(#2)	TC 1433(#3)
M2			3.0	2.5	010-00		
M3		#5,#6	4.0	3.2	010-01		
M4	M4.5	#8	5.0	4.0	010-02		
M5	M5.5	#10	5.5	4.5	010-03		
M6		UNC1/4	6.0	4.5	010-04		
		UNC5/16	6.1	5.0	010-05		
M8	M7		6.2	5.0	010-06	021-01	
M10	M9	UNC3/8	7.0	5.5	010-07	020-02	
	M11	UNC7/16	8.0	6.0	010-08	020-03	
M12			8.5	6.5	010-09	020-04	
		UNC1/2	9.0	7.0	010-10	020-05	
M14	M15	UNC9/16	10.5	8.0	010-11	020-06	030-01
		UNC5/8	12.0	9.0		020-07	030-02
M16			12.5	10.0		020-08	030-03
M18		UNC3/4	14.0	11.0		020-10	030-05
M20			15.0	12.0		020-11	030-06
M22		UNC7/8	17.0	13.0		020-12	030-07
M24	M25		19.0	15.0		020-13	030-08
M27	M26	UNC1	20.0	15.0			030-09
M28			21.0	17.0			030-10
		UNC1 1/8	22.0	17.0			030-11
M30			23.0	17.0			030-12
M32		UNC1 1/4	24.0	19.0			030-13
M33			25.0	21.0			030-14
M35	M34	UNC1 3/8	26.0	21.0			030-15
M36			28.0	21.0			030-16
	PT1/8		8.0	6.0	010-12	020-14	
	PT1/4		11.0	9.0	010-13	020-15	030-17
	PT3/8		14.0	11.0		020-16	030-18
	PT1/2		18.0	14.0		020-17	030-19
	PT3/4		23.0	17.0			030-20
	PT1		26.0	21.0			030-21

WEY JUAN TECHNOLOGY





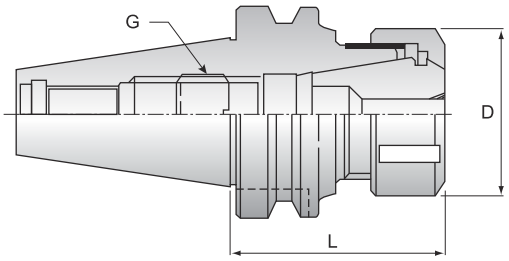
Micro Diameter

Description / Code No.	Type No. 型 號	攻牙能力 Capacity		A mm	B mm	C mm	N.M.(kg)
		mm	inch				
203008	BT30-SPH08-80	0-8	0-5/16	92	83	38	2.2
203013	BT30-SPH13-100	0-13	0-1/12	115	102	50	2.5
204008	BT40-SPH08-85	0-8	0-5/16	96	87	38	2.4
204013	BT40-SPH13-105	0-13	0-1/12	115	102	50	2.3
204016	BT40-SPH16-110	3-16	1/8-5/8	122	119	57	3.0
205013	BT50-SPH13-115	0-13	0-1/2	127	115	50	5.2
205016	BT50-SPH16-120	3-16	1/8-5/8	133	120	57	6.0

特性:

1. 夾緊力強，達600 kgf-cm。
2. 可雙向使用，特殊設計，鑽孔、攻牙、鉸銑孔，皆可使用。
3. 可適用於主軸轉速6000 RPM以上。





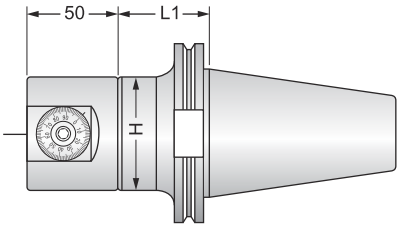
Micro Diameter

※（）代表M型羅帽

Type No. 型 號	Capacity	L	D	Collet Type
BT30-ER16-60	0.5-10	60	28 (22)	ER-16
BT30-ER16-100	0.5-10	100	28 (22)	ER-16
BT30-ER20-60	1-13	60	34 (28)	ER-20
BT30-ER20-100	1-13	100	34 (28)	ER-20
BT30-ER25-60	1-16	60	42	ER-25
BT30-ER25-100	1-16	100	42	ER-25
BT30-ER32-60	2-20	60	50	ER-32
BT30-ER32-100	2-20	100	50	ER-32
BT40-ER16-70	0.5-10	70	28 (22)	ER-16
BT40-ER16-100	0.5-10	100	28 (22)	ER-16
BT40-ER16-150	0.5-10	150	28	ER-16
BT40-ER20-70	1-13	70	34 (28)	ER-20
BT40-ER20-100	1-13	100	34 (28)	ER-20
BT40-ER20-150	1-13	50	34	ER-20
BT40-ER25-70	1-16	70	42	ER-25
BT40-ER25-100	1-16	100	42	ER-25
BT40-ER32-70	2-20	70	50	ER-32
BT40-ER32-100	2-20	100	50	ER-32
BT40-ER32-150	2-20	150	50	ER-32
BT40-ER40-80	3-26	80	63	ER-40
BT40-ER40-100	3-26	100	63	ER-40
BT50-ER16-100	0.5-10	100	28	ER-16
BT50-ER16-150	0.5-10	150	28	ER-16
BT50-ER20-100	1-13	100	34	ER-20
BT50-ER20-150	1-13	150	34	ER-20
BT50-ER25-100	1-16	100	42	ER-25
BT50-ER25-150	1-16	150	42	ER-25
BT50-ER32-100	2-20	100	50	ER-32
BT50-ER32-150	2-20	150	50	ER-32

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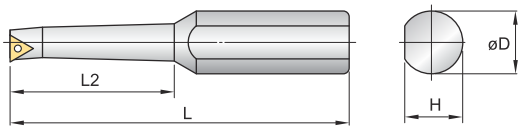


NBJ16微調精搪孔系統

Type No. 型 號	加工內徑	H-System	L1
NT40-NBJ16	ø6~ø51	H63	55
NT50-NBJ16	ø6~ø51	H63	65
BT40-NBJ16	ø6~ø51	H63	55
BT50-NBJ16	ø6~ø51	H63	65

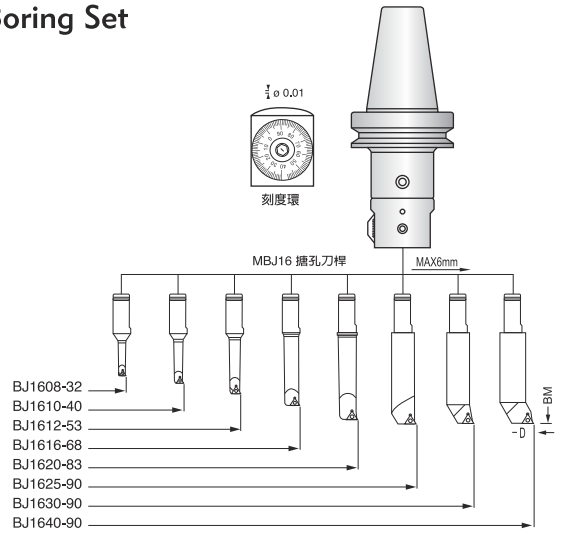
Type No. 型 號	加工內徑	H-System	L1
SK40-NBJ16	ø6~ø51	H63	60
SK50-NBJ16	ø6~ø51	H63	50
HSK63A-NBJ16	ø6~ø51	H63	60





