

Borematic

SERIES 568 — ABSOLUTE Digimatic Snap-Open Bore Gages

The Borematic enables the operator to take measurements more accurately and more quickly than ever before. One the origin point is set with the ORIGIN button, the Borematic retains the setting for the entire battery life. Therefore no longer repeated origin setting (presetting) is necessary.

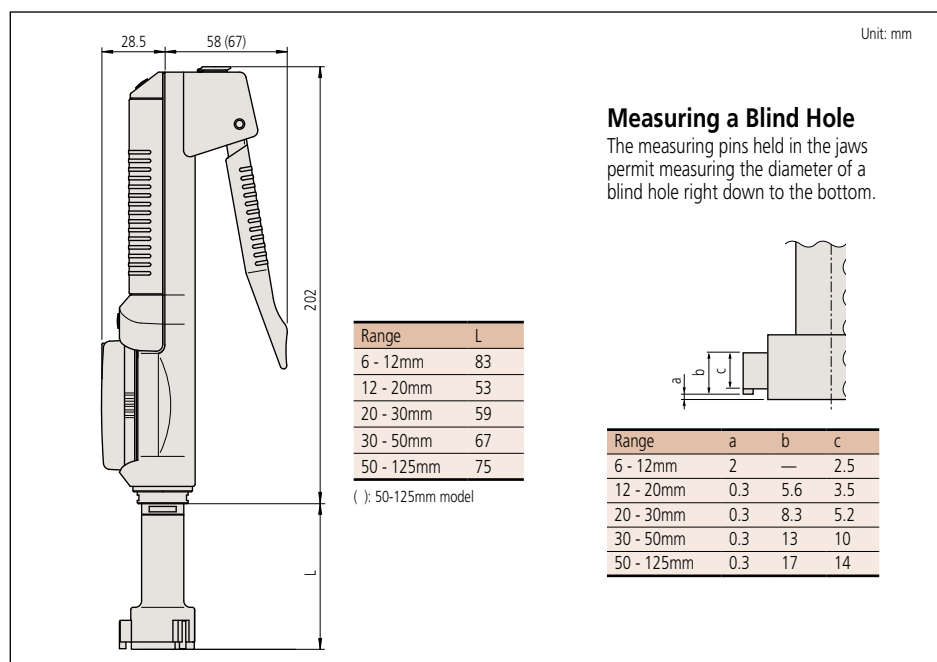
FEATURES

- Titanium-coated measuring pins (models over 12mm range) provide excellent durability and impact resistance and allow the instrument to measure right to the bottom of a blind hole.
- Large LCD digits of 8.5mm height for error-free reading.
- 330-degree rotatable display unit for easy reading at any angle.
- GO/NO-GO judgment function.
- The ABSOLUTE linear encoder eliminates the fear of over-speed errors.
- With SPC data output.
- Setting rings for origin point setting are optional.
- Can measure deep holes by attaching an optional extension rod.
- Measurement can be taken closer to the bottom of a blind bore.



Titanium coated contact points
(*-10" suffix models only)

DIMENSION



SPC



(Refer to the page 9 for details.)

ABSOLUTE
Absolute System Patented by MITUTOYO

(Refer to the page 9 for details.)

Technical Data

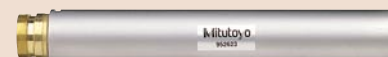
Accuracy: Refer to the list of specifications.
Resolution: 0.001mm or .00005"/0.001mm
Contact point: Carbide or titanium coating*
(*over 12mm/.5" models)
Measuring method: Three-point method
Display: LCD
Battery: SR44 (1 pc.) (938882)
Battery life: Approx. 1 year

Functions

Zero-setting, Preset, GO/NO-GO judgment, Data hold, Power ON/OFF, Data output, inch/mm conversion (inch/mm models)

Optional Accessory

- 937387:** SPC cable (1m)
- 965013:** SPC cable (2m)
- 952322:** Extension rod for 6 - 12mm (.275" - .500") gages
- 952621:** Extension rod for 12 - 20mm (.50" - .80") gages
- 952622:** Extension rod for 20 - 50mm (.8" - 2.0") gages
- 952623:** Extension rod for 50 - 125mm (2.0" - 5.0") gages
- : Setting ring (See page 122.)



Interchangeable-Contact Head Set



Complete-Unit Set



SPECIFICATION

Metric Individual		
Range	Order No.	Accuracy*
6 - 8mm	568-331	±5µm (within 5µm)
8 - 10mm	568-332	±5µm (within 5µm)
10 - 12mm	568-333	±5µm (within 5µm)
12 - 16mm	568-334-10	±5µm (within 5µm)
16 - 20mm	568-335-10	±5µm (within 5µm)
20 - 25mm	568-336-10	±6µm (within 6µm)
25 - 30mm	568-337-10	±6µm (within 6µm)
30 - 40mm	568-338-10	±6µm (within 6µm)
40 - 50mm	568-339-10	±6µm (within 6µm)
50 - 63mm	568-340-10	±6µm (within 6µm)
62 - 75mm	568-341-10	±6µm (within 6µm)
75 - 88mm	568-342-10	±6µm (within 6µm)
87 - 100mm	568-343-10	±6µm (within 6µm)
100 - 113mm	568-344-10	±6µm (within 6µm)
112 - 125mm	568-345-10	±6µm (within 6µm)
50 - 75mm	568-346-10	±6µm (within 6µm)
75 - 100mm	568-347-10	±6µm (within 6µm)
100 - 125mm	568-348-10	±6µm (within 6µm)

