

Bore Gages for Blind Holes

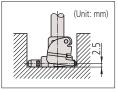




Bore Gages for Blind Holes

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.



- 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.



511-426



SPECIFICATIONS

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"				
Accuracy	Repeatability	lity .00004"								

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**.

2910SB-10 (.0001" - One-revolution type)

 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.)

models 2977TB (.0005" - One-revolution type)

:2922SB (.0005")

2923SB-10 (.0001")

Recommended digimatic indicators

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.

511-427

For Bore Gage Applications





DIMENSIONS

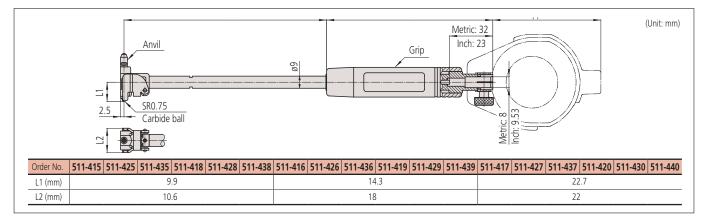
Metric: 2046SB (0.01mm)

Recommended dial indicators

2109SB-10 (0.001mm)

models 2972TB (0.01mm - One revolution type)

2900SB-10 (0.001mm - One-revolution type)



Mitutoyo

Mitutoyo America Corporation

www.mitutoyo.com 1-888-MITUTOYO (1-888-648-8869)

M³ Solution Centers:

Aurora, Illinois (Headquarters) Boston, Massachusetts Huntersville, North Carolina Mason, Ohio Plymouth, Michigan City of Industry, California Birmingham, Alabama Renton, Washington Houston, Texas



Find additional product literature and our product catalog

www.mitutoyo.com

Note: All information regarding our products, and in particular the illustrations, drawings, dimensional and performance data contained in this printed matter as well as other technical data are to be regarded approximate average values. We therefore reserve the right to make changes to the corresponding designs. The stated standards, similar technical regulations, descriptions and illustrations of the products were valid at the time of printing. In addition, the latest applicable version of our General Trading Conditions will apply. Only quotations submitted by ourselves may be regarded as definitive. Specifications are subject to change without notice.

Mitutoyo products are subject to US Export Administration Regulations (EAR). Re-export or relocation of our products may require prior approval by an appropriate governing authority.

Trademarks and Registrations

Designations used by companies to distinguish their products are often claimed as trademarks. In all instances where Mitutoyo America Corporation is aware of a claim, the product names appear in initial capital or all capital letters. The appropriate companies should be contacted for more complete trademark and registration information.

Coordinate Measuring Machines

Vision Measuring Systems

Form Measurement

Optical Measuring

Sensor Systems

Test Equipment and Seismometer

Digital Scale and DRO Systems

Small Tool Instruments and Data Management

0815-06 August 2015

© 2015 Mitutoyo America Corporation