

HOMMEL TESTER T1000 – Technical specifications

HOMMEL TESTER T1000	basic	top	wave
Display	Rear-illuminated graphic display 240 x 160 dots		
Power source	Ni-Metallhydrid-Battery, Rechargeable 24V/2,5 A, automatic select 90-240 V		
Battery capacity	approx. 500 measurements		
Operating temperature	0-50°C, max. 85% relative humidity		
Interfaces	V24, RS232		
Data storage	200 profiles, 999 measurements		
Measurement programmes	5 measurement programmes		
PCMCIA drive	-	integrated	Optional
Compact Flash Memory Card	-	integrated (32 MB)	Optional (32 MB)
Dimensions W x D x H	253 x 193 x 80 mm		
Weight	1,600 g		
Measurement type	Skid measurement	Skid/skidless measurement	
Total deviation as per DIN 4772	Class 1		
Measurement ranges/resolution	+/- 80 µm / 0.01 µm; +/- 320 µm / 0.04 µm		
Instrument set-up	automatic or manual		
Filter ISO 11562, Part 1 (50% Gauss) ISO 13565-1	Gauss (M1) digital filter (mm); 0.025 / 0.08 / 0.25 / 0.8 / 2.5 / 8 – selectable in 1 Cut-off stages M2 (Rk parameter) Polynomfit		
Traverse length It (mm) ISO 4288/12085 (Motif)	0.48 / 1.5 / 4.8 / 15; max. 16 variable 0.48 – 16 mm	0.48 / 1.5 / 4.8 / 15; max. 20 variable 0.05 - 20 mm	
Sampling length In ISO 4287	1.25 / 4.0 / 12.5		
Individual traverse length lr, lw, lp ISO 4287	1 – 5 selectable		
Traverse speed (mm/s)	0.15 / 0.5 / 1.0	0.1 / 0.15 / 0.5 / 1.0; variable 0.05 – 3.0	
Cut-off λ (mm)	0.08 / 0.25 / 0.8 / 2.5 / 8.0		
Bandpass filter Lc/Ls ISO 3274	100; 300		
Roughness parameters ISO 4287	Ra, Rz, Rmax, Rt, Rq, R _{Pc} , R _{Sm} , R _{M(r)} (c), Rp, Rv, R _{pm} , R _{3z} , Rz-ISO, Rsk, Rku, Rδc, Rmr%, Rmrµm; Rdq		
Core roughness parameters ISO 13565	Rk, Rpk, Rvk, Mr1, Mr2, Rpk*, Rvk*, Vo		
Waviness parameters ISO 4287		Wa, Wz, Wmax, Wt, W _{Pc} , W _{Sm} , Wq, Wp, Wv, W _{pm} , Wsk, Wku, Wdq	
Profile parameters ISO 4287	Pa, Pz, Pmax, Pt, P _{Pc} , P _{Sm} , P _{m(r)} (c), Pp, Pv, P _{pm} , Psk, Pku, Pq, Pδc, Pmr%, Pmrµm, Pdq		
Motif parameters ISO 4287	R, Rx, AR, Pδc (CR, CL, CF), Nr, Nw	W, Wx, Wte, AW	
Roughness parameters JIS B0601	Rz-JIS		
Statistic	999 measurements: Range, Xcross, Max., Min., Standard deviation		
Languages	German, English, French, Spanish, Italian, Czech, Polish, Swedish		
Measuring system	µm / µinch selectable		
Tolerance limits upper/lower	adjustable for all parameters		
Integrated printer			
Vertical magnification	automatic up til max. 50,000-fold		
Horizontal magnification	10 / 20 / 40 / 50 / 100 / 200 / 400-fold traverse assigned		
Paper	Thermal paper 40-50 g/m ² - 57,5 mm width, length 10 m		
Printing speed	30 mm/s		
Resolution	8 dots/mm		
Traverse unit			
	LV16	waveline™ 20	
Types of pick-up	Skid pick-up	Skidless pick-up	
Traverse length	16 mm	20 mm	
Pick-up direction	axial, perpendicular to axis traversing	axial	
Dimensions L x W x H	134 x 45 x 47 mm	242 x 54 x 74 mm	
Weight	250 g	1,100 g	
Working area	over 360°		
Operating controls	integrated start key		
Surface pick-up			
	T1E	TKL 300L	
Measuring range	80 µm	600 µm	
Diamond stylus tip	5 µm; 90°	5 µm; 90° large diamond	
Skid radius	lengthways 30 mm / transversal 1,9 mm	-	
For holes from	4 mm / depth 20 mm	4 mm / depth 33 mm	
Dimensions D/L	D 10 mm / L 80 mm	D 13 mm / 85,1 mm	
Weight	12 g	15 g	

Subject to change without notice. 04/2003

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