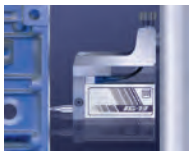
TESA MICRO-HITE 350 / 600 / 900



TESA IG-13

Autonomous instruments for measurement in one or two coordinate directions of inside dimensions, outside, step, height, depth and distance on geometric elements with flat, parallel or cylindrical surfaces.

The culmination point is automatically entered on the bores and shafts - With memory function "max.", "min." and "max.-min." as dynamic measurement. The use of digital probe TESA IG-13 can also capture perpendicularity, rectitude and parallelism differences, as well as errors of radial and axial runout. Operating results in accordance with ISO 1101.

- State-of-the-art concept associated with a high-quality design is the fruit of years of experience in the manufacture of electronic height gauges.
- Ideal for dimensional inspection close to the manufacturing cell. No cumbersome cables to clutter up the working area.
- Fast, simple and reliable probing of the workpiece or holes, especially.
- 3 main gauges available with either a 365, 615 or 920 mm measuring span.
- Numerical display to 0,0005, 0,001, 0,01 and 0,1 mm, or equivalent inch units.
- Extremely accurate measuring of deviations from length, straightness and perpendicularity due to the automatic correction of the bias errors through CAA (Computer Aided Accuracy).
- Coefficient of linear expansion identical to steel (11,5 x 10^{-6} K^{-1}).
- POWER PANEL for value processing and output with interactive display to guide the operator.
- No manual calculation.
- 99 workpiece oriented measurement cycles, programmable. Each cycle includes a number of 64 features with related limits of size.
- Built-in printer for result output or possible use of an external printer unit to get a hard copy in A4 format.
- RS232 data output.
- Every height gauge comes with a SCS calibration certificate.

Factory standard

Incremental glass scale with reference point, dividing period of 20 µm. Opto-electronic value capture (TESA patent).

Fixed zero

1,6 ± 0,25 N

300 mm/s 12 in/s

Air cushion usable for easy move of the height gauge over the surface plate.

RS232, opto-electronic

Rechargeable batteries, 6 V, 3,0 Ah or mains adapter

≈ 12 hours for one battery pack; ≈ 2 hours for the pump used to form the air cushion

Linear expansion 11,5 x 10^{-6} K^{-1}

IP40 (IEC 60529)

Net weight (w/o panel nor battery pack) Main gauges 350: 33 kg 600: 38 kg 900: 45 kg

SCS calibration certificate

TESA MICRO-HITE – Power and performance

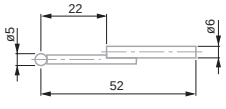
No		mm	in	
00730033	SET MICRO-HITE 350	365	14	
00730034	SET MICRO-HITE 600	615	24	
00730035	SET MICRO-HITE 900	920	36	
CONSISTING OF:		**350**	**600**	**900**
00760141	Rechargeable battery pack	●	●	●
00760142	Electric pump for creating the air-cushion beneath the gauge base, already mounted	●	●	●
00760143	Standard probe insert holder	●	●	●
00760150	Master piece for establishing the probe constant, nominal dimension to 20,000 mm / 0.78740 in	●	●	●
00760151	Dust cover for TESA MICRO-HITE 350	●		
00760152	Dust cover for TESA MICRO-HITE 600		●	
00760153	Dust cover for TESA MICRO-HITE 900			●
00760227	Standard probe insert with shank and 5 mm dia. ball tip in tungsten carbide	●	●	●
04761054	Mains adapter 100 ÷ 200 VAC / 50 ÷ 60 Hz	●	●	●
04761055	Cable EU for mains adapter	●	●	●
OPTIONAL ACCESSORIES:				
00760144	Add-on fine adjust device for extra fine movement of the measuring head, complete			
00760157	Rechargeable battery, 6V			
04761023	Cable: miniDIN 8p/m to Sub-D 9p/f, 2m for TT10 and MICRO-HITE manual versions 10/11/12			
04761056	Cable US for mains adapter			

