

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

- Activation handle with precision-balanced spring allows for easier inside-diameter measurements.
- Titanium-coated measuring pins provide excellent durability and impact resistance.
- Three-Point contact measuring head enables stable measurement.
- Can measure deep holes using 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[®] ENABLED
Data Management Software by Mitutoyo



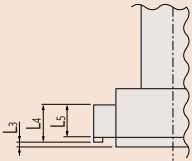
ABSOLUTE[™]

Measurement example



Reference dimensions when measuring 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



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

Code No.	Type	description
264-020	—	USB Input Tool Series USB Keyboard Signal Conversion Type IT-020U
905338	F	Connection cable (1 m)
905409	F	Connection cable (2 m)
06AFM380F	F	USB Input Tool Direct (2 m)
02AZD730*	IP67	U-WAVE-T
02AZD880*	Buzzer	U-WAVE-T
02AZD790F	F	Connection cable for U-WAVE-T (160 mm)
02AZE140F	F	Connection cable for U-WAVE-T For foot switch

* Add suffix to Code No.; **G** for Asia, Europe and the Americas,
H for Brazil and **J** for Korea.

For details of Special-order Products,
refer to page 13-16.

SPECIFICATIONS

Metric		Individual			
Code No.	Range*2 (mm)	Resolution (mm)	Maximum permissible error J_{MPE} (μm)*1	Mass (g)	Extension Rod (optional)
568-361-10	6 - 8	0.001	±5 (maximum difference 5)	480	952322 (100 mm)
568-362-10	8 - 10			485	
568-363-10	10 - 12			485	
568-364-10	12 - 16			475	952621 (150 mm)
568-365-10	16 - 20			480	
568-366-10	20 - 25		±6 (maximum difference 6)	540	952622 (150 mm)
568-367-10	25 - 30			555	
568-368-10	30 - 40			565	
568-369-10	40 - 50			610	952623 (150 mm)
568-370-10	50 - 63			730	
568-371-10	62 - 75			740	
568-372-10	75 - 88			790	
568-373-10	87 - 100			800	
568-374-10	100 - 113			900	
568-375-10	112 - 125			910	

Inch / Metric		Individual			
Code No.	Range*2 (in)	Resolution	Maximum permissible error J_{MPE} (in)*1	Mass (g)	Extension Rod (optional)
568-461-10	0.275 - 0.35	0.00005 in/ 0.001 mm	±0.00025 (maximum difference 0.00025)	480	952322 (100 mm)
568-462-10	0.35 - 0.425			485	
568-463-10	0.425 - 0.5			485	
568-464-10	0.5 - 0.65			475	952621 (150 mm)
568-465-10	0.65 - 0.8			480	
568-466-10	0.8 - 1		±0.0003 (maximum difference 0.0003)	540	952622 (150 mm)
568-467-10	1 - 1.2			555	
568-468-10	1.2 - 1.6			565	
568-469-10	1.6 - 2			610	952623 (150 mm)
568-470-10	2 - 2.5			730	
568-471-10	2.5 - 3			740	
568-472-10	3 - 3.5			790	
568-473-10	3.5 - 4			800	
568-474-10	4 - 4.5			900	
568-475-10	4.5 - 5			910	

- Response speed: Unlimited
- Power source: SR44 battery (1 pc.), **938882** included as standard (for operational checks)
- Position detection method: Electrostatic capacitance type absolute encoder
- Battery life: Approx. 5 years under normal use. Approx. 10,000 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.

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Interchangeable-head Bore Gage Sets

Optional Accessories
Refer to page 08-13.



568-924-10



568-926-10

Metric		
Code No.	Range (mm)	Content of Set
568-924-10	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
568-925-10	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.
568-926-10	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.
568-927-10	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.

Inch / Metric		
Code No.	Range (in)	Content of Set
568-928-10	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
568-929-10	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.
568-930-10	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.
568-936-10	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.

Non-interchangeable-head Snap-open Bore Gage Sets

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



Metric		
Code No.	Range (mm)	Content of Set
568-955-10	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
568-956-10	12 - 25	Spanner 3 pcs.
		Display unit
		12 - 16 mm 1 pc.
		16 - 20 mm 1 pc.
		20 - 25 mm 1 pc.
568-957-10	25 - 50	Setting ring (ø16, ø20) 1 pc. each
		Spanner 2 pcs.
		Display unit
		25 - 30 mm 1 pc.
		30 - 40 mm 1 pc.
568-958-10	50 - 75	40 - 50 mm 1 pc.
		Setting ring (ø30, ø40) 1 pc. each
		Spanner 2 pcs.
		Display unit
		50 - 63 mm 1 pc.
568-959-10	75 - 100	62 - 75 mm 1 pc.
		Setting ring (ø62) 1 pc.
		Spanner 2 pcs.
		Display unit
		75 - 88 mm 1 pc.

Inch / Metric		
Code No.	Range (in)	Content of Set
568-965-10	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
568-966-10	0.5 - 1	Spanner 3 pcs.
		Display unit
		0.5 - 0.65 in 1 pc.
		0.65 - 0.8 in 1 pc.
		0.8 - 1 in 1 pc.
568-967-10	1 - 2	Setting ring (0.65 in DIA., 0.8 in DIA.) 1 pc. each
		Spanner 2 pcs.
		Display unit
		1 - 1.2 in 1 pc.
		1.2 - 1.6 in 1 pc.
568-968-10	2 - 3	1.6 - 2 in 1 pc.
		Setting ring (1.2 in DIA., 1.6 in DIA.) 1 pc. each
		Spanner 2 pcs.
		Display unit
		2 - 2.5 in 1 pc.
568-969-10	3 - 4	2.5 - 3 in 1 pc.
		Setting ring (2.5 in DIA.) 1 pc.
		Spanner 2 pcs.
		Display unit
		3 - 3.5 in 1 pc.