



YIDA PRECISION TOOLS

www.ydendmill.com



Outstanding Performance

Micro Grain Carbide End Mill

Leopard Series

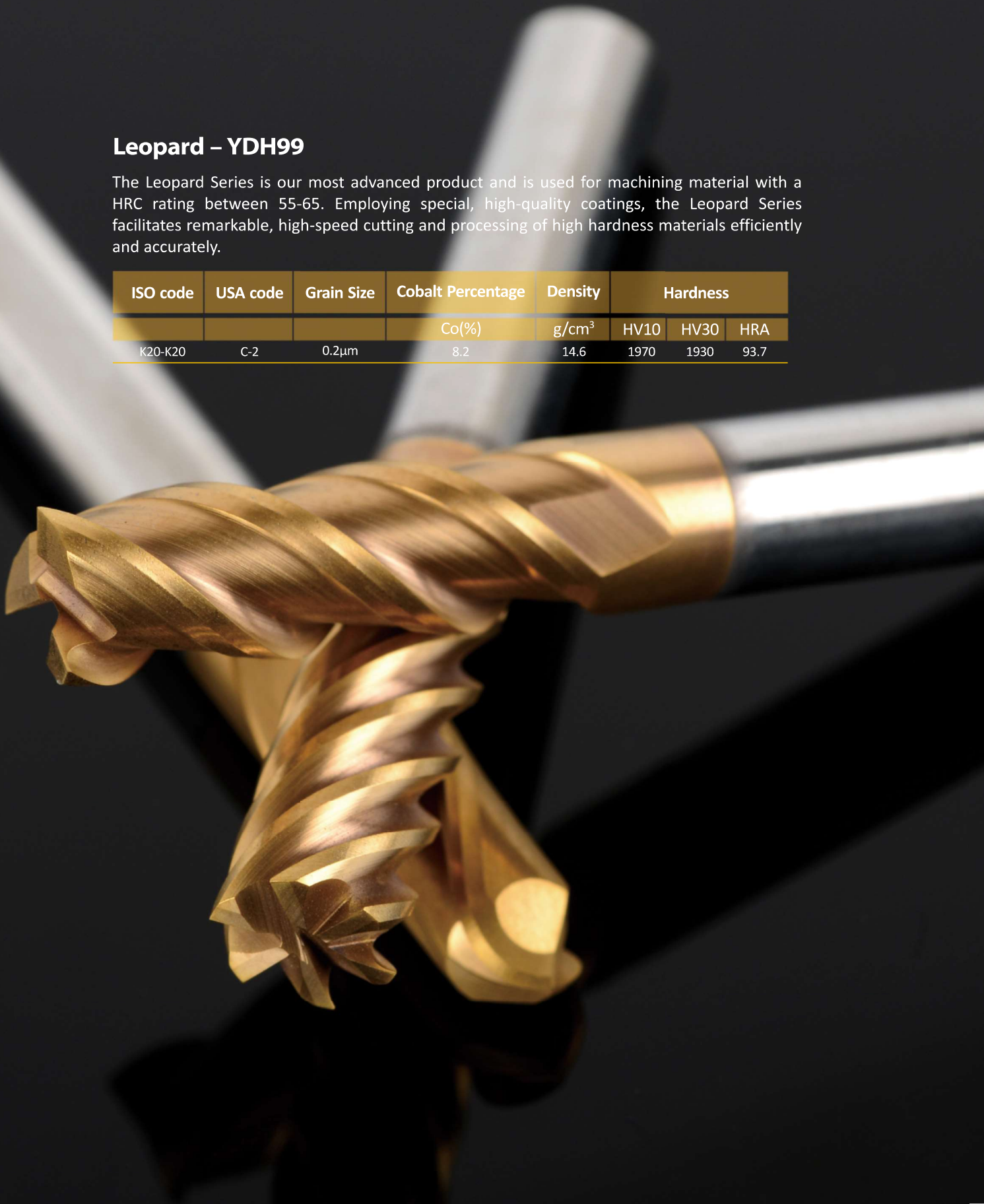
Nano Carbide End Mill

Yida Precision Tools

Leopard – YDH99

The Leopard Series is our most advanced product and is used for machining material with a HRC rating between 55-65. Employing special, high-quality coatings, the Leopard Series facilitates remarkable, high-speed cutting and processing of high hardness materials efficiently and accurately.

