

Strength with Finesse

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Hummingbird – YDS33

The Hummingbird Series is designed on the basis of processing aluminium. It brings you a smooth chip removal and high performance with optimum surface finish.

ISO code	USA code	Grain Size	Cobalt Percentage	Density	Hardness		
			Co(%)	g/cm ³	HV10	HV30	HRA
K20-K40	C-2	0.6µm	10.0	14.45	1680	1660	92.3

錫鋼鋁用立銑刀 3刃

YDS33ED3A

YDS33ED3B



3 Flutes End Mill for Soft Metal - 45° (A)
3 Flutes End Mill for Soft Metal - 55° (B)

Type no.	Type no.	Diameter	Flute Length	Overall Length	Shank Dia
45 Degrees	55 Degrees	D	H	L	D2
ED3A04050-1.0	ED3B04050-1.0	1	3	50	4
ED3A06050-1.0	ED3B06050-1.0	1	3	50	6
ED3A04050-2.0	ED3B04050-2.0	2	5	50	4
ED3A06050-2.0	ED3B06050-2.0	2	5	50	6
ED3A03050-3.0	ED3B03050-3.0	3	9	50	3
ED3A04050-3.0	ED3B04050-3.0	3	9	50	4
ED3A06050-3.0	ED3B06050-3.0	3	9	50	6
ED3A04050-4.0	ED3B04050-4.0	4	11	50	4
ED3A06050-4.0	ED3B06050-4.0	4	11	50	6
ED3A05050-5.0	ED3B05050-5.0	5	13	50	5
ED3A06050-5.0	ED3B06050-5.0	5	13	50	6
ED3A06050-6.0	ED3B06050-6.0	6	16	50	6
ED3A08060-8.0	ED3B08060-8.0	8	20	60	8
ED3A10075-10.0	ED3B10075-10.0	10	25	75	10
ED3A12075-12.0	ED3B12075-12.0	12	30	75	12
ED3A16100-16.0	ED3B16100-16.0	16	40	100	16
ED3A20100-20.0	ED3B20100-20.0	20	45	100	20
ED3A25100-25.0	ED3B25100-25.0	25	45	100	25

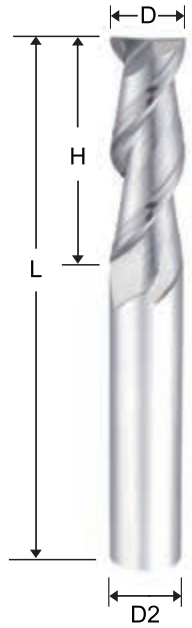
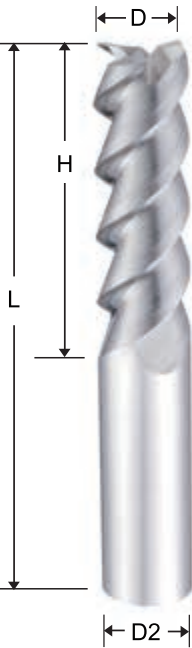
錫鋼鋁用立銑刀 2刃

YDS33ED2A



2 Flutes End Mill for Soft Metal - 45°

Type no.	Diameter	Flute Length	Overall Length	Shank Dia
45 Degrees	D	H	L	D2
ED2A04050-1.0	1	3	50	4
ED2A06050-1.0	1	3	50	6
ED2A04050-2.0	2	5	50	4
ED2A06050-2.0	2	5	50	6
ED2A03050-3.0	3	9	50	3
ED2A04050-3.0	3	9	50	4
ED2A06050-3.0	3	9	50	6
ED2A04050-4.0	4	11	50	4
ED2A06050-4.0	4	11	50	6
ED2A05050-5.0	5	13	50	5
ED2A06050-5.0	5	13	50	6
ED2A06050-6.0	6	16	50	6
ED2A08060-8.0	8	20	60	8
ED2A10075-10.0	10	25	75	10
ED2A12075-12.0	12	30	75	12
ED2A16100-16.0	16	40	100	16
ED2A20100-20.0	20	45	100	20
ED2A25100-25.0	25	45	100	25



