

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

- The Borematic allows quick and easy measurement with lever operation.
- Titanium-coated measuring pins provide excellent durability and impact resistance.
- Three-Point contact measuring head enables stable measurement.
- Deep holes can be measured by attaching an Extension Rod (optional).



**DIMENSIONS**

Unit: mm

Range	L2	L1
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.

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



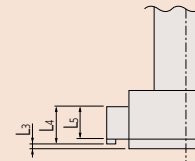
ABSOLUTE<sup>™</sup>

**Measurement example**



**You can measure the diameter of a blind hole to the bottom.**

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



**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 type)

**Optional Accessories**

Order No.	Type	description
905338	F	Connecting cable (1 m)
905409	F	Connecting cable (2 m)
06AFM380F	F	USB Input Tool Direct (2 m)
02AZD790F	F	Connecting cables for <b>U-WAVE-T</b> (160 mm)
02AZE140F	F	Connecting cables for <b>U-WAVE-T</b> For foot switch

**For details of Special-order Products, refer to page C-57.**

## SPECIFICATIONS

Metric		Individual			
Order No.	Range*2 (mm)	Resolution (mm)	Maximum permissible error $J_{MPE} (\mu\text{m})^{*1}$	Mass (g)	Extension Rod (optional)
568-361	6 - 8	0.001	$\pm 5$ (maximum difference 5)	480	952322 (100 mm)
568-362	8 - 10			485	
568-363	10 - 12			485	
568-364	12 - 16			475	952621 (150 mm)
568-365	16 - 20			480	
568-366	20 - 25		$\pm 6$ (maximum difference 6)	540	952622 (150 mm)
568-367	25 - 30			555	
568-368	30 - 40			565	
568-369	40 - 50			610	952623 (150 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)	Resolution	Maximum permissible error $J_{MPE} (\text{in})^{*1}$	Mass (g)	Extension Rod (optional)
568-461	0.275 - 0.35	0.00005 in/ 0.001 mm	$\pm 0.00025$ (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	952621 (150 mm)
568-465	0.65 - 0.8			480	
568-466	0.8 - 1		$\pm 0.0003$ (maximum difference 0.0003)	540	952622 (150 mm)
568-467	1 - 1.2			555	
568-468	1.2 - 1.6			565	
568-469	1.6 - 2			610	952623 (150 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	

- Response speed: Unlimited
  - 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
- \*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.

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

### Interchangeable-Head Bore Gage Sets



568-924



568-926

Metric		
Order No.	Range (mm)	Content of Set
568-924	6 - 12	Display unit 1 pc.
		Measuring head 1 pc.
		6 - 8 mm 1 pc.
		8 - 10 mm 1 pc.
		10 - 12 mm 1 pc.
		Attachment 1 pc.
568-925	12 - 25	Setting ring (ø8, ø10) 1 pc. each
		Spanner 3 pcs.
568-926	25 - 50	Display unit 1 pc.
		Measuring head 1 pc.
		12 - 16 mm 1 pc.
		16 - 20 mm 1 pc.
		20 - 25 mm 1 pc.
		Attachment 2 pcs.
568-927	50 - 100	Setting ring (ø16, ø20) 1 pc. each
		Spanner 2 pcs.
		Display unit 1 pc.
		Measuring head 1 pc.
		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.
		568-929
Measuring head 1 pc.		
0.275 - 0.35 in 1 pc.		
0.35 - 0.425 in 1 pc.		
0.425 - 0.5 in 1 pc.		
Attachment 1 pc.		
568-930	1 - 2	Setting ring (0.35 in DIA., 0.425 in DIA.) 1 pc. each
		Spanner 3 pcs.
		Display unit 1 pc.
		Measuring head 1 pc.
		0.5 - 0.65 in 1 pc.
		0.65 - 0.8 in 1 pc.
568-936	2 - 4	0.8 - 1 in 1 pc.
		Attachment 2 pcs.
		Setting ring (0.65 in DIA., 0.8 in DIA.) 1 pc. each
		Spanner 2 pcs.
		Display unit 1 pc.
		Measuring head 1 pc.
568-936	2 - 4	2 - 2.5 in 1 pc.
		2.5 - 3 in 1 pc.
		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
568-936	2 - 4	Spanner 2 pcs.

Inch / Metric		
Order No.	Range (in)	Content of Set
568-924	0.275 - 0.5	Display unit 1 pc.
		Measuring head 1 pc.
		0.275 - 0.35 in 1 pc.
		0.35 - 0.425 in 1 pc.
		0.425 - 0.5 in 1 pc.
		Attachment 1 pc.
568-925	0.5 - 1	Setting ring (0.35 in DIA., 0.425 in DIA.) 1 pc. each
		Spanner 3 pcs.
568-926	1 - 2	Display unit 1 pc.
		Measuring head 1 pc.
		1 - 1.2 in 1 pc.
		1.2 - 1.6 in 1 pc.
		1.6 - 2 in 1 pc.
		Attachment 1 pc.
568-927	2 - 4	Setting ring (1.2 in DIA., 1.6 in DIA.) 1 pc. each
		Spanner 2 pcs.
		Display unit 1 pc.
		Measuring head 1 pc.
		2 - 2.5 in 1 pc.
		2.5 - 3 in 1 pc.
568-928	0.275 - 0.5	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.
		568-929
Measuring head 1 pc.		
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 pc.
		1 - 1.2 in 1 pc.
		1.2 - 1.6 in 1 pc.
568-936	2 - 4	1.6 - 2 in 1 pc.
		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 1 pc.
568-936	2 - 4	2 - 2.5 in 1 pc.
		2.5 - 3 in 1 pc.
		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
568-936	2 - 4	Spanner 2 pcs.

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

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



568-955



568-957



568-959

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

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.)
		1 pc.
		1 pc.
		1 pc.
		1 pc. each
		3 pcs.
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.)
		1 pc.
		1 pc.
		1 pc.
		1 pc. each
		2 pcs.
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.)
		1 pc.
		1 pc.
		1 pc.
		1 pc. each
		2 pcs.
568-968	2 - 3	Display unit
		2 - 2.5 in
		2.5 - 3 in
		Setting ring (2.5 in DIA.)
		Spanner
		1 pc.
		1 pc.
		1 pc.
		1 pc. each
		2 pcs.
568-969	3 - 4	Display unit
		3 - 3.5 in
		3.5 - 4 in
		Setting ring (3.5 in DIA.)
		Spanner
		1 pc.
		1 pc.
		1 pc.
		1 pc. each
		2 pcs.