ISO code	USA code	Grain Size	Cobalt Percentage	Density	Hardness		
			Co(%)	g/cm ³	HV10	HV30	HRA
K20-K20	C-2	0.2μm	8.2	14.6	1970	1930	93.7



Leopard Series

Nano Carbide End Mill

Yida Precision Tools



鎢鋼立銑刀 4刃/2刃

YDH99E4A

YDH99E2A



4 Flutes Square End Mill
2 Flutes Square End Mill

Type no.	Type no.	Diameter	Flute Length	Overall Length	Shank Dia
4 Flutes	2 Flutes	D	H	L	D2
E4A04050-1.0	E2A04050-1.0	1	3	50	4
E4A04050-1.5	E2A04050-1.5	1.5	4	50	4
E4A04050-2.0	E2A04050-2.0	2	5	50	4
E4A04050-2.5	E2A04050-2.5	2.5	7	50	4
E4A03050-3.0	E2A03050-3.0	3	9	50	3
E4A04050-3.0	E2A04050-3.0	3	9	50	4
E4A06050-3.0	E2A06050-3.0	3	9	50	6
E4A04050-4.0	E2A04050-4.0	4	11	50	4
E4A06050-4.0	E2A06050-4.0	4	11	50	6
E4A05050-5.0	E2A05050-5.0	5	13	50	5
E4A06050-5.0	E2A06050-5.0	5	13	50	6
E4A06050-6.0	E2A06050-6.0	6	16	50	6
E4A08060-7.0	E2A08060-7.0	7	18	60	8
E4A08060-8.0	E2A08060-8.0	8	20	60	8
E4A10075-9.0	E2A10075-9.0	9	23	75	10
E4A10075-10.0	E2A10075-10.0	10	25	75	10
E4A12075-12.0	E2A12075-12.0	12	30	75	12
E4A16100-13.0	E2A16100-13.0	13	35	100	16
E4A16100-14.0	E2A16100-14.0	14	35	100	16
E4A16100-15.0	E2A16100-15.0	15	38	100	16
E4A16100-16.0	E2A16100-16.0	16	40	100	16
E4A20100-18.0	E2A20100-18.0	18	40	100	20
E4A20100-20.0	E2A20100-20.0	20	45	100	20



Right Angle
Slotted



Full Slot

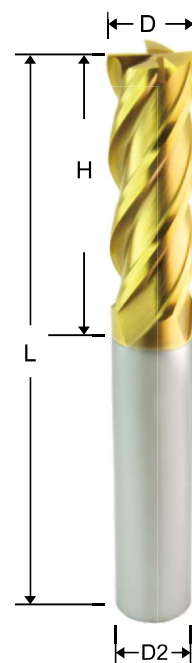


Side Milling

H S



● Recommend
● Suitable



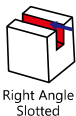
鎢鋼立銑刀 3刃

YDH99E3A



3 Flutes Square End Mill

Type no.	Diameter	Flute Length	Overall Length	Shank Dia
3 Flutes	D	H	L	D2
E3A04050-3.0	3	9	50	4
E3A04050-4.0	4	11	50	4
E3A06050-5.0	5	13	50	6
E3A06050-6.0	6	16	50	6
E3A08060-8.0	8	20	60	8
E3A10075-10.0	10	25	75	10
E3A12075-12.0	12	30	75	12
E3A16100-16.0	16	40	100	16
E3A20100-20.0	20	45	100	20



Right Angle Slotted



Full Slot

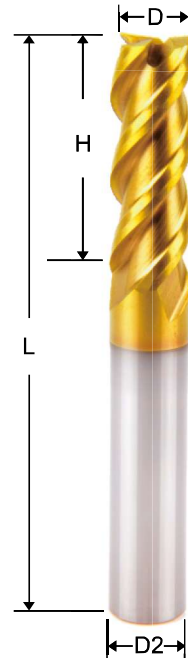


Side Milling

H S



● Recommend
● Suitable



鎢鋼立銑刀 6刃

YDH99E6A



6 Flutes Square End Mill

Type no.	Diameter	Flute Length	Overall Length	Shank Dia
6 Flutes	D	H	L	D2
E6A06050-6.0	6	16	50	6
E6A08060-8.0	8	20	60	8
E6A10075-10.0	10	25	75	10
E6A12075-12.0	12	30	75	12
E6A16100-16.0	16	40	100	16
E6A20100-20.0	20	45	100	20

