

MICRO-HITE[®] 100 Height Gage



The MICRO-HITE 100 is a motorized mini height gage that features an incremental measuring system and switchable measuring force for accurate, repeatable measurements. It is ideal for measuring small parts and materials such as plastics.

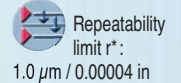
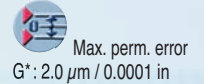
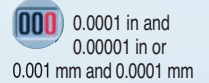
The MICRO-HITE 100 measures lengths in the form of internal, external, height, depth, and distance dimensions. The position and diameter of bores is output in one coordinate. This versatile height gage also automatically records the culmination point of bores and shafts. A built-in temperature sensor assures accuracy.

- Ideal for workpiece inspection close to the production area.
- 4 in / 100 mm measuring span.
- 0.0001 in and 0.00001 in or 0.001 mm and 0.0001 mm digital display.

- Max. perm. error of only 2 μm due to the self-correction of the bias errors through CAA (Computer Aided Accuracy).
- Built-in temperature sensor so that the coefficient of linear expansion of both the height gage and steel are matched ($11.5 \times 10^{-6} \text{ K}^{-1}$).
- Motorized measuring head for fast probing at each measuring point.
- Automatic value capture controlled over the stability of the measuring force and the measured values.
- Constant measuring force using the motor-driven actuator. Switchable.
- No manual calculation.
- RS-232 data output with direct linkage to TESA PRINTER SPC.
- Memory for the storage of up to 99 single values.

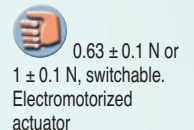
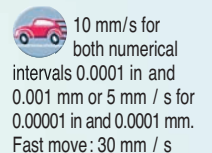
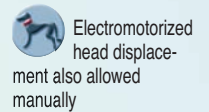
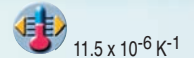
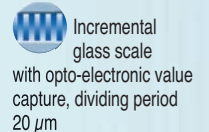
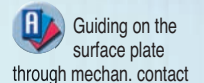


General





* With use of the standard accessory


TESA MICRO-HITE 100 main instrument





Control panel


 LCD Display
field: 2.5 in x 1.3 in /
67 x 33 mm.
Display type:
3-line display (alphanu-
meric, 7-segment / sign)
plus graphical symbols.
Value display: 7-digit
plus minus sign.
First and secondary
display have 7 or
4 signs

 Value display:
10 x 4.9 mm,
auxiliary displays 1 and
2: 7.5 x 3.7 mm or
5 x 2.5 mm.

 Keyboard with
20 function keys


 PRESET
function to enter
a known value
Acoustic signal
7 languages available for
the report headings

 RS-232,
opto-electronic
and bidirectional


 Main adapter
No. 47.61054:
110 to 240 Vac / 50 to 60
Hz / 6.6 Vdc / 750 mA

Additional data

 41 °F to 104 °F
5 °C to 40 °C


 14 °F to 140 °F
-10 °C to 60 °C

 80%, with no
condensation

 See drawings

 Net weight:
15 lbs


 Protection IP 50
(IEC 60529)

 EN 50081-1,
EN 50081-2,
EN 50082-1, EN 50082-2

 Transport
packing

 Identification
number

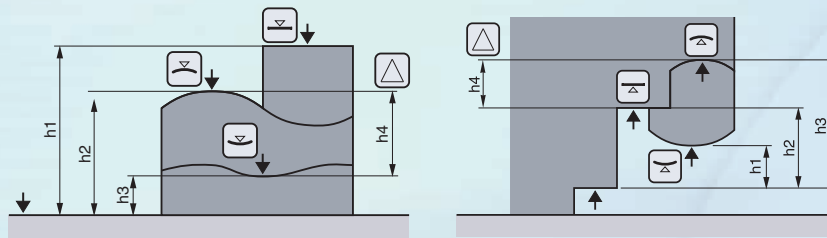
 Inspection
report

 Declaration
of conformity

 SCS calibration
certificate

MICRO-HITE® 100 – Measuring Capabilities

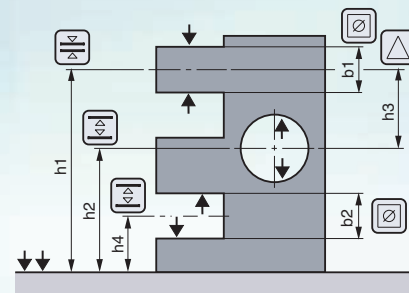
Without change of the probe direction
Probe constant excluded



