

Digit Outside Micrometers

SERIES 193



193-101

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

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
	193-306	0.01mm	±3µm
125 - 150mm	193-306	0.01mm	±3µm
	193-307	0.01mm	±4µm
150 - 175mm	193-307	0.01mm	±4µm
	193-308	0.01mm	±4µm
175 - 200mm	193-308	0.01mm	±4µm
	193-309	0.01mm	±4µm
200 - 225mm	193-309	0.01mm	±4µm
	193-310	0.01mm	±5µm
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.

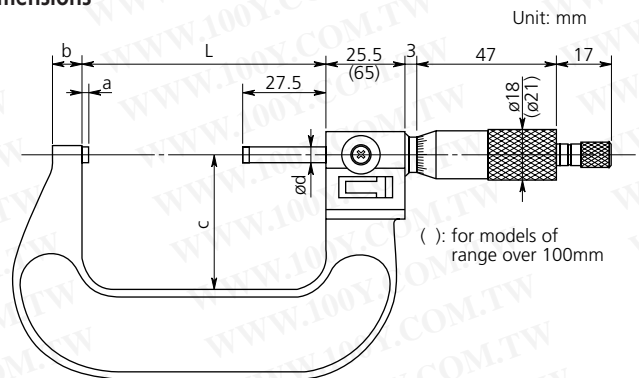
Inch		With friction thimble	
Range	Order No.	Graduation	Accuracy
0 - 1"	193-201	.001"	±.0001"
	193-211	.0001"	±.0001"
1" - 2"	193-202	.001"	±.0001"
	193-212	.0001"	±.0001"

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

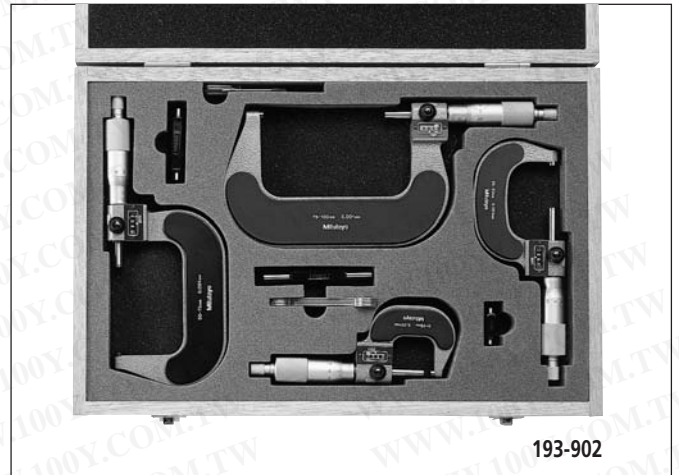


Range	L	a	b	c	d
0 - 25mm	30	2.5	5	26	6.35
25 - 50mm	55	2.5	8	32	6.35
50 - 75mm	80	2.5	9	45	6.35
75 - 100mm	105	2.5	9	57	6.35
100 - 125mm	137	6	18	80	8
125 - 150mm	162	6	18	93	8
150 - 175mm	187	6	18	106	8
175 - 200mm	212	6	19	119	8
200 - 225mm	238	7	20	132	8
225 - 250mm	263	7	19	145	8
250 - 275mm	289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

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

Metric	Micrometer set	
Range	Order No.	Assortment of micrometers
0 - 75mm (3 mikes/set)	193-901	• 193-101, 193-102, 193-103 • 2 micrometer standards
0 - 100mm (4 mikes/set)	193-902	• 193-101, 193-102, 193-103, 193-104 • 3 micrometer standards
0 - 150mm (6 mikes/set)	193-908	• 193-101, 193-102, 193-103, 193-104, 193-305, 193-306 • 5 micrometer standards

Inch	Micrometer set	
Range	Order No.	Assortment of micrometers
0 - 3" (3 mikes/set)	193-923	• 193-211, 193-212, 193-213 • 2 micrometer standards
0 - 6" (6 mikes/set)	193-930	• 193-211, 193-212, 193-213, 193-214, 193-415, 193-416 • 5 micrometer standards



193-902

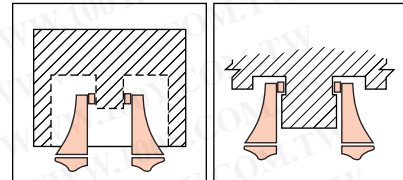
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Caliper Type Micrometers

SERIES 343, 143



343-250



FEATURES

- Carbide-tipped measuring faces.
- With Ratchet Stop for constant force.
- Provided with a standard except for 25mm (1") model.

SPECIFICATIONS

Metric	Digital model		
Range	Order No.	Resolution	Accuracy
0 - 25mm	343-250	0.001mm	±5μm
25 - 50mm	343-251	0.001mm	±6μm
50 - 75mm	343-252	0.001mm	±7μm
75 - 100mm	343-253	0.001mm	±8μm

Excluding quantizing error

Inch/Metric	Digital model		
Range	Order No.	Resolution	Accuracy
0 - 1"	343-350	.00005"/0.001mm	±.00025"
1" - 2"	343-351	.00005"/0.001mm	±.0003"
2" - 3"	343-352	.00005"/0.001mm	±.00035"
3" - 4"	343-353	.00005"/0.001mm	±.0004"

Excluding quantizing error

Metric	Range	Order No.	Graduation	Accuracy
	0 - 25mm	143-101	0.01mm	±5μm
	25 - 50mm	143-102	0.01mm	±6μm
	50 - 75mm	143-103	0.01mm	±7μm
	75 - 100mm	143-104	0.01mm	±8μm
	100 - 125mm	143-105	0.01mm	±9μm

Models with a range up to 300mm are available.

Inch	Range	Order No.	Graduation	Accuracy
	0 - 1"	143-121	.001"	±.00025"
	1" - 2"	143-122	.001"	±.0003"

Models with a range up to 4" are available.

Measuring faces

- Flatness: 0.3μm (.000012")
 - Parallelism: (3+L/75)μm [(0.00012+.00004 (L/3))"]*
- * L=Maximum measuring length (mm) [(inch)], Fraction rounded down

