

Maximum Speed



Datum: 29.07.2026

1 Diamond | Carbide | Steel | Abrasive (FG | RA)

FG: All tools in the following groups: diamond, steel and abrasive tools with an FG shank - have been verified at a maximum speed of 400,000 rpm.

RA: All tools in the following groups – diamond, steel and abrasive tools with a RA shank – have been verified at a maximum speed of 40,000 rpm.

2 Polishers and brushes for prophylaxis and cups (FG | RA | HP)

Polishers: All instruments in the 'Polishers' group with FG, RA and HP shanks have been verified at a maximum speed of 20,000 rpm.

Prophylaxis brushes and cups with FG and RA shanks have been verified at a maximum speed of 10,000 rpm.

**3 Diamond | Carbide | Ceramic | Steel |
Abrasives & Grinding Wheels (HP) – maximum admissible RPMs**

HST						
Working part diameter	Diamond	Carbide & Ceramic	Steel	Abrasives & Grinding Wheels	Cutting discs (Diamond, SiC, ALOX)	Cutting discs Fibre-reinforced
≤ 040	60.000 min ⁻¹	60.000 min ⁻¹	60.000 min ⁻¹	60.000 min ⁻¹	35.000 min ⁻¹	-
041 - 042		50.000 min ⁻¹	50.000 min ⁻¹	45.000 min ⁻¹		-
043 - 044	-					
045	-					
046 - 047	-					
048 - 049	45.000 min ⁻¹	45.000 min ⁻¹	45.000 min ⁻¹	-		
050				-		
051 - 054	40.000 min ⁻¹	40.000 min ⁻¹	40.000 min ⁻¹	-		
055 - 059				-		
060				-		
061 – 063				-		
064	35.000 min ⁻¹	35.000 min ⁻¹	35.000 min ⁻¹	-		
065				-		
066 - 070			30.000 min ⁻¹	-		
071 - 080	30.000 min ⁻¹	30.000 min ⁻¹		-		
081 - 090	30.000 min ⁻¹	-	25.000 min ⁻¹	25.000 min ⁻¹		-
091 - 100		25.000 min ⁻¹	-	20.000 min ⁻¹		20.000 min ⁻¹
101 - 105	-		10.000 min ⁻¹	15.000 min ⁻¹		-
106 - 120	20.000 min ⁻¹	-				-
121 - 150		-	-			
151 - 200		-	-			
201 - 220	-	-	-		50.000 min ⁻¹	
221 - 250	-	-	-			
251 - 400	-	-	-	38.000 min ⁻¹		