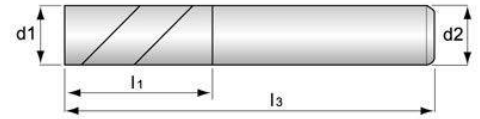




極細微粒碳化鎢 2刃立銑刀
Micro Grain Carbide, 2-flute, End Mills



High Speed Cutting
& High Hard Cutting

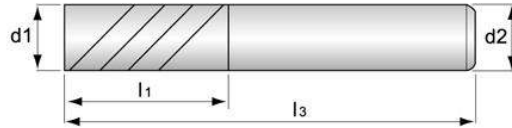
Micro Diameter

Type No. 型號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
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	13.0	33	100	16
352AL140	14.0	35	100	16
352AL150	15.0	38	100	16
352AL160	16.0	40	100	16
352AL170	17.0	40	100	18
352AL180	18.0	40	100	18
352AL190	19.0	45	100	20
352AL200	20.0	45	100	20
352AL250	25.0	45	100	25

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

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



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	11	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	22	75	10
354AL095	9.5	24	75	10
354AL100	10.0	25	75	10
354AL105	10.5	25	75	12
354AL110	11.0	27	75	12
354AL120	12.0	30	75	12
354AL140	14.0	35	80	14
354AL140-16	14.0	35	100	16
354AL150	15.0	40	100	16
354AL160	16.0	40	100	16
354AL180	18.0	40	100	18
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

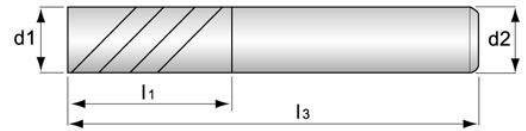
Shank (mm) (h6)	d2 (mm) tolerance
Ø 6	0 -0.008
Ø 8	0 -0.008
Ø 10	0 -0.009
Ø 12	0 -0.011
Ø 14	0 -0.011
Ø 16	0 -0.011
Ø 18	0 -0.013
Ø 20	0 -0.013
Ø 25	0 -0.013



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)



High Speed Cutting
& High Hard Cutting

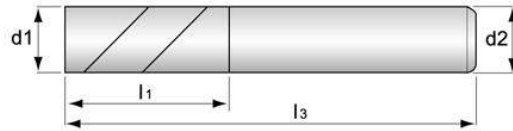


Micro Diameter

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
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	80	14
454AL160	16.0	45	100	16
454AL180	18.0	45	100	18
454AL200	20.0	45	100	20
454AL250	25.0	45	100	25

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



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
35SL2AL060	6.0	25	150	6
35SL2AL080	8.0	35	150	8
35SL2AL100	10.0	40	150	10
35SL2AL120	12.0	45	150	12
35SL2AL160	16.0	65	150	16
35SL2AL200	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

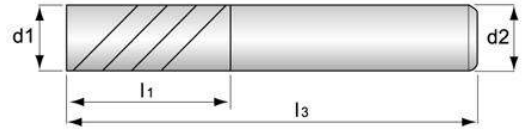
Shank(mm) (h6)	d2(mm) tolerance
Ø 4	0 -0.008
Ø 6	0 -0.008
Ø 8	0 -0.008
Ø 10	0 -0.009
Ø 12	0 -0.011
Ø 16	0 -0.011
Ø 20	0 -0.013



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)



High Speed Cutting
& High Hard Cutting



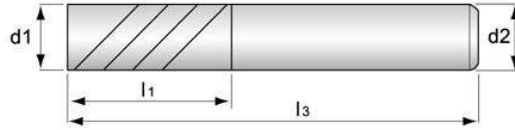
Micro Diameter

Type No. 型號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
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
35SL4AL060	6.0	25	150	6
35SL4AL080	8.0	35	150	8
35SL4AL100	10.0	40	150	10
35SL4AL120	12.0	45	150	12
35SL4AL160	16.0	65	150	16
35SL4AL200	20.0	75	150	20

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

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

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)



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
45SL4AL060	6.0	25	150	6
45SL4AL080	8.0	35	150	8
45SL4AL100	10.0	40	150	10
45SL4AL120	12.0	45	150	12
45SL4AL160	16.0	65	150	16
45SL4AL200	20.0	75	150	20



