

## 2 Flutes HARDMAX

Unit (mm)

Model Number	Radius of Ball Nose R	Effective Length $l_1$	Length of Cut $l$	Neck Diameter $\phi d_1$	Shank Taper Angle Bta	Overall Length L	Shank Diameter $\phi d$	Suggested Retail Price ¥	Effective Length by Inclined Angles				
									30°	1°	1°30'	2°	3°
HSLB 2004-005	R0.2	0.5	0.32	0.39	16°	45	4	4,380	0.60	0.63	0.65	0.68	0.72
HSLB 2004-0075		0.75				45	4	4,380	0.86	0.90	0.93	0.96	1.03
HSLB 2004-010		1				45	4	4,380	1.13	1.17	1.21	1.25	1.33
HSLB 2004-010-6		1				50	6	6,380	1.13	1.17	1.21	1.25	1.33
HSLB 2004-0125		1.25				45	4	4,470	1.37	1.43	1.48	1.52	1.63
HSLB 2004-015		1.5				45	4	4,470	1.64	1.70	1.75	1.81	1.93
HSLB 2004-015-6		1.5				50	6	6,470	1.64	1.70	1.75	1.81	1.93
HSLB 2004-0175		1.75				45	4	4,560	1.90	1.97	2.03	2.09	2.24
HSLB 2004-020		2				45	4	4,560	2.16	2.23	2.30	2.38	2.55
HSLB 2004-020-6		2				50	6	6,660	2.16	2.23	2.30	2.38	2.55
HSLB 2004-0225		2.25				45	4	4,740	2.42	2.50	2.58	2.66	2.85
HSLB 2004-025		2.5				45	4	4,740	2.68	2.76	2.85	2.95	3.16
HSLB 2004-025-6		2.5				50	6	6,840	2.68	2.76	2.85	2.95	3.16
HSLB 2004-030		3				45	4	5,020	3.20	3.30	3.40	3.52	3.77
HSLB 2004-030-6		3				50	6	7,300	3.20	3.30	3.40	3.52	3.77
HSLB 2004-035		3.5				45	4	5,470	3.71	3.83	3.95	4.09	4.38
HSLB 2004-040		4				45	4	5,470	4.23	4.36	4.50	4.66	4.99
HSLB 2004-040-6		4				50	6	7,440	4.23	4.36	4.50	4.66	4.99
HSLB 2004-045		4.5				45	4	5,740	4.74	4.89	5.05	5.22	5.61
HSLB 2004-050		5				45	4	5,740	5.26	5.43	5.60	5.79	6.22
HSLB 2004-060	6	45	4	6,660	6.29	6.49	6.70	6.93	7.44				
HSLB 2005-010	R0.25	1	0.4	0.49	16°	45	4	4,380	1.12	1.17	1.21	1.24	1.32
HSLB 2005-0125		1.25				45	4	4,380	1.37	1.43	1.47	1.52	1.62
HSLB 2005-015		1.5				45	4	4,380	1.63	1.70	1.75	1.80	1.92
HSLB 2005-015-6		1.5				50	6	6,380	1.63	1.70	1.75	1.80	1.92
HSLB 2005-0175		1.75				45	4	4,380	1.90	1.96	2.02	2.09	2.23
HSLB 2005-020		2				45	4	4,380	2.16	2.23	2.30	2.37	2.54
HSLB 2005-020-6		2				50	6	6,380	2.16	2.23	2.30	2.37	2.54
HSLB 2005-0225		2.25				45	4	4,380	2.42	2.50	2.57	2.66	2.84
HSLB 2005-025		2.5				45	4	4,380	2.68	2.76	2.85	2.94	3.15
HSLB 2005-025-6		2.5				50	6	6,380	2.68	2.76	2.85	2.94	3.15
HSLB 2005-030		3				45	4	4,380	3.20	3.29	3.40	3.51	3.76
HSLB 2005-030-6		3				50	6	6,380	3.20	3.29	3.40	3.51	3.76
HSLB 2005-035		3.5				45	4	4,380	3.71	3.83	3.95	4.08	4.37
HSLB 2005-040		4				45	4	4,380	4.23	4.36	4.50	4.65	4.98
HSLB 2005-040-6		4				50	6	6,380	4.23	4.36	4.50	4.65	4.98
HSLB 2005-045		4.5				45	4	4,470	4.74	4.89	5.05	5.22	5.59
HSLB 2005-050		5				45	4	4,470	5.26	5.42	5.60	5.79	6.21
HSLB 2005-055		5.5				45	4	4,560	5.77	5.96	6.15	6.36	6.82
HSLB 2005-060		6				45	4	4,560	6.29	6.49	6.70	6.93	7.43
HSLB 2005-070		7				45	4	5,470	7.32	7.55	7.80	8.06	8.65
HSLB 2005-080	8	45	4	5,470	8.35	8.62	8.90	9.20	9.88				
HSLB 2005-090	9	45	4	6,380	9.38	9.68	10.00	10.34	11.10				
HSLB 2005-100	10	50	4	6,800	10.42	10.75	11.10	11.48	12.32				

- φ3mm Shank V Series
- UDC-PCD Series
- CBN Series
- Square
- Long Neck Square
- Radius
- Long Neck Radius
- Taper Neck Radius
- Ball / Long Shank Ball
- Long Neck Ball
- Taper Neck Ball
- Taper
- Barrel
- Spiral V Cutter
- Drill
- Technical Data