

HOMMEL TESTER F1004-F4004 – Technical specifications

	HOMMEL TESTER F1004	HOMMEL TESTER F2004	HOMMEL TESTER F4004
Measuring range			
Distance C/Z axis	270 mm	350 mm	350 mm
Max. test diameter	300 mm	380 mm	380 mm
Max. measuring height	350 mm	350 mm	350 mm
Max. load	25 kg	80 kg	40 kg
Rotational axis (C axis)			
Table diameter	150 mm	250 mm	250 mm
Workpiece alignment	manual	manual	automatic
Roundness error	0,05 µm	0,05 µm	0,05 µm
+µm/mm measuring height	0,0005	0,0005	0,0005
Axial runout error	0,04 µm	0,04 µm	0,04 µm
+µm/mm radius	0,0005	0,0005	0,0005
Centring range	+/- 2 mm	+/- 2 mm	+/- 2 mm
Inclination range	+/- 0,6 °	+/- 0,6 °	+/- 0,6 °
Revolutions	1-10 r/min	1-10 r/min	1-10 r/min
Angle resolution	4096	4096	4096
Bearing	air	air	air
Vertical axis (Z axis)			
Adjustment traverse	-	-	-
Measuring traverse	350/550 mm	350/550 mm	350/550 mm
Drive	DC-Motor	DC-Motor	DC-Motor
Straightness error/100 mm	0,2 µm	0,2 µm	0,2 µm
Straightness error/meas. traverse	0,5 µm	0,5 µm	0,5 µm
Parallelism C-Z axis/meas. traverse	1,0 µm	1,0 µm	1,0 µm
Anti-collision safety stop	yes	yes	yes
Horizontal axis (R axis)			
Adjustment traverse	-	-	-
Measuring traverse	170 mm	220 mm	220 mm
Drive	DC-Motor	DC-Motor	DC-Motor
Straightness error/100 mm	0,5 µm	0,5 µm	0,5 µm
Straightness error/meas. traverse	0,8 µm	0,8 µm	0,8 µm
Straightness C-R axis	2 µm	2 µm	2 µm
Dimensions/Weight			
Length	630 mm	780 mm	780 mm
Width	400 mm	500 mm	500 mm
Height	845 mm	865 mm	865 mm
Weight (approx.)	176 kg	311 kg	311 kg

All accuracy data according to DIN 1101.

Subject to change without notice.

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