Technical Data

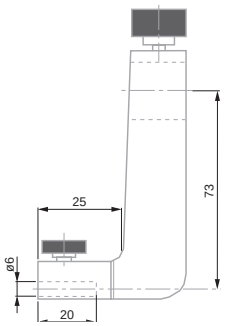
	Models		**MICRO-HITE 350**	**MICRO-HITE 600**	**MICRO-HITE 900**
		mm in	365 14	615 24	920 36
	With standard accessory	mm in	0 ÷ 520 0 ÷ 20	0 ÷ 770 0 ÷ 30	0 ÷ 1075 0 ÷ 42
	With probe holder No. 00760057	mm in	0 ÷ 575 0 ÷ 22	0 ÷ 825 0 ÷ 32	0 ÷ 1130 0 ÷ 44
	With probe holder No. S07001622	mm in	0 ÷ 745 0 ÷ 29	0 ÷ 995 0 ÷ 39	0 ÷ 1300 0 ÷ 51
	With standard accessory		(2 + 3 L) µm (L in m) (0.0001 + 0.000003 L) in (L in in)		
	With standard accessory		2 σ = ≤ 1 µm / ≤ 0.00005 in		
	Frontal, mechanical	µm in	7 0.00028	9 0.00035	11 0.00043
	Frontal and lateral with TESA IG-13 probe	µm in	6 0.00024	8 0.00031	10 0.00039

Standard Accessories

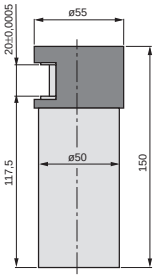
00760227

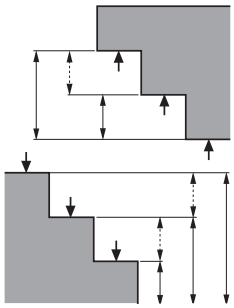


00760143

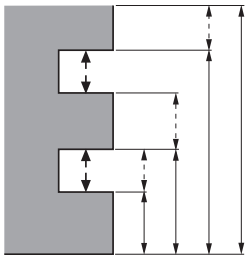


00760150

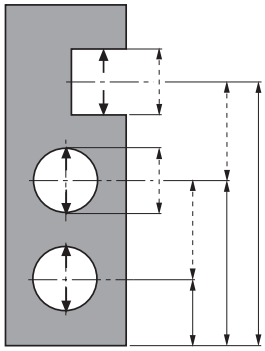




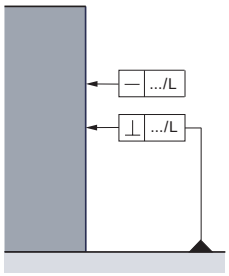
One-dimensional measurement



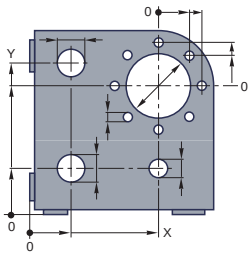
One-dimensional measurement



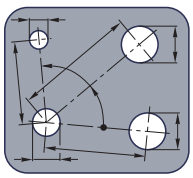
One-dimensional measurement



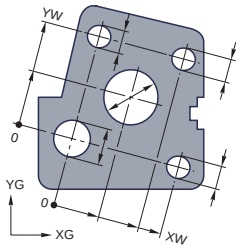
Programme functions for the detection of form and position errors.
With use of a TESA IG-13 digital probe.



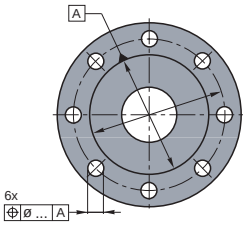
Two-Dimensional Measurement



Two-Dimensional Measurement



Two-Dimensional Measurement



Two-Dimensional Measurement

Main Display 12,7 x 6,4 mm, 6,3 x secondary display 4,2 mm.

Conversion mm/in

Through TESA MICRO-HITE

IP40 (CEI 60529)

Dual LCD display size 128 x 63 mm.
- Measurement of lengths value display (7 segments / sign) and function symbols (top).
- Measurement of squareness / rectitude display values and symbols (function keys, control by the operator display (points)
- Measured: 7 decades Reduce sign.

PRESET function for entering a given value.
Continuous displaying.
Manual or automatic triggering of data transfer.
Output of predefined report with headers in 5 languages plus A4 format using an external printer unit.

Control Panel for TESA MICRO-HITE 350 / 600 / 900

		mm	in
00760163	Power Panel	0,0005 / 0,001 / 0,01 / 0,1	0.00002 / 0.0001 / 0.001 / 0.01 / 0.1
OPTIONAL ACCESSORY:			
04765008	Thermal paper, 57 mm wide		