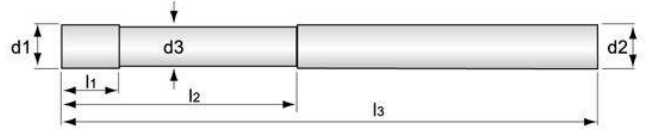
High Speed Cutting
& High Hard Cutting

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



重切削 圓勾 4刃立銑刀
Heavy Cutting, 4-flute, End Mills



Micro Diameter

Type No. 型號	Diameter 刃徑 d1	Neck Dia d3	Flute Length 刃長 l1	Effective Length 有效長 l2	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
SEDHAL020	2.0	1.92	3	8	50	4
SEDHAL025	2.5	2.40	3	10	50	4
SEDHAL030	3.0	2.90	4	10	50	4
SEDHAL040	4.0	3.90	6	12	50	4
SEDHAL050	5.0	4.90	7	15	50	6
SEDHAL060	6.0	5.80	8	18	50	6
SEDHAL080	8.0	7.70	10	24	60	8
SEDHAL100	10.0	9.60	12	30	75	10
SEDHAL120	12.0	11.50	15	36	75	12
SEDHAL160	16.0	15.50	24	40	100	16
SEDHAL200	20.0	19.50	30	45	100	20

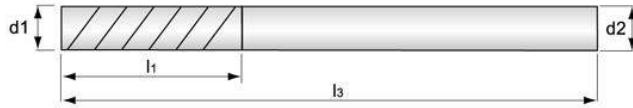
New

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}

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

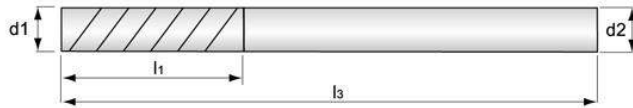


Micro Diameter

Type No. 型號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
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



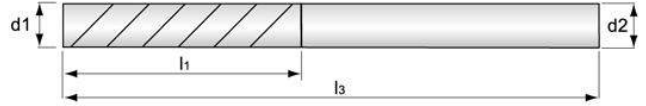
Type No. 型號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
6SED060	6.0	15	50	6
6SED080	8.0	20	60	8
6SED100	10.0	25	75	10
6SED120	12.0	30	75	12
6SED160	16.0	40	100	16
6SED200	20.0	40	100	20

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



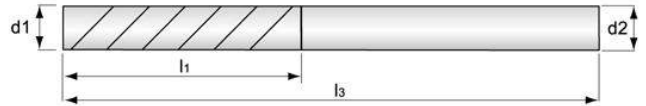
極細微粒碳化鎢 長刃型 6刃立銑刀
Micro Grain Carbide, Long-flute, 6- flute, End Mills



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
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

High Speed Cutting
& High Hard Cutting



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



Micro Diameter

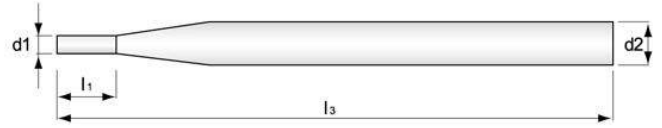
Type No. 型號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
L6SEDO60	6.0	25	75	6
L6SEDO60B	6.0	30	100	6
L6SEDO80B	8.0	35	100	8
L6SED100	10.0	40	100	10
L6SED100B	10.0	40	150	10
L6SED120	12.0	45	100	12
L6SED120B	12.0	45	150	12
L6SED160B	16.0	60	150	16
L6SED200B	20.0	80	150	20

d1 (mm)	d1(mm) tolerance
6.0	$\begin{matrix} 0 \\ -0.025 \end{matrix}$
8.0	$\begin{matrix} 0 \\ -0.03 \end{matrix}$
10.0	$\begin{matrix} 0 \\ -0.035 \end{matrix}$
12.0	$\begin{matrix} 0 \\ -0.04 \end{matrix}$
16.0	$\begin{matrix} 0 \\ -0.04 \end{matrix}$
20.0	$\begin{matrix} 0 \\ -0.013 \end{matrix}$

Shank(mm) (h6)	d2(mm) tolerance
Ø 6	$\begin{matrix} 0 \\ -0.008 \end{matrix}$
Ø 8	$\begin{matrix} 0 \\ -0.008 \end{matrix}$
Ø 10	$\begin{matrix} 0 \\ -0.009 \end{matrix}$
Ø 12	$\begin{matrix} 0 \\ -0.011 \end{matrix}$
Ø 16	$\begin{matrix} 0 \\ -0.011 \end{matrix}$
Ø 20	$\begin{matrix} 0 \\ -0.013 \end{matrix}$



