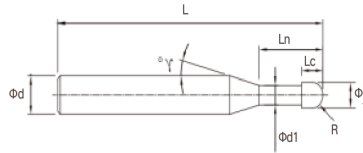


EXHBD-2

2 Flute Ball Nose End Mill

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ΦD	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012
6 < D ≤ 10	0 ~ -0.015
10 < D ≤ 18	0 ~ -0.018

ΦD	R Tolerance
D < 1	±0.003
1 ≤ D ≤ 8	±0.005
D > 8	±0.008

[mm]

Order Code	Dia.	Radius	Length of cut	Under Neck Length	Neck Dia.	Overall Length	Shank Dia.	Stock
	ΦD	R	Lc	Ln	Φd1	L	Φd	
EXHBD-2001 04050	0.1	0.05	0.1	-	-	50	4	●
EXHBD-20015 04050	0.15	0.075	0.15	-	-	50	4	●
EXHBD-2002 04050	0.2	0.1	0.2	-	-	50	4	●
EXHBD-2003 04050	0.3	0.15	0.3	-	-	50	4	●
EXHBD-2004 04050	0.4	0.2	0.6	-	-	50	4	●
EXHBD-2005 04050	0.5	0.25	0.8	-	-	50	4	●
EXHBD-2006 04050	0.6	0.3	0.9	-	-	50	4	●
EXHBD-2008 04050	0.8	0.4	1.2	-	-	50	4	●
EXHBD-2010 04050	1	0.5	0.75	2	0.95	50	4	●
EXHBD-2010 06050	1	0.5	0.75	2.5	0.95	50	6	●
EXHBD-2010 06060	1	0.5	0.75	2.5	0.95	60	6	●
EXHBD-2010 06075	1	0.5	0.75	2.5	0.95	75	6	●
EXHBD-2012 04050	1.2	0.6	0.9	2.4	1.14	50	4	●
EXHBD-2015 04050	1.5	0.75	1.2	3	1.42	50	4	●
EXHBD-2015 06050	1.5	0.75	1.2	4	1.42	50	6	●
EXHBD-2015 06060	1.5	0.75	1.2	4	1.42	60	6	●
EXHBD-2015 06075	1.5	0.75	1.2	4	1.42	75	6	●
EXHBD-2020 04050	2	1.0	1.6	4	1.9	50	4	●
EXHBD-2020 06050	2	1.0	1.6	6	1.9	50	6	●
EXHBD-2020 06060	2	1.0	1.6	6	1.9	60	6	●
EXHBD-2020 06075	2	1.0	1.6	6	1.9	75	6	●
EXHBD-2025 04050	2.5	1.25	2	5	2.4	50	4	●
EXHBD-2025 06050	2.5	1.25	2	7	2.4	50	6	●
EXHBD-2025 06060	2.5	1.25	2	7	2.4	60	6	●
EXHBD-2025 06075	2.5	1.25	2	7	2.4	75	6	●
EXHBD-2030 04050	3	1.5	2.4	6	2.9	50	4	●
EXHBD-2030 06050	3	1.5	2.4	8	2.9	50	6	●
EXHBD-2030 06060	3	1.5	2.4	8	2.9	60	6	●
EXHBD-2030 06075	3	1.5	2.4	8	2.9	75	6	●
EXHBD-2040 04050	4	2.0	6	-	-	50	4	●
EXHBD-2040 04075	4	2.0	6	-	-	75	4	●
EXHBD-2040 06050	4	2.0	3.2	10	3.9	50	6	●
EXHBD-2040 06060	4	2.0	3.2	10	3.9	60	6	●
EXHBD-2040 06075	4	2.0	3.2	10	3.9	75	6	●

EXHBD-2

■ 2 Flute Ball Nose End Mill

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Order Code	Dia.	Radius	Length of cut	Under Neck Length	Neck Dia.	Overall Length	Shank Dia.	Stock
	ΦD	R	Lc	Ln	Φd1	L	Φd	
EXHBD-2050 06050	5	2.5	4	12	4.85	50	6	●
EXHBD-2050 06060	5	2.5	4	12	4.85	60	6	●
EXHBD-2050 06075	5	2.5	4	12	4.85	75	6	●
EXHBD-2060 06050	6	3.0	9	—	—	50	6	●
EXHBD-2060 06060	6	3.0	9	—	—	60	6	●
EXHBD-2060 06075	6	3.0	9	—	—	75	6	●
EXHBD-2060 06100	6	3.0	9	—	—	100	6	●
EXHBD-2080 08060	8	4.0	12	—	—	60	8	●
EXHBD-2080 08075	8	4.0	12	—	—	75	8	●
EXHBD-2080 08100	8	4.0	12	—	—	100	8	●
EXHBD-2100 10075	10	5.0	15	—	—	75	10	●
EXHBD-2100 10100	10	5.0	15	—	—	100	10	●
EXHBD-2100 10125	10	5.0	15	—	—	125	10	●
EXHBD-2120 12750	12	6.0	18	—	—	75	12	●
EXHBD-2120 12100	12	6.0	18	—	—	100	12	●
EXHBD-2120 12125	12	6.0	18	—	—	125	12	●

■ TABLE OF RECOMMENDED MILLING MATERIALS

CARBON STEELS ALLOY STEELS TOOL STEELS PREHARDNEED STEELS	PREHARDNEED STEELS HARDENED STEELS				STAINLESS STEELS	CAST IRON DUCTILE CAST IRON
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB
○	○	○	○	○	○	○
COPPER ALLOYS	ALUMINUM ALLOY	GRAPHITE	TITANIUM ALLOY	HEAT RESISTANT ALLOYS	PLASTIC	
○			○	○		

○ Very suitable ○ Suitable