Ø16 mm NBJ16精搪刀桿盒裝組 8 Pcs Boring Set



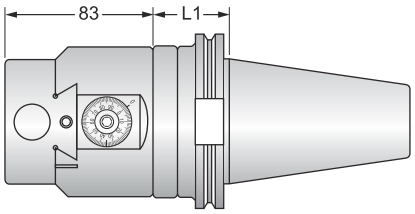


Micro Diameter

Type No. 型 號	Applicable Insert 適用刀片	加工內徑	尺寸 Dimension				配件 Accessory	
			D	d	L1	H		
BJ1608-32	TBGT060102L	ø8~ø11	16	80	33.5	15	FC5-2010	T6
BJ1610-40	TBGT060104L	ø10~ø13	16	86.5	41.8	15	FC5-2010	T6
BJ1612-53	TBGH090202L	ø12~ø15	16	98	55.2	15	FC5-2010	T8
BJ1616-68	TBGH090204L	ø16~ø21	16	110	70.8	15	FC5-2010	T10
BJ1620-83	TBGH110302L	ø20~ø26	16	125	85	15	FC5-2010	T10
BJ1625-90	TBGH110302L	ø25~ø31	16	128	90	15	FC5-2010	T10
BJ1630-90	TBGH110304L	ø31~ø40	16	128	90	15	FC5-2010	T10
BJ1640-90	TBGH110304L	ø40~ø50	16	128	90	15	FC5-2010	T10

NBH2084精搪刀桿 Minor Diameter Bore



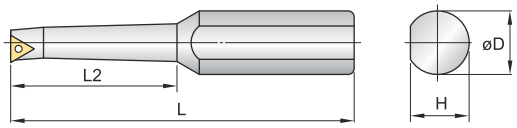


NBH2084微調精搪孔系統

Type No. 型 號	加工內徑
R8-NBH2084	ø8～ø280
NT30-NBH2084	ø8～ø280
NT40-NBH2084	ø8～ø280
NT50-NBH2084	ø8～ø280
MT4-NBH2084	ø8～ø280

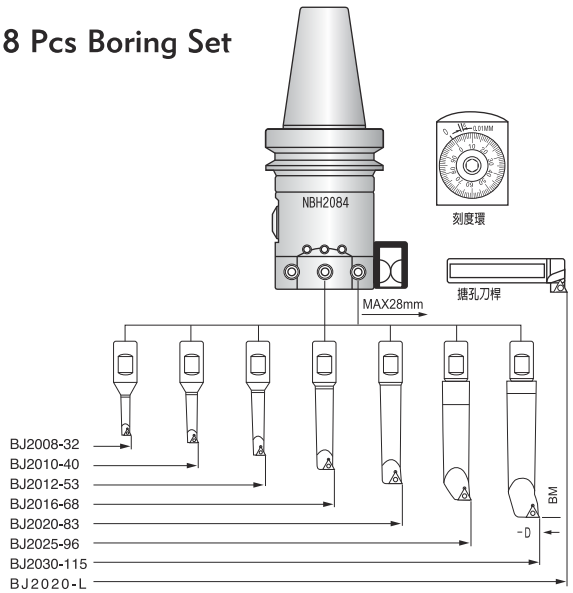
Type No. 型 號	加工內徑
BT40-NBH2084	ø8～ø280
BT50-NBH2084	ø8～ø280
SK40-NBH2084(DIN69871)	ø8～ø280
SK50-NBH2084(DIN69871)	ø8～ø280
MT5-NBH2084	ø8～ø280





Ø20 mm NBH2084精搪刀桿盒裝組 8 Pcs Boring Set



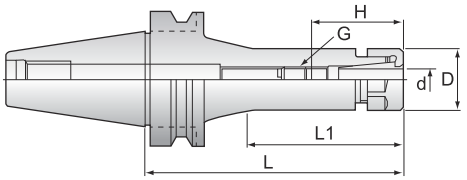


Micro Diameter

Type No. 型 號	Applicable Insert 適用刀片	加工內徑	尺寸 Dimension				配件 Accessory	
			D	d	L1	H		
BJ2008-32	TBGT060102L	ø8～ø11	20	75	32	18	FC5-2010	T6
BJ2010-40	TBGT060104L	ø10～ø13	20	75	38	18	FC5-2010	T6
BJ2012-53	TBGH090202L	ø12～ø17	20	85	48	18	FC5-2510	T8
BJ2016-68	TBGH090204L	ø16～ø21	20	100	66	18	FC5-2510	T8
BJ2020-83	TBGH110302L/04L	ø20～ø130	20	115	83	18	FC5-3010	T10
BJ2025-96	TBGH110302L/04L	ø25～ø135	20	128	96	18	FC5-3010	T10
BJ2030-115	TBGH110302L/04L	ø31～ø140	20	147	115	18	FC5-3010	T10
BJ2020-L	TBGH110302L/04L	ø40～ø280	20	97	18	18	FC5-3010	T10

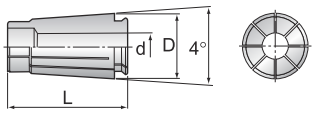
New





SSK 4°高速精密筒夾 SSK 4° Collet





Order Code		D	L
Collet series	Ød		
SSK6	2, 3, 4, 5, 6	10.55	25
SSK10	3, 4, 5, 6, 7, 8, 9, 10	15.6	30
SSK16	4, 5, 6, 7, 8, 9, 10 , 11,12, 13, 14, 15, 16	24.6	45

Type No. 型 號	Range (d)	L	L1
BT30-SSK6-60	2-6	60	38
BT30-SSK6-90	2-6	90	50
BT30-SSK10-60	2-10	60	38
BT30-SSK10-90	2-10	90	68
BT30-SSK16-60	3-16	60	38
BT30-SSK16-90	3-16	90	68
BT30-SSK20-60	4-20	60	37
BT30-SSK20-80	6-25	80	37
BT40-SSK6-60	2-6	60	33
BT40-SSK6-90	2-6	90	50
BT40-SSK6-120	2-6	120	50
BT40-SSK10-60	2-10	60	33
BT40-SSK10-90	2-10	90	63
BT40-SSK10-120	2-10	120	70
BT40-SSK10-150	2-10	150	88
BT40-SSK16-60	3-16	60	33
BT40-SSK16-90	3-16	90	63
BT40-SSK16-120	3-16	120	93
BT40-SSK16-150	3-16	150	123
BT40-SSK20-60	4-20	60	33
BT40-SSK20-90	4-20	90	63
BT40-SSK20-120	4-20	120	93
BT40-SSK20-150	4-20	150	123
BT40-SSK25-80	4-25	80	53
BT40-SSK25-120	6-25	120	93
BT50-SSK6-100	2-6	100	50
BT50-SSK6-150	2-6	150	50
BT50-SSK10-100	2-10	100	62
BT50-SSK10-150	2-10	150	70
BT50-SSK16-100	3-16	100	62
BT50-SSK16-150	3-16	150	112
BT50-SSK16-200	3-16	200	162
BT50-SSK20-100	4-20	100	62
BT50-SSK20-150	4-20	150	112
BT50-SSK20-200	4-20	200	162
BT50-SSK25-100	6-25	100	62
BT50-SSK25-150	6-25	150	112
BT50-SSK25-200	6-25	200	162