錫鋼長刃鋁用立銑刀 3刃

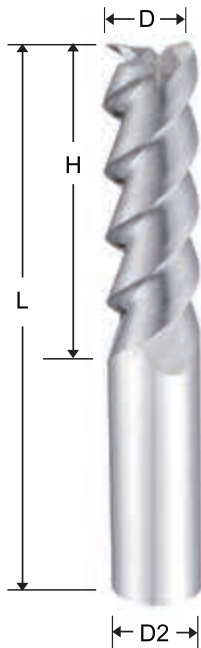
YDS33EDF3A

YDS33EDF3B



Long Flute, 3 Flutes End Mill for Soft Metal - 45° (A)
Long Flute, 3 Flutes End Mill for Soft Metal - 55° (B)

Type no.	Type no.	Diameter	Flute Length	Overall Length	Shank Dia
45 Degrees	55 Degrees	D	H	L	D2
EDF3A04075-3.0	EDF3B04075-3.0	3	12	75	4
EDF3A06075-3.0	EDF3B06075-3.0	3	12	75	6
EDF3A04075-4.0	EDF3B04075-4.0	4	15	75	4
EDF3A06075-4.0	EDF3B06075-4.0	4	15	75	6
EDF3A05075-5.0	EDF3B05075-5.0	5	20	75	5
EDF3A06075-5.0	EDF3B06075-5.0	5	20	75	6
EDF3A06075-6.0	EDF3B06075-6.0	6	25	75	6
EDF3A08100-8.0	EDF3B08100-8.0	8	40	100	8
EDF3A10100-10.0	EDF3B10100-10.0	10	45	100	10
EDF3A12100-12.0	EDF3B12100-12.0	12	50	100	12
EDF3A16150-16.0	EDF3B16150-16.0	16	75	150	16
EDF3A20150-20.0	EDF3B20150-20.0	20	80	150	20



錫鋼長柄鋁用立銑刀 3刃

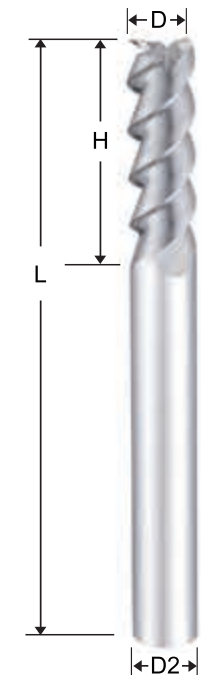
YDS33EDL3A

YDS33EDL3B



Long Shank, 3 Flutes End Mill for Soft Metal - 45° (A)
Long Shank, 3 Flutes End Mill for Soft Metal - 55° (B)

Type no.	Type no.	Diameter	Flute Length	Overall Length	Shank Dia
45 Degrees	55 Degrees	D	H	L	D2
EDL3A04075-3.0	EDL3B04075-3.0	3	9	75	4
EDL3A06075-3.0	EDL3B06075-3.0	3	9	75	6
EDL3A04075-4.0	EDL3B04075-4.0	4	11	75	4
EDL3A06075-4.0	EDL3B06075-4.0	4	11	75	6
EDL3A05075-5.0	EDL3B05075-5.0	5	13	75	5
EDL3A06075-5.0	EDL3B06075-5.0	5	13	75	6
EDL3A06075-6.0	EDL3B06075-6.0	6	16	75	6
EDL3A06100-6.0	EDL3B06100-6.0	6	16	100	6
EDL3A08100-8.0	EDL3B08100-8.0	8	20	100	8
EDL3A10100-10.0	EDL3B10100-10.0	10	25	100	10
EDL3A12100-12.0	EDL3B12100-12.0	12	30	100	12
EDL3A16150-16.0	EDL3B16150-16.0	16	40	150	16
EDL3A20150-20.0	EDL3B20150-20.0	20	45	150	20