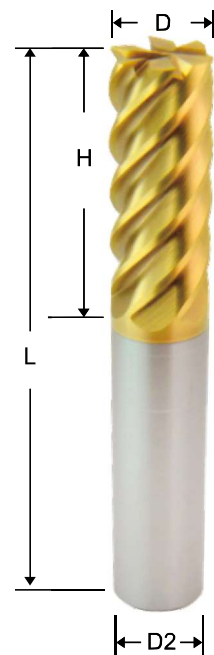


Side Milling

H S



● Recommend
● Suitable



Leopard Series

Nano Carbide End Mill

Yida Precision Tools

鎢鋼長柄立銑刀 4刃/2刃

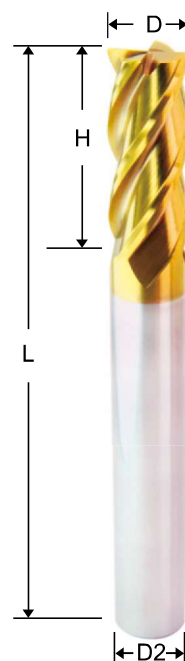
YDH99EL4A

YDH99EL2A



Long Shank, 4 Flutes Square End Mill
Long Shank, 2 Flutes Square End Mill

Type no.	Type no.	Diameter	Flute Length	Overall Length	Shank Dia
4 Flutes	2 Flutes	D	H	L	D2
EL4A04075-3.0	EL2A03075-3.0	3	9	75	3
EL4A04075-3.0	EL2A04075-3.0	3	9	75	4
EL4A06075-3.0	EL2A06075-3.0	3	9	75	6
EL4A04075-4.0	EL2A04075-4.0	4	11	75	4
EL4A04100-4.0	EL2A04100-4.0	4	11	100	4
EL4A06075-4.0	EL2A06075-4.0	4	11	75	6
EL4A06100-4.0	EL2A06100-4.0	4	11	100	6
EL4A05075-5.0	EL2A05075-5.0	5	13	75	5
EL4A05100-5.0	EL2A05100-5.0	5	13	100	5
EL4A06075-5.0	EL2A06075-5.0	5	13	75	6
EL4A06100-5.0	EL2A06100-5.0	5	13	100	6
EL4A06075-6.0	EL2A06075-6.0	6	16	75	6
EL4A06100-6.0	EL2A06100-6.0	6	16	100	6
EL4A08075-8.0	EL2A08075-8.0	8	20	75	8
EL4A08100-8.0	EL2A08100-8.0	8	20	100	8
EL4A10100-10.0	EL2A10100-10.0	10	25	100	10
EL4A10150-10.0	EL2A10150-10.0	10	25	150	10
EL4A12100-12.0	EL2A12100-12.0	12	30	100	12
EL4A12150-12.0	EL2A12150-12.0	12	30	150	12
EL4A16150-16.0	EL2A16150-16.0	16	40	150	16
EL4A20150-20.0	EL2A20150-20.0	20	45	150	20



鎢鋼長刃立銑刀 4刃/2刃

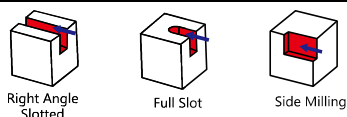
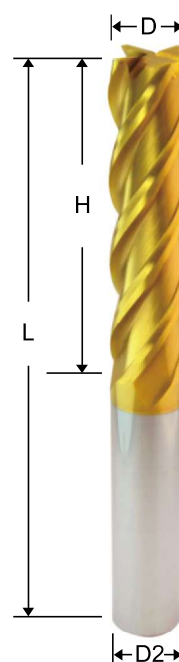
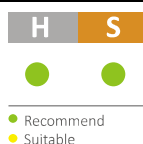
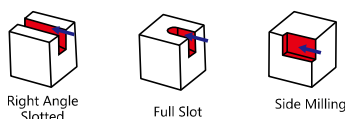
YDH99EF4A

YDH99EF2A



Long Flute, 4 Flutes Square End Mill
Long Flute, 2 Flutes Square End Mill

Type no.	Type no.	Diameter	Flute Length	Overall Length	Shank Dia
4 Flutes	2 Flutes	D	H	L	D2
EF4A04075-3.0	EF2A04075-3.0	3	12	75	4
EF4A04075-4.0	EF2A04075-4.0	4	15	75	4
EF4A05075-5.0	EF2A05075-5.0	5	20	75	5
EF4A06075-5.0	EF2A06075-5.0	5	20	75	6
EF4A06075-6.0	EF2A06075-6.0	6	25	75	6
EF4A06100-6.0	EF2A06100-6.0	6	30	100	6
EF4A08100-8.0	EF2A08100-8.0	8	40	100	8
EF4A10100-10.0	EF2A10100-10.0	10	45	100	10
EF4A12100-12.0	EF2A12100-12.0	12	50	100	12
EF4A16150-16.0	EF2A16150-16.0	16	75	150	16
EF4A20150-20.0	EF2A20150-20.0	20	80	150	20



