

# Holtest

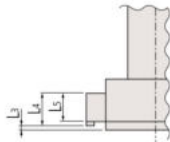
For easy and accurate measurement of inside diameters

## Digimatic Holtest SERIES 468 — Three-point Internal Micrometers

**MeasurLink<sup>®</sup> ENABLED**  
Data Management Software by Mitutoyo

- Three-point internal micrometer with large LCD readout. (Character height 7.4 mm)
- Titanium-coated measuring pins provide excellent durability and impact resistance.
- Only one SR44 battery is required and battery life is approx. 1.2 years under normal use.
- ABSolute and INCremental measurement modes allow highly efficient operation.
- The IP65 protection rating allows the instrument to be used in the presence of splashing coolant.
- Measurements can be made close to the bottom of a blind hole.
- Deep holes can be measured by attaching an Extension Rod (optional).
- A function lock prevents accidental change of reference point.
- Measurement data output enables operation with Statistical Process Control (SPC) and measurement control systems. (Refer to page A-3)
- An interface input tool is available for transferring measurement data, under keyboard control, directly to commercial spreadsheet software. (Refer to page A-25)
- Interchangeable-Head Sets (interchangeable measuring heads type) covering an extended measuring range using multiple heads and Non-interchangeable-Head Sets are available.
- For details of Setting Rings, refer to page C-47.

Range (mm)	L <sub>3</sub> (mm)	L <sub>4</sub> (mm)	L <sub>5</sub> (mm)
6 - 12	2 or below	—	2.5
12 - 20	0.3 or below	5.6	3.5
20 - 30		8.3	5.2
30 - 50		13.0	10.0
50 - 100		17.0	14.0
100 - 300	12.4 or below	21.0	13.8



### DIMENSIONS

Unit: mm

Range	L <sub>2</sub> *	L <sub>1</sub>
6 - 8, 8 - 10, 10 - 12 mm	59	175 - 177
12 - 16, 16 - 20 mm	84	197.5 - 201.5
20 - 25, 25 - 30 mm	93	206.9 - 211.9
30 - 40, 40 - 50 mm	103.8	214.7 - 224.7
50 - 63, 62 - 75, 75 - 88, 87 - 100 mm	105.4	219.6 - 232.6
100 - 125, 125 - 150, 150 - 175, 175 - 200, 200 - 225, 225 - 250, 250 - 275, 275 - 300 mm	151.4	286.3 - 311.3

\* L<sub>2</sub> is maximum depth of measurement possible.  
Note: External view differs depending on measurement range.

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Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink<sup>®</sup> (refer to page A-25 for details).



These marks indicate that a product has successfully passed IP65-level testing, which is carried out by the independent German certification organization TÜV Rheinland.



Dust- and Water-Protected  
www.tuv.com  
ID 0000021605



An inspection certificate is supplied as standard. Refer to page U-9 for details.

### IP Codes

- Level 6:** Dust-proof. No ingress of dust allowed.
- Level 5:** Protected against water jets. Water projected in jets against the enclosure from any direction shall have no harmful effects.



### Technical Data

- Battery: SR44 (1 pc.), **938882**, for initial operational checks (standard accessory)
- Battery life: Approx. 1.2 years under normal use
- Scale type: Electromagnetic induction-type rotary encoder

### Functions

- Zero-setting
- Origin restoration
- Data hold
- 2-point Preset
- Function lock (see illustration of lock symbol below)



- inch/mm readout (inch/mm models)
- Automatic power ON/OFF
- Error alarm
- Data output

### Optional Accessories

- Refer to page A-21 for details.
- **USB** Input Tool Direct (2 m): **06AFM380B**
  - Connecting cables for **U-WAVE-T**  
For standard (160 mm): **02AZD790B**  
For foot switch: **02AZE140B**

## Optional Accessories

Shown mounted on stand using bracket



Mounting bracket  
04AZB157

For details of Special-order Products,  
refer to page C-49.

## SPECIFICATIONS

### Metric

Order No.	Range*2 (mm)	Resolution (mm)	Maximum permissible error $J_{MPE}$ ( $\mu\text{m}$ )*1	Optional Accessories	
				Extension rod	SPC cable
468-161	6 - 8	0.001	$\pm 2$ (maximum difference 2)	952322 (100 mm)	05CZA662 (1 m)  05CZA663 (2 m)
468-162	8 - 10				
468-163	10 - 12				
468-164	12 - 16				
468-165	16 - 20				
468-166	20 - 25				
468-167	25 - 30		$\pm 3$ (maximum difference 3)	952621 (150 mm)	
468-168	30 - 40				
468-169	40 - 50				
468-170	50 - 63				
468-171	62 - 75				
468-172	75 - 88				
468-173	87 - 100		$\pm 4$ (maximum difference 4)	952622 (150 mm)	
468-174	100 - 125				
468-175	125 - 150				
468-176	150 - 175				
468-177	175 - 200				
468-178	200 - 225				
468-179	225 - 250	$\pm 5$ (maximum difference 5)	952623 (150 mm)		
468-180	250 - 275				
468-181	275 - 300			$\pm 6$ (maximum difference 6)	

### Inch / Metric

Order No.	Range*2 (in)	Resolution	Maximum permissible error $J_{MPE}$ (in)*1	Optional Accessories	
				Extension rod	SPC cable
468-261	0.275 - 0.35	0.0005 in/ 0.001 mm	$\pm 0.0001$ (maximum difference 0.0001)	952322 (100 mm)	05CZA662 (1 m)  05CZA663 (2 m)
468-262	0.35 - 0.425				
468-263	0.425 - 0.5				
468-264	0.5 - 0.65				
468-265	0.65 - 0.8				
468-266	0.8 - 1			$\pm 0.00015$ (maximum difference 0.00015)	
468-267	1 - 1.2				
468-268	1.2 - 1.6				
468-269	1.6 - 2				
468-270	2 - 2.5				
468-271	2.5 - 3				
468-272	3 - 3.5		$\pm 0.0002$ (maximum difference 0.0002)	952622 (150 mm)	
468-273	3.5 - 4				
468-274	4 - 5				
468-275	5 - 6				
468-276	6 - 7				
468-277	7 - 8			$\pm 0.00025$ (maximum difference 0.00025)	
468-278	8 - 9				
468-279	9 - 10				
468-280	10 - 11				
468-281	11 - 12	$\pm 0.0003$ (maximum difference 0.0003)			

\*1 Additionally, the difference in permissible error allowable is limited to a value within this range, as given in parentheses, and is measured with the entire measuring surface in contact with the object measured.

\*2 The measurement range cannot be enlarged by measuring heads that are not standard-supplied (the accuracy is not guaranteed).  
Note: Setting rings are optional.