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



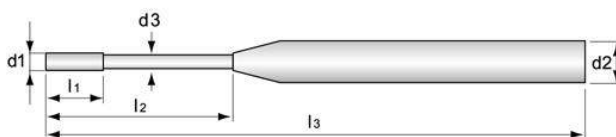
Micro Diameter

Type No. 型號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
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
SED010	1.0	2.5	50	4
SED012	1.2	3.0	50	4
SED015	1.5	4.0	50	4
SED016	1.6	4.0	50	4
SED018	1.8	5.0	50	4
SED020	2.0	6.0	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



Micro Diameter

Type No. 型號	Diameter 刃徑 d1	Neck Dia d3	Flute Length 刃長 l1	Effective Length 有效長 l2	O. A. L. 全長 l3	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



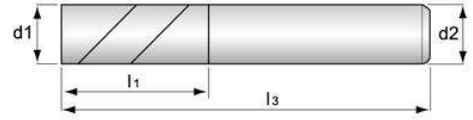
High Speed Cutting
& High Hard Cutting

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



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	40	100	16
SED352170	17.0	40	100	18
SED352180	18.0	40	100	18
SED352190	19.0	45	100	20
SED352200	20.0	45	100	20
SED352250	25.0	45	100	25

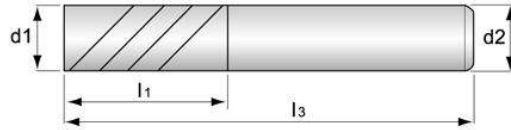
High Speed Cutting
& High Hard Cutting

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

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
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

極細微粒碳化鎢 4刃立銑刀
Micro Grain Carbide, 4-flute, 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
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	80	14
SED354160	16.0	40	100	16
SED354180	18.0	40	100	18
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



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

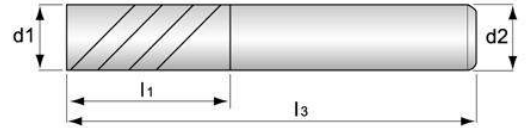
Shank (mm) (h6)	d2 (mm) tolerance
Ø 6	0 -0.008
Ø 8	0 -0.008
Ø 10	0 -0.009
Ø 12	0 -0.011
Ø 14	0 -0.011
Ø 16	0 -0.011
Ø 18	0 -0.013
Ø 20	0 -0.013
Ø 25	0 -0.013



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)



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
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	80	14
SED454160	16.0	40	100	16
SED454180	18.0	40	100	18
SED454200	20.0	45	100	20
SED454250	25.0	45	100	25

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

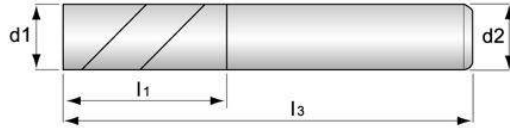
$$N = \frac{VC \times 320}{D} \quad F = N \times Fz \times \text{刃數 (Flute No)}$$

Recommended Working Details 白鐵加工數據表

Material	Vc m/min	Fz - feed per tooth									
		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

極細微粒碳化鎢 長刃型 2刃立銑刀
Micro Grain Carbide, Long-flute, 2-flute, 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
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
SED35SL2-060	6.0	25	150	6
SED35SL2-080	8.0	35	150	8
SED35SL2-100	10.0	40	150	10
SED35SL2-120	12.0	45	150	12
SED35SL2-160	16.0	65	150	16
SED35SL2-200	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

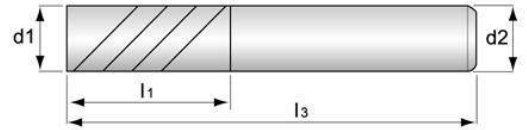
Shank(mm) (h6)	d2(mm) tolerance
Ø 4	0 -0.008
Ø 6	0 -0.008
Ø 8	0 -0.008
Ø 10	0 -0.009
Ø 12	0 -0.011
Ø 16	0 -0.011
Ø 20	0 -0.013



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°)