44

Yida Precision Tools

Extraordinary Speed

www.ydendmill.com

YDH99

High hardness and High Speed



錫鋼長頸立銑刀 4刃/2刃

YDH99EN4A

YDH99EN2A



Long Neck, 4 Flutes Square End Mill
Long Neck, 2 Flutes Square End Mill



Type no.	Type no.	Diameter	Flute Length	Effective Length	Overall Length	Shank Dia
4 Flutes	2 Flutes	D	H	H1	L	D2
EN4A0405006-1.0	EN2A0405006-1.0	1	1	6	50	4
EN4A0405008-1.0	EN2A0405008-1.0	1	1	8	50	4
EN4A0405010-1.0	EN2A0405010-1.0	1	1	10	50	4
EN4A0405012-1.0	EN2A0405012-1.0	1	1	12	50	4
EN4A0405008-1.5	EN2A0405008-1.5	1.5	1.5	8	50	4
EN4A0405010-1.5	EN2A0405010-1.5	1.5	1.5	10	50	4
EN4A0405012-1.5	EN2A0405012-1.5	1.5	1.5	12	50	4
EN4A0405016-1.5	EN2A0405016-1.5	1.5	1.5	16	50	4
EN4A0405008-2.0	EN2A0405008-2.0	2	2	8	50	4
EN4A0405010-2.0	EN2A0405010-2.0	2	2	10	50	4
EN4A0405012-2.0	EN2A0405012-2.0	2	2	12	50	4
EN4A0405016-2.0	EN2A0405016-2.0	2	2	16	50	4
EN4A0405020-2.0	EN2A0405020-2.0	2	2	20	50	4
EN4A0405010-2.5	EN2A0405010-2.5	2.5	2.5	10	50	4
EN4A0405012-2.5	EN2A0405012-2.5	2.5	2.5	12	50	4
EN4A0405016-2.5	EN2A0405016-2.5	2.5	2.5	16	50	4
EN4A0405020-2.5	EN2A0405020-2.5	2.5	2.5	20	50	4
EN4A0605012-3.0	EN2A0605012-3.0	3	3	12	50	6
EN4A0605016-3.0	EN2A0605016-3.0	3	3	16	50	6
EN4A0607520-3.0	EN2A0607520-3.0	3	3	20	75	6
EN4A0607525-3.0	EN2A0607525-3.0	3	3	25	75	6



Right Angle
Slotted



Full Slot

H

S



● Recommend
● Suitable



45

Yida Precision Tools

Leopard Series

Nano Carbide End Mill

Yida Precision Tools



鎢鋼球刀 4刃/2刃

YDH99B4A

YDH99B2A



4 Flutes Ball Nose End Mill
2 Flutes Ball Nose End Mill

Type no.	Type no.	Diameter	Flute Length	Overall Length	Shank Dia
4 Flutes	2 Flutes	D	H	L	D2
B4A04050-R0.50	B2A04050-R0.50	R0.50	2	50	4
B4A04050-R0.75	B2A04050-R0.75	R0.75	3	50	4
B4A04050-R1.00	B2A04050-R1.00	R1.00	4	50	4
B4A04050-R1.25	B2A04050-R1.25	R1.25	5	50	4
B4A03050-R1.50	B2A03050-R1.50	R1.50	6	50	3
B4A04050-R1.50	B2A04050-R1.50	R1.50	6	50	4
B4A04050-R2.00	B2A04050-R2.00	R2.00	8	50	4
B4A05050-R2.50	B2A05050-R2.50	R2.50	10	50	5
B4A06050-R2.50	B2A06050-R2.50	R2.50	10	50	6
B4A06050-R3.00	B2A06050-R3.00	R3.00	12	50	6
B4A08060-R3.50	B2A08060-R3.50	R3.50	14	60	8
B4A08060-R4.00	B2A08060-R4.00	R4.00	16	60	8
B4A10075-R4.50	B2A10075-R4.50	R4.50	18	75	10
B4A10075-R5.00	B2A10075-R5.00	R5.00	20	75	10
B4A12075-R6.00	B2A12075-R6.00	R6.00	24	75	12
B4A16100-R8.00	B2A16100-R8.00	R8.00	32	100	16
B4A20100-R10.0	B2A20100-R10.0	R10.0	40	100	20



