

# Holtest

For easy and accurate measurement of inside diameters

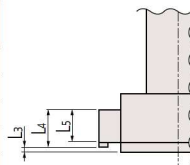
## ABSOLUTE Borematic SERIES 568 — ABSOLUTE Digimatic Snap-Open Bore Gages

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

- 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
50 - 125		17.0	14



- 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-5 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.



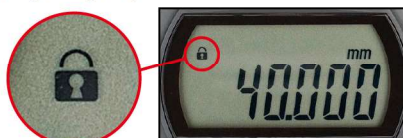
### Large LCD

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



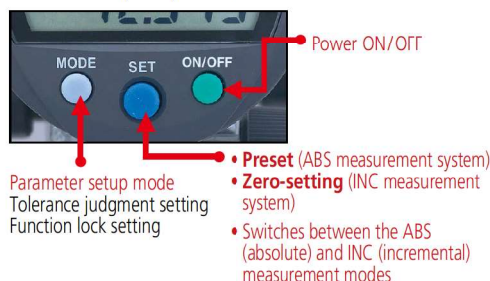
### Function Lock

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.



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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-5 for details).



An inspection certificate is supplied as standard. Refer to page U-11 for details.

**ABSOLUTE™**

### Technical Data

- Resolution: 0.001 mm or 0.00005 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  
inch/mm conversion (inch/mm models)

**For details of Custom-ordered Products, refer to page C-49.**

### Optional Accessories

Refer to page A-28 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 $J_{MPE}$ ( $\mu m$ )*1	Mass (g)	Accessories (optional)	
				Extension Rod	SPC cable
568-361	6 - 8	$\pm 5$ (within 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	$\pm 6$ (within 6)	540	952622 (150 mm)	905338 (1 mm)
568-367	25 - 30		555		
568-368	30 - 40		565		
568-369	40 - 50		610	905409 (2 mm)	
568-370	50 - 63		730		
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		

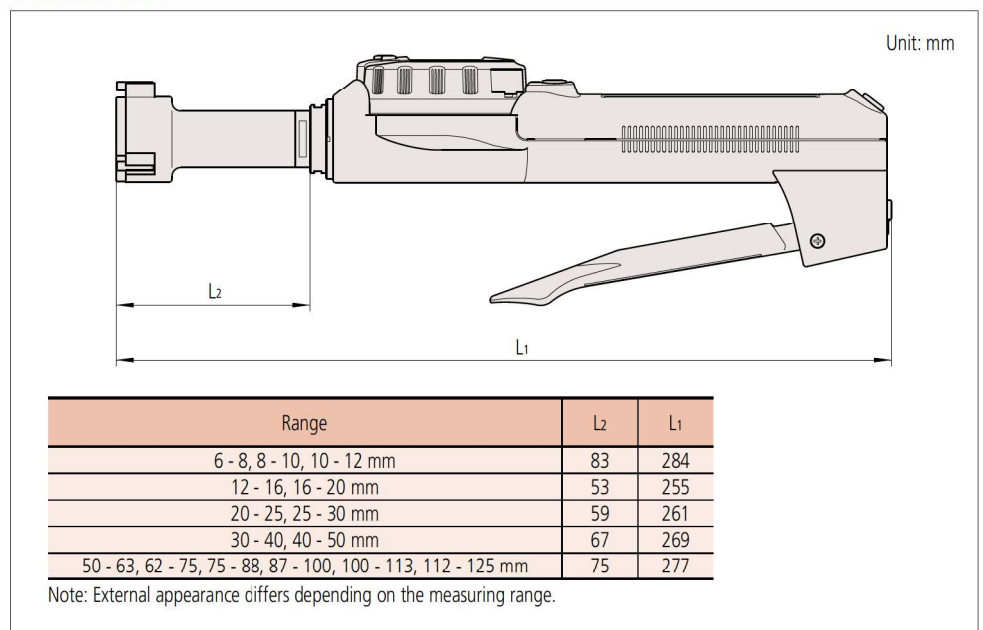
Inch / Metric		Individual			
Order No.	Range*2 (in)	Maximum permissible error $J_{MPE}$ (in)*1	Mass (g)	Extension Rod (optional)	
				Extension Rod	SPC cable
568-461	0.275 - 0.35	$\pm 0.00025$ (within 0.00025)	480	952322 (100 mm)	
568-462	0.35 - 0.425		485		
568-463	0.425 - 0.5		485		
568-464	0.5 - 0.65		475		
568-465	0.65 - 0.8		480		
568-466	0.8 - 1	$\pm 0.0003$ (within 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	952623 (150 mm)	905409 (2 mm)
568-470	2 - 2.5		730		
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





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### Interchangeable-Head Bore Gage Sets