SDC 小徑後拉高速刀桿 SDC Slim Chuck

New



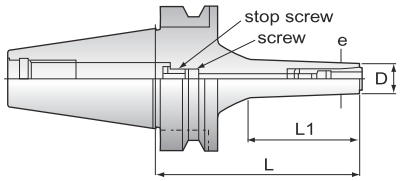


Fig. 1

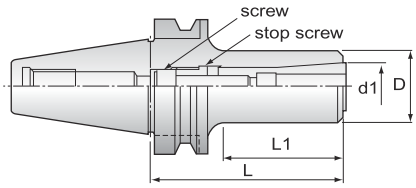
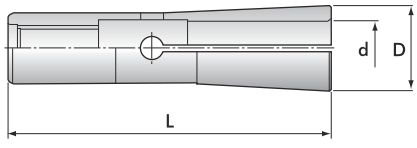


Fig. 2

Type No. 型 號	Gripping Range	L	D	Fig	D
BT30-SDC6-60	2-6	60	13	1	DC6
BT30-SDC6-90	2-6	90	13	1	DC6
BT40-SDC6-60	2-6	60	13	1	DC6
BT40-SDC6-90	2-6	90	13	1	DC6
BT40-SDC6-120	2-6	120	13	1	DC6
BT40-SDC6-150	2-6	150	13	1	DC6
BT40-SDC8-90	3-8	90	22	1	DC8
BT40-SDC8-120	3-8	120	22	1	DC8
BT40-SDC10-90	3-10	90	28	2	DC10
BT40-SDC10-120	3-10	120	28	2	DC10
BT40-SDC12-70	3-12	70	34	2	DC12
BT40-SDC12-90	3-12	90	34	2	DC12
BT50-SDC10-110	3-10	110	28	2	DC10

SDC 高速後拉筒夾
SDC Collet (for end mill)





Order Code		L	ØD
Collet series	Ød		
SDC6	3, 4, 6	36	9.6
SDC8	3, 4, 6, 8	45	15
SDC10	3, 4, 6, 8, 10	52	19.1
SDC12	3, 4, 5, 6, 8, 10 ,12	60	22

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Micro Diameter

Type No. 型 號	Capacity	Collet Set
NT30-KCH20	6-20	6, 8, 10, 12, 16
NT40-KCH32	6-32	6, 8, 10, 12, 16, 20 , 25
NT50-KCH32	6-32	6, 8, 10, 12, 16, 20 , 25





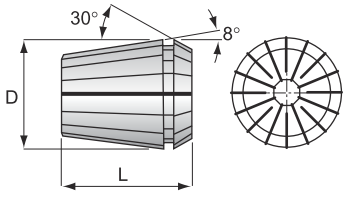
Micro Diameter

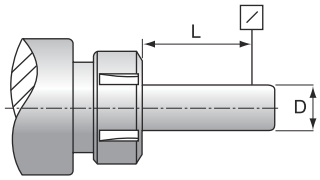
Type No. 型 號	Capacity	Collet Set
NT30-OZ25	3-25	7 PS : 6, 8, 10, 12, 16, 20, 25 15PS : 3, 4, 5, 6, 7, 8, 9, 10 , 11, 12, 13, 16, 18, 20, 25
NT30-OZ25		
NT40-OZ25		
NT40-OZ32	6-32	8 PS : 6, 8, 10, 12, 16, 20, 25, 32 15PS : 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 20, 25, 32
NT50-OZ32		



Micro Diameter

ER11		ER20		ER25		ER32		ER40	
Ordering Code	Range (mm)	Ordering Code	Range (mm)	Ordering Code	Range (mm)	Ordering Code	Range (mm)	Ordering Code	Range (mm)
ER11-1.0	1.0-0.5	ER20-2	2-1	ER25-2	2-1	ER32-3	3-2	ER40-4	4-3
ER11-1.5	1.5-1.0	ER20-3	3-2	ER25-3	3-2	ER32-4	4-3	ER40-5	5-4
ER11-2.0	2.0-1.5	ER20-4	4-3	ER25-4	4-3	ER32-5	5-4	ER40-6	6-5
ER11-2.5	2.5-2.0	ER20-5	5-4	ER25-5	5-4	ER32-6	6-5	ER40-7	7-6
ER11-3.0	3.0-2.5	ER20-6	6-5	ER25-6	6-5	ER32-7	7-6	ER40-8	8-7
ER11-3.5	3.5-3.0	ER20-7	7-6	ER25-7	7-6	ER32-8	8-7	ER40-9	9-8
ER11-4.0	4.0-3.5	ER20-8	8-7	ER25-8	8-7	ER32-9	9-8	ER40-10	10-9
ER11-4.5	4.5-4.0	ER20-9	9-8	ER25-9	9-8	ER32-10	10-9	ER40-11	11-10
ER11-5.0	5.0-4.5	ER20-10	10-9	ER25-10	10-9	ER32-11	11-10	ER40-12	12-11
ER11-5.5	5.5-5.0	ER20-11	11-10	ER25-11	11-10	ER32-12	12-11	ER40-13	13-12
ER11-6.0	6.0-5.5	ER20-12	12-11	ER25-12	12-11	ER32-13	13-12	ER40-14	14-13
ER11-6.5	6.5-6.0	ER20-13	13-12	ER25-13	13-12	ER32- 14	14-13	ER40-15	15-14
ER11-7.0	7.0-6.5			ER25-14	14-13	ER32-15	15-14	ER40-16	16-15
ER16				ER25-15	15-14	ER32-16	16-15	ER40-17	17-16
ER16-1	1-0.5			ER25-16	16-15	ER32-17	17-16	ER40-18	18-17
ER16-2	2-1					ER32-18	18-17	ER40-19	19-18
ER16-3	3-2					ER32-19	19-18	ER40-20	20-19
ER16-4	4-3					ER32-20	20-19	ER40-21	21-20
ER16-5	5-4							ER40-22	22-21
ER16-6	6-5							ER40-23	23-22
ER16-7	7-6							ER40-24	24-23
ER16-8	8-7							ER40-25	25-24
ER16-9	9-8							ER40-26	26-25
ER16-10	10-9								





Collet Dimensions

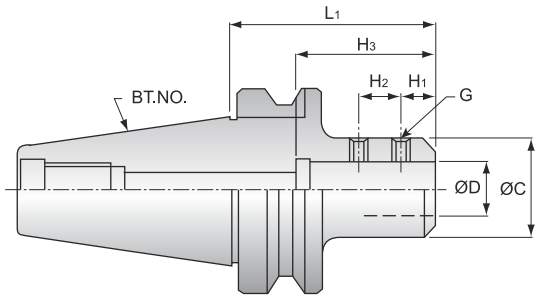
Type No. 型號	ER11	ER16	ER20	ER25	ER32	ER40
D	11.5	17	21	26	33	41
L	18	27	31	35	40	46

Concentricity of Collet DIN 6499

D (mm)	D (mm)	DIN 6499		
		Class2	Class1	ClassG
6	1.0-1.4	0.015	0.01	0.005
10	1.5-2.9			
16	3.0-5.9			
25	6.0-9.9			
40	10.0-17.9	0.02	0.015	0.01
50	18.0-26.9			
60	27.0-34.9			