Surface Milling

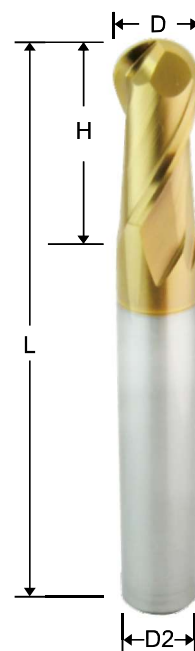


R Slot

H S



● Recommend
● Suitable



46

Yida Precision Tools

Extraordinary Speed

www.ydendmill.com

YDH99
High hardness and High Speed

鎢鋼長柄球刀 4刃/2刃

YDH99BL4A

YDH99BL2A



Long Shank, 4 Flutes Ball Nose End Mill
Long Shank, 2 Flutes Ball Nose End Mill

Type no.	Type no.	Diameter	Flute Length	Overall Length	Shank Dia
4 Flutes	2 Flutes	D	H	L	D2
BL4A04075-R0.50	BL2A04075-R0.50	R0.50	2	75	4
BL4A04075-R0.75	BL2A04075-R0.75	R0.75	3	75	4
BL4A04075-R1.00	BL2A04075-R1.00	R1.00	4	75	4
BL4A06075-R1.00	BL2A06075-R1.00	R1.00	4	75	6
BL4A03075-R1.50	BL2A03075-R1.50	R1.50	6	75	3
BL4A04075-R1.50	BL2A04075-R1.50	R1.50	6	75	4
BL4A06075-R1.50	BL2A06075-R1.50	R1.50	6	75	6
BL4A04075-R2.00	BL2A04075-R2.00	R2.00	8	75	4
BL4A04100-R2.00	BL2A04100-R2.00	R2.00	8	100	4
BL4A06075-R2.00	BL2A06075-R2.00	R2.00	8	75	6
BL4A06100-R2.00	BL2A06100-R2.00	R2.00	8	100	6
BL4A05075-R2.50	BL2A05075-R2.50	R2.50	10	75	5
BL4A05100-R2.50	BL2A05100-R2.50	R2.50	10	100	5
BL4A06075-R2.50	BL2A06075-R2.50	R2.50	10	75	6
BL4A06100-R2.50	BL2A06100-R2.50	R2.50	10	100	6
BL4A06075-R3.00	BL2A06075-R3.00	R3.00	12	75	6
BL4A06100-R3.00	BL2A06100-R3.00	R3.00	12	100	6
BL4A08075-R4.00	BL2A08075-R4.00	R4.00	16	75	8
BL4A08100-R4.00	BL2A08100-R4.00	R4.00	16	100	8
BL4A10100-R5.00	BL2A10100-R5.00	R5.00	20	100	10
BL4A10150-R5.00	BL2A10150-R5.00	R5.00	20	150	10
BL4A12100-R6.00	BL2A12100-R6.00	R6.00	24	100	12
BL4A12150-R6.00	BL2A12150-R6.00	R6.00	24	150	12
BL4A16150-R8.00	BL2A16150-R8.00	R8.00	32	150	16



