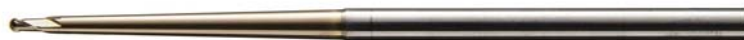
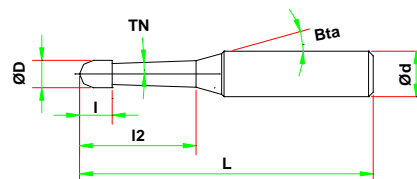


Size Dia 0.2 - 4.0 mm

Flutes 2



HTNB



Oil mist / Airblow coolant recommended

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	MS	MS	S			S	

units = mm

Union Tool Part Number	Diameter	Neck Taper Angle	Effective Length	Flute Length	Overall Length	Shank Diameter	Price
	D	TN	I ₁	I	L	d	
HTNB 2002-015-1	0.2	30'	1.5	0.16	50	4	
HTNB 2002-020-1			2				
HTNB 2002-030-1			3				
HTNB 2002-015-2		1°	1.5				
HTNB 2002-020-2			2				
HTNB 2002-030-2			3				
HTNB 2002-015-3		1.5°	1.5				
HTNB 2002-020-3			2				
HTNB 2002-030-3			3				
HTNB 2003-020-1		0.3	30'				2
HTNB 2003-030-1	3						
HTNB 2003-020-2	1°			2			
HTNB 2003-030-2			3				
HTNB 2003-020-3			1.5°	2			
HTNB 2003-030-3	3						
HTNB 2004-030-1	0.4	30'	3	0.32	50	4	
HTNB 2004-040-1			4				
HTNB 2004-060-1			6				
HTNB 2004-030-2		1°	3				
HTNB 2004-040-2			4				
HTNB 2004-060-2			6				
HTNB 2004-030-3		1.5°	3				
HTNB 2004-040-3			4				
HTNB 2004-060-3			6				
HTNB 2005-040-1			0.5				30'
HTNB 2005-060-1	6						
HTNB 2005-080-1	8						
HTNB 2005-100-1	10						
HTNB 2005-040-2	1°	4		0.4	50	4	
HTNB 2005-060-2		6					
HTNB 2005-080-2		8					
HTNB 2005-100-2		10					

Union Tool Part Number	Diameter	Neck Taper Angle	Effective Length	Flute Length	Overall Length	Shank Diameter	Price	
	D	TN	I_f	I	L	d		
HTNB 2005-040-3	0.5	1.5°	4	0.4	50	4		
HTNB 2005-060-3			6					
HTNB 2005-080-3			8					
HTNB 2005-100-3			10					
HTNB 2006-040-1	0.6	30'	4	0.48	50	4		
HTNB 2006-060-1			6					
HTNB 2006-080-1			8					
HTNB 2006-100-1			10					
HTNB 2006-120-1			12					
HTNB 2006-160-1		16						
HTNB 2006-040-2		1°	1°	4	0.48	50	4	
HTNB 2006-060-2				6				
HTNB 2006-080-2				8				
HTNB 2006-100-2				10				
HTNB 2006-120-2	12							
HTNB 2006-160-2	16							
HTNB 2006-040-3	1.5°	1.5°	4	0.48	50	4		
HTNB 2006-060-3			6					
HTNB 2006-080-3			8					
HTNB 2006-100-3			10					
HTNB 2006-120-3			12					
HTNB 2006-160-3	16							
HTNB 2008-080-1	0.8	30'	8	0.64	50	4		
HTNB 2008-120-1			12		60			
HTNB 2008-080-2		1°	8		50			
HTNB 2008-120-2			12		60			
HTNB 2008-080-3		1.5°	8		50			
HTNB 2008-120-3			12		60			
HTNB 2010-080-1	1.0	30'	8	0.8	50	4		
HTNB 2010-120-1			12		60			
HTNB 2010-160-1			16		70			
HTNB 2010-220-1			22		80			
HTNB 2010-260-1			26					
HTNB 2010-320-1			32					
HTNB 2010-360-1			36					
HTNB 2010-080-2			1°		1°		8	0.8
HTNB 2010-120-2		12		60				
HTNB 2010-160-2		16		65				
HTNB 2010-220-2		22		70				
HTNB 2010-260-2		26		80				
HTNB 2010-320-2		32						
HTNB 2010-360-2		36						
HTNB 2010-080-3		1.5°	1.5°	8	0.8	50	4	
HTNB 2010-120-3				12		60		
HTNB 2010-160-3				16		65		
HTNB 2010-220-3				22		70		
HTNB 2010-260-3	26			80				
HTNB 2010-320-3	32							
HTNB 2010-360-3	36							

Union Tool Part Number	Diameter	Neck Taper Angle	Effective Length	Flute Length	Overall Length	Shank Diameter	Price
	D	TN	I₁	I	L	d	
HTNB 2020-220-1	2.0	30°	22	1.6	60	4	
HTNB 2020-260-1			26				
HTNB 2020-320-1			32				
HTNB 2020-360-1			36				
HTNB 2020-160-2		1°	1.6	16	60	4	
HTNB 2020-220-2				22			
HTNB 2020-260-2				26			
HTNB 2020-320-2				32			
HTNB 2020-360-2				36		80	
HTNB 2020-160-3		1.5°	1.6	16	60	4	
HTNB 2020-220-3				22			
HTNB 2020-260-3				26			
HTNB 2020-320-3				32			
HTNB 2020-360-3				36			
HTNB 2030-320-1		3.0	30°	32	2.4	70	6
HTNB 2030-420-1	42			90			
HTNB 2030-520-1	52			100			
HTNB 2030-320-2	1°		2.4	32	70	6	
HTNB 2030-420-2				42	90		
HTNB 2030-520-2				52	100		
HTNB 2030-320-3	1.5°		2.4	32	70	6	
HTNB 2030-420-3				42	90		
HTNB 2030-580-3				58	100		
HTNB 2040-620-1	4.0	30°	62	3.2	120	6	
HTNB 2040-600-2		1°	60		120		
HTNB 2040-410-3		1.5°	41		80		