

Solid Tip-Bars for Micro Boring

Application	Solid Tip-Bar Type	Shape	Shank Type Max. Overhang Length (L/D)	Min. Bore Dia. ϕA							Ref. Page for Toolholder	Summary							
				1	1.5	2	2.5	3	3.5	4			5	6	7				
Boring	TWB Twin Bar ➔ F12		Solid	●	●	●	●	●											
	TWBT Twin Bar ➔ F13		Solid	●	●	●	●	●											
	VNB-S System Tip-Bar ➔ F14		Solid	●	●	●	●	●	●										
	VNB System Tip-Bar ➔ F15		Solid		●	●	●	●	●	●	●								
	VNBX-S System Tip-Bar ➔ F20		Solid	●	●	●	●	●	●	●									
	HPB 2-Edges Tip-Bar ➔ F22		Solid L/D=-5		●	●	●	●	●	●	●								
	PSB-S Tip-Bar ➔ F24		Solid L/D=-5		●	●	●	●	●	●	●								
Back Boring	VNBT System Tip-Bar ➔ F15		Solid							●	●								
	HPBT 2-Edges Tip-Bar ➔ F22		Solid L/D=-5							●	●								
	PSBT-S Tip-Bar ➔ F24		Solid L/D=-5							●	●								

Toolholder Dimension

Solid Tip-Bar Type: Minimum cutting Dia. 1mm

