

Holtest

For easy and accurate measurement of inside diameters

ABSOLUTE Borematic SERIES 568 — ABSOLUTE Digimatic Snap-Open Bore Gages

MeasurLink® ENABLED
Data Management Software by Mitutoyo

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



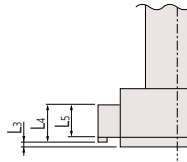
An inspection certificate is supplied as standard. Refer to page U-9 for details.

ABSOLUTE™

- A snap-type digital display, inside-diameter measuring instrument allows quick and easy measurement with lever operation.
- Titanium-coated measuring pins provide excellent durability and impact resistance.
- Three-Point contact measuring head enables highly repeatable measurement data to be obtained.
- Built-in ABS (absolute) scale with absolute origin eliminates the need for origin setting each time power is turned on. In addition, reliability has improved due to elimination of overspeed errors.
- Equipped with GO/NO-GO judgment function, which is enabled when the upper and lower limits are set. In addition, the GO/NO-GO judgment result can be zoomed.

- Dual HOLD function buttons, optimally located, enable high operability.
- 330° rotatable display unit for easy reading at any angle.
- Measurement can be made close to the bottom of a blind hole.

Range (mm)	L3 (mm)	L4 (mm)	L5 (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 - 125		17.0	14.0



- Deep holes can be measured by attaching an Extension Rod (optional).



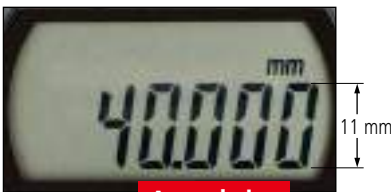
Extension Rod (optional)

- Digimatic output port enables inclusion in a statistical process control or networked measurement system. (Refer to page A-3 for details)
- Interface Input Tools are available that enable the conversion of measurement data to keyboard signals that are then directly input to cells in off-the-shelf spreadsheet software such as Excel. (Refer to page A-25 for details)
- 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.



Large LCD

Character height of 11 mm (1.5 times the character area of conventional 8.5 mm products).



Actual size

Function Lock

Ensures reliability of measurement by locking the settings to prevent preset function settings from being changed by mistake.



Three large buttons

The three large-button design employed by ID-N/ID-B, the ABSOLUTE coolant proof Digimatic indicators, enables easier and simpler operation.



- **MODE** (ABS measurement system)
Tolerance judgment setting
Function lock setting
- **SET** (INC measurement system)
- **ON/OFF** (Power ON/OFF)
- Switches between the ABS (absolute) and INC (incremental) measurement modes

Technical Data

- Resolution: 0.001 mm or 0.0005 in/0.001 mm
- Response speed: Infinite
- Battery: SR44 (1 pc.), **938882**, for initial operational checks (standard accessory)
- Scale type: Electrostatic capacitance type absolute encoder
- Battery life: Approx. 5,000 hours in continuous use



Functions

- GO/NO-GO judgment
- GO/NO-GO judgment zoom
- 2-Point Preset
- Zero-setting
- Data hold, Error alarm
- Low battery voltage alert
- Data output
- Function Lock
- 330° rotary display
- ON/OFF function
- inch/mm conversion (inch/mm models)

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

Optional Accessories

- Refer to page A-21 for details
- USB Input Tool Direct (2 m): **06AFM380F**
- Connecting cables for **U-WAVE-T**
For standard (160 mm): **02AZD790F**
For foot switch: **02AZE140F**

SPECIFICATIONS

Metric		Individual			
Order No.	Range*2 (mm)	Maximum permissible error J_{MPE} (μm)*1	Mass (g)	Accessories (optional)	
				Extension Rod	SPC cable
568-361	6 - 8	± 5 (maximum difference 5)	480	952322 (100 mm)	
568-362	8 - 10		485		
568-363	10 - 12		485		
568-364	12 - 16		475		
568-365	16 - 20		480		
568-366	20 - 25	± 6 (maximum difference 6)	540	952622 (150 mm)	905338 (1 mm)
568-367	25 - 30		555		
568-368	30 - 40		565		
568-369	40 - 50		610		
568-370	50 - 63		730	952623 (150 mm)	905409 (2 mm)
568-371	62 - 75		740		
568-372	75 - 88		790		
568-373	87 - 100		800		
568-374	100 - 113		900		
568-375	112 - 125		910		

Inch / Metric		Individual			
Order No.	Range*2 (in)	Maximum permissible error J_{MPE} (in)*1	Mass (g)	Extension Rod (optional)	
				Extension Rod	SPC cable
568-461	0.275 - 0.35	± 0.00025 (maximum difference 0.00025)	480	952322 (100 mm)	
568-462	0.35 - 0.425		485		
568-463	0.425 - 0.5		485		
568-464	0.5 - 0.65		475		
568-465	0.65 - 0.8		480		
568-466	0.8 - 1	± 0.0003 (maximum difference 0.0003)	540	952622 (150 mm)	905338 (1 mm)
568-467	1 - 1.2		555		
568-468	1.2 - 1.6		565		
568-469	1.6 - 2		610		
568-470	2 - 2.5		730	952623 (150 mm)	905409 (2 mm)
568-471	2.5 - 3		740		
568-472	3 - 3.5		790		
568-473	3.5 - 4		800		
568-474	4 - 4.5		900		
568-475	4.5 - 5		910		

*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.

DIMENSIONS

Unit: mm

Range	L ₂	L ₁
6 - 8, 8 - 10, 10 - 12 mm	83	284
12 - 16, 16 - 20 mm	53	255
20 - 25, 25 - 30 mm	59	261
30 - 40, 40 - 50 mm	67	269
50 - 63, 62 - 75, 75 - 88, 87 - 100, 100 - 113, 112 - 125 mm	75	277

Note: External appearance differs depending on the measuring range.