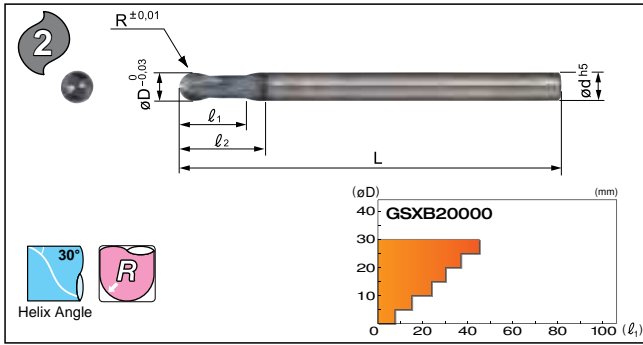


# GSX MILL Ball Endmills GSXB 20000 Type

Coated Carbide Grades	GSX Coating	Structural Steel	Carbon Steel	Alloy Steel	Pre-hardened Steel	Tempered Die Steel	Hardened Steel	Stainless Steel	Ti Alloy / Heat Resistant Alloy	Cast Iron	Al Alloy	Cu Alloy	Graphite
		○	○	○	○	○	○	○	○	○	○	○	○



Coated carbide grade: ACB20

## Endmill Identification (GSXB Type)

# GSXB 2 0200

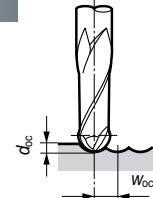
- ① Series Code
- ② No. of Teeth
- ③ Radius of Ballnose

## Endmills

Cat. No.	Stock	R	øD	l <sub>1</sub>	l <sub>2</sub>	L	ød
GSXB 20020	●	0,20	0,4	0,6	0,8	50	4
GSXB 20030	●	0,30	0,6	0,9	1,2	50	4
GSXB 20050	●	0,50	1,0	1,5	2,0	50	4
GSXB 20075	●	0,75	1,5	2,5	3,0	50	4
GSXB 20100	●	1,00	2,0	3,0	4,0	60	6
GSXB 20125	●	1,25	2,5	4,0	5,0	60	6
GSXB 20150	●	1,50	3,0	4,5	6,0	60	6
GSXB 20200	●	2,00	4,0	6,0	8,0	70	6
GSXB 20250	●	2,50	5,0	7,5	10,0	80	6
GSXB 20300	●	3,00	6,0	9,0	—	80	6
GSXB 20350	●	3,50	7,0	11,0	20,0	90	8
GSXB 20400	●	4,00	8,0	12,0	—	90	8
GSXB 20500	●	5,00	10,0	15,0	—	100	10
GSXB 20600	●	6,00	12,0	18,0	—	110	12
GSXB 20700	●	7,00	14,0	21,0	38,0	110	16
GSXB 20800	●	8,00	16,0	24,0	—	140	16
GSXB 20900	●	9,00	18,0	27,0	50,0	140	20
GSXB 21000	●	10,00	20,0	30,0	—	160	20
GSXB 21250	●	12,50	25,0	38,0	—	180	25
GSXB 21500	●	15,00	30,0	45,0	80,0	180	32



New "Global Standard" Mills  
Ball nose type with 2 teeth



## Recommended cutting conditions

- (1) If cutting noise and vibration are present, please change the cutting conditions accordingly.
- (2) If the machine is not designed to achieve the recommended spindle speed, please use the max. spindle speed available.

## Radius Milling

Work Material	Carbon Steel, Alloy Steel (Below 25HRC)		Carbon Steel, Alloy Steel (Below 50HRC)		Cast Iron Special Cast Iron		Stainless Steel Titanium Alloy	
	Spindle Speed (rpm)	Feed Rate (mm/min)	Spindle Speed (rpm)	Feed Rate (mm/min)	Spindle Speed (rpm)	Feed Rate (mm/min)	Spindle Speed (rpm)	Feed Rate (mm/min)
0,20	50.000	2.100	35.000	1.150	50.000	2.100	50.000	1.750
0,30	50.000	2.500	35.000	1.350	50.000	2.500	50.000	2.100
0,50	50.000	3.000	35.000	1.600	50.000	3.000	50.000	2.500
0,75	35.000	3.000	24.000	1.650	35.000	3.200	34.000	2.500
1,00	27.500	3.000	19.000	1.700	35.000	3.900	26.000	2.500
1,25	22.500	3.000	15.500	1.700	28.000	3.900	21.000	2.500
1,50	19.000	3.000	13.000	1.700	24.000	3.900	17.500	2.500
2,00	17.000	3.800	12.000	2.100	20.000	4.100	15.000	2.700
2,50	15.500	4.300	11.000	2.200	18.000	4.600	12.000	2.500
3,00	14.000	4.700	10.500	2.500	16.500	5.300	10.500	2.500
3,50	12.500	4.200	9.000	2.100	14.000	4.500	9.000	2.200
4,00	11.000	3.500	7.900	1.900	12.500	4.000	7.800	1.900
5,00	9.000	2.800	6.300	1.500	10.500	3.300	6.300	1.500
6,00	7.500	2.400	5.200	1.250	8.700	2.800	5.200	1.250
7,00	6.400	2.100	4.500	1.100	7.400	2.400	4.500	1.100
8,00	5.600	1.800	3.900	950	6.500	2.100	3.900	950
9,00	5.000	1.600	3.500	850	5.800	1.900	3.500	850
10,00	4.500	1.450	3.100	750	5.200	1.700	3.150	750
12,50	3.600	1.150	2.500	600	4.200	1.350	2.500	600
15,00	3.000	960	2.100	500	3.500	1.150	2.100	500

Depth and wide of cut	d <sub>oc</sub>	0,02 D	0,02 D	0,02 D	0,02 D
	W <sub>oc</sub>	0,05 D	0,05 D	0,05 D	0,05 D

- = Euro stock
- ▲ = To be replaced by new item