

# **Bore Gages for Blind Holes**

New model measures blind-hole diameter with high accuracy and high durability.





## **Bore Gages for Blind Holes**

### **FEATURES**

- Capable of ID (inside diameter) measurement close to the bottom of a hole.
- Pendulum guide structure improves sliding.
- Carbide contact faces for durability.
- Grip is large and hollow to reduce effect of body heat on high-accuracy measurements.
- Extension rods (optional) can be attached for measuring deep holes.

## **SPECIFICATIONS**

- A Bore Gage Checker and a range of Setting (Unit: mm) Rings are available to aid in accurately setting thegage before making a measurement. • Alternate indicators may be used in place of
  - those recommended\*.
  - Some indicators and protection covers cannot be used with these bore gages. Contact a Mitutoyo sales office if considering the use of Dial or Digimatic indicators other than the recommended models.

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Order No.		511-415	511-425	511-435	511-416	511-426	511-436	511-417	511-427	511-437
Measuring range		15-35mm			35-60mm			50-150mm		
Indicators (low/high resolution)		_	2046SB	2109SB-10	-	2046SB	2109SB-10	-	2046SB	2109SB-10
	Wide-range accuracy					4µm				
Accuracy	Repeatability					1µm				
	Adjacent error	1µm								
Effective stroke of contact rod		1.2mm								
No. of anvils		11			6			11		
No. of replacement washers		1			4			4		
Order No.		511-418	511-428	511-438	511-419	511-429	511-439	511-420	511-430	511-440
Measuring range		.6"-1.4"			1.4"-2.4"			2"-6"		
Indicators (low/high resolution)			2922SB	2923SB-10	-	2922SB	2923SB-10	-	2922SB	2923SB-10
	Wide-range accuracy			<i>.</i>		.00016"				
	D	1				00004				

Accuracy Repeatability .00004" Adjacent error .00004 Effective stroke of contact rod 047 No. of anvils 11 6 11 No. of replacement washers 4 4

Notes: 1) A 10mm (.4") sub-anvil is supplied with 511-415/425/435/418/428/438 and a 50mm (2") sub-anvil is supplied with 511-417/ 427/437/420/430/440

2) It is not permissible to use a sub-anvil other than the standard accessory, or widen a measuring range by using multiple sub-anvils. (The measurement accuracy in such cases is not guaranteed.)

#### **Recommended dial indicators**

Metric : 2046SB (0.01mm) models 2972TB (0.01mm - One revolution type) 2109SB-10 (0.001mm) 2900SB-10 (0.001mm - One-revolution type)

Inch :2922SB (.0005") models 2977TB (.0005 "- One-revolution type) 2923SB-10 (.0001") 2910SB-10 (.0001 "- One-revolution type)

Metric models: 543-310B (0.001mm) Inch models: 543-312B (0.001mm/.00005")

**Recommended digimatic indicators** 

Note: Indicators equipped with rubber bellows, such as waterproof types, cannot be used.

#### DIMENSIONS





Mitutoyo America Corporation

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511-426



511-427

#### For Bore Gage Applications

