

**SPECIAL  
OFFER PRICES**

**RAINFORD PRECISION**

Call 01744 889726 to place your order

# HSB/HSLB Ballnose Endmills

## high performance cutting tools



Union Tool Series/Part No	Diameter	Effective Length	Flute Length	Special Price
	D	ℓ <sub>1</sub>	L	
<b>HSB Ballnose Endmills – 2 Flute</b>				
Variable negative rake in the ballnose gash which increases strength and improves metal removal rates				
HSB 2005-0750	0.5	-	0.75	<b>£26</b>
HSB 2010-0150	1	-	1.5	<b>£26</b>
HSB 2020-0300	2	-	3.0	<b>£23</b>
HSB 2030-0450	3	-	4.5	<b>£29</b>
HSB 2040-0600	4	-	6.0	<b>£32</b>
HSB 2060-1200	6	-	12.0	<b>£40</b>
<b>HSLB Ballnose Endmills – 2 Flute</b>				
Variable negative rake in the ballnose gash which increases strength and improves metal removal rates				
HSLB 2005-020	0.5	2	0.4	<b>£46</b>
HSLB 2010-040	1	4	0.8	<b>£34</b>
HSLB 2020-060	2	6	1.6	<b>£34</b>
HSLB 2030-080	3	8	2.4	<b>£37</b>
HSLB 2040-120	4	12	3.2	<b>£42</b>
HSLB 2060-200	6	20	4.8	<b>£58</b>

### HSB/HSLB Features

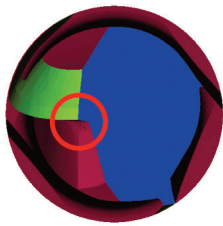
- Super micro grain carbide
- HARDMAX coating
- Best for Steels up to 70 HRC and Copper
- Variable Rake Angle



*Union Tool Endmills – evolved to give the highest level of machining efficiency*

**Buy NOW and make savings!**


### Variable Rake Angle



Edge shape in ball tip

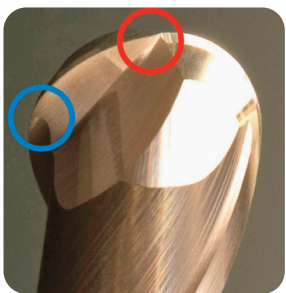
Rake angle

Section in ball tip

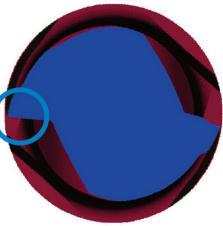


Ball tip point:  
Super negative rake

Improved thick cutting edge generates great resistance for CHIPPING!



VARIABLE  
TRANSITION



Edge shape in peripheral

Rake angle

Section in peripheral cutting edge

Peripheral cutting edge:  
Slightly negative

Cutting resistance smaller – GREAT SURFACE FINISH!