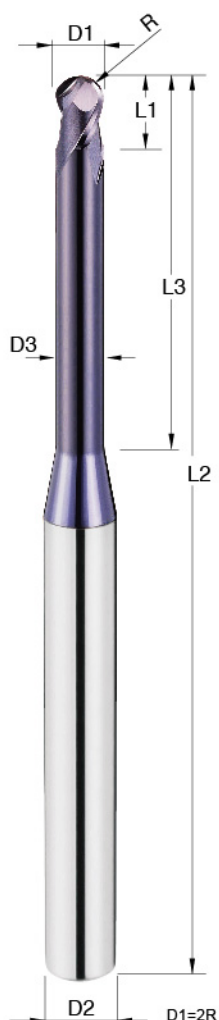


SUPER MILL

SBF

► Long Neck / Ball Nose / for **H** **P** **K**

unit: mm

**S**
MG

Order No.	Radius R	Neck Dia D3	Flute Length L1	Effective Length L3	O.A.L. L2	Shank Dia D2
SBF 00504	R0.25	0.46	0.5	4	50	4
SBF 00506	R0.25	0.46	0.5	6	50	4
SBF 00604	R0.3	0.56	0.6	4	50	4
SBF 00606	R0.3	0.56	0.6	6	50	4
SBF 00806	R0.4	0.76	0.8	6	50	4
SBF 00808	R0.4	0.76	0.8	8	50	4
SBF 01006	R0.5	0.95	1.5	6	50	4
SBF 01008	R0.5	0.95	1.5	8	50	4
SBF 01010	R0.5	0.95	1.5	10	50	4
SBF 01012	R0.5	0.95	1.5	12	50	4
SBF 01208	R0.6	1.15	2	8	50	4
SBF 01212	R0.6	1.15	2	12	50	4
SBF 01508	R0.75	1.45	2	8	50	4
SBF 01512	R0.75	1.45	2	12	50	4
SBF 01516	R0.75	1.45	2	16	50	4
SBF 01520	R0.75	1.45	2	20	50	4
SBF 01608	R0.8	1.54	2.5	8	50	4
SBF 01612	R0.8	1.54	2.5	12	50	4
SBF 01616	R0.8	1.54	2.5	16	50	4
SBF 02008	R1.0	1.92	3	8	50	4
SBF 02012	R1.0	1.92	3	12	50	4
SBF 02016	R1.0	1.92	3	16	50	4
SBF 02020	R1.0	1.92	3	20	50	4
SBF 03008	R1.5	2.90	4	8	50	6
SBF 03010	R1.5	2.90	4	10	50	6
SBF 03016	R1.5	2.90	4	16	50	6
SBF 03020	R1.5	2.90	4	20	75	6
SBF 03025	R1.5	2.90	4	25	75	6
SBF 04010	R2.0	3.88	5	10	75	6
SBF 04015	R2.0	3.88	5	15	75	6
SBF 04020	R2.0	3.88	5	20	75	6
SBF 04025	R2.0	3.88	5	25	75	6
SBF 04030	R2.0	3.88	5	30	75	6

▼ Recommended cutting condition for SBF

MATERIAL		Alloy Steels . Tool Steels . Hardened Steels S45C, SCM, S50C, SKS, SCr, SNCM, SKD11, SKD61, NAK80			
Radius(R)	EFFECTIVE LENGTH	SPEED (min ⁻¹)	FEED mm / min	DEPTH OF CUT ap (mm)	
R0.25	4	30000 - 40000	200 - 650	0.015	
	6	30000 - 40000	200 - 650	0.013	
R0.3	4	27000 - 40000	180 - 650	0.025	
	6	27000 - 40000	180 - 650	0.015	
R0.4	6	25000 - 40000	400 - 750	0.025	
	8	25000 - 40000	400 - 750	0.025	
R0.5	6	20000 - 32000	300 - 750	0.04	
	8	20000 - 32000	300 - 750	0.03	
	10	20000 - 32000	300 - 750	0.025	
	12	20000 - 32000	300 - 750	0.015	
R0.6	8	22000 - 25000	500 - 600	0.05	
	12	22000 - 25000	500 - 600	0.03	
R0.75	8	18000 - 20000	350 - 550	0.07	
	12	18000 - 20000	350 - 550	0.04	
	16	18000 - 20000	350 - 550	0.03	
	20	18000 - 20000	350 - 550	0.02	
R0.8	8	13000 - 18000	350 - 800	0.08	
	12	13000 - 18000	350 - 800	0.06	
	16	13000 - 18000	350 - 800	0.05	
R1.0	8	12000 - 17000	500 - 900	0.1	
	12	12000 - 17000	500 - 900	0.1	
	16	12000 - 17000	500 - 900	0.07	
	20	12000 - 17000	500 - 900	0.04	
R1.5	8	8000 - 11000	500 - 700	0.17	
	10	8000 - 11000	500 - 700	0.15	
	16	8000 - 11000	500 - 700	0.14	
	20	8000 - 11000	500 - 700	0.12	
	25	8000 - 11000	500 - 700	0.1	
R2.0	10	5000 - 8000	400 - 600	0.18	
	15	5000 - 8000	400 - 600	0.17	
	20	5000 - 8000	400 - 600	0.16	
	25	5000 - 8000	400 - 600	0.15	
	30	5000 - 8000	400 - 600	0.14	

▼ Depth of cut

