

## TUBULAR INSIDE MICROMETERS

MIT SERIES 139, 140:

HEAVY DUTY TYPE, MIT SERIES 139:

- Diameter of Extension Tubes: .669".
- Travel of Micrometer Head: 1".
- Graduation .001"

EXTRA-HEAVY DUTY TYPE, MIT SERIES 140:

- Diameter of Extension Tubes: 1.26".
- Travel of Micrometer Head: 2".
- Graduation .001"



## TAPER (BORE) GAGE

SERIES 247:



- Handy gage for measuring cylindrical bores, bearing work and for gaging slots.
- Made from polished stainless steel
- Clearly etched graduations for precise measurement. (Inch one side, mm's on the other)

Order No.	Range		Price
	Inch	mm	
2470115	1/32-5/8"	1 to 15	

## DIAL BORE GAGE SETS

SERIES 567:



For close tolerance I.D. measurements. Sets include dial indicator with protective cover, anvils, and spacers, in a fitted case.

INCH Graduation .0005"

Range	Bore Depth	Order No.	Price
.25 - .40"	1.57	5670010	
.40 - .70"	4	5670018	
.7 - 1.5"	5	5670035	
1.4 - 2.4"	6	5670060	
2.0 - 6.0"	6	5670150	

METRIC Graduation .01mm

Range	Bore Depth	Order No.	Price
6-10mm	40mm	5670610	
10-18mm	100mm	5671018	
18-35mm	125mm	5671835	
35-50mm	150mm	5673550	
50-100mm	150mm	5675010	
50-160mm	150mm	5675016	

METRIC: 38 - 308mm Range

Total Range with Extensions	Dial Indicator Graduation	Catalog No.	EDP No.	Price
Max. Bore Depth 100mm				
Max. Plunger Travel 0.76mm				
38-76.2mm	0.002mm	84MZ-161-4J	64922	
38-76.2mm	0.01mm	84MZ-181-4J	64923	
Max. Bore Depth 150mm				
Max. Plunger Travel 0.9mm				
76.2-131.75mm	0.002mm	84MZ-161-5J	64924	
76.2-131.75mm	0.01mm	84MZ-181-5J	64925	
127-206.37mm	0.002mm	84MZ-161-6J	64926	
127-206.37mm	0.01mm	84MZ-181-6J	64927	
Max. Bore Depth 175mm				
Max. Plunger Travel 0.9mm				
203.2-308mm	0.002mm	84MZ-161-75	64928	
203.2-308mm	0.01mm	84MZ-181-75	64929	

PRECISION TOOLS

## INSIDE DIAMETER MICROMETERS

### LARGE RANGE TUBULAR TYPE

SERIES 203:



- Carbide measuring faces
- Laser engraved graduations
- Thermal insulator on each rod
- Each rod marked with length
- Laser engraved grads.
- Carbide measuring faces
- Chrome-plated



Range	Graduation	Order No.	Price
2-10"	.001"	203210	
4-36"	.001"	203436	
6-55"	.001"	203655	

## DIAL BORE GAGES WITH 3-POINT CONTACT

STARRETT SERIES 84:

For inspecting bores and checking hole size. An adjusting range screw with positive locking feature and two centralizing plungers provides three-point contact for true alignment. The gaging contact and centralizing plungers are hardened tool steel, spring loaded for sensitivity and repeatability, and travel in bronze bushings. The range screw, also hardened tool steel, is inserted in a steel sleeve. Housing and knurled handle are aluminum with black finish. Furnished in case.



INCH: 1-1/2 - 12-1/8" Range

Total Range with Extensions	Dial Indicator Graduation	Catalog No.	EDP No.	Price
Max. Bore Depth 4" - Max. Plunger Travel .030"				
1-1/2 - 3"	.0001"	84Z-111-4J	56264	
1-1/2 - 3"	.0005	84Z-134-4J	56270	
Max. Bore Depth 6" - Max. Plunger Travel .035"				
3 - 5-13/16	.0001	84Z-111-5J	50386	
3 - 5-13/16	.0005	84Z-134-5J	50392	
5 - 8-1/8	.0001	84Z-111-6J	50388	
5 - 8-1/8	.0005	84Z-134-6J	50394	
Max. Bore Depth 7" - Max. Plunger Travel .035"				
8 - 12-1/8"	.0001	84Z-111-7J	50390	
8 - 12-1/8"	.0005	84Z-134-7J	50396	

## DIAL BORE GAGE SETS

STARRETT SERIES 82:

- Split-ball contact is self-centering for rapid in-process and final inspection.
- Graduation is .0001".
- Interchangeable probes are hard chrome plated and polished.
- Sets include dial indicator, body and actuating rod, and probes in attractive, protective case.
- Two-point contact useful for detecting hole geometry problems like taper, bell-mouth and out-of-roundness.



### INCH

Total Range	No. of Probes	Max. Bore Depth	Catalog No.	EDP No.	Price
.107-.266"	5	13/16"	82AZ	55791	
.217-.594"	6	1 3/4"	82BZ	55792	
.560-1.565"	8	5"	82CZ	55793	

\* Includes insertion of gage body into bore.

