

Bore Gauges

SERIES 511 — Standard Type

Mitutoyo offers a complete range of Bore Gauges, all of them with interchangeable anvils and the necessary accessories to perform close-tolerance ID measurements.

FEATURES

- Allows inside diameter measurement with high accuracy.
- Longer effective stroke (compared with the conventional product)
- Carbide is used for the contact point ensuring high durability and wear resistance.
- High-accuracy measurement is aided by a large grip with a sponge-like structure that reduces heat transfer from the operator's hand by 50%.
- Interchangeable washers 0.5mm thick (standard accessories) are supplied as standard accessories to enable setting in small steps.
- Optional extension rods can be attached for measuring deep holes. (For details, refer to page C-27.)
- A Bore Gauge Checker and a range of Setting Rings are available to aid in accurately setting a gauge before making a measurement. (For details, refer to pages C-28, C-29 and C-30.)



511-713

SPECIFICATIONS

Metric					
Range	Order No.	Content of set		Dial protection Cover Ass'y	Probe depth
		Bore gauge	Dial indicator		
18 - 35mm	511-701	511-701	Not supplied	Not supplied	100mm
35 - 60mm	511-702	511-702			150mm
50 - 150mm	511-703	511-703			150mm
100 - 160mm	511-704	511-704			150mm
160 - 250mm	511-705	511-705			250mm
250 - 400mm	511-706	511-706			250mm
18 - 35mm	511-721	511-701	2109SB-10	21DZA000	100mm
35 - 60mm	511-722	511-702			150mm
50 - 150mm	511-723	511-703			150mm
100 - 160mm	511-724	511-704			150mm
160 - 250mm	511-725	511-705			250mm
250 - 400mm	511-726	511-706			250mm
18 - 35mm	511-711	511-701	2046SB	21DZA000	100mm
35 - 60mm	511-712	511-702			150mm
50 - 150mm	511-713	511-703			150mm
100 - 160mm	511-714	511-704			150mm
160 - 250mm	511-715	511-705			250mm
250 - 400mm	511-716	511-706			250mm

0.001mm graduation

0.01mm graduation



511-921

Metric					
Range	Order No.	Content of set		Dial protection Cover Ass'y	Probe depth
		Bore gauge	Indicator		
18 - 150mm	511-921	511-701	2046SB	21DZA000	100mm (511-701)
	511-922	511-702	2109SB-10	21DZA000	150mm (511-702, 511-703)
	511-923	511-703	543-264B	21DZA000	

Inch					
Range	Order No.	Content of set		Dial protection Cover Ass'y	Probe depth
		Bore gauge	Dial indicator		
.7"-1.4"	511-731	511-731	Not supplied	Not supplied	4"
1.4"-2.5"	511-732	511-732			6"
2"-6"	511-733	511-733			6"
4"-6.5"	511-734	511-734			6"
6.5"-10"	511-735	511-735			10"
10"-16"	511-736	511-736			10"
.7"-1.4"	511-751	511-731	2923SB-10	21DZA000	4"
1.4"-2.5"	511-752	511-732			6"
2"-6"	511-753	511-733			6"
4"-6.5"	511-754	511-734			6"
6.5"-10"	511-755	511-735			10"
10"-16"	511-756	511-736			10"
.7"-1.4"	511-741	511-731	2922SB	21DZA000	4"
1.4"-2.5"	511-742	511-732			6"
2"-6"	511-743	511-733			6"
4"-6.5"	511-744	511-734			6"
6.5"-10"	511-745	511-735			10"
10"-16"	511-746	511-736			10"

.0001" graduation

.0005" graduation



511-931

Inch					
Range	Order No.	Content of set		Dial protection Cover Ass'y	Probe depth
		Bore gauge	Indicator		
.7"-6"	511-931	511-731	2922SB	21DZA000	4" (511-731)
	511-932	511-732	2923SB-10	21DZA000	6" (511-732, 511-733)
	511-933	511-733	543-266B	21DZA000	



New grip improves accuracy during prolonged use

Technical Data

Wide-range accuracy: 2 μm

Repeatability: 0.5 μm

Adjacent error: 1 μm

Optional Accessories

— : Setting ring (See page C-28.)

— : Extension rod (See page C-27.)