

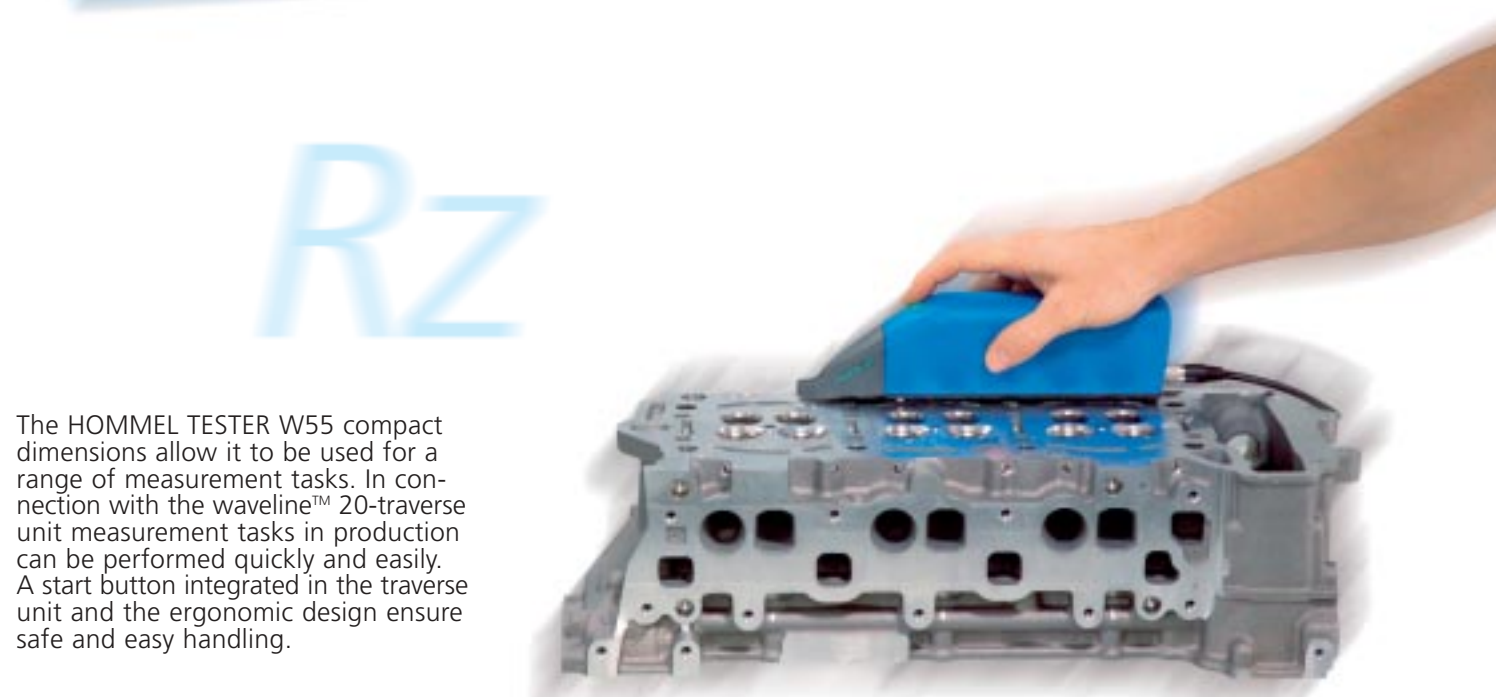
Roughness measuring station HOMMEL TESTER W55 R20-300

Art. 10017076

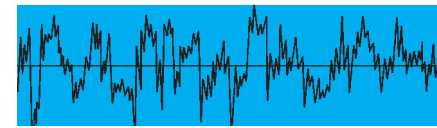
Compact measuring station configuration for small to medium-sized workpieces for roughness, profile and waviness measurements.

Scope of delivery

- Evaluation unit HOMMEL TESTER W55
- Granite base with T-groove
Dimensions 400 x 280 mm
- Measuring stands
 - Vertical adjustment range 300 mm
 - Tilt direction $\pm 45^\circ$
- waveline™ 20-traverse unit
 - Traverse length: 20 mm
 - Guide accuracy 0.2 $\mu\text{m}/20\text{ mm}$
 - Motorised probe positioning with autostop in probe zero position
 - Internal alignment range $\pm 2^\circ$
 - Integrated start button
- Roughness standard RNDH 2
- Pick-up set TKU 300/600
 - Measuring range $\pm 300\ \mu\text{m}$ (with TS2 $\pm 600\ \mu\text{m}$)
 - incl. 4 exchangeable probe arms



The HOMMEL TESTER W55 compact dimensions allow it to be used for a range of measurement tasks. In connection with the waveline™ 20-traverse unit measurement tasks in production can be performed quickly and easily. A start button integrated in the traverse unit and the ergonomic design ensure safe and easy handling.