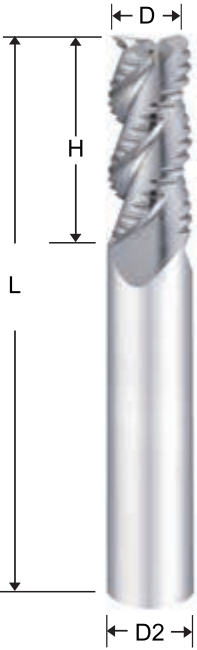


鎢鋼鋁用粗銑刀 3刃
YDS33HED3A



3 Flutes Roughing End Mill for Soft Metal

Type no.	Diameter	Flute Length	Overall Length	Shank Dia
	D	H	L	D2
HED3A06050-6.0	6	16	50	6
HED3A08060-8.0	8	20	60	8
HED3A10075-10.0	10	25	75	10
HED3A12075-12.0	12	30	75	12
HED3A16100-16.0	16	40	100	16
HED3A20100-20.0	20	45	100	20
HED3A25100-25.0	25	45	100	25

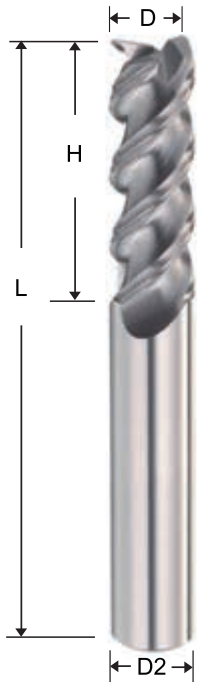


鎢鋼鋁用圓溝銑刀 3刃
YDS33EDP3A



3 Flutes Heavy Cutting for Soft Metal

Type no.	Diameter	Flute Length	Overall Length	Shank Dia
	D	H	L	D2
EDP3A06050-4.0	4	11	50	6
EDP3A06050-5.0	5	13	50	6
EDP3A06050-6.0	6	16	50	6
EDP3A08060-8.0	8	20	60	8
EDP3A10075-10.0	10	25	75	10
EDP3A12075-12.0	12	30	75	12
EDP3A16100-16.0	16	40	100	16
EDP3A20100-20.0	20	45	100	20
EDP3A25100-25.0	25	45	100	25



鎢鋼定位鑽 2刃
YDS33SD2A
YDS33SD2B



NC Spot Drill - 90° (A)
NC Spot Drill - 120° (B)

Type no.	Type no.	Diameter	Flute Length	Overall Length	Shank Dia
90°	120°	D	H	L	D2
SD2A03050-3.0	SD2B03050-3.0	3	6	50	3
SD2A04050-4.0	SD2B04050-4.0	4	8	50	4
SD2A04075-4.0	SD2B04075-4.0	4	8	75	4
SD2A06050-6.0	SD2B06050-6.0	6	12	50	6
SD2A06075-6.0	SD2B06075-6.0	6	12	75	6
SD2A08060-8.0	SD2B08060-8.0	8	16	60	8
SD2A08100-8.0	SD2B08100-8.0	8	16	100	8
SD2A10075-10.0	SD2B10075-10.0	10	20	75	10
SD2A10100-10.0	SD2B10100-10.0	10	20	100	10
SD2A10150-10.0	SD2B10150-10.0	10	20	150	10
SD2A12075-12.0	SD2B12075-12.0	12	24	75	12
SD2A12100-12.0	SD2B12100-12.0	12	24	100	12
SD2A12150-12.0	SD2B12150-12.0	12	24	150	12
SD2A16100-16.0	SD2B16100-16.0	16	32	100	16
SD2A16150-16.0	SD2B16150-16.0	16	32	150	16
SD2A20100-20.0	SD2B20100-20.0	20	40	100	20
SD2A20150-20.0	SD2B20150-20.0	20	40	150	20

