

Micrometers

SERIES 510 – Indicating Micrometer

- 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, models are available that offer left or right positioning of the anvil-retraction button.
- Water resistant to protection level IP54.
- Greatly improved accuracy: indication error and graduation of 1 µm.
- Hard-coated crystal: enhanced oil and scratch resistance.
- Indicator scale is large and easy-to-read.
- Easily set zero position and adjustable limit markers for GO/NO-GO testing.
- Measuring faces: carbide.

B



510-122

Specifications

Metric					
Code No.	Range	Indicating range	Graduation	Dial graduation	Measuring force
510-121	0-25 mm	±0.06 mm	0.001 mm	0.001 mm	5-10 N
510-122	25-50 mm				
510-123	50-75 mm				
510-124	75-100 mm				

Inch					
Code No.	Range	Indicating range	Graduation	Dial graduation	Measuring force
510-131	0-1"	±.0023"	.0001"	.00005"	5-10 N
510-132	1-2"				
510-133	2-3"				
510-134	3-4"				

Dimensions

25 mm maximum measuring range models (anvil-retraction button on the right side) Unit: mm

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

Models over 25 mm maximum measuring range (anvil-retraction button on the left side)

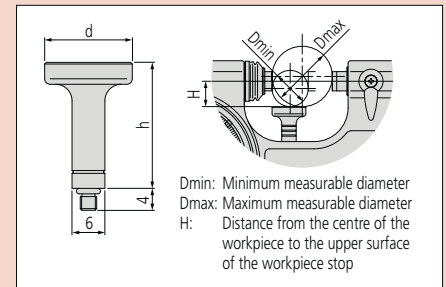
Technical Data

Flatness:	0.3 µm / .000012"
Parallelism:	0.6 µm / .000024" for models up to 50 mm / 2", 1 µm / .00004" for models over 50 mm / 2"
Accuracy:	±2 µm
Spindle feed error:	3 µm / .00015"
Repeatability:	0.4 µm / .00002"
Dial indication accuracy:	1 µm / .00005"

Workpiece Stop (optional)

Enables a more stable measurement. Three types with various heights (h) are available to suit workpieces of different sizes.

Code No.	Description	d	h
04AZA124	Type A	ø16	23
04AZA125	Type B	ø14	20.5
04AZA126	Type C	ø14	15



Description	Dmin	Dmax	H
Code No. 510-121 and 510-131			
Type A	N/A	N/A	N/A
Type B	4 mm	16 mm	5.0 mm
Type C	15 mm	25 mm	10.5 mm
Code No. 510-122 and 510-132			
Type A	25 mm	37 mm	15.5 mm
Type B	30 mm	42 mm	18.0 mm
Type C	41 mm	50 mm	23.5 mm
Code No. 510-123 and 510-133			
Type A	50 mm	61 mm	27.5 mm
Type B	54 mm	66 mm	30.0 mm
Type C	65 mm	75 mm	35.5 mm
Code No. 510-124 and 510-134			
Type A	75 mm	87 mm	40.5 mm
Type B	80 mm	92 mm	43.0 mm
Type C	91 mm	100 mm	48.2 mm