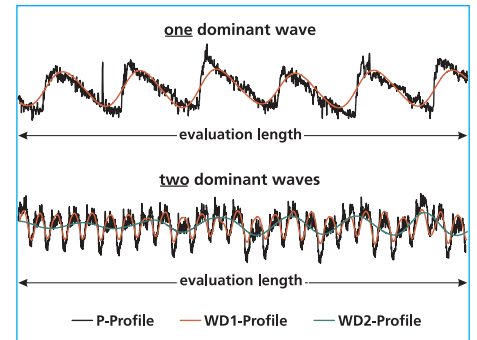


Options & technical data

W55 software option Dominant Waviness

Art. 10012251

According to VDA 2007, evaluation of form deviations (waviness) on surfaces. Calculated parameters:
WD1t; WD1p; WD1z; WD1a; WD1q; WD1sk; WD1Sm; WS1dq; WD1lw; WD1ku; WD1Pc; WD2t; WD2p; WD2z; WD2a; WD2q; WD2sk; WD2Sm; WD2dq; WD2lw; WD2ku; WD2Pc



W55 software option qs-STAT®-interface

Art. 10012252

Q-DAS ASCII transfer format for local or central storage of results and data in .DFQ-format.

W55 option WLAN Adapter-Set Server

Art. 10012250

Wireless LAN Adapter-Set for wireless connection of the HOMMEL TESTER W55 to a central server, consisting of a USB adapter and an access point.



W55 option WLAN Adapter-Set Printer

Art. 10018677

Wireless LAN Adapter-Set for wireless connection of the HOMMEL TESTER W55 to a printer, consisting of a USB adapter and a wireless printer server.

Technical data HOMMEL TESTER W55

Measurement principle	Tracing method calibrated
Total deviation acc. to DIN 4772	Class 1
Measuring ranges/resolution	$\pm 8\ \mu\text{m}/1\ \text{nm}$; $\pm 80\ \mu\text{m}/10\ \text{nm}$; $\pm 400\ \mu\text{m}/50\ \text{nm}$; $\pm 800\ \mu\text{m}/100\ \text{nm}$; $\pm 8000\ \mu\text{m}/1000\ \text{nm}$
Filter: cut-off lengths	0.025; 0.08; 0.25; 0.8; 2.5; 8 (mm); selectable in -2 to +1 cut-off steps; variable from 0.001 to 80 in steps of 0.001
DIN 4768	RC, digitally calculated [mm], cut-off lengths 0.025; 0.08; 0.25; 0.8; 2.5; 8
DIN EN ISO 11562, Part 1, (50 % Gauss)	Gauss (M1) digital cut-off lengths 0.025; 0.08; 0.25; 0.8; 2.5; 8
DIN EN ISO 13565-1	2x Gauss (M2) Rk-parameter, cut-off lengths 0.025; 0.08; 0.25; 0.8; 2.5; 8
ISO 3274/11562	Short-wave cut-off length λ_s ; selectable in steps λ_c / λ_s 30; 100; 300
ISO 3274/11562	Form filter λ_f
Traverse speed vt	It – assigned 0.05; 0.15; 0.5 mm/s; variable 0.01 - 2.0 mm/s in 0.01 steps
Scan distances lt	0.48; 1.5; 4.8; 15; 48 mm or variable from 0.1 – 120 mm
Traverse lengths lm	0.40; 1.25; 4.0; 12.5; 40 mm or variable cut-off lengths
Cut-off λ [mm]	0.08; 0.25; 0.8; 2.5; 8.0
Roughness parameters: DIN EN ISO 4287	Ra; Rz; Rmax; Rt; Rq; Rsk; lmo; lo; Rdq; da; ln; La; Lq; Rz-ISO; R3z; Rpm; Rp3z; R3zm; Rp; D; RPC; RSm; Rpm/R3z; lr; Rku; tpif; tpia; tpip; tpic; Rt/Ra; Rz1; Rz2; Rz3; Rz4; Rz5; Rmr; Rmr%; Api
Core roughness parameters: DIN EN ISO 13565	Rpk*; Rpk; Rk; Rvk*; Rvk; Mr1; Mr 2; A1; A2; Vo(70%)0.01* Rv/Rk
Profile parameters: DIN EN ISO 4287	Pt'; Pp; Pz; Pa; Pq; Psk; PSm; Pdq; lp; Pku; tpaf; tpa; tpab; tpac; Pmr0; APa; APa%; Pmr; Pmr%
Waviness parameters: DIN EN ISO 4287	Wt'; Wp; Wz; Wa; Wq; Wsk; WSm; Wdq; lw; Wku
Motif parameters: DIN EN ISO 12085	R; Rx; AR; Nr; W; Wx; AW; Nw; Wte; Tpa(CR, CL, CF)
Roughness parameters: JIS B – 0601	Rz-JIS; Rmax-JIS
Statistics	(n, x, S, R, max, min) per measuring program from 1 to 999 measurements
Screen and print outputs	Surface characteristic values; statistics; profile position; P-, R-, W-, K-profile; material ratio; measuring conditions; tolerances
Peripheral connections	Linear traverse unit: waveline™ 20; 60; 120; LV16; Measuring columns: wavelift™ 400; 2 x USB on the front, 2 x USB on the rear, LAN 10/100 (RJ45); RS232 (9-PIN-D-Sub)
Power supply	100 V – 240 Volt, 50-60 Hz, 160 VA
Operating temperature without condensation	+10°C to +45°C, relative humidity max. 85%; ΔT 2°C/h
Storage temperature	-20°C to +50°C