

## Height gauges.



| MSA    | Measuring range     | Degree of protection | Kg     |
|--------|---------------------|----------------------|--------|
| 15.491 | 0 - 100 mm / 0 - 4" | IP50                 | 20.000 |

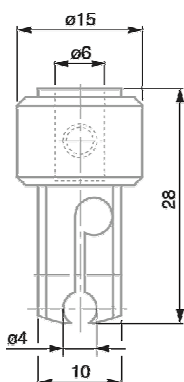
μHITE 160 height gauge.

Compact design with measuring stand included. The perfect combination for small parts and when a low measuring force is required. The whole system provides the best solution for measuring straightness, flatness and parallelism or inspecting axial and radial runouts, depending on the chosen tool configuration.

Granite measuring table 200 x 300 x 50 mm (W x D x H) ; dull-chrome plated steel column Ø 50 x 300 mm, hardened and ground ; fixing for measuring inserts Ø 6 mm x length 10 mm.

### Features :

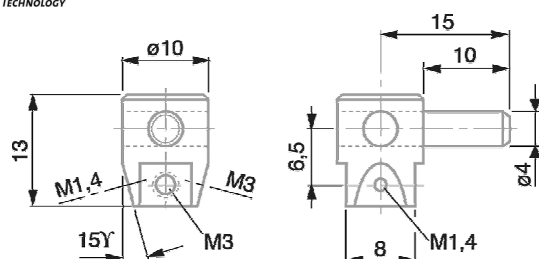
- Ideal for work piece inspection close to the production area
- Application range from 0 to 160 mm or 0 to 6.3"
- Digital display : 0.001 mm and 0.0001 mm or 0.0001 in and 0.00001"
- Maximum permissible error as low as 2 µm (or 1 µm when checking coaxiality) thanks to the automatic correction of systematic errors by CAA (Computer Aided Accuracy)
- Integrated temperature sensor so that the coefficient of linear expansion of each gauge unit matches that of steel (11,5 x 10<sup>-6</sup> K<sup>-1</sup>)
- Motorised measuring head for fast probing at each point
- Automatic value capture, controlled over the stability of the measuring force, but also all measured values
- Constant measuring force through the motor-driven actuator. Switchable
- No manual calculation needed
- RS232 data output with direct connection to TESA PRINTER SPC
- Memory capacity for 99 single values.



### MSA

15.519

Radial probe holder with mounting bore Ø 4 mm.



### MSA

15.460

Universal probe insert holder with clamping shank Ø 4 mm (to be used with radial probe holder MSA15.519).

M1.4 and M3 threads (2x2) for measuring inserts.



MSA

15.470

Foot switch for triggering data transfer or letting a measuring function be repeated.  
Jack plug connector, 1.8 m (TESA SPC PRINTER printer - TESATRONIC TT display units).



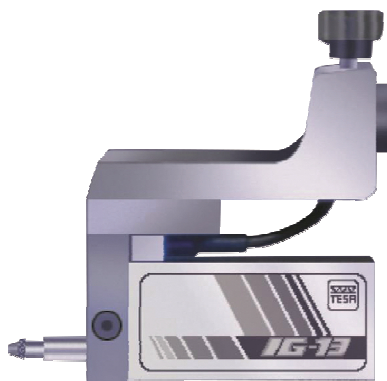
MSA

Length

15.488

2 m

Standard Sub-D connection cable between TESA PRINTER SPC and measuring instruments TESA-μHITE, TESA-HITE and TESA MICRO-HITE.  
Sub-D 9p/m connector.



MSA

15.498

IG-13 probe set for perpendicularity measurement.

*Composed of :*

- 1 IG-13 electronic probe
- 1 fixing device for IG-13 probe.



| MSA    | Model   | Measuring range      |
|--------|---------|----------------------|
| 15.495 | 350     | 0 - 520 mm / 0 - 20" |
| 15.497 | (1) 600 | 0 - 770 mm / 0 - 30" |

MICRO-HITE 350 / 600 new height gauge.

This manual 2D height gauge is mainly used in workshops and offers comfortable and accurate positioning, which is very useful during the measurement of small elements.

Thanks to its robustness, this instrument is very reliable and guarantees excellent repeatability and precision under any circumstances, but especially when used with extensions and small probes.

The interchangeable battery makes it possible to easily handle the instrument in places without access to power supply.

**Features :**

- Rugged nickel plated base with bottom face including 3 resting points finely lapped
- Application range 0 - 520 mm or 0 - 20" (MSA15.495) ; 0 - 825 mm or 0 - 30" (MSA15.497)
- 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
- Fast, simple and reliable probing of the workpiece or holes, especially
- 2 main gauges available with either a 520 or 770 mm measuring span
- Numerical display to 0.0001, 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)
- Degree of protection IP20
- Maximum permissible errors  $2+2L/1000$
- Maximum permissible perpendicularity error : frontal  $7\text{ }\mu\text{m}$ , lateral  $7\text{ }\mu\text{m}$
- Measuring force  $1.6 \pm 0.25\text{ N}$  (to the triggering point of the seizure)
- Coefficient of linear expansion identical to steel ( $11,5 \times 10^{-6}\text{ K}^{-1}$ ).

**2D panel :**

- Colour and touch screen
- Simplified measurement in 2D
- Facilitated creation of the control ranges
- Choice of the data management :
  - On USB key (file \*.txt)
  - Direct printing on printer
  - Connection to 1 PC for the statistical data management
  - Information results in real time.
- Every height gauge comes with a SCS calibration certificate.