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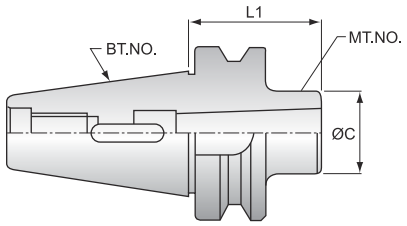


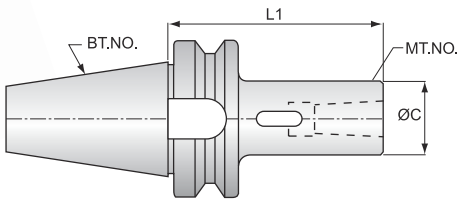


Micro Diameter

Type No. 型 號	D	C	H	L	H1	H2	H3
BT30-SLA6-60	6	25	32	60	10	10	M6
BT30-SLA8-60	8	28	36	60	12	12	M8
BT30-SLA10-60	10	35	40	60	15	12	M8
BT30-SLA12-60	12	40	45	60	18	16	M10
BT30-SLA16-75	16	45	50	75	20	18	M10
BT30-SLA20-75	20	50	60	75	25	20	M12
BT30-SLA25-75	25	55	65	75	24	25	M12
BT40-SLA6-75	6	25	32	75	10	10	M6
BT40-SLA8-75	8	28	36	75	12	12	M8
BT40-SLA10-75	10	35	40	75	15	12	M8
BT40-SLA12-75	12	40	45	75	18	16	M10
BT40-SLA14-75	14	42	45	75	18	16	M10
BT40-SLA16-75	16	45	50	75	20	18	M10
BT40-SLA18-75	18	48	50	75	20	18	M12
BT40-SLA20-75	20	50	60	75	25	20	M12
BT40-SLA25-75	25	60	65	75	24	25	M16
BT40-SLA32-90	32	60	70	90	24	28	M16
BT40-SLA40-105	40	80	80	105	24	28	M16
BT40-SLA42-105	42	80	80	105	24	28	M20
BT50-SLA6-105	6	25	32	105	10	10	M6
BT50-SLA8-105	8	28	36	105	12	12	M8
BT50-SLA10-105	10	35	40	105	15	12	M8
BT50-SLA12-105	12	40	45	105	18	16	M10
BT50-SLA14-105	14	42	45	105	18	16	M10
BT50-SLA16-105	16	45	50	105	20	18	M10
BT50-SLA18-105	18	48	55	105	20	18	M10
BT50-SLA20-105	20	50	60	105	25	20	M12
BT50-SLA20-150	20	50(40)	60	150	25	20	M12
BT50-SLA20-200	20	50(40)	60	200	25	20	M12
BT50-SLA25-105	25	60	60	105	25	22	M16
BT50-SLA25-150	25	60(50)	65	150	24	25	M16
BT50-SLA25-200	25	60(50)	65	200	24	25	M16
BT50-SLA25-250	25	60(50)	65	250	24	25	M16
BT50-SLA32-105	32	60	70	105	24	28	M20
BT50-SLA32-150	32	60(50)	70	150	24	28	M20
BT50-SLA32-200	32	60(50)	70	200	24	28	M20
BT50-SLA32-250	32	60(50)	70	250	24	28	M20
BT50-SLA40-105	40	80	80	105	30	32	M20
BT50-SLA42-105	42	80	80	105	30	32	M20
BT50-SLA42-150	42	80	80	150	30	32	M20
BT50-SLA42-200	42	80	80	200	30	32	M20
BT50-SLA50.8-120	50.8	95	90	120	30	32	M20







Micro Diameter

Type No. 型 號	Fig	MT. No.	Ø C	L1
BT30-MT1-45	1	MT1	25	45
BT30-MT2-60	1	MT2	32	60
BT30-MT3-80	1	MT3	40	80
BT40-MT1-45	1	MT1	25	45
BT40-MT1-120	2	MT1	25	120
BT40-MT2-45	1	MT2	32	45
BT40-MT2-120	2	MT2	32	120
BT40-MT3-75	1	MT3	40	75
BT40-MT3-135	2	MT3	40	135
BT40-MT4-90	1	MT4	50	90
BT50-MT1-45	1	MT1	25	45
BT50-MT1-120	2	MT1	25	120
BT50-MT1-180	2	MT1	32	180
BT50-MT2-45	1	MT2	32	45
BT50-MT2-135	2	MT2	32	135
BT50-MT2-185	2	MT2	32	185
BT50-MT3-45	1	MT3	40	45
BT50-MT3-150	2	MT3	40	150
BT50-MT3-180	2	MT3	40	180
BT50-MT4-75	1	MT4	50	75
BT50-MT4-180	2	MT4	50	180
BT50-MT5-105	1	MT5	65	105
BT50-MT5-210	2	MT5	65	210

WEY JUAN TECHNOLOGY

平面銑刀柄 Face Mill A Type



Fig 1

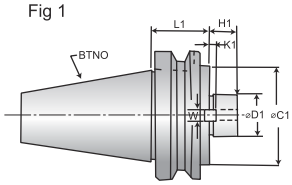


Fig 2

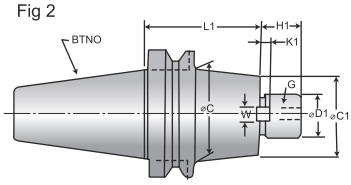
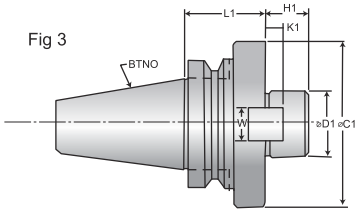
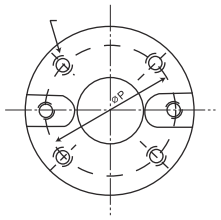


Fig 3





Micro Diameter

※（）代表特殊尺寸

Type No. 型 號	Fig	D1	L1	H1	G	W1	C-C1
BT30-FMA25.4-45,60	1	25.4	45 , 60	20	M12	9.5	45
BT40-FMA25.4-45,60	1	25.4	45 , 60	20	M12	9.5	55
BT40-FMA25.4-90,105	2	25.4	90 , 105	20	M12	9.5	62-55
BT40-FMA25.4-125,105	2	25.4	125 , 150	20	M12	9.5	62-55
BT40-FMA31.75-45,75	1	31.75	45 , 75	22	M12	12.7	62
BT40-FMA31.75-105,125	2	31.75	105 , 125	22	M12	12.7	70-62
BT40-FMA38.1-60	3	38.1	60	23	M16	15.9	80
BT50-FMA25.4-45,75	1	25.4	45 , 75	20	M12	9.5	60
BT50-FMA25.4-105,125	2	25.4	105 , 125	20	M12	9.5	60
BT50-FMA25.4-150	2	25.4	150	20	M12	9.5	63-58
BT50-FMA25.4-200	2	25.4	200	20	M12	9.5	63-58(68-60)
BT50-FMA25.4-250	2	25.4	250	20	M12	9.5	63-58(70-60)
BT50-FMA25.4-300	2	25.4	300	20	M12	9.5	63-58(72-60)
BT50-FMA31.75-45,75	1	31.75	45 , 75	22	M16	12.7	70
BT50-FMA31.75-105	2	31.75	105	22	M16	12.7	75-70
BT50-FMA31.75-125	2	31.75	125	22	M16	12.7	75-70
BT50-FMA31.75-150	2	31.75	150	22	M16	12.7	75-70
BT50-FMA31.75-200	2	31.75	200	22	M16	12.7	75-70
BT50-FMA38.1-45,75	1	38.1	45 , 75	23	M16	15.9	85
BT50-FMA38.1-105	2	38.1	105	23	M16	15.9	85-80
BT50-FMA38.1-125	2	38.1	125	23	M16	15.9	85-80
BT50-FMA38.1-150	2	38.1	150	23	M16	15.9	85-50
BT50-FMA50.8-45,75	1	38.1	45 , 75	24	M16	19.05	95
BT50-FMA50.8-105	2	50.8	105	24	M16	19.05	95
BT50-FMA50.8-125	2	50.8	125	24	M16	19.05	95
BT50-FMA50.8-150	2	50.8	150	24	M16	19.05	95
BT50-FMA47.625-75	3	47.625	75	32	-	25.4	128.57

