# Holtest

## SERIES 468 – Digimatic Holtest Three-Point Bore Micrometer

- Three-point bore micrometer with large LCD readout (character height 7.5 mm).
- Titanium-coated measuring pins provide excellent durability and impact resistance and allow the instrument to measure right to the bottom of a blind hole.
- 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.
- 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.
- An interface input tool is available for transferring measurement data, under keyboard control, directly to commercial spreadsheet software.
- Interchangeable-head sets (interchangeable measuring heads type) covering an extended measuring range using multiple heads and non-interchangeable-head sets are available.
- Optional setting rings are available for setting the instrument accurately before measurement (see pages C-37 to C-38).

**MeasurLink® ENABLED**
Data Management Software by Mitutoyo

IP65

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PROPRIETARY INSPECTION CERTIFICATE

### Technical Data

Display: LCD
Dust/water protection level: IP65 (IEC60529)*
Battery: SR44 (1 pc), **938882**
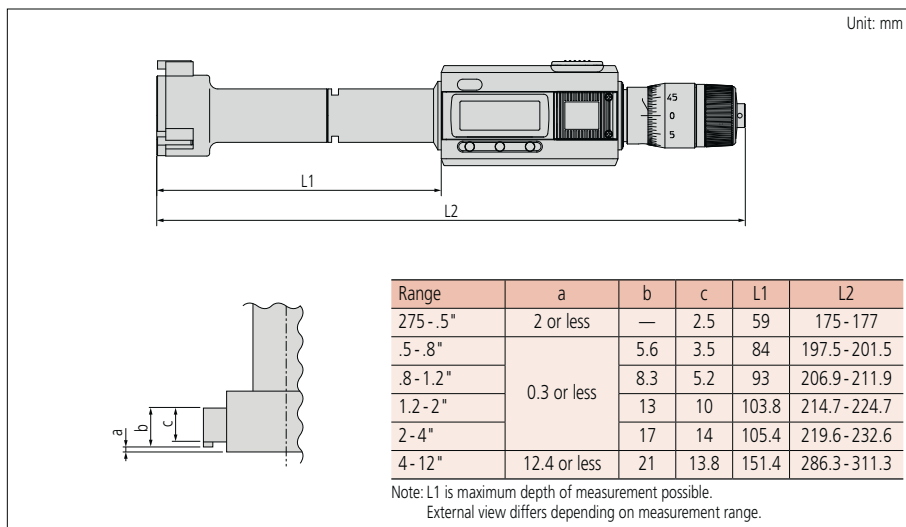* Rustproofing treatment to be applied after use.

### Functions

Zero-setting
Origin restoration
Data hold
2-point preset
Function lock
inch/mm readout
Automatic power ON/OFF
Error alarm
Data output

Data hold.

468-264          468-267          468-273

## Dimensions

Unit: mm

| Range | a | b | c | L1 | L2 |
|---|---|---|---|---|---|
| .275 - .5" | 2 or less | — | 2.5 | 59 | 175 - 177 |
| .5 - .8" | | 5.6 | 3.5 | 84 | 197.5 - 201.5 |
| .8 - 1.2" | 0.3 or less | 8.3 | 5.2 | 93 | 206.9 - 211.9 |
| 1.2 - 2" | | 13 | 10 | 103.8 | 214.7 - 224.7 |
| 2 - 4" | | 17 | 14 | 105.4 | 219.6 - 232.6 |
| 4 - 12" | 12.4 or less | 21 | 13.8 | 151.4 | 286.3 - 311.3 |

Note: L1 is maximum depth of measurement possible.
External view differs depending on measurement range.

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Mitutoyo operates a policy of continuous improvement that aims to provide the customer with the benefit of the latest technological advances.
Therefore the company reserves the right to change any or all aspects of any product specification without notice.

## Optional Accessories

| Code No. | Description | |
|---|---|---|
| **02AZD790B** | U-WAVE-T data cable with pushbutton (160 mm) | |
| **02AZE140B** | U-WAVE-T data cable with pushbutton and footswitch connection (160/500 mm) | |
| **04AZB157** | Mounting bracket | |
| **05CZA662** | SPC data cable with pushbutton (1 m) | |
| **05CZA663** | SPC data cable with pushbutton (2 m) | |
| **06AFM380B** | USB Input Tool Direct USB-ITN-B (2 m) | |
| **Extension rods** (refer to Specifications table) | | |
| **952322** | 100 mm | |
| **952621** | 150 mm | |
| **952622** | 150 mm | |
| **952623** | 150 mm | |



Mounting bracket **04AZB157** (optional accessory).



Shown on stand using mounting bracket.

## Specifications

**Inch/Metric**

| Code No. | Range | Resolution | Accuracy* | Extension rod (optional accessory) | |
|---|---|---|---|---|---|
| **468-261** | .275 - .35" (6.985 - 8.89 mm) | .00005" (0.001 mm) | ±2 μm (range 2 μm) /±.0001" (range .0001") | 952322 | |
| **468-262** | .35 - .425" (8.89 - 10.795 mm) | | | | |
| **468-263** | .425 - .5" (10.795 - 12.7 mm) | | | | |
| **468-264** | .5 - .65" (12.7 - 16.51 mm) | | | 952621 | |
| **468-265** | .65 - .8" (16.51 - 20.32 mm) | | | | |
| **468-266** | .8 - 1" (20.32 - 25.4 mm) | | ±3 μm (range 3 μm) /±.00015" (range .00015") | 952622 | |
| **468-267** | 1 - 1.2" (25.4 - 30.48 mm) | | | | |
| **468-268** | 1.2 - 1.6" (30.48 - 40.64 mm) | | | | |
| **468-269** | 1.6 - 2" (40.64 - 50.8 mm) | | | | |
| **468-270** | 2 - 2.5" (50.8 - 63.5 mm) | | | 952623 | |
| **468-271** | 2.5 - 3" (63.5 - 76.2 mm) | | | | |
| **468-272** | 3 - 3.5" (76.2 - 88.9 mm) | | | | |
| **468-273** | 3.5 - 4" (88.9 - 101.6 mm) | | | | |
| **468-274** | 4 - 5" (101.6 - 127 mm) | .0001" (0.001 mm) | ±5 μm (range 5 μm) /±.00025" (range .00025") | | |
| **468-275** | 5 - 6" (127 - 152.4 mm) | | | | |
| **468-276** | 6 - 7" (152.4 - 177.8 mm) | | | | |
| **468-277** | 7 - 8" (177.8 - 203.2 mm) | | | | |
| **468-278** | 8 - 9" (203.2 - 228.6 mm) | | | | |
| **468-279** | 9 - 10" (228.6 - 254 mm) | | | | |
| **468-280** | 10 - 11" (254 - 279.4 mm) | | | | |
| **468-281** | 11 - 12" (279.4 - 304.8 mm) | | | | |

\* Excluding quantizing error. Accuracy specifications apply to the whole length of the measuring pins, and are given both in terms of the limits of deviation of a measurement and the total width of the deviation range (in parentheses).
Note: It is not advisable to use measuring heads other than those supplied as standard accessories, or attempt to widen a measuring range by using any other heads. (The measuring accuracy in such cases is not guaranteed.)



Interchangeable-head sets (interchangeable measuring heads type).



Non-interchangeable-head sets.

C

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