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 25 mm 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 1 µm.
- IP protection level: 54, coolant-splash resistant during grinding process.
- Hard-coated crystal: enhanced oil and scratch resistance.
- 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.







Unit: mm

021

16.4

16

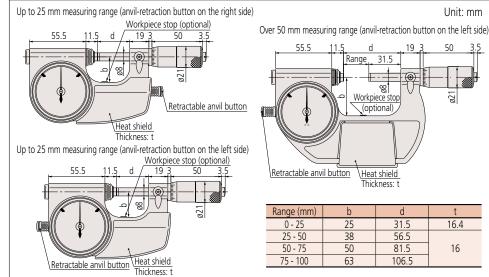
SPECIFICATIONS Motric

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

Inch	
Orde	

Order No.	Range (in)	Indicating range (in)	Graduation (in)	Dial graduation (in)	Measuring force (N)	Anvil retraction button	Mass (g)
510-131	0 - 1					Right side	520
510-151	0-1						530
510-132	1 - 2	±0.0023	0.0001	0.00005	5 - 10	Left side	670
510-133	2 - 3]					820
510-134	3 - 4						970

DIMENSIONS



(IP)54

Technical Data

- Flatness: 0.3 µm/0.000012 in
- \bullet Parallelism: 0.6 $\mu m/0.000024$ in for models up to 50 mm/2 in 1 $\mu m/0.00004$ in for models over 50 mm/2 in
- Accuracy: ±2 µm/±0.0001 in
- Spindle feed error: 3 µm/0.00015 in
- \bullet Dispersion of indication: 0.4 $\mu m/0.00002$ in • Dial indication accuracy: 1 µm/0.00005 in

Standard Accessories

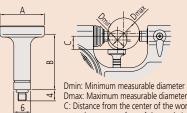
Reference bar, 1 pc.

(except for measuring range 0-25 mm (0-1 in) models) Spanner (**200154**), 1 pc.

Workpiece Stop (optional)

- Produces more stable measurement. • Three types are available to suit workpieces of different
- sizes

		Unit: mm
Range	A	В
Workpiece stop A 04AZA124	ø16	23
Workpiece stop B 04AZA125	ø14	20.5
Workpiece stop C 04AZA126	ø14	15



C: Distance from the center of the workpiece to the upper surface of the workpiece stop

• Order No 510-121, 510-141, 510-131, 510-151 Unit: mm

	Dmin	Dmax	С				
Workpiece stop A	N/A	N/A	N/A				
Workpiece stop B	4	16	5.0				
Workpiece stop C	15	25	10.5				
• 510-122 and 510-132							
	Dmin	Dmax	С				
Workpiece stop A	25	37	15.5				
Workpiece stop B	30	42	18.0				
Workpiece stop C	41	50	23.5				
• 510-123 and 510-133							
	Dmin	Dmax	С				
Workpiece stop A	50	61	27.5				
Workpiece stop B	54	66	30.0				
Workpiece stop C	65	75	35.5				
• 510-124 and 510-134							
	Dmin	Dmax	С				
Workpiece stop A	75	87	40.5				
Workpiece stop B	80	92	43.0				

91

Workpiece stop C

100

48.2

Mituto