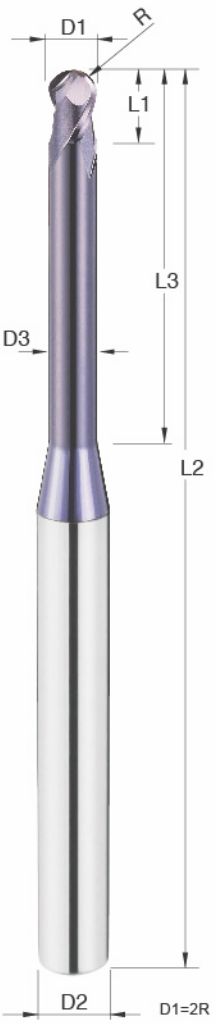
EFFICIENCY MILLS

BF



MG

2 Flutes

30°

HRC 55

TiAlN

Finishing
Semi-Finishing

Profiling

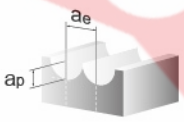
▶ Long Neck / Ball Nose / for P K

unit: mm

Order No.	Radius R	Neck Dia D3	Flute Length L1	Effective Length L3	O.A.L. L2	Shank Dia D2
BF 01006	R0.5	0.95	2	6	50	4
BF 01008	R0.5	0.95	2	8	50	4
BF 01010	R0.5	0.95	2	10	50	4
BF 01012	R0.5	0.95	2	12	50	4
BF 01508	R0.75	1.45	3	8	50	4
BF 01510	R0.75	1.45	3	10	50	4
BF 01512	R0.75	1.45	3	12	50	4
BF 01516	R0.75	1.45	3	16	50	4
BF 01520	R0.75	1.45	3	20	50	4
BF 02008	R1.0	1.92	4	8	50	4
BF 02010	R1.0	1.92	4	10	50	4
BF 02012	R1.0	1.92	4	12	50	4
BF 02016	R1.0	1.92	4	16	50	4
BF 02020	R1.0	1.92	4	20	50	4
BF 03008	R1.5	2.90	6	8	50	6
BF 03010	R1.5	2.90	6	10	50	6
BF 03012	R1.5	2.90	6	12	50	6
BF 03016	R1.5	2.90	6	16	50	6
BF 03020	R1.5	2.90	6	20	75	6
BF 03025	R1.5	2.90	6	25	75	6
BF 04012	R2.0	3.88	8	12	50	6
BF 04016	R2.0	3.88	8	16	50	6
BF 04020	R2.0	3.88	8	20	50	6
BF 04025	R2.0	3.88	8	25	75	6
BF 04030	R2.0	3.88	8	30	75	6

▼ Depth of cut

R<1 ae<0.1R
R>1 ae<0.2R



R=Radius

▼ Recommended cutting condition for BF

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)
R0.5	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
R0.75	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
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

YASH TOOLS