Metric		
Order No.	Range (mm)	Content of Set
568-924	6 - 12	Display unit
		Measuring head
		6 - 8 mm
		8 - 10 mm
		10 - 12 mm
		Attachment
		Setting ring (ø8, ø10)
568-925	12 - 25	Display unit
		Measuring head
		12 - 16 mm
		16 - 20 mm
		20 - 25 mm
		Attachment
		Setting ring (ø16, ø20)
568-926	25 - 50	Display unit
		Measuring head
		25 - 30 mm
		30 - 40 mm
		40 - 50 mm
		Attachment
		Setting ring (ø30, ø40)
568-927	50 - 100	Display unit
		Measuring head
		50 - 63 mm
		62 - 75 mm
		75 - 88 mm
		87 - 100 mm
		Attachment
568-928	0.275 - 0.5	Display unit
		Measuring head
		0.275 - 0.35 in
		0.35 - 0.425 in
		0.425 - 0.5 in
		Attachment
		Setting ring (0.35 in DIA, 0.425 in DIA)
568-929	0.5 - 1	Display unit
		Measuring head
		0.5 - 0.65 in
		0.65 - 0.8 in
		0.8 - 1 in
		Attachment
		Setting ring (0.65 in DIA, 0.8 in DIA)
568-930	1 - 2	Display unit
		Measuring head
		1 - 1.2 in
		1.2 - 1.6 in
		1.6 - 2 in
		Attachment
		Setting ring (1.2 in DIA, 1.6 in DIA)
568-936	2 - 4	Display unit
		Measuring head
		2 - 2.5 in
		2.5 - 3 in
		3 - 3.5 in
		3.5 - 4 in
		Attachment

Inch / Metric		
Order No.	Range (in)	Content of Set
568-928	0.275 - 0.5	Display unit
		Measuring head
		0.275 - 0.35 in
		0.35 - 0.425 in
		0.425 - 0.5 in
		Attachment
		Setting ring (0.35 in DIA, 0.425 in DIA)
568-929	0.5 - 1	Display unit
		Measuring head
		0.5 - 0.65 in
		0.65 - 0.8 in
		0.8 - 1 in
		Attachment
		Setting ring (0.65 in DIA, 0.8 in DIA)
568-930	1 - 2	Display unit
		Measuring head
		1 - 1.2 in
		1.2 - 1.6 in
		1.6 - 2 in
		Attachment
		Setting ring (1.2 in DIA, 1.6 in DIA)
568-936	2 - 4	Display unit
		Measuring head
		2 - 2.5 in
		2.5 - 3 in
		3 - 3.5 in
		3.5 - 4 in
		Attachment

### Non-Interchangeable-Head Snap-Open Bore Gage Sets

Each set includes complete gages (display units and measuring heads for each size).

Metric		
Order No.	Range (mm)	Content of Set
568-955	6 - 12	Display unit
		6 - 8 mm
		8 - 10 mm
		10 - 12 mm
		Setting ring (ø8, ø10)
		Spanner
568-956	12 - 25	Display unit
		12 - 16 mm
		16 - 20 mm
		20 - 25 mm
		Setting ring (ø16, ø20)
		Spanner
568-957	25 - 50	Display unit
		25 - 30 mm
		30 - 40 mm
		40 - 50 mm
		Setting ring (ø30, ø40)
		Spanner
568-958	50 - 75	Display unit
		50 - 63 mm
		62 - 75 mm
		Setting ring (ø62)
		Spanner
568-959	75 - 100	Display unit
		75 - 88 mm
		87 - 100 mm
		Setting ring (ø87)
		Spanner

Inch / Metric		
Order No.	Range (in)	Content of Set
568-965	0.275 - 0.5	Display unit
		0.275 - 0.35 in
		0.35 - 0.425 in
		0.425 - 0.5 in
		Setting ring (0.35 in DIA, 0.425 in DIA)
		Spanner
568-966	0.5 - 1	Display unit
		0.5 - 0.65 in
		0.65 - 0.8 in
		0.8 - 1 in
		Setting ring (0.65 in DIA, 0.8 in DIA)
		Spanner
568-967	1 - 2	Display unit
		1 - 1.2 in
		1.2 - 1.6 in
		1.6 - 2 in
		Setting ring (1.2 in DIA, 1.6 in DIA)
		Spanner
568-968	2 - 3	Display unit
		2 - 2.5 in
		2.5 - 3 in
		Setting ring (2.5 in DIA)
		Spanner
568-969	3 - 4	Display unit
		3 - 3.5 in
		3.5 - 4 in
		Setting ring (3.5 in DIA)
		Spanner



568-924



568-926



568-955



568-957



568-959