HOMMEL ETAMIC

Technical data

Waveline W5 and W10

Model	W5	W10
Measuring principle	profile method, calibrated	profile method, calibrated
Total deviation as per DIN 4772	Class 1	Class 1
Traverse unit	integrated into basic unit	LV17
Suitable probes	skid probe	skid probe
Tracing length	17 mm	17 mm
Probing direction	axial	axial, transverse probing
Probing range	over 360°	over 360°
Control elements	integrated start button	integrated start button
Probe (standard)	T1E, 2 µm/90°	T1E, 2 µm/90°
Measuring range/resolution	±100 µm/6 nm[1)]	±100 µm/6 nm[1)]
Traverse length lt		
according to ISO/JIS	1.5 / 4.8 / 15 mm	1.5 / 4.8 / 15 mm
according to Motif	0.64 / 3.2 / 16 mm	0.64 / 3.2 / 16 mm
max.	17.5 mm	17.5 mm
Cut-off according to EN ISO 4288/JIS B601	0.25 / 0.8 / 2.5 mm	0.08 / 0.25 / 0.8 / 2.5 / 8 mm
Sampling length lr	1 to 5 selectable	1 to n (max. taverse length)
Filter	DIN EN ISO 11562: Gauss filter DIN EN ISO 16610-21: Gauss filter DIN EN ISO 13565-1: filter for Rk parameters DIN EN ISO 3274: λs filter	DIN EN ISO 11562: Gauss filter DIN EN ISO 16610-21: Gauss filter DIN EN ISO 13565-1: filter for Rk parameters DIN EN ISO 3274: λs filter
Measurement speed vt	0.15 / 0.5 / 1 mm/s; return speed 3 mm/s	0.15 / 0.5 / 1 mm/s; return speed 3 mm/s
Display	2" TFT color display	4.3" TFT color display with touchscreen function
Roughness and profile parameters	23 parameters	40 parameters
EN ISO 4287	Ra, Rz, Rmax, Rt, Rq, RSm, Rmr(c)[%], Rmr(c)[µm], Rp	Ra, Rz, Rmax, Rt, Rq, RSm, Rc, Rp, Rv, Rsk, Rku, Rdc, Rdq, RzISO, Rmr, Rmr(c), C(Rmr)
EN ISO 13565-1, -2	Rk, Rpk, Rvk, Mr1, Mr2, A1, A2	Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, Rpk*, Rvk*, Vo0.001
Motif EN ISO 12085	R, AR, Rx	R, AR, Rx, CR, CF, CL, Nr
ASME B46.1	Rpm	Rp, Rpm
JIS B601 (2001)	Rz-JIS	Rz-JIS
EN 10049	RPc	RPc
Daimler MBN 31007	R3z	R3z
Specific parameters	–	Sealing parameter Rmr (factor*parameter)
Waviness parameters		
EN ISO 4287	–	–
Motif EN ISO 12085	–	–
Battery (basic unit)	Lithium-ion battery, up to 800 measuring cycles (no printout, lt 4.8 mm), full charge approx. 4 h	Lithium-ion battery, up to 800 measuring cycles (no printout, lt 4.8 mm), full charge approx. 4 h
Measuring programs	5	7 plus 1 for system verification
Data memory (per measuring program)	max. 2000 measuring data records/parameters and 500 profile data records	max. 2000 measuring data records/parameters and 500 profile data records
Interfaces	USB, *Bluetooth*® wireless technology	USB, *Bluetooth*® wireless technology
Dimensions (L x W x H), weight		
Basic unit	approx. 50 x 63 x 128 mm, 270 g	227 x 225 x 70 mm, 980 g
Traverse unit	integrated into basic unit	LV17: 151 x 50 x 55 mm, 275 g
Printer	optional printer P5	integrated
Printing method	static thermal print lines	static thermal print lines
Paper/printing width	57 ±0.5 mm/48 mm	57 ±0.5 mm/48 mm
Paper roll	Ø = 31 mm	Ø = 31 mm
Resolution	8 points/mm, 384 points/line	8 points/mm, 384 points/line
Printing functions	measuring conditions, parameters, roughness profile, Abott curve	measuring conditions, parameters, roughness profile, Abott curve, statistics
Battery	battery pack, 1500 mAh	via basic unit
Interfaces	*Bluetooth*® wireless technology	via basic unit

Power supply: 100-240 V AC 50/60 Hz; operating temperature: +5° C to +40° C, relative humidity max. 85 %, without condensation (Δ T 2° C/h); storage temperature: -20° C to +50° C.

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