Surface Milling

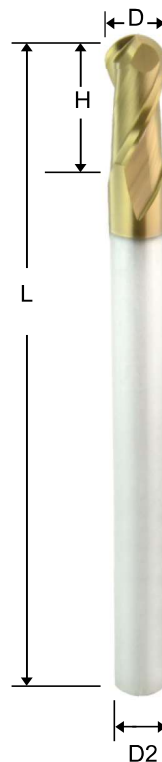


R Slot

H **S**



● Recommend
● Suitable



Leopard Series

Nano Carbide End Mill

Yida Precision Tools

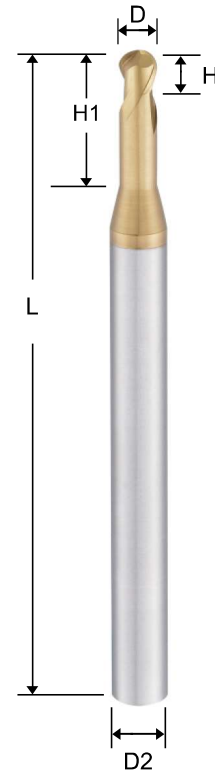
錫鋼長頸球刀 4刃/2刃

YDH99BN4A

YDH99BN2A



Long Neck, 4 Flutes Ball Nose End Mill
Long Neck, 2 Flutes Ball Nose End Mill



Type no.	Type no.	Diameter	Flute Length	Effective Length	Overall Length	Shank Dia
4 Flutes	2 Flutes	D	H	H1	L	D2
BN4A0405006-R0.50	BN2A0405006-R0.50	R0.50	1	6	50	4
BN4A0405008-R0.50	BN2A0405008-R0.50	R0.50	1	8	50	4
BN4A0405010-R0.50	BN2A0405010-R0.50	R0.50	1	10	50	4
BN4A0405012-R0.50	BN2A0405012-R0.50	R0.50	1	12	50	4
BN4A0405008-R0.75	BN2A0405008-R0.75	R0.75	1.5	8	50	4
BN4A0405012-R0.75	BN2A0405012-R0.75	R0.75	1.5	12	50	4
BN4A0405016-R0.75	BN2A0405016-R0.75	R0.75	1.5	16	50	4
BN4A0405020-R0.75	BN2A0405020-R0.75	R0.75	1.5	20	50	4
BN4A0405008-R1.00	BN2A0405008-R1.00	R1.00	2	8	50	4
BN4A0405012-R1.00	BN2A0405012-R1.00	R1.00	2	12	50	4
BN4A0405016-R1.00	BN2A0405016-R1.00	R1.00	2	16	50	4
BN4A0405020-R1.00	BN2A0405020-R1.00	R1.00	2	20	50	4
BN4A0605008-R1.50	BN2A0605008-R1.50	R1.50	3	8	50	6
BN4A0605010-R1.50	BN2A0605010-R1.50	R1.50	3	10	50	6
BN4A0605016-R1.50	BN2A0605016-R1.50	R1.50	3	16	50	6
BN4A0607510-R2.00	BN2A0607510-R2.00	R2.00	4	10	75	6
BN4A0607515-R2.00	BN2A0607515-R2.00	R2.00	4	15	75	6
BN4A0607520-R2.00	BN2A0607520-R2.00	R2.00	4	20	75	6
BN4A0607525-R2.00	BN2A0607525-R2.00	R2.00	4	25	75	6
BN4A0607530-R2.00	BN2A0607530-R2.00	R2.00	4	30	75	6



Surface Milling



R Slot

H S



● Recommend
 ● Suitable



48

Yida Precision Tools



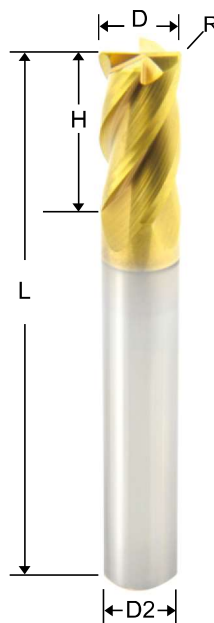
鎢鋼圓鼻立銑刀 4刃/2刃

YDH99EB4A

YDH99EB2A



4 Flutes Corner Radius End Mill
2 Flutes Corner Radius End Mill



Type no.	Type no.	Diameter	Corner Radius	Flute Length	Overall Length	Shank Dia
4 Flutes	2 Flutes	D	R	H	L	D2
EB4A010-0.2R	EB2A010-0.2R	1	0.2R	2	50	4
EB4A020-0.2R	EB2A020-0.2R	2	0.2R	4	50	4
EB4A020-0.5R	EB2A020-0.5R	2	0.5R	4	50	4
EB4A030-0.2R	EB2A030-0.2R	3	0.2R	6	50	4
EB4A030-0.5R	EB2A030-0.5R	3	0.5R	6	50	4
EB4A030-1.0R	EB2A030-1.0R	3	1.0R	6	50	4
EB4A040-0.2R	EB2A040-0.2R	4	0.2R	8	50	4
EB4A040-0.5R	EB2A040-0.5R	4	0.5R	8	50	4
EB4A040-1.0R	EB2A040-1.0R	4	1.0R	8	50	4
EB4A050-0.5R	EB2A050-0.5R	5	0.5R	10	50	6
EB4A050-1.0R	EB2A050-1.0R	5	1.0R	10	50	6
EB4A060-0.2R	EB2A060-0.2R	6	0.2R	12	50	6
EB4A060-0.5R	EB2A060-0.5R	6	0.5R	12	50	6
EB4A060-1.0R	EB2A060-1.0R	6	1.0R	12	50	6
EB4A060-1.5R	EB2A060-1.5R	6	1.5R	12	50	6
EB4A060-2.0R	EB2A060-2.0R	6	2.0R	12	50	6
EB4A080-0.5R	EB2A080-0.5R	8	0.5R	16	60	8
EB4A080-1.0R	EB2A080-1.0R	8	1.0R	16	60	8
EB4A080-1.5R	EB2A080-1.5R	8	1.5R	16	60	8
EB4A080-2.0R	EB2A080-2.0R	8	2.0R	16	60	8
EB4A100-0.5R	EB2A100-0.5R	10	0.5R	20	75	10
EB4A100-1.0R	EB2A100-1.0R	10	1.0R	20	75	10
EB4A100-1.5R	EB2A100-1.5R	10	1.5R	20	75	10
EB4A100-2.0R	EB2A100-2.0R	10	2.0R	20	75	10
EB4A100-2.5R	EB2A100-2.5R	10	2.5R	20	75	10
EB4A100-3.0R	EB2A100-3.0R	10	3.0R	20	75	10
EB4A120-0.5R	EB2A120-0.5R	12	0.5R	24	75	12
EB4A120-1.0R	EB2A120-1.0R	12	1.0R	24	75	12
EB4A120-1.5R	EB2A120-1.5R	12	1.5R	24	75	12
EB4A120-2.0R	EB2A120-2.0R	12	2.0R	24	75	12
EB4A120-2.5R	EB2A120-2.5R	12	2.5R	24	75	12
EB4A120-3.0R	EB2A120-3.0R	12	3.0R	24	75	12