### METRIC

Total Range	No. of Probes	Max. Bore Depth	Catalog No.	EDP No.	Price
2.7-6.76mm	5	20.6mm	82MAZ	66010	
5.5-15.1 mm	6	44mm	82MBZ	66011	
14.2-39.75mm	8	125mm*	82MCZ	66012	

\* Includes insertion of gage body into bore.

## DIGITAL BORE GAGE

SERIES 567:

- For inside measurements
- Zero setting at any position
- With data output interface
- Metric/Inch system conversion at any position

Range	Resolution	Order No.	Price
2"-4"/50-100mm	0.005"/0.01mm	5670204	
2"-6.125"/50-160mm	0.005"/0.01mm	5670206	
4"-6.125"/100-160mm	0.005"/0.01mm	5670406	
6.125"-10"/160-250mm	0.005"/0.01mm	5671610	



## BORE GAGES

MIT SERIES 511:



MITUTOYO offers a complete selection of Dial Bore Gages, all of them with interchangeable anvils and necessary accessories to perform close tolerance I.D. measurements. Some of the larger 511 Series Bore Gages are equipped with a unique guiding device which facilitates accurate measurement of the bore because it is self-centering. The supplied AGD Series 2 Dial Indicator is fully protected by a rugged cover.



- All MITUTOYO Dial Bore Gages are supplied with AGD Series 2 Dial Indicator and fitted carrying case.
- Dial Protection cover is supplied as standard (Part No. 950658).
- A reference chart is furnished which indicates the spacer and rod sizes to be selected for the specific range.
- Extension collars and rods available to increase Measuring Range; please inquire.

Order No.	Probe Depth	Graduation	No. of Anvils	No. of Spacers	Price
<b>INCH SETS -</b>					
		Grad. .0005" with 2922FB Dial Indicator			
		Grad. .0001" with 2923FB-10 Dial Indicator			
511911	4 / 6"	.0005 (2922)	25	7	
511912	4 / 6"	.0001 (2923)	25	7	
<b>METRIC SETS -</b>					
		Grad. 0.01mm with 2046FB Dial Indicator			
		Grad. 0.001mm with 2109FB Dial Indicator			
511-901	100/150mm	0.01mm	26 pcs	7	
511-902	100/150mm	0.001mm	26 pcs	7	

Order No.	Range	Probe Depth	Grad.	No. of Anvils	No. of Spacers	Price
<b>INCH - Graduation .0001" with 2923FB-10 Dial Indicator</b>						
511212	.24 - .4	2"	.0001	9	-	
9511206	.4 - .74	4	.0001	9	1	
511163	.74 - 1.4	4	.0001	8	3	
511164	1.4 - 2.5	6	.0001	6	4	
511166	2.0 - 6.0	6	.0001	11	4	
511187	4.0 - 6.5	6	.0001	13	4	
511188	6.5 - 10.0	10	.0001	6	6	
511189	10.0 - 16.0	10	.0001	5	6	
<b>INCH - Graduation .0005" with 2922FB Dial Indicator</b>						
511213	.24 - .4	2"	.0005	9	-	
511207	.4 - .74	4	.0005	9	1	
511159	.74 - 1.4	4	.0005	8	3	
511160	1.4 - 2.5	6	.0005	6	4	
511162	2.0 - 6.0	6	.0005	11	4	
511184	4.0 - 6.5	6	.0005	13	4	
511185	6.5 - 10.0	10	.0005	6	6	
511186	10.0 - 16.0	10	.0005	5	6	

Order No.	Range	Probe Depth	Grad.	No. of Anvils	No. of Spacers	Price
<b>METRIC - Graduation 0.01mm with 2046FB Dial Indicator</b>						
511-204	10-18.5mm	90mm	0.01mm	9 pcs.	1	
511-171	18-35mm	100mm	0.01mm	9 pcs.	2	
511-172	35-60mm	150mm	0.01mm	6 pcs.	4	
511-173	50-100mm	150mm	0.01mm	11 pcs.	4	
511-174	50-150mm	150mm	0.01mm	11 pcs.	4	
511-175	100-160mm	150mm	0.01mm	13 pcs.	4	
511-176	160-250mm	250mm	0.01mm	6 pcs.	7	
511-177	250-400mm	250mm	0.01mm	5 pcs.	7	
<b>METRIC - Graduation 0.001mm with 2109FB Dial Indicator</b>						
511-203	10-18.5mm	90mm	0.001mm	9 pcs.	1	
511-167	18-35mm	100mm	0.001mm	9 pcs.	2	
511-168	35-60mm	150mm	0.001mm	6 pcs.	4	
511-169	50-100mm	150mm	0.001mm	11 pcs.	4	
511-170	50-150mm	150mm	0.001mm	11 pcs.	4	
511-178	100-160mm	150mm	0.001mm	13 pcs.	4	
511-179	160-250mm	250mm	0.001mm	6 pcs.	7	
511-180	250-400mm	250mm	0.001mm	5 pcs.	7	