

Bore Gauges

SERIES 511 – Small Hole Bore Gauge

- The interchangeable anvils used on this gauge are made of high-grade tool steel.
- Interchangeable washers 0.5 mm thick are supplied as standard accessories to enable setting the 10 - 18.5 mm / .4 - .74" models in small steps.
- The dial indicator is fully protected by a rugged cover.
- An optional inside-length standard, such as a setting ring or Inside Micro Checker (see pages C-37 to C-38 or page C-24, respectively), is required for accurately setting the gauge before measurement.



Technical Data

Accuracy: 5 μm / .0002"
 Repeatability: 2 μm / .00008"
 Narrow-range accuracy: 2 μm / .00008"



A heatshield prevents accuracy degradation due to hand heat during prolonged use.

Specifications

Metric

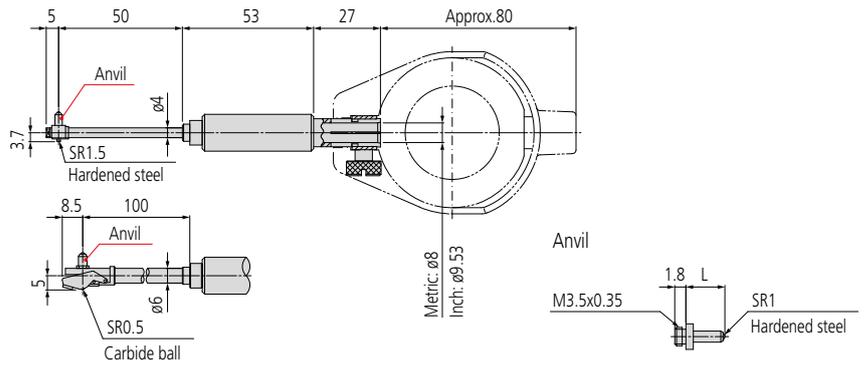
Code No.	Range	Measuring force	Content of set			Probing depth
			Bore gauge	Dial indicator	Anvils	
Graduation 0.001 mm						
511-210	6 - 10 mm	2 N or less	511-209	2109SB-10	9 pcs.	50 mm
511-203	10 - 18.5 mm		511-201			100 mm
Graduation 0.01 mm						
511-211	6 - 10 mm	2 N or less	511-209	2046SB	9 pcs.	50 mm
511-204	10 - 18.5 mm		511-201			100 mm

Inch

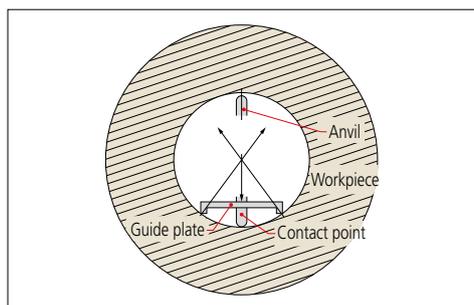
Code No.	Range	Measuring force	Content of set			Probing depth
			Bore gauge	Dial indicator	Anvils	
Graduation .0001"						
511-212	.24 - .4"	2 N or less	511-214	2923SB-10	9 pcs.	2"
511-206	.4 - .74"		511-205			4"
Graduation .0005"						
511-213	.24 - .4"	2 N or less	511-214	2922SB	9 pcs.	2"
511-207	.4 - .74"		511-205			4"

Dimensions

Unit: mm



Measuring range	Anvil		
	Marked No.	Size	L
6 - 10 mm/ .24 - .4"	1	6.0 mm / .24"	1.2 mm / .05"
	2	6.5 mm / .26"	1.7 mm / .07"
	3	7.0 mm / .28"	2.2 mm / .09"
	4	7.5 mm / .30"	2.7 mm / .11"
	5	8.0 mm / .32"	3.2 mm / .13"
	6	8.5 mm / .34"	3.7 mm / .15"
	7	9.0 mm / .36"	4.2 mm / .17"
	8	9.5 mm / .38"	4.7 mm / .19"
	9	10.0 mm / .40"	5.2 mm / .21"
10 - 18.5 mm/ .4 - .74"	1	10 mm / .40"	2 mm / .08"
	2	11 mm / .44"	3 mm / .12"
	3	12 mm / .48"	4 mm / .16"
	4	13 mm / .52"	5 mm / .20"
	5	14 mm / .56"	6 mm / .24"
	6	15 mm / .60"	7 mm / .28"
	7	16 mm / .64"	8 mm / .32"
	8	17 mm / .68"	9 mm / .36"
	9	18 mm / .72"	10 mm / .40"



How to measure a hole diameter

The 511 series provides a guide plate to align the hole or bore diameter with the measurement axis of the bore gauge.