

## TESA-HITE magna 400 and 700

### Made to withstand severe workshop conditions

Emanating from a well-proven TESA technology, both TESA-HITE magna 400 and 700 are equipped with the patented TESA magna  $\mu$  system. They are designed to remain unaffected even in the toughest conditions (water and oil splashing, dust particles).

They have exceptional features that make them indispensable for the workshop while also offering the most favourable price-performance relationship. Robust and dependable, their modern design provides the highest resistance for use close to the production area.

Each height gauge is battery-powered and serve to measure height or step dimensions, diameters, centre-to-centre distance of bores or grooves, width of nuts, and much more.



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- Wide application range, two sizes available with measuring span to 415 mm / 16 in or 715 mm / 28 in, respectively.
- Electronics totally protected against oil and water splashing or dust particles (IP65).
- Control panel with numerical display to 0,001/0,005/0,01 mm or 0,0001/0.0002/0.001 in.
- Dynamic probing of the workpiece with a constant measuring force.
- Easiness, high reliability when checking bores or shafts using TESA's unique device for automatic detection of the culmination point – patented.
- Acoustic signal to acknowledge value capture, also conveniently programmable.
- Ability to measure parallelism errors.
- TESA's magnetic system, guaranteeing correct operating even in harsh workshop conditions – patented.
- Large LC display, also with symbols for the measuring functions.
- Zero-setting anywhere within the measuring range.
- PRESET function for entering any given value.
- Metric/inch conversion.
- RS 232 data output.
- SCS calibration certificate provided with each height gauge.



Factory standard  
83 x 49 mm  
LC display.  
7-decade plus  
minus sign. Also with  
graphical symbols for all  
active functions.



0,001/0,005/  
0,01 mm or  
0,001/0.0002/  
0.001 in



12 mm



Metric/Inch  
conversion



Measuring span,  
application range  
and precision:

see relevant table on  
page M-5.



Nickel plated  
gauge base  
(chemical coating)



Magnetic  
scale



(12  $\pm$  1,5) x  
10<sup>-6</sup> K<sup>-1</sup>



Probing head  
mounted on a  
ball-bearing,  
hand wheel for head dis-  
placement, fine setting. Head  
drive carriage can be locked.



500 mm/s  
20 in/s



1,5  $\pm$  0,5 N  
(at switch  
point)



RS 232



Rechargeable  
batteries, 6V



$\approx$  60 h



10°C to 40°C



-10°C to 60°C



100%



IP55 or IP65 for  
both electronics  
and measuring  
system (IEC 60529)



See table  
on page M-5



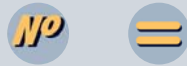
EN 61326,  
Class B  
(with disconnected  
charger)



Shipping  
packaging

- Identification number
- Declaration of conformity
- SCS calibration certificate

## TESA-HITE magna 400 / 700



**00730047 TESA-HITE magna 400 height gauge**  
Measuring span 415 mm / 16 in  
Application range 0 ÷ 570 mm / 0 ÷ 22 in

**00730059 TESA-HITE magna 700 height gauge**  
Measuring span of 715 mm / 28 in  
Application range of 0 ÷ 870 mm / 0 ÷ 34 in

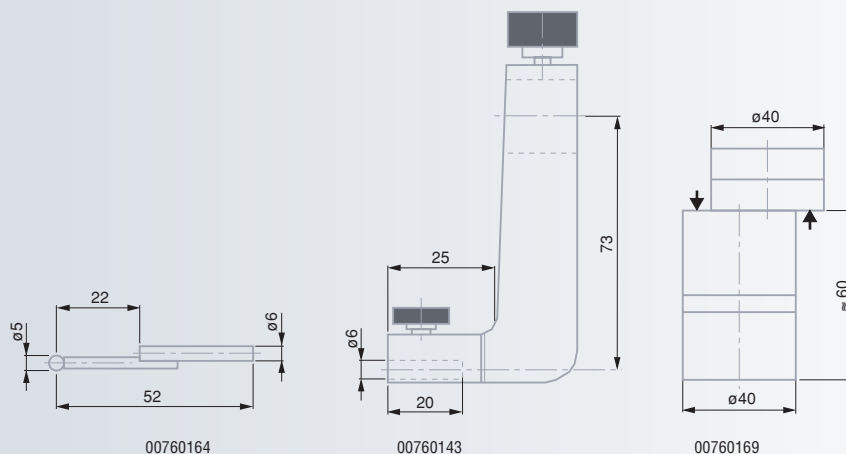
*Each height gauge is supplied with the following standard accessories:*

- 00760143** 1 Standard insert holder
- 00760164** 1 Standard insert with a 5 mm dia. tungsten carbide ball tip
- 00760169** 1 Master piece for establishing the probe constant, nominal dimension to 0,000 mm / 0.0000 in
- 00760157** 1 Rechargeable battery, 6V
- 04761054** 1 Mains adapter, 100 ÷ 240 Vac / 50 ÷ 60Hz
- 04761055** 1 Cable EU for mains adapter
- 04761056** 1 Cable US for mains adapter

## Technical Data

		TESA-HITE magna	
		400	700
	mm in	415 16	715 28
With standard accessory	mm in	0 ÷ 570 0 ÷ 22	0 ÷ 870 0 ÷ 34
With insert holder No. 00760057	mm in	0 ÷ 625 0 ÷ 24	0 ÷ 925 0 ÷ 36
With insert holder No. S07001622	mm in	0 ÷ 795 0 ÷ 31	0 ÷ 1095 0 ÷ 43
With standard accessory	µm in	< 8 < 0.0003	< 8 < 0.0003
With standard accessory		Flat surfaces: 2δ = < 3 µm / < 0.00015 in Holes: 2δ = < 5 µm / < 0.00020 in	
	kg	15	18

## Standard Accessories for TESA-HITE magna 400 / 700



제 e 표 역  
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## Optional Accessories for TESA-HITE magna 400 / 700

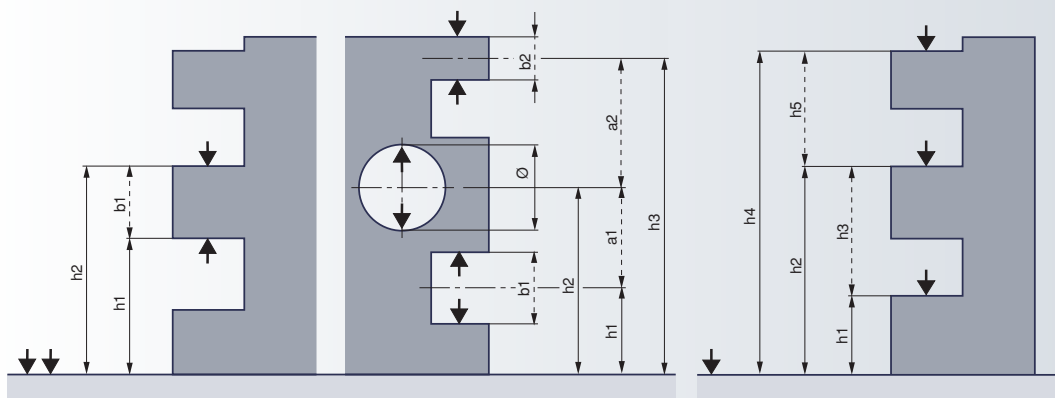
**No**



**04761052**

RS 232 connecting cable (PC to TESA PRINTER SPC)  
For additional accessories, see page M-25

### One-Dimensional Measurement



### Parallelism Measurement

