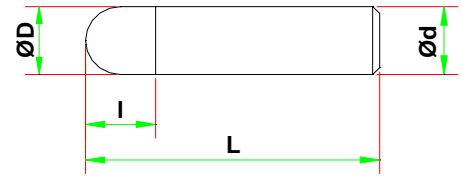


**Size** Dia 3.0 - 12.0 mm  
**Flutes** 2



HBL

Super MG
HARD MAX
R ±0.005
R1.5-R3  
Shank Ø Tolerance 0/-0.005
30°



Diameter Tolerance 0/-0.015 (D up to 6), 0/-0.02 (D up over 8)

Oil mist / Airblow coolant recommended

For outstanding heat resistance and lubrication ability on hard milling up to 65 HRC

Applicable Work Materials

(MS = Most Suitable S = Suitable)

Work Materials										
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels			Cast Iron	Aluminium Alloy	Graphite	Copper	Plastic
			55HRC	60HRC	65HRC					
S	S	MS	MS	S		S			S	

units = mm

Union Tool Part Number	Diameter	Radius Of Ball Nose	Flute Length	Overall Length	Shank Diameter	Price
	D	R	I	L	d	
HBL 2030-0800	3	1.5	4.5	80	3	
HBL 2040-1000	4	2	6	100	4	
HBL 2060-1400	6	3	18	140	6	
HBL 2080-1600	8	4	20	160	8	
HBL 2100-1800	10	5	25	180	10	
HBL 2120-2000	12	6	25	200	12	