# Micrometer

The origin of Mitutoyo's trustworthy brand of small tool instruments

### **Indicating Micrometers SERIES 510**

- Suited to the measurement of low-volume manufactured parts.
- Easy to use when operating one-handed due to retractable anvil.
- In the 25mm measuring range, the model lineup offers a choice of left or right positioning of the anvil-retraction button.
- Greatly improved accuracy: indication error and graduation of 1µm.
- Water-proof to protection level IP54.
- Hard-coated crystal: enhanced oil and scratch
- Indicator scale is large and easy-to-read.
- The zero position and adjustable limit markers, for GO/±NG testing, are easily set.
- Measuring faces: Carbide



(Refer to page X for details.)

#### **Technical Data**

Flatness: 0.3µm/.000012"

Parallelism: 0.6µm/.000024" for models up to 50mm/2" 1µm/ .00004" for models over 50mm/ 2"

Accuracy: ±2µm

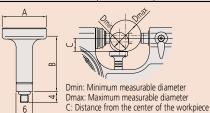
Spindle feed error: 3µm/ .00015" Dispersion of indication: 0.4µm/ .00002" Dial indication accuracy: 1µm/ .00005' Standard accessories: Reference bar, 1 pc (except for measuring range 0-25mm (0-1") models)

Spanner (200154), 1 pc

#### Workpiece stop (optional)

Realizes more stable measurement. Three types are available to suit workpieces of different

		UIIIL. IIIIII
Range	А	В
Workpiece stop A 04AZA124	ø16	23
Workpiece stop B <b>04AZA125</b>	ø14	20.5
Workpiece stop C 04AZA126	ø14	15



to the upper surface of the workpiece stop

Order No <b>510-121</b> , <b>51</b>	Unit: mm		
	Dmin	Dmax	C
Workpiece stop A	N/A	N/A	N/A
Workpiece stop B	4	16	5.0
Workpiece stop C	15	25	10.5
<b>510-122</b> and <b>510-1</b>	32		
	Dmin	Dmax	C
Workpiece stop A	25	37	15.5
Workpiece stop B	30	42	18.0
Workpiece stop C	41	50	23.5
510-123 and 510-1	33		
	Dmin	Dmax	C
Workpiece stop A	50	61	27.5
Workpiece stop B	54	66	30.0
Workpiece stop C	65	75	35.5
510-124 and 510-1	34		

510-124 and 510-134							
	Dmin	Dmax	С				
Workpiece stop A	75	87	40.5				
Workpiece stop B	80	92	43.0				
Workpiece stop C	91	100	48.2				







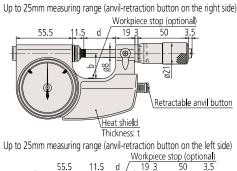


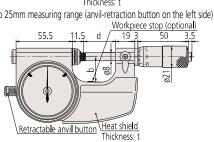
## **SPECIFICATIONS**

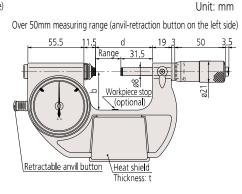
Metric								
Order	r No.	Range	Indicating range	Graduation	Dial graduation	Measuring force	Anvil retraction button	Mass
510-1	121	0 - 25mm					Right side	520g
510-1	141	0 - 23111111						530g
510-	122	25 - 50mm	±0.06mm	0.001mm	0.001mm	5 - 10N	Left side	670g
510-	123	50 - 75mm						820g
510-	124	75 - 100mm						970g

Inch	ı						
Order No.	Range	Indicating range	Graduation	Dial graduation	Measuring force	Anvil retraction button	Mass
510-131	0 -1"					Right side	520g
510-151	1 0 - 1						530g
510-132	1" - 2"	±.0023"	.0001 "	.00005"	5 - 10N	Left side	670g
510-133	2" - 3"						820g
510-134	3" - 4"						970g

## **DIMENSIONS**







Range	b	d	t
0 - 25mm	25	31.5	16.4
25 - 50mm	38	56.5	
50 - 75mm	50	81.5	16
75 - 100mm	63	106.5	