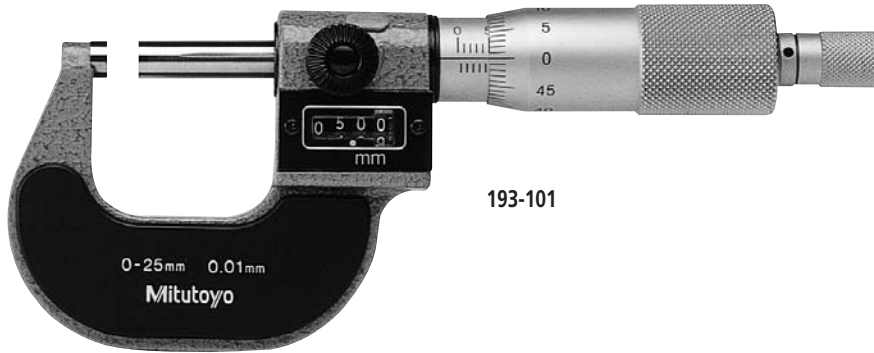


# Digit Outside Micrometers

## SERIES 193



193-101

### FEATURES

- Mechanical digit counter for quick and error-free reading.
- Direct readout on the counter to 0.01mm (.001").
- Carbide-tipped measuring faces for long life.
- Provided with a standard except for 25mm (1") model.

### SPECIFICATIONS

Metric		With ratchet stop	
Range	Order No.	Graduation	Accuracy
0 - 25mm	193-101	0.01mm	±2μm
	193-111	0.001mm	±2μm
25 - 50mm	193-102	0.01mm	±2μm
	193-112	0.001mm	±2μm
50 - 75mm	193-103	0.01mm	±2μm
	193-113	0.001mm	±2μm
75 - 100mm	193-104	0.01mm	±3μm
	193-114	0.001mm	±3μm
100 - 125mm	193-305	0.01mm	±3μm
125 - 150mm	193-306	0.01mm	±3μm
150 - 175mm	193-307	0.01mm	±4μm
175 - 200mm	193-308	0.01mm	±4μm
200 - 225mm	193-309	0.01mm	±4μm
225 - 250mm	193-310	0.01mm	±5μm

Inch		With ratchet stop	
Range	Order No.	Graduation	Accuracy
2" - 3"	193-213	.0001"	±.0001"
3" - 4"	193-214	.0001"	±.00015"
4" - 5"	193-415	.0001"	±.00015"
5" - 6"	193-416	.0001"	±.00015"
6" - 7"	193-417	.0001"	±.0002"
7" - 8"	193-418	.0001"	±.0002"
8" - 9"	193-419	.0001"	±.0002"
9" - 10"	193-420	.0001"	±.00025"
10" - 11"	193-421	.0001"	±.00025"

Note: 0.001mm (.0001") reading is obtained with vernier.

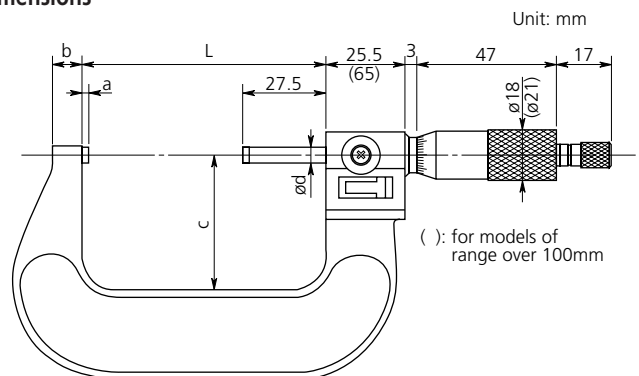
Inch		With friction thimble	
Range	Order No.	Graduation	Accuracy
0 - 1"	193-201	.001"	±.0001"
	193-211	.0001"	±.0001"
1" - 2"	193-202	.001"	±.0001"
	193-212	.0001"	±.0001"

Note: .0001" reading is obtained with vernier.

### Measuring faces

- Flatness: 0.6μm (.000024") for models up to 300mm (12")
- Parallelism:  $(2+L/100)\mu\text{m} [(.00008+.00004 (L/4))"]^*$   
\*L=Maximum measuring length (mm) [(inch)], Fraction rounded down.

### Dimensions



Range	L	a	b	c	d
0 - 25mm	30	2.5	5	26	6.35
25 - 50mm	55	2.5	8	32	6.35
50 - 75mm	80	2.5	9	45	6.35
75 - 100mm	105	2.5	9	57	6.35
100 - 125mm	137	6	18	80	8
125 - 150mm	162	6	18	93	8
150 - 175mm	187	6	18	106	8
175 - 200mm	212	6	19	119	8
200 - 225mm	238	7	20	132	8
225 - 250mm	263	7	19	145	8
250 - 275mm	289	8	19	158	8
275 - 300mm	314	8	20	171	8

Note: The shape of the thimble changes on the model with Friction Thimble.