

HOMMEL TESTER T6000 – Technical specifications

Display	Rear-illuminated graphic display. Resolution 128x240 for graphical display of profiles. 16 lines of 40 characters.
Keyboard	Membrane keyboard for harsh operating conditions 2 function keys for direct commands 1 additional keyboard for alphanumeric input
Interfaces	2 V24/RS232 2 HW-Bus for wavesystem™ components
Floppy disk drive	3 1/2" for archiving of measuring programmes and results
Measuring programmes	10 programmes with direct selection, all functions may be individually programmed, additional programmes via floppy disk drive
Measuring method	Skidless/skid measurement, calibrated
Accuracy according to DIN 4772	Class 1
Measuring range / Resolution	± 8 µm / 1 nm ± 80 µm / 10 nm ± 800 µm / 100 nm ± 8000 µm / 1000 nm
Metric system	µm/pinch selectable
Filter	
Cut-offs	0.025 / 0.08 / 0.25 / 0.8 / 2.5 / 8.0 (mm) selectable -2 to +1 cut-off steps individual 0.001 to 80 in 0.001 increments
DIN 4768	RC, digitally calculated (mm) Cut-offs 0.025 / 0.08 / 0.25 / 0.8 / 2.5 / 8.0
DIN EN ISO 11562, Part 1 (50% Gauss)	Gauss (M1) Digital filter (mm) Cut-offs 0.025 / 0.08 / 0.25 / 0.8 / 2.5 / 8.0
DIN EN ISO 13565-1	2-fold Gauss (M2) Rk parameters Cut-offs 0.025 / 0.08 / 0.25 / 0.8 / 2.5 / 8.0
ISO 3274/11562	Short-wave cut-offs λs, individual λc/λs 30 / 100 / 300
Tracing speed Vt	lt – 0.05 / 0.15 / 0.5 mm/s or variable 0.01-2.0 mm/s in 0.01 increments
Tracing length lt	0.48 / 1.5 / 4.8 / 15 / 48 mm or variable 0.1-200 mm
Measuring length lm	0.40 / 1.25 / 4.0 / 12.5 / 40 mm or variable
Cut-off λ (mm)	0.08 / 0.25 / 0.8 / 2.5 / 8.0
Roughness parameters DIN EN ISO 4287	Ra; Rz; Rp; Rt; Rmax; Rpm; RPl; RSm; Rq; Rsk; Rku; Rmr; R3z; Rz-ISO
Rk parameters DIN EN ISO 13565	Rpk*; Rpk; Rk; Rvk; Rvk*; Mr1; Mr2
Profile parameters DIN EN ISO 4287	Pt; Pmax; Pz; Pa; Pp; Ppm; PPc; PSm; Pq; Psk; Pku; Pmr; Pdc
Waviness parameters DIN EN ISO 4287	Wt; Wmax; Wz; Wa; Wp; Wpm; WPc; WSm; Wq; Wsk; Wku
Motif- parameters DIN EN ISO 12085	R; Rx; AR; Nr; W; Wx; AW; Nw; Wte; Pδc (CR, CL, CF)
JIS parameters	JIS B 0601: Rz JIS B 0610: Wca, Wcm
Statistics	(n, x, S, R, max, min) 1 - 999 measurements
Operating modes	Roughness measurement, measuring run, remote, adjustment, programme creation, topography
Languages	German, English, French, Italian, Spanish, Swedish, Czech, Polish
Traverse units	waveline™ 20 / 60 / 120 / 200; optional LV20 – LV250
Integrated printer	Thermal printer, paper width 115 mm, print width 104 mm, resolution = 832 dots/line, automatic paper feed, alphanumeric printout of all measurement results and conditions with roughness profile (R), filtered (W) and unfiltered (P), bearing area curve
Printouts	Measuring conditions, date, time, measuring programme, parameters, R-profile, Rk-profile, material ratio profile, P-profile, W-profile
General data	
Power supply	100V-120V / 200V-240V selectable, 50-60 Hz, 235 VA
Operating temperature	-5°C to +40°C, relative humidity max. 85% without condensation
Storage temperature	-20°C to +50°C
Weight	approx. 12.5 kg
Dimensions H x L x I (mm)	238 x 376 x 343

Subject to change without notice.

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