



TESA MICRO-HITE Plus M 350 / 600 / 900

All TESA MICRO-HITE plus M height gauges are unique in that they have exceptional metrological capabilities and can be used intuitively with ease.

This method allows form and position error to be easily and quickly detected by means of a lever-type dial indicator - Check deviations from straightness or parallelism according to ISO 1101 when used in conjunction with TESA IG-13 linked to the Power panel plus M.

- Modular design descending from the successful TESA MICRO-HITE dynasty.
- Also equipped with the unique rotary power control located close to the rugged base. This feature serves for guiding the column that moves on an air cushion, commanding fast motion of the probe insert and triggering all main measuring functions. Its intuitive use allows accurate, easy handling of the column. A simple rotation causes the measuring head to move rapidly, approach the contact point quickly or slowly, probe up- or downward or execute bore measurement.
- Available in three different sizes with a measuring span of 365, 615 or 920 mm.
- Choice between two control panels for value processing and output.
- Metric and inch LC display with a resolution to 0,0001 and 0,001 mm, or inch _ equivalent.
- Autonomous run through batteries. No cumbersome cable. _
- Built-in air bearing for easy displacement over the surface plate.
- Motorised measuring head for fast, accurate probing at each contact point with a constant measuring force.
- TESA µ system for matchless reliability and simplicity.
- High precision through CAA (Computer Aided Accuracy). All correction values stored in the memory still add to the mechanical precision.
- Coefficient of linear expansion matching that of steel $(11,5 \times 10^{-6} \text{ K}^{-1})$.
- _ RS232 data output.
- _ SCS calibration certificate delivered with every height gauge.





TESA µ System



Perpendicularity using TESA IG-13



Perpendicularity using TESATAST





Incremental

glass scale with opto-electronic data acquisition. Grating period: 20 µm. Op-to-electronic input (TESA Patent)



Built-in air-bearing for easy move of the column over the surface plate

Measuring head mounted on a ball-bearing. Motorised head displacement at a varying speed from 7,5 up to 40 mm/s. Manual displacement: ≤ 600 mm/s. Automatic value capture with a constant measuring force.



≈ 12 h after 8 h of charging

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Fixed zero



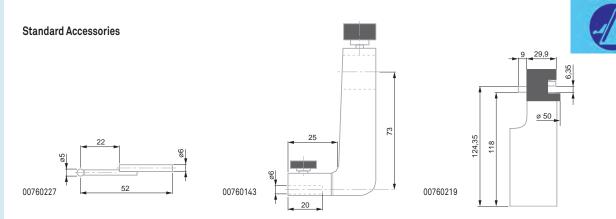
Linear expansion 11,5 x 10⁻⁶ K⁻¹ (IP40 (CEI 60529) Net weight without desks or block batteries. Basic instrument 350: 33 kg, 600:38 kg, 900:45 kg Calibration certificate SCS

No			D			
		mm	1	in		
00730063	Set MICRO-HITE plus M 350	365	,	14		
00730064	Set MICRO-HITE plus M 600	615	,	24		
00730065	Set MICRO-HITE plus M 900	920)	36		
CONSISTING	OF:	350	600	900		
00760141	Rechargeable battery pack	٠	٠	•		
00760142	Electric pump for creating the air-cushion beneath the gauge base, already mounted	•	•	٠		
00760143	Standard probe insert holder	٠	٠	•		
00760219	Master piece for establishing the probe constant, nominal dimension to 6,350 mm / 0.250 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	•	•	•		
04761056	Cable US for mains adapter	•	٠	•		
OPTIONAL ACCESSORY:						
00760157	Rechargeable battery, 6V					

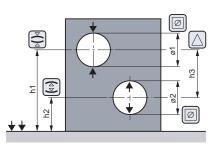
Technical data

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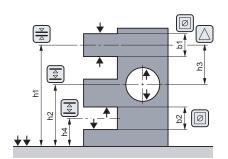
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	Models		MICRO-HITE plus M 350	MICRO-HITE plus M 600	MICRO-HITE plus M 900
		mm in	365 14	615 24	920 36
	With standard accessory	mm in	0 ÷ 520 0 ÷ 20	0 ÷ 770 0 ÷ 30	0 ÷ 1075 0 ÷ 42
	With probe insert holder No. 00760057	mm in	0 ÷ 575 0 ÷ 22	0 ÷ 825 0 ÷ 32	0 ÷ 1130 0 ÷ 44
	With probe insert holder No. S07001622	mm in	0 ÷ 745 0 ÷ 29	0 ÷ 995 0 ÷ 39	0 ÷ 1300 0 ÷ 51
(With standard accessory		(1,9 + 1,5 L) μm (L in m) (0.0001 + 0.0000015 L) in (L in in)		
Ð	With standard accessory		On flat surfaces: $2 \sigma = \le 0.5 \ \mu\text{m} \ / \ \le 0.000025 \ \text{in}$ Into bores: $2 \sigma = \le 1 \ \mu\text{m} \ / \ \le 0.00005 \ \text{in}$		
	Frontal, mechanical Frontal and lateral using TESA IG-13	µm in	5 0,00020	7 0,00028	9 0,00035



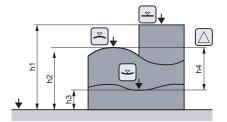




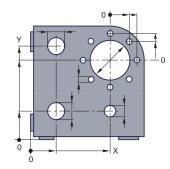
Measurement with change of the probe direction Probe constant included, considering the culmination point



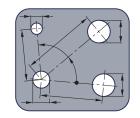
Measurement with change of the probe direction Probe constant included, disregarding the culmination point



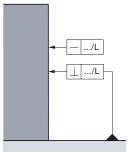
Measurement without change of the probe direction Probe constant excluded



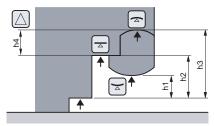
Two-Dimensional Measurement



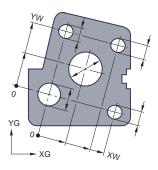
Two-Dimensional Measurement



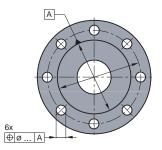
Measurement of form and position errors



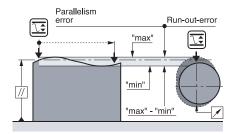
Measurement without change of the probe direction Probe constant excluded



Two-Dimensional Measurement



Two-Dimensional Measurement

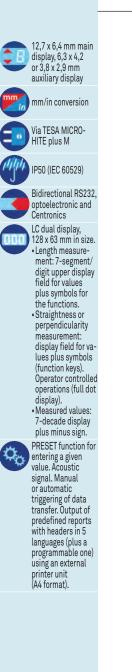


Measurement of form and position errors

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PRECISION ME





Control Panels for TESA MICRO-HITE Plus M 350 / 600 / 900



No	•					
		mm	in			
00760220	Power Panel for MICRO-HITE plus M with printer	0,0001/0,001/0,01	0.00001/0.0001/0.001			
00760221	Power Panel for MICRO-HITE plus M	0,0001/0,001/0,01	0.00001/0.0001/0.001			
OPTIONAL ACCESSORIES:						
04765008	Thermal paper, 57 mm wide					
04761052	Extension cable, Sub-D 9p/f to 9p/m, 2 m					
04761063	Sub-D 9p/m to USB cable, 2 m					



