



Size $\phi 0.2 \sim \phi 6$

HLRS2000/HLRS2000E

Super MG

HARD MAX

30°

R

± 0.005

Shank Dia 0/-0.005

Material Applications (★ Highly Recommended ● Recommended ○ Suggested)

Work Material																	
Carbon Steels S45C S55C	Alloy Steels SK / SCM SUS	Prehardened Steels NAK HPM	Hardened Steels					Cast Iron	Aluminum Alloys	Graphite	Copper	Plastics	Glass Filled Plastics	Titanium Alloys	Heat Resistant Alloys	Cemented Carbide	Hard Brittle (Non-Metallic) Materials
			~50HRC	~55HRC	~60HRC	~65HRC	~70HRC										
○	○	●	●	●	●	○	○				●			○	○		

Total 353 models

Unit (mm)

Model Number	Excellent	Outside Diameter ϕD	Corner Radius CR	Effective Length ℓ_1	Length of Cut ℓ	Neck Diameter ϕd_1	Shank Taper Angle Bta	Overall Length L	Shank Diameter ϕd	Suggested Retail Price ¥
HLRS 2002-005-005E	○	0.2	RO.05	0.5	0.2	0.17	16°	50	4	12,320
HLRS 2002-005-010E	○			1				50	4	12,320
HLRS 2002-005-015E	○			1.5				50	4	12,320
HLRS 2002-005-020E	○			2				50	4	12,320
HLRS 2003-005-010E	○	0.3	RO.05	1	0.3	0.27	16°	50	4	11,870
HLRS 2003-005-015E	○			1.5				50	4	11,870
HLRS 2003-005-020E	○			2				50	4	11,870
HLRS 2003-005-025E	○			2.5				50	4	13,200
HLRS 2003-005-030E	○			3				50	4	13,200
HLRS 2004-005-010E	○	0.4	RO.05	1	0.4	0.38	16°	50	4	7,910
HLRS 2004-005-015E	○			1.5				50	4	7,910
HLRS 2004-005-020E	○			2				50	4	7,910
HLRS 2004-005-030E	○			3				50	4	7,910
HLRS 2004-005-040E	○			4				50	4	7,910
HLRS 2004-01-010				1				50	4	7,910
HLRS 2004-01-015			1.5	50	4	7,910				
HLRS 2004-01-020			2	50	4	7,910				
HLRS 2004-01-030			3	50	4	7,910				
HLRS 2004-01-040			4	50	4	7,910				
HLRS 2005-005-010		0.5	RO.05	1	0.5	0.48	16°	50	4	6,440
HLRS 2005-005-020				2				50	4	6,440
HLRS 2005-005-030				3				50	4	6,440
HLRS 2005-005-040				4				50	4	6,440
HLRS 2005-005-050				5				50	4	6,440
HLRS 2005-01-010			RO.1	1	50	4	6,440			
HLRS 2005-01-020				2	50	4	6,440			
HLRS 2005-01-030				3	50	4	6,440			
HLRS 2005-01-040				4	50	4	6,440			
HLRS 2005-01-050				5	50	4	6,440			
HLRS 2005-01-060		6		50	4	6,440				

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- 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