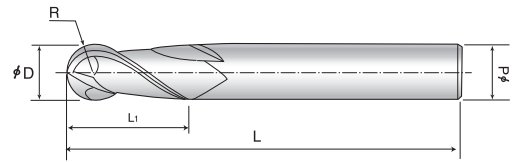
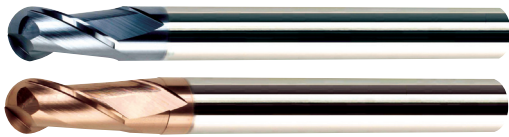


BYB 2000

2날 볼 엔드밀

BALL END MILLS (2 FLUTES)

- ◆ TiSiN 코팅 적용으로 절삭저항 최소화되며 내마모성이 우수함
- ◆ HRC50 이하 소재 및 프리하든강, 합금강, 탄소강, 동 등 다양한 피삭재 적용 가능
- ◆ Excellent wear-resistance and minimum cutting resistance due to TiSiN coating
- ◆ Suitable for various workpieces such as prehardened, alloy, and carbon steels, as well as materials below HRC50



모델번호	볼반경	직경	날장	전장	생크경
Model No.	Radius	Diameter of Mill	Length of cut	Overall Length	Shank Diameter
	R	∅D	L ₁	L	∅d(h6)
BYB 20006	R0.03	0.06	0.1	45	4
BYB 20008	R0.04	0.08	0.1	45	4
BYB 2001	R0.05	0.1	0.15	45	4
BYB 2002	R0.1	0.2	0.3	45	4
BYB 2003	R0.15	0.3	0.4	45	4
BYB 2004	R0.2	0.4	0.4	45	4
BYB 2005	R 0.25	0.5	1	45	4
BYB 2006	R 0.3	0.6	1.2	45	4
BYB 2008	R 0.4	0.8	1.5	45	4
BYB 2010	R 0.5	1.0	2	45	6
BYB 2015	R 0.75	1.5	4	45	6
BYB 2020	R 1.0	2.0	5	60	6
BYB 2025	R 1.25	2.5	8	60	6
BYB 2030-S3	R 1.5	3.0	8	50	3
BYB 2030	R 1.5	3.0	8	60	6
BYB 2035	R 1.75	3.5	8	60	6
BYB 2040-S4	R 2.0	4.0	8	60	4
BYB 2040	R 2.0	4.0	8	70	6
BYB 2050	R 2.5	5.0	10	80	6
BYB 2060	R 3.0	6.0	12	90	6
BYB 2070	R 3.5	7.0	14	90	8
BYB 2080	R 4.0	8.0	14	100	8
BYB 2090	R 4.5	9.0	18	100	10
BYB 2100	R 5.0	10.0	18	100	10
BYB 2120	R 6.0	12.0	22	110	12
BYB 2160	R 8.0	16.0	35	140	16

BY-007

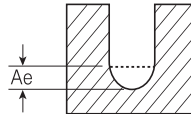
BALL SERIES



BYRB Series

2날 롱넥볼

MATERIAL	ALLOY STEELS HEAT RESISTANT STEELS			HARDENED STEELS					
	HRc 30 ~HRc 45			HRc 45 ~HRc 55			HRc 55 ~HRc 65		
	RADIUS	RPM	FEED	Ae(mm)	RPM	FEED	Ae(mm)	RPM	FEED
R 0.5	45000	130~170	0.006~0.016	45000	120~140	0.005~0.013	45000	90~130	0.005~0.012
R 0.1	45000	270~315	0.006~0.016	45000	238~279	0.005~0.013	45000	198~238	0.005~0.012
R 0.15	43200~45000	432~468	0.010~0.017	43200~45000	396~414	0.008~0.014	43200~45000	338~378	0.007~0.013
R 0.2	43200~45000	648~711	0.013~0.032	43200~45000	405~495	0.011~0.026	43200~45000	374~414	0.010~0.024
R 0.25	30690~44550	540~783	0.007~0.028	28710~31680	441~486	0.005~0.023	28710~31680	392~432	0.005~0.021
R 0.3	25740~36630	531~765	0.007~0.034	23760~26730	432~486	0.006~0.028	23760~26730	392~432	0.006~0.025
R 0.4	19800~27720	576~801	0.016~0.064	17820~19800	441~495	0.013~0.052	17820~19800	410~450	0.012~0.048
R 0.5	15840~21780	540~765	0.008~0.080	13860~15840	423~486	0.007~0.065	13860~15840	410~450	0.006~0.060
R 0.6	12870~16830	531~702	0.024~0.032	10800~12600	432~486	0.020~0.026	10800~12600	392~432	0.018~0.024
R 0.75	9900~12870	522~684	0.031~0.048	9000~10350	432~486	0.025~0.039	9000~10350	392~432	0.023~0.036
R 1	7650~9900	531~720	0.024~0.160	7110~7920	423~477	0.020~0.130	7110~7920	392~432	0.018~0.120
R 1.5	5130~7380	657~900	0.064~0.240	4770~5220	531~585	0.052~0.195	4770~5220	518~558	0.048~0.120
R 2	3870~5580	612~891	0.080~0.320	3555~3960	495~558	0.065~0.260	3555~3960	473~513	0.060~0.240



RPM = rev/min
Feed = mm/min

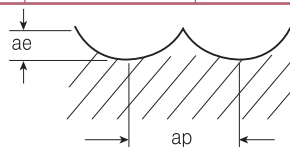


BYB 2000, BYBS 2000 Series

2날 볼, 슷볼

MATERIAL	NON-ALLOYED STEELS ALLOY STEELS CAST IRON		ALLOY STEELS HEAT RESISTANT STEELS		HARDENED STEELS	
	~HRc 30		HRc 30 ~ HRc 40		HRc 40 ~ HRc 55	
	~1000N/mm ²		1000 ~1250N/mm ²		~1500N/mm ²	
SOLIDITY						
RADIUS	RPM	FEED	RPM	FEED	RPM	FEED
R0.5	16500	290	13300	230	6100	105
R0.75	16500	405	12700	310	5590	140
R1	15100	865	11200	565	4900	175
R1.25	15100	865	11200	565	4900	175
R1.5	13800	780	10500	530	4750	175
R2	11000	850	8800	610	4410	205
R2.5	9600	945	7600	665	3860	205
R3	8900	1150	7200	955	3340	220
R4	7500	1500	6050	1060	2590	255
R5	6700	1750	5300	1170	2140	260
R6	6150	2000	4800	1280	1840	280
R8	5000	1950	3900	1220	1420	280
R10	4350	1900	3400	1200	1170	290

ae : D1~D6=0.2mm
D8~D20=0.3mm
ap : 0.2×D



RPM = rev/min
Feed = mm/min

ae : D1~D6=0.2mm
D8~D20=0.3mm
ap : 0.1×D