平面銑刀柄 Face Mill B Type



Fig 1

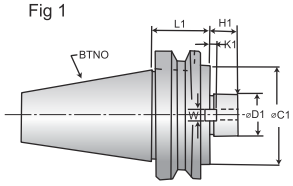


Fig 2

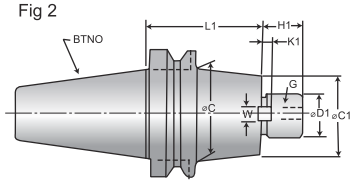
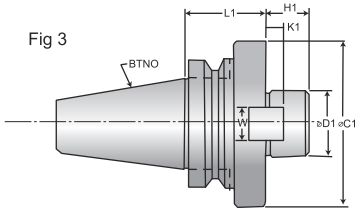
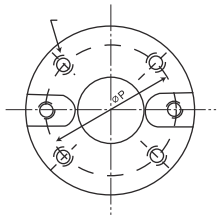


Fig 3

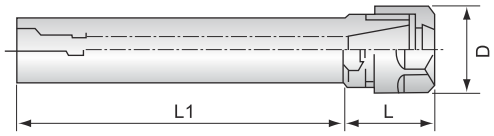




Micro Diameter

Type No. 型 號	Fig	D1	L1	H1	H2	W	G
BT30-FMB22-45	1	22	45	18	4	10	M10
BT30-FMB27-45	1	27	45	20	4	12	M12
BT40-FMB22-60	1	22	60	18	4	10	M10
BT40-FMB22-105	2	22	105	18	4	10	M10
BT40-FMB27-60	1	27	60	20	4	12	M12
BT40-FMB27-105	1	27	105	20	4	12	M12
BT40-FMB32-60	1	32	60	21	4	14	M16
BT40-FMB32-105	1	32	105	21	4	14	M16
BT40-FMB40-60	1	40	60	23	4	16	M16
BT50-FMB22-60	1	22	60	18	4	10	M10
BT50-FMB22-105	2	22	105	18	4	10	M10
BT50-FMB22-125	2	22	125	18	4	10	M10
BT50-FMB22-150	2	22	150	18	4	10	M10
BT50-FMB22-200	2	22	200	18	4	10	M10
BT50-FMB22-250	2	22	250	18	4	10	M10
BT50-FMB27-60	1	27	60	20	4	12	M12
BT50-FMB27-105	1	27	105	20	4	12	M12
BT50-FMB27-125	2	27	125	20	4	12	M12
BT50-FMB27-150	2	27	150	20	4	12	M12
BT50-FMB32-60	1	32	60	21	4	14	M16
BT50-FMB32-105	1	32	105	21	4	14	M16
BT50-FMB32-150	2	32	150	21	4	14	M16
BT50-FMB40-60	1	40	60	23	4	16	M16
BT50-FMB40-105	1	40	105	23	4	16	M16
BT50-FMB40-150	1	40	150	23	4	16	M16
BT50-FMB60-75	3	60	75	32	4	25.4	-





Straight Shank C20, C25. C32, C40

Type No. 型 號	L1	L	D
C20-ER16-50	50	30	28
C20-ER16-100	100	30	28
C20-ER16-150	150	30	28
C20-ER20-50	50	36	34
C20-ER20-100	100	36	34
C20-ER20-150	150	36	34
C20-ER25-50	50	46	42
C20-ER25-100	100	46	42
C20-ER25-150	150	46	42
C25-ER16-100	100	30	28
C25-ER16-150	150	30	28

Type No. 型 號	L1	L	D
C25-ER20-150	150	36	34
C25-ER25-100	100	46	42
C25-ER25-150	150	46	42
C25-ER32-80	80	54	50
C25-ER40-100	100	55	63
C32-ER25-60	60	46	42
C32-ER32-100	100	54	50
C32-ER40-100	100	55	63
C40-ER32-100	100	54	50
C40-ER40-100	100	55	63

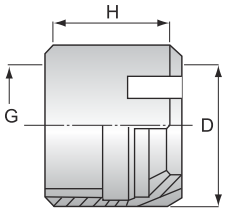


直柄ER夾頭組

本 體 D1 x L1	筒夾型號	筒夾規格
ø 20 x L50	ER16 夾持能力 ø0.5 ~ ø10	1 ~ 0.5 2 ~ 1 3 ~ 2 4 ~ 3 5 ~ 4 6 ~ 5 8 ~ 7 9 ~ 8 10 ~ 9 共10只
ø 20 x L100		
ø 20 x L150		
ø 20 x L200		

本 體 D1 x L1	筒夾型號	筒夾規格
ø 20 x L50	ER20 夾持能力 ø1 ~ ø13	2 ~ 1 3 ~ 2 4 ~ 3 6 ~ 5 7 ~ 6 8 ~ 7 9 ~ 8 11 ~ 10 12 ~ 11 13 ~ 12 共12只
ø 20 x L100		
ø 20 x L150		
ø 20 x L200		

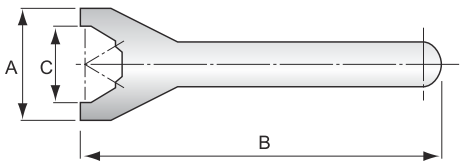




螺母系列 Clamping Nuts

Type No. 型 號	Fig.	D	H	G	Collet Type
ER11	1	19	13	M14XP0.75	ER11
ER16	1	28	17.5	M22XP1.5	ER16
ER20	1	34	19	M25XP1.5	ER20
ER25	2	42	20	M32XP1.5	ER25
ER32	2	50	22.5	M40XP1.5	ER32
ER40	2	63	29	M50XP1.5	ER40
ER11-M	3	16	12	M13XP0.75	ER11
ER16-M	3	22	18	M19XP1.0	ER16
ER20-M	3	28	19	M24XP1.0	ER20





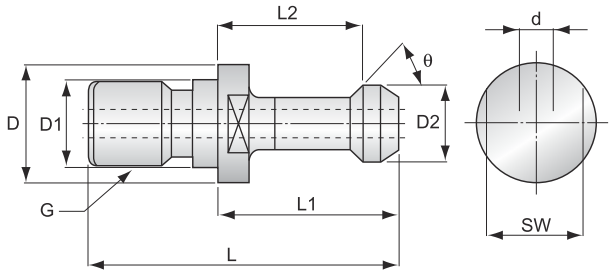
板手系列 Wrench Series

Type No. 型 號	Fig.	A	C	B	Collet Type
ER16		45	25	137	ER16
ER20		54	30	162	ER20
ER25	1	65	37	206	ER25
ER32	1	75	46.5	253	ER32
ER40	1	90	58	289	ER40
ER11-M	2	17	8.5	95	ER11
ER16-M	2	22.5	12.5	117	ER16
ER20-M	2	28.5	15.5	129	ER20

