

# **Bore Gages for Blind Holes**

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



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# **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**

- (Unit: mm) A Bore Gage Checker and a range of Setting 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					.00016"				
	Democrated					00004				

 Indicators (low/high resolution)
 2922SB
 2923SB-10
 1
 2923SB-10
 1
 1
 1
 1

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.

 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) In models 2972TB (0.01mm - One revolution type) m 2109SB-10 (0.001mm) 2900SB-10 (0.001mm - One-revolution type)

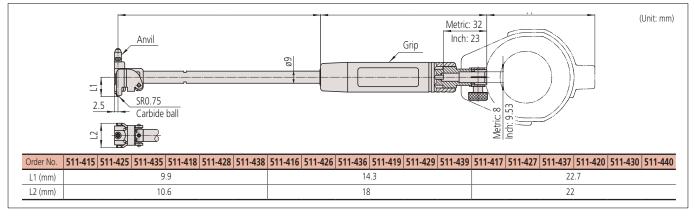
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Inch :2922SB (.0005") models 2977TB (.0005"- One-revolution type) 2923SB-10 (.0001") 2910SB-10 (.0001"- One-revolution type)

Metric models: **543-310B** (0.001mm) Inch models: **543-312B** (0.001mm/.00005") Note: Indicators equipped with rubber bellows, such as waterproof types, cannot be used.

**Recommended digimatic indicators** 

#### DIMENSIONS



Coordinate Measuring Machines Vision Measuring Systems Form Measurement Optical Measuring Sensor Systems Test Equipment and Seismometers Digital Scale and DRO Systems Small Tool Instruments

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and Data Management



511-426





#### For Bore Gage Applications

