

TESA-HITE Magna 400 and 700

Conceived using well-proven TESA technology, both the TESA-HITE magna 400 and 700 models are equipped with the TESA patented magna μ measuring system and can be used in the harshest workshop conditions, especially where the gauges are exposed to splashing liquids of any kind and the penetration of dust particles. Their unique characteristics means that the gauges offer the most favourable price/performance ratio found in the market and constitute an essential tool in the workshop. Robust and reliable, their futuristic design guarantees maximum strength when used near production machines. Each height gauge is provided with a rechargeable battery and can be used to measure height or step dimensions as well as diameters, centre to centre distance of bores or grooves, the size of grooves and much more.

- 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 mm or 0.0001 in
- 12 mm
- Magnetic scale, patented system
- Metric/Inch conversion
- 1,5 \pm 0,5 N (at switch point)
- 500 mm/s 20 in/s
- Probing head mounted on a ball-bearing, hand wheel for head displacement, fine setting. Head drive carriage can be locked.
- RS232
- Rechargeable batteries, 6V
- ~ 60 h
- Fixed zero



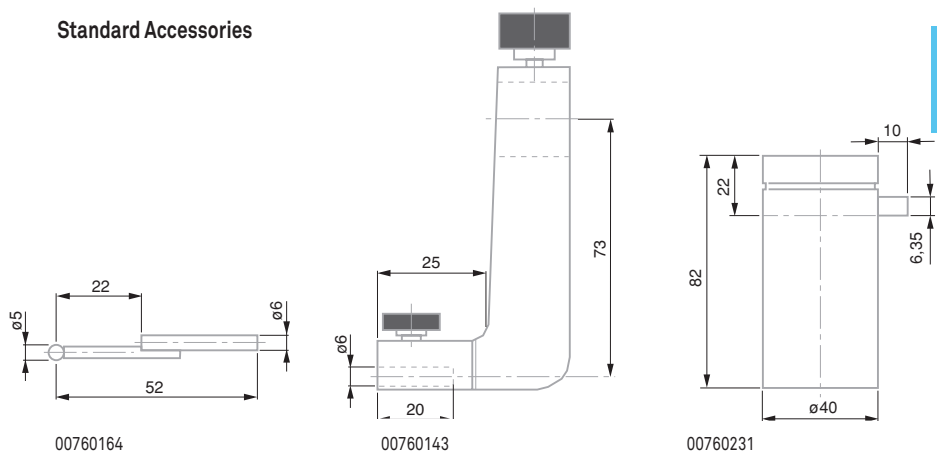
- Linear expansion
($12 \pm 1,5$) $\times 10^{-6} K^{-1}$
- 100 %
- IP55 or IP65 for both electronics and measuring system (IEC 60529)
- SCS calibration certificate

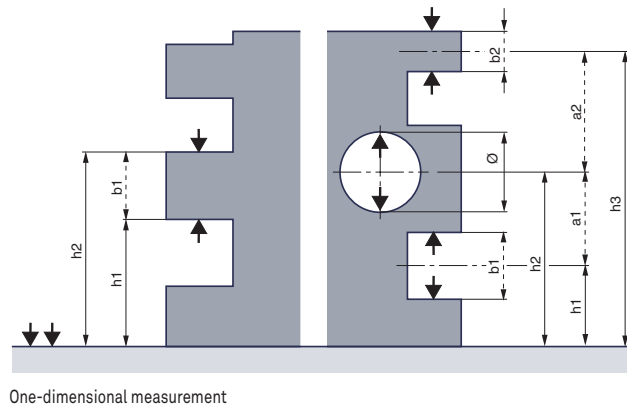
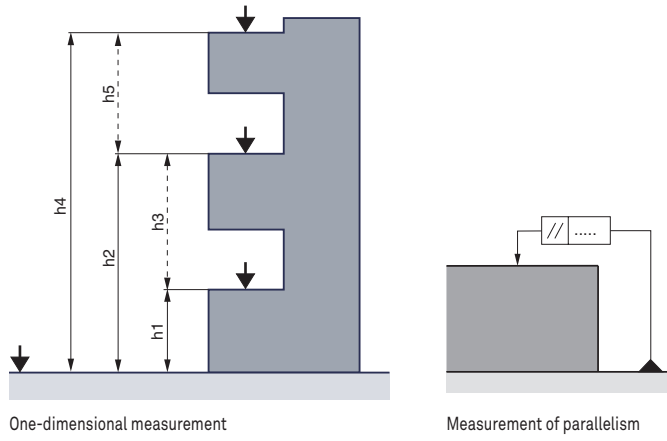
No	=		
		mm	in
00730047	Height gauge TESA-HITE magna 400	415	16
00730059	Height gauge TESA-HITE magna 700	715	28
CONSISTING OF:		400	700
00760143	Standard probe insert holder	●	●
00760157	Rechargeable battery, 6V	●	●
00760164	Standard probe insert with 5 mm dia. steel ball tip	●	●
00760231	Master piece for establishing the probe constant, nominal dimension 6,350 mm / 0.250 in	●	●
04761054	Mains adapter 100 ÷ 200 VAC / 50 ÷ 60 Hz	●	●
04761055	Cable EU for mains adapter	●	●
04761056	Cable US for mains adapter	●	●
OPTIONAL ACCESSORIES:			
04761052	Extension cable, Sub-D 9p/f to 9p/m, 2 m		
04761063	Sub-D 9p/m to USB cable, 2 m		

Technical Data

Models	TESA-HITE magna 400		TESA-HITE magna 700	
		mm	415	715
	in	16	28	
With standard accessory	mm	0 ÷ 570	0 ÷ 870	
	in	0 ÷ 22	0 ÷ 34	
With probe insert holder No. 00760057	mm	0 ÷ 625	0 ÷ 925	
	in	0 ÷ 24	0 ÷ 36	
With probe insert holder No. S07001622	mm	0 ÷ 795	0 ÷ 1095	
	in	0 ÷ 31	0 ÷ 43	
With standard accessory	µm	< 8	< 8	
	in	< 0.0003	< 0.0003	
With standard accessory	On flat surfaces:			
	$2\sigma = < 3\mu\text{m} / < 0.00015\text{ in}$			
	Into bores:			
$2\sigma = < 5\mu\text{m} / < 0.00020\text{ in}$				
	kg	15	18	

Standard Accessories





One-dimensional measurement