R Corner Side Milling



R Corner



Right Angle Slotted

H

S



● Recommend
● Suitable

Leopard Series

Nano Carbide End Mill

Yida Precision Tools

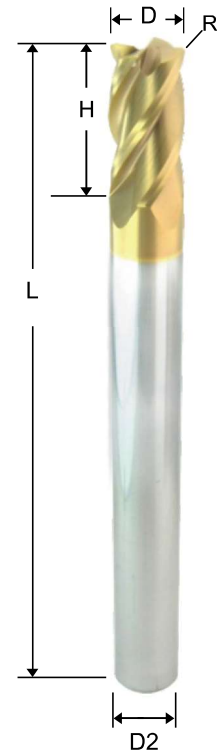
鎢鋼長柄圓鼻立銑刀 4刃/2刃

YDH99EBL4A

YDH99EBL2A



Long Shank, 4 Flutes Corner Radius End Mill
Long Shank, 2 Flutes Corner Radius End Mill

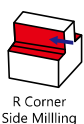


Type no.	Type no.	Diameter	Corner Radius	Flute Length	Overall Length	Shank Dia
4 Flutes	2 Flutes	D	R	H	L	D2
EBL4A030-0.2R A/B	EBL2A030-0.2R A/B	3	0.2R	6	75/100/-	4
EBL4A030-0.5R A/B	EBL2A030-0.5R A/B	3	0.5R	6	75/100/-	4
EBL4A030-1.0R A/B	EBL2A030-1.0R A/B	3	1.0R	6	75/100/-	4
EBL4A040-0.2R A/B	EBL2A040-0.2R A/B	4	0.2R	8	75/100/-	4
EBL4A040-0.5R A/B	EBL2A040-0.5R A/B	4	0.5R	8	75/100/-	4
EBL4A040-1.0R A/B	EBL2A040-1.0R A/B	4	1.0R	8	75/100/-	4
EBL4A050-0.5R A/B/C	EBL2A050-0.5R A/B/C	5	0.5R	10	75/100/150	6
EBL4A050-1.0R A/B/C	EBL2A050-1.0R A/B/C	5	1.0R	10	75/100/150	6
EBL4A060-0.2R A/B/C	EBL2A060-0.2R A/B/C	6	0.2R	12	75/100/150	6
EBL4A060-0.5R A/B/C	EBL2A060-0.5R A/B/C	6	0.5R	12	75/100/150	6
EBL4A060-1.0R A/B/C	EBL2A060-1.0R A/B/C	6	1.0R	12	75/100/150	6
EBL4A060-1.5R A/B/C	EBL2A060-1.5R A/B/C	6	1.5R	12	75/100/150	6
EBL4A060-2.0R A/B/C	EBL2A060-2.0R A/B/C	6	2.0R	12	75/100/150	6
EBL4A080-0.5R A/B/C	EBL2A080-0.5R A/B/C	8	0.5R	16	75/100/150	8
EBL4A080-1.0R A/B/C	EBL2A080-1.0R A/B/C	8	1.0R	16	75/100/150	8
EBL4A080-1.5R A/B/C	EBL2A080-1.5R A/B/C	8	1.5R	16	75/100/150	8
EBL4A080-2.0R A/B/C	EBL2A080-2.0R A/B/C	8	2.0R	16	75/100/150	8
EBL4A100-0.5R B/C	EBL2A100-0.5R B/C	10	0.5R	20	-/100/150	10
EBL4A100-1.0R B/C	EBL2A100-1.0R B/C	10	1.0R	20	-/100/150	10
EBL4A100-1.5R B/C	EBL2A100-1.5R B/C	10	1.5R	20	-/100/150	10
EBL4A100-2.0R B/C	EBL2A100-2.0R B/C	10	2.0R	20	-/100/150	10
EBL4A100-3.0R B/C	EBL2A100-3.0R B/C	10	3.0R	20	-/100/150	10
EBL4A120-0.5R B/C	EBL2A120-0.5R B/C	12	0.5R	24	-/100/150	12
EBL4A120-1.0R B/C	EBL2A120-1.0R B/C	12	1.0R	24	-/100/150	12
EBL4A120-1.5R B/C	EBL2A120-1.5R B/C	12	1.5R	24	-/100/150	12
EBL4A120-2.0R B/C	EBL2A120-2.0R B/C	12	2.0R	24	-/100/150	12
EBL4A120-3.0R B/C	EBL2A120-3.0R B/C	12	3.0R	24	-/100/150	12