WEY JUAN TECHNOLOGY

BT 螺栓拉頭 Pull Stud





Micro Diameter

Type of Pull Strd 型 號	L	L1	L2	D	D1	D2	q	G	SW
BT30 - 45°	43	23	18	16.5	12.5	11	45°	M12	13
BT30 - 60°	43	23	18	16.5	12.5	11	60°	M12	13
BT40 - 45°	60	35	28	23	17	15	45°	M16	19
BT40 - 60°	60	35	28	23	17	15	60°	M16	19
BT40 - 90°	60	35	28	23	17	15	90°	M16	19
BT50 - 45°	85	45	35	38	25	23	45°	M24	30
BT50 - 60°	85	45	35	38	25	23	60°	M24	30
BT50 - 90°	85	45	35	38	25	23	90°	M24	30



刀庫主軸清潔棒(可替換式片)
Spindle Taper Wipers

Type No. 型 號	Taper No. 型 號
CL-30	#30
CL-40	#40
CCL-50	#50



Vertical/Horizontal
BT Tool Holder Locking Device

立橫兩用BT刀軸鎖刀座

BT30, BT40, BT50三種規格。

特性：

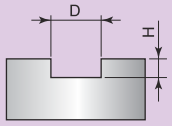
1.操作簡單，刀軸容易固定。
2.立式、橫式兩用。
3.不需再調整角度即可使用。
4.置刀架使用鋁合金，保護刀把。

切削數據表 Recommend Cutting Conditions

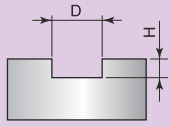
切削條件：極細微粒炭化鎢 2刃立銑刀 WJ-352 / WJ-452

被切削材	鐵材、碳素鋼、鑄鐵 合金鋼、工具鋼、模具鋼		合金鋼、工具鋼 模具鋼、熱處理鋼		合金鋼、工具鋼、不鏽鋼 模具鋼、熱處理鋼		熱處理鋼 鈦合金		熱處理鋼、耐熱合金 鎳稽合金	
	SS41,S45C,FC,FCD SCr,SCM,SNC,SNCM SK,SKS,SKT,SKD PDS1, PDS3,S50C,YK30		SCr,SCM,SNC,SNCM, SKD,NAK101 PDS5,P20		SCr,SCM,SNC,SNCM, SKD,NAK55,NAK80 P20S,FDAC,SUS420J2 SUS304,SUS316		TI-6A-4v		inconel	
被切削材硬度	HRC30以下		HRC30-35		HRC35-40		HRC40-45		HRC45-50	
立銑刀刃徑 mm	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分
D1.0	16.000	64	9.500	40	8.600	38	7.600	36	3.200	13
D2.0	9.500	88	5.700	56	5.100	50	4.500	44	1.900	19
D3.0	7.400	120	4.500	76	4.000	68	3.600	60	1.500	25
D4.0	6.400	160	3.800	96	3.400	86	3.000	80	1.270	32
D5.0	5.700	200	3.400	120	3.100	110	2.700	96	1.150	40
D6.0	5.300	256	3.200	152	2.900	136	2.500	120	1.060	50
D8.0	4.000	256	2.400	152	2.200	136	1.900	120	800	50
D10.0	3.200	256	1.900	152	1.700	136	1.500	120	640	50
D12.0	2.600	250	1.600	152	1.450	136	1.300	120	530	50
D16.0	2.000	192	1.200	116	1.100	104	950	92	400	38
D18.0	1.800	176	1.100	104	1.000	94	850	80	350	33
D20.0	1.600	152	920	92	860	83	760	72	320	30
D25.0	1.300	128	760	72	680	65	600	58	250	24

最大切削量



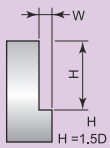
D=3.0mm 以下時，H=0.15D 以下
D=3.0mm 以上時，H=0.25D 以下



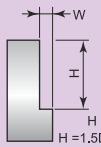
D=3.0mm 以下時，H=0.05D 以下
D=3.0mm 以上時，H=0.10D 以下

被切削材硬度	HRC30以下		HRC30-35		HRC35-40		HRC40-45		HRC45-50	
立銑刀刃徑 mm	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分
D1.0	16.000	80	9.500	50	8.600	48	7.600	40	3.200	16
D2.0	9.500	110	5.700	70	5.100	62	4.500	55	1.900	23
D3.0	7.400	150	4.500	95	4.000	85	3.600	75	1.500	31
D4.0	6.400	200	3.800	120	3.400	107	3.000	100	1.270	40
D5.0	5.700	250	3.400	150	3.100	137	2.700	120	1.150	51
D6.0	5.300	320	3.200	190	2.900	170	2.500	150	1.060	64
D8.0	4.000	320	2.400	190	2.200	170	1.900	150	800	64
D10.0	3.200	320	1.900	190	1.700	170	1.500	150	640	64
D12.0	2.600	310	1.600	190	1.450	170	1.300	150	530	64
D16.0	2.000	240	1.200	145	1.100	130	950	115	400	48
D18.0	1.800	220	1.100	130	1.000	120	850	100	350	42
D20.0	1.600	190	920	115	860	105	760	90	320	38
D25.0	1.300	160	760	90	680	81	600	72	250	30

最大切削量



H =0.15D 以下，W=0.05D 以下



H =0.15D 以下，W=0.025D 以下

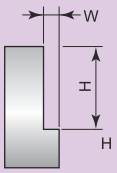
WEY JUAN TECHNOLOGY

切削數據表 Recommend Cutting Conditions

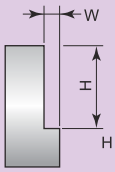
切削條件：極細微粒炭化鎢 4刃立銑刀 WJ-354 / WJ-454

被切削材	鐵材、碳素鋼、鑄鐵 合金鋼、工具鋼、模具鋼		合金鋼、工具鋼 模具鋼、熱處理鋼		合金鋼、工具鋼、不鏽鋼 模具鋼、熱處理鋼		熱處理鋼 鈦合金		熱處理鋼、耐熱合金 鎳稽合金	
	SS41,S45C,FC,FCD SCr,SCM,SNC,SNCM SK,SKS,SKT,SKD PDS1, PDS3,S50C,YK30		SCr,SCM,SNC,SNCM, SKD,NAK101 PDS5,P20		SCr,SCM,SNC,SNCM, SKD,NAK55,NAK80 P20S,FDAC,SUS420J2 SUS304,SUS316		Tl-6A-4v		inconel	
被切削材硬度	HRC30以下		HRC30-35		HRC35-40		HRC40-45		HRC45-50	
立銑刀刃徑 mm	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分
D3.0	7.400	220	4.500	140	4.000	130	3.600	110	1.500	46
D4.0	6.400	370	3.800	180	3.400	160	3.000	150	1.270	60
D5.0	5.700	370	3.400	220	3.000	200	2.700	180	1.150	76
D6.0	5.300	480	3.200	290	2.900	260	2.500	220	1.060	96
D8.0	4.000	480	2.400	290	2.200	260	1.900	220	800	96
D10.0	3.200	480	1.900	290	1.650	260	1.500	220	640	96
D12.0	2.600	460	1.600	290	1.450	260	1.300	220	530	96
D16.0	2.000	360	1.200	220	1.080	200	950	170	400	72
D18.0	1.800	330	1.050	195	950	180	850	150	350	63
D20.0	1.600	290	950	170	860	150	760	135	320	57
D25.0	1.300	240	760	135	680	120	600	110	250	45

