

Holtest

For easy and accurate measurement of inside diameters

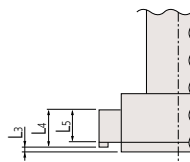
ABSOLUTE Borematic SERIES 568 — ABSOLUTE Digimatic Snap-Open Bore Gages

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).



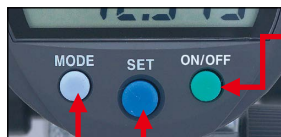
Function Lock

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.



- **MODE** (Parameter setup mode, Tolerance judgment setting, Function lock setting)
- **SET** (Preset (ABS measurement system), Zero-setting (INC measurement system))
- **ON/OFF** (Switches between the ABS (absolute) and INC (incremental) measurement modes)

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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} (μm)* ¹	Mass (g)	Accessories (optional)	
				Extension Rod	SPC cable
568-361	6 - 8	± 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	± 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	952623 (150 mm)	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		

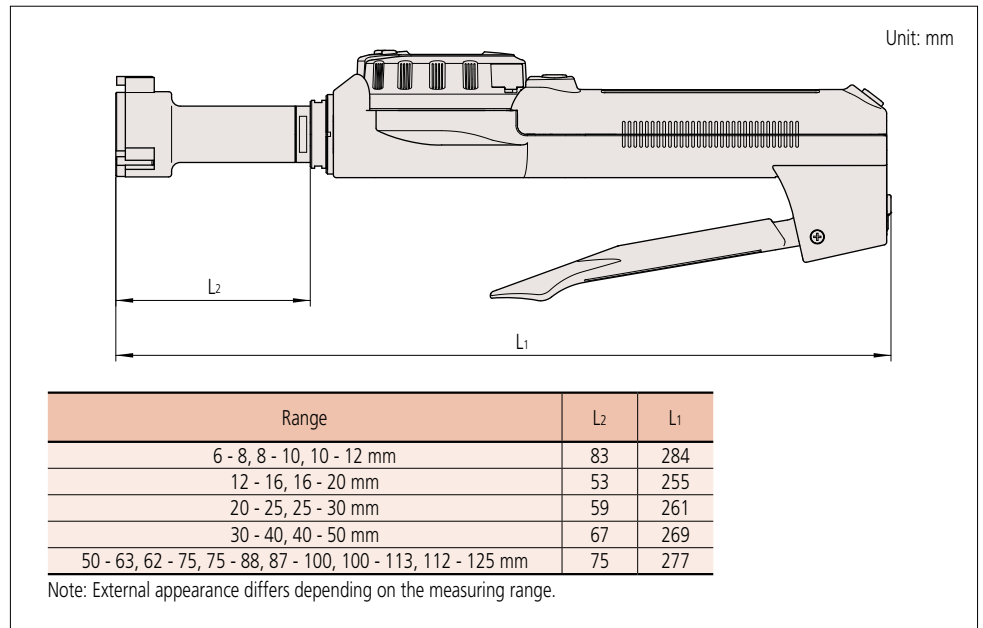
Inch / Metric		Individual			
Order No.	Range* ² (in)	Maximum permissible error J_{MPE} (in)* ¹	Mass (g)	Extension Rod (optional)	
				Extension Rod	SPC cable
568-461	0.275 - 0.35	± 0.00025 (within 0.00025)	480	952322 (100 mm)	
568-462	0.35 - 0.425		485		
568-463	0.425 - 0.5		485		
568-464	0.5 - 0.65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

Interchangeable-Head Bore Gage Sets

Metric			
Order No.	Range (mm)	Content of Set	
568-924	6 - 12	Display unit	1 pc.
		Measuring head	
		6 - 8 mm	1 pc.
		8 - 10 mm	1 pc.
		10 - 12 mm	1 pc.
		Attachment	1 pc.
		Setting ring (ø8, ø10)	1 pc. each
568-925	12 - 25	Spanner	3 pcs.
		Display unit	1 pc.
		Measuring head	
		12 - 16 mm	1 pc.
		16 - 20 mm	1 pc.
		20 - 25 mm	1 pc.
		Attachment	2 pcs.
568-926	25 - 50	Setting ring (ø16, ø20)	1 pc. each
		Spanner	2 pcs.
		Display unit	1 pc.
		Measuring head	
		25 - 30 mm	1 pc.
		30 - 40 mm	1 pc.
		40 - 50 mm	1 pc.
568-927	50 - 100	Attachment	1 pc.
		Setting ring (ø30, ø40)	1 pc. each
		Spanner	2 pcs.
		Display unit	1 pc.
		Measuring head	
		50 - 63 mm	1 pc.
		62 - 75 mm	1 pc.
568-928	0.275 - 0.5	75 - 88 mm	1 pc.
		87 - 100 mm	1 pc.
		Attachment	1 pc.
		Setting ring (ø62, ø87)	1 pc. each
		Spanner	2 pcs.
		Display unit	1 pc.
		Measuring head	

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

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	1 pc.
		8 - 10 mm	1 pc.
		10 - 12 mm	1 pc.
		Setting ring (ø8, ø10)	1 pc. each
		Spanner	3 pcs.
568-956	12 - 25	Display unit	
		12 - 16 mm	1 pc.
		16 - 20 mm	1 pc.
		20 - 25 mm	1 pc.
		Setting ring (ø16, ø20)	1 pc. each
		Spanner	2 pcs.
568-957	25 - 50	Display unit	
		25 - 30 mm	1 pc.
		30 - 40 mm	1 pc.
		40 - 50 mm	1 pc.
		Setting ring (ø30, ø40)	1 pc. each
		Spanner	2 pcs.
568-958	50 - 75	Display unit	
		50 - 63 mm	1 pc.
		62 - 75 mm	1 pc.
		Setting ring (ø62)	1 pc.
		Spanner	2 pcs.
568-959	75 - 100	Display unit	
		75 - 88 mm	1 pc.
		87 - 100 mm	1 pc.
		Setting ring (ø87)	1 pc.
		Spanner	2 pcs.
		Display unit	
		Measuring head	

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



568-924



568-926



568-955



568-957



568-959