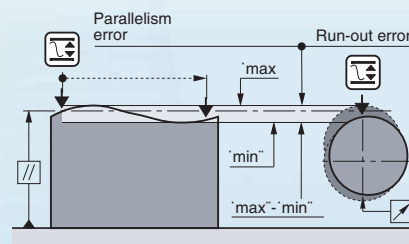
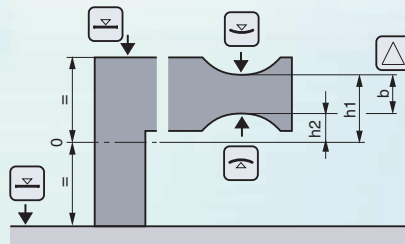
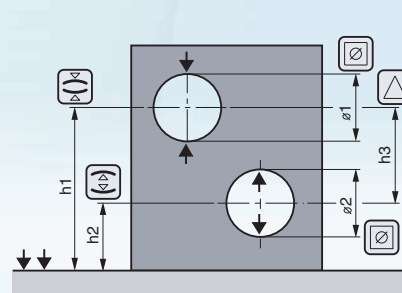
With change of the probe direction

Probe constant included

– without storage of the culmination point



– with storage of the culmination point



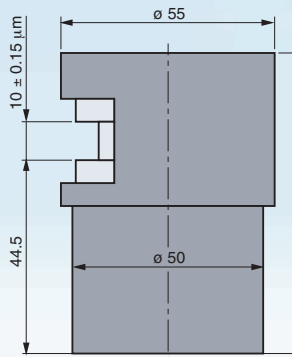


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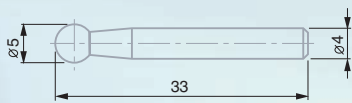
Consisting of the following components:



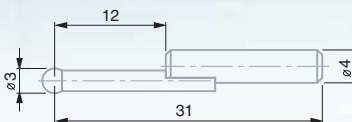
1 MICRO-HITE 100 main instrument	4	100	
1 Control panel to be connected to MICRO-HITE 100		0.0001	0.001
1 Connecting cable MICRO-HITE 100 to panel		0.00001	0.0001
1 Insert with a 5 mm dia. tungsten carbide ball tip			
1 Master piece for determining the probe constant, 0.39370 in / 10 mm (07.60192)			
1 Main adapter, 110 to 240 Vac / 50 to 60 Hz			



07.60192



07.60200



07.60201

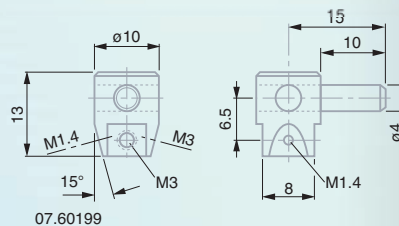


Optional Accessories



07.60201	27309	Insert with a 3 mm dia. ball tip
07.60200	27308	Insert with a 5 mm dia. ball tip
07.60199	27309	Universal fixing shank with M1.4 and M2.5 threads (2 mm x 2 mm) for the measuring inserts
47.61052	27311	RS-232 Connecting cable, MICRO-HITE100 to TESA PRINTER
07.60202	27310	Rechargeable battery
47.61054	88187	Main adapter, 110 to 240 Vac / 50 to 60 Hz

For TESA PRINTER SPC, cables and others: see section L



07.60199