最大切削量



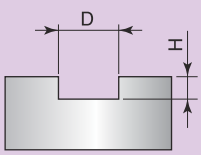
H =1.5D 以下，W=0.10D 以下
H =1.5D 以下，W=0.05D 以下，進幾可2倍



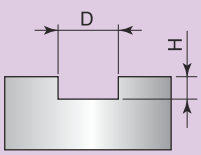
H =1D 以下，W=0.05D 以下

被切削材硬度	HRC30以下		HRC30-35		HRC35-40		HRC40-45		HRC45-50	
立銑刀刃徑 mm	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分
D3.0	7.400	176	4.500	110	4.000	104	3.600	90	1.500	37
D4.0	6.400	300	3.800	145	3.400	130	3.000	120	1.270	48
D5.0	5.700	300	3.400	180	3.000	160	2.700	145	1.150	60
D6.0	5.300	380	3.200	230	2.900	210	2.500	180	1.060	75
D8.0	4.000	380	2.400	230	2.200	210	1.900	180	800	75
D10.0	3.200	380	1.900	230	1.650	210	1.500	180	640	75
D12.0	2.600	370	1.600	230	1.450	210	1.300	180	530	75
D16.0	2.000	290	1.200	180	1.080	160	950	140	400	57
D18.0	1.800	260	1.050	160	950	145	850	120	350	50
D20.0	1.600	230	950	140	850	120	760	110	320	45
D25.0	1.300	190	760	110	680	100	600	90	250	38

最大切削量



H=0.25D 以下
H=0.1D 以下，進幾可2倍



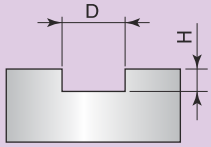
H=0.10D 以下

切削數據表 Recommend Cutting Conditions

切削條件：極細微粒炭化鎢 鋁合金專用立銑刀 WJ-145 / WJ-155

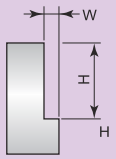
被切削材	純鋁		鋁合金 Cu-Mg 系		鋁合金 Si 系		鋁合金 Mg 系		鋁合金 Mg-Si 系		鋁合金 Zn-Mg 系		鑄造鋁合金	
	1070		2014		4032		5052		6061		7075		Ac85	
立銑刀刃徑 mm	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分
D1.0	32.000	800	27.000	150	2.700	400	13.000	500	21.600	500	27.000	640	16.000	500
D2.0	24.000	1.000	20.000	200	2.000	500	10.000	640	16.000	40	20.000	800	12.000	600
D3.0	19.000	1.000	16.000	200	1.600	500	8.000	640	12.800	640	16.000	800	9.600	600
D4.0	16.000	1.000	13.500	200	1.350	500	6.500	640	10.800	640	13.500	800	8.000	600
D5.0	12.000	1.000	10.000	300	1.000	600	5.000	640	8.000	640	10.000	800	6.000	700
D6.0	9.600	1.200	8.000	300	8.000	600	4.000	780	6.400	780	8.000	960	4.800	700
D8.0	8.000	1.200	6.600	250	6.600	700	3.300	780	5.300	780	6.600	960	4.000	700
D10.0	6.000	1.000	5.000	150	5.000	500	2.700	640	4.000	640	5.000	800	3.000	800
D12.0	4.800	1.000	4.000	150	4.000	500	2.000	640	3.200	640	4.000	800	2.400	600

最大切削量



被切削材	純鋁		鋁合金 Cu-Mg 系		鋁合金 Si 系		鋁合金 Mg 系		鋁合金 Mg-Si 系		鋁合金 Zn-Mg 系		鑄造鋁合金	
	1070		2014		4032		5052		6061		7075		Ac85	
立銑刀刃徑 mm	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分
D1.0	32.000	1.900	27.000	1.600	2.700	150	13.000	800	21.600	880	27.000	1.080	16.000	1.000
D2.0	24.000	1.900	20.000	1.600	2.000	200	10.000	800	16.000	880	20.000	1.080	12.000	1.000
D3.0	19.000	1.900	16.000	1.600	1.600	200	8.000	800	12.800	880	16.000	1.080	9.600	1.000
D4.0	16.000	1.900	13.500	1.600	1.350	200	6.500	800	10.800	880	13.500	1.080	8.000	1.000
D5.0	12.000	1.900	10.000	1.600	1.000	300	5.000	800	8.000	880	10.000	1.080	6.000	1.000
D6.0	9.600	1.900	8.000	1.600	8.000	300	4.000	800	6.400	880	8.000	1.080	4.800	1.000
D8.0	8.000	1.900	6.600	1.600	6.600	250	3.300	800	5.300	880	6.600	1.080	4.000	1.000
D10.0	6.000	1.900	5.000	1.600	5.000	150	2.700	800	4.000	880	5.000	1.080	3.000	1.000
D12.0	4.800	1.900	4.000	1.600	4.000	150	2.000	800	3.200	880	4.000	1.080	2.400	1.000

最大切削量



H = 1.5D
W = 0.1D

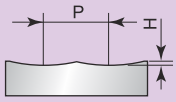
WEY JUAN TECHNOLOGY

切削數據表 Recommend Cutting Conditions

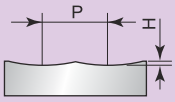
切削條件：極細微粒炭化鎢 2刃球型立銑刀 WJ-MR / WJ-LR(一般M/C使用)

被切削材	鐵材、碳素鋼、鑄鐵、合金鋼、工具鋼				合金鋼、工具鋼、不鏽鋼、熱處理鋼				熱處理鋼			
	SS41,S45C,FC,FCD,SCr,SCM,SNC,SNCM,SK,SKS,SKT,SKD,PDS1,PDS3,S50C,YK30				SCr,SCM,SNC,SNCM,SKT,SKD,P20,P20S,NAK55,NAK80,FDAC,PDS5,SUS420J2,SUS304,SUS316							
被切削材硬度 立銑R徑 mm	HRC30度以下				HRC30-45度				HRC45-50度			
	等高切削		曲面切削		等高切削		曲面切削		等高切削		曲面切削	
	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分
R0.5	45.000	880	31.000	620	35.700	570	25.000	400	19.000	210	13.300	150
R1.0	22.000	880	15.500	620	17.800	570	12.500	400	9.500	210	6.600	150
R1.5	15.000	900	10.600	630	12.100	570	8.500	400	6.400	210	4.500	150
R2.0	11.400	900	8.000	630	9.100	640	6.400	450	4.800	270	3.400	190
R2.5	9.100	900	6.400	630	7.100	640	5.000	450	3.800	290	2.700	200
R3.0	7.600	900	5.300	670	6.000	670	4.200	470	3.200	300	2.200	210
R4.0	5.700	1.140	4.000	800	4.600	790	3.200	550	2.300	320	1.600	220
R5.0	4.600	1.070	3.200	750	3.600	740	2.500	520	1.900	330	1.300	230
R6.0	3.900	1.000	2.700	700	3.000	700	2.100	490	1.600	310	1.100	220
R8.0	2.900	930	2.000	650	2.300	670	1.600	470	1.100	270	770	190
R10.0	2.300	810	1.600	570	1.900	640	1.300	450	950	250	660	180
R12.5	1.900	670	1.300	470	1.400	510	1.000	360	760	210	530	150