*Instrumental error excluding quantizing error (maximum error)

Inch/Metric Individual		
Range	Order No.	Accuracy
.275" - .350"	568-431	±.00025" (within .00025")
.350" - .425"	568-432	±.00025" (within .00025")
.425" - .500"	568-433	±.00025" (within .00025")
.50" - .65"	568-434-10	±.00025" (within .00025")
.65" - .80"	568-435-10	±.00025" (within .00025")
.8" - 1.0"	568-436-10	±.0003" (within .0003")
1.0" - 1.2"	568-437-10	±.0003" (within .0003")
1.2" - 1.6"	568-438-10	±.0003" (within .0003")
1.6" - 2.0"	568-439-10	±.0003" (within .0003")
2.0" - 2.5"	568-440-10	±.0003" (within .0003")
2.5" - 3.0"	568-441-10	±.0003" (within .0003")
3.0" - 3.5"	568-442-10	±.0003" (within .0003")
3.5" - 4.0"	568-443-10	±.0003" (within .0003")
4.0" - 4.5"	568-444-10	±.0003" (within .0003")
4.5" - 5.0"	568-445-10	±.0003" (within .0003")
2.0" - 3.0"	568-446-10	±.0003" (within .0003")
3.0" - 4.0"	568-447-10	±.0003" (within .0003")
4.0" - 5.0"	568-448-10	±.0003" (within .0003")

Complete-Unit Set

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

Metric Individual				
Range	Order No.	Individual range	Setting rings included	Remarks
6 - 12mm	568-981	6-8, 8-10, 10-12mm	ø8mm, ø10mm	
12 - 25mm	568-982-10	12-16, 16-20, 20-25mm	ø16mm, ø20mm	
25 - 50mm	568-983-10	25-30, 30-40, 40-50mm	ø30mm, ø40mm	
50 - 75mm	568-984-10	50-63, 62-75mm	ø62mm	
75 - 100mm	568-985-10	75-88, 87-100mm	ø87mm	
50 - 100mm	568-986-10	50-75*, 75-100mm*	ø62mm, ø82mm	

*interchangeable contact points (4 sets)

Inch Individual				
Range	Order No.	Individual range	Setting rings included	Remarks
.275" - .5"	568-987	.275-.35", .35-.425", .425-.5"	ø.35" DIA, ø.425" DIA	
.5" - 1"	568-988-10	.5-.65", .65-.8", .8-1"	ø.65" DIA, ø.8" DIA	
1" - 2"	568-989-10	1-1.2", 1.2-1.6", 1.6-2"	ø1.2" DIA, ø1.6" DIA	
2" - 3"	568-990-10	2-2.5", 2.5-3"	ø2.5" DIA	
3" - 4"	568-991-10	3-3.5", 3.5-4"	ø3.5" DIA	
2" - 4"	568-992-10	2-3"*, 3-4"*	ø2.5" DIA, ø3.5" DIA	

*interchangeable contact points (4 sets)

Interchangeable-Head Set

Each set includes one display unit with interchangeable measuring heads of the sizes specified.

Metric Individual				
Range	Order No.	Individual range	Setting rings included	Remarks
6 - 12mm	568-971	6-8, 8-10, 10-12mm	ø8mm, ø10mm	
12 - 25mm	568-972-10	12-16, 16-20, 20-25mm	ø16mm, ø20mm	
25 - 50mm	568-973-10	25-30, 30-40, 40-50mm	ø25mm, ø40mm	
50 - 100mm	568-975-10	50-63, 62-75, 75-88, 87-100mm	ø62mm, ø87mm	
50 - 100mm	568-976-10	50-75*, 75-100mm*	ø62mm, ø82mm	

*interchangeable contact points (4 sets)

Inch Individual				
Range	Order No.	Individual range	Setting rings included	Remarks
.275" - .5"	568-987	.275-.35", .35-.425", .425-.5"	ø.35" DIA, ø.425" DIA	
.5" - 1"	568-988-10	.5-.65", .65-.8", .8-1"	ø.65" DIA, ø.8" DIA	
1" - 2"	568-989-10	1-1.2", 1.2-1.6", 1.6-2"	ø1.2" DIA, ø1.6" DIA	
3" - 4"	568-991-10	2-2.5", 2.5-3", 3-3.5", 3.5-4"	ø2.5" DIA, ø3.5" DIA	
2" - 4"	568-992-10	2-3"*, 3-4"*	ø2.5" DIA, ø3.5" DIA	

*interchangeable contact points (4 sets)