High Speed Cutting
& High Hard Cutting



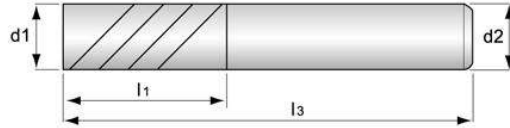
Micro Diameter

Type No. 型號	Diameter 刃徑 d1	Flute Length 刃長 l1	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
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
SED35L4-040FB	4.0	16	100	4
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
SED35SL4-060	6.0	25	150	6
SED35SL4-080	8.0	35	150	8
SED35SL4-100	10.0	40	150	10
SED35SL4-120	12.0	45	150	12
SED35SL4-160	16.0	65	150	16
SED35SL4-200	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}

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)



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
SED45L4-030	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
SED45L4-060B	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
SED45SL4-060	6.0	25	150	6
SED45SL4-080	8.0	35	150	8
SED45SL4-100	10.0	40	150	10
SED45SL4-120	12.0	45	150	12
SED45SL4-160	16.0	65	150	16
SED45SL4-200	20.0	75	150	20



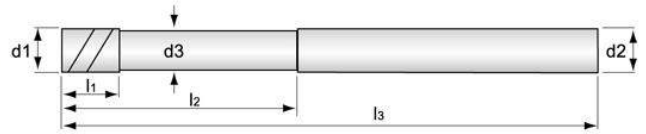
High Speed Cutting
& High Hard Cutting

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



重切削 圓勾 4刃立銑刀
Heavy Cutting, 4-flute, End Mills



Micro Diameter

Type No. 型號	Diameter 刃徑 d1	Neck Dia d3	Flute Length 刃長 l1	Effective Length 有效長 l2	O. A. L. 全長 l3	Shank Dia. 柄徑 d2
SEDH-020	2.0	1.92	3	8	50	4
SEDH-025	2.5	2.40	3	10	50	4
SEDH-030	3.0	2.90	4	10	50	4
SEDH-040	4.0	3.90	6	12	50	4
SEDH-050	5.0	4.90	7	15	50	6
SEDH-060	6.0	5.80	8	18	50	6
SEDH-080	8.0	7.70	10	24	60	8
SEDH-100	10.0	9.60	12	30	75	10
SEDH-120	12.0	11.50	15	36	75	12
SEDH-160	16.0	15.50	24	40	100	16
SEDH-200	20.0	19.50	30	45	100	20

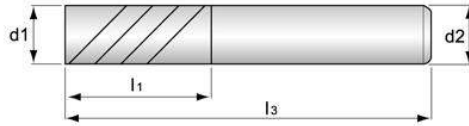
New

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

極細微粒碳化鎢 3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 l ₁	O. A. L. 全長 l ₃	Shank Dia. 柄徑 d2
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
SED453030F	3	6	50	4
SED453040F	4	10	50	4



High Speed Cutting
& High Hard Cutting



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 l ₁	O. A. L. 全長 l ₃	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

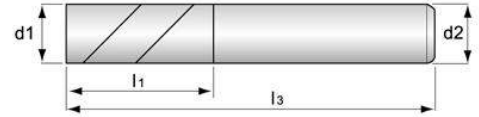
d1 (mm)	d1(mm) tolerance
1.0	-0.005 -0.02
1.5	-0.005 -0.02
2.0	-0.005 -0.02
3.0	0 -0.02
4.0	0 -0.02
5.0	0 -0.02
6.0	0 -0.025
8.0	0 -0.025
10.0	0 -0.03
12.0	0 -0.035
14.0	0 -0.04
16.0	0 -0.04

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

New



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



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
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	40	100	16
SED352170G	17.0	40	100	18
SED352180G	18.0	40	100	18
SED352190G	19.0	45	100	20
SED352200G	20.0	45	100	20
SED352250G	25.0	45	100	25

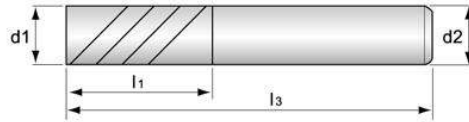
High Speed Cutting
& High Hard Cutting

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

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
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

極細微粒碳化鎢 4刃立銑刀 (高速高硬度專用刀)
Micro Grain Carbide, 4-flute, End Mills (Sword for High-speed and High-hardness)



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	80	14
SED354160G	16.0	40	100	16
SED354180G	18.0	40	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