最大切削量



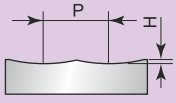
H =0.06R以下 粗銑切削時 *H=0.2R*以下，*P=0.5R*以下
P =0.10R以下 轉速60%進行，進給速度以40%進行



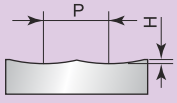
H =0.03R以下
P =0.05R以下

被切削材	鐵材、碳素鋼、鑄鐵、合金鋼、工具鋼				合金鋼、工具鋼、不鏽鋼、熱處理鋼				熱處理鋼			
	SS41,S45C,FC,FCD,SCr,SCM,SNC,SNCM,SK,SKS,SKT,SKD,PDS1,PDS3,S50C,YK30				SCr,SCM,SNC,SNCM,SKT,SKD,P20,P20S,NAK55,NAK80,FDAC,PDS5,SUS420J2,SUS304,SUS316							
被切削材硬度 立銑R徑 mm	HRC30度以下				HRC30-45度				HRC45-50度			
	等高切削		曲面切削		等高切削		曲面切削		等高切削		曲面切削	
	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分	轉速 轉/分	進給 mm/分
R0.5	50.000	2.200	35.000	1.500	50.000	2.000	35.000	1.400	32.000	1.100	22.400	800
R1.0	25.000	2.200	17.500	1.500	24.500	2.000	17.000	1.400	17.000	1.200	11.900	800
R1.5	16.500	2.200	11.600	1.500	16.000	2.000	11.200	1.400	11.500	1.200	8.000	800
R2.0	15.500	2.700	10.800	1.900	15.000	2.200	10.500	1.500	11.000	1.500	7.700	1.040
R2.5	15.000	3.200	10.500	2.200	14.000	2.300	9.800	1.600	10.000	1.680	7.000	1.170
R3.0	13.500	3.400	9.500	2.400	11.500	2.200	8.000	1.500	9.500	1.800	6.600	1.280
R4.0	10.000	2.500	7.000	1.960	9.000	1.700	6.300	1.200	7.100	1.360	5.000	960
R5.0	8.200	2.100	5.700	1.400	7.200	1.360	5.000	960	5.700	1.080	4.000	760
R6.0	6.800	1.700	4.700	1.200	6.000	1.100	4.200	800	4.800	880	3.300	610
R8.0	5.100	1.300	3.600	880	4.500	840	3.200	600	3.600	780	2.500	540
R10.0	4.100	1.000	2.900	720	3.600	680	2.500	480	2.900	540	2.000	380
R12.5	3.300	850	2.300	600	2.900	540	2.000	380	2.200	360	1.500	250

最大切削量

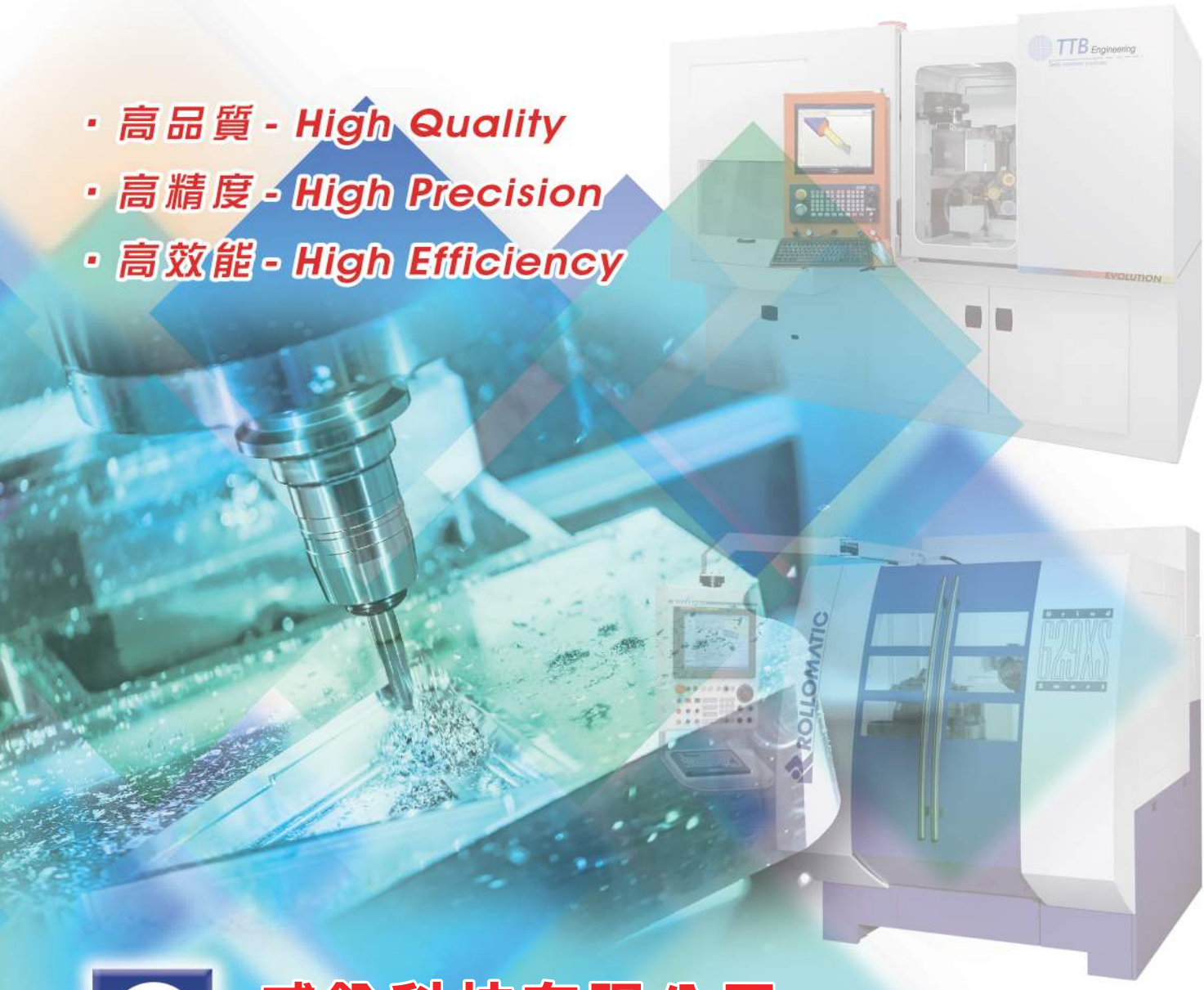


H =0.03R以下
P =0.05R以下



H =0.015R以下
P =0.025R以下

- 高品質 - High Quality
- 高精度 - High Precision
- 高效能 - High Efficiency



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