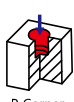
請確認總(全)長

Please check and confirm overall length

A=75L B=100L C=150L



R Corner Side Milling



R Corner



Right Angle Slotted



● Recommend
 ● Suitable



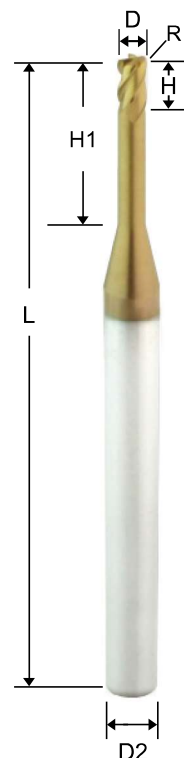
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Yida Precision Tools



Extraordinary Speed

www.ydendmill.com



鎢鋼長頸圓鼻立銑刀 4刃/2刃

YDH99EBN4A

YDH99EBN2A



Long Neck, 4 Flutes Corner Radius End Mill
Long Neck, 2 Flutes Corner Radius End Mill

Type no.	Type no.	Diameter	Corner Radius	Flute Length	Effective Length	Overall Length	Shank Dia
4 Flutes	2 Flutes	D	R	H	H1	L	D2
EBN4A01004-0.2R	EBN2A01004-0.2R	1	0.2R	1	4	50	4
EBN4A01006-0.2R	EBN2A01006-0.2R	1	0.2R	1	6	50	4
EBN4A01008-0.2R	EBN2A01008-0.2R	1	0.2R	1	8	50	4
EBN4A01010-0.2R	EBN2A01010-0.2R	1	0.2R	1	10	50	4
EBN4A01504-0.2R	EBN2A01504-0.2R	1.5	0.2R	1.5	4	50	4
EBN4A01506-0.2R	EBN2A01506-0.2R	1.5	0.2R	1.5	6	50	4
EBN4A01508-0.2R	EBN2A01508-0.2R	1.5	0.2R	1.5	8	50	4
EBN4A01510-0.2R	EBN2A01510-0.2R	1.5	0.2R	1.5	10	50	4
EBN4A01512-0.2R	EBN2A01512-0.2R	1.5	0.2R	1.5	12	50	4
EBN4A02008-0.2R	EBN2A02008-0.2R	2	0.2R	2	8	50	4
EBN4A02010-0.2R	EBN2A02010-0.2R	2	0.2R	2	10	50	4
EBN4A02012-0.2R	EBN2A02012-0.2R	2	0.2R	2	12	50	4
EBN4A02016-0.2R	EBN2A02016-0.2R	2	0.2R	2	16	50	4
EBN4A03008-0.2R	EBN2A03008-0.2R	3	0.2R	3	8	50	6
EBN4A03010-0.2R	EBN2A03010-0.2R	3	0.2R	3	10	50	6
EBN4A03012-0.2R	EBN2A03012-0.2R	3	0.2R	3	12	50	6
EBN4A03016-0.2R	EBN2A03016-0.2R	3	0.2R	3	16	50	6
EBN4A03020-0.2R	EBN2A03020-0.2R	3	0.2R	3	20	50	6

