

Technical Data

- Indicator
 Indicating range: ± 0.06 mm/ ± 0.0023 in
 Repeatability of indication: $0.4 \mu\text{m}/0.00002$ in
 Dial indication accuracy: $1 \mu\text{m}/0.00005$ in
- Flatness: $0.3 \mu\text{m}/0.000012$ in
- Parallelism: $0.6 \mu\text{m}/0.000024$ in for models up to 50 mm/2 in measuring range
 $1 \mu\text{m}/0.00004$ in for models over 50 mm/2 in measuring range



**Dial Snap Meters
SERIES 523**

- Suited for the measurement of mass-produced parts.
- Designed for measurement using a stand: produces stable measurement.
- Greatly improved accuracy: indication error and graduation of $1 \mu\text{m}$.
- 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.
- Easily settable adjustable limit markers for GO/ \pm NG testing.
- Equipped with an elevating workpiece stop as standard.
- Measuring faces: Carbide.



523-121

SPECIFICATIONS

Metric				
Order No.	Range (mm)	Dial graduation (mm)	Measuring force (N)	Mass (g)
523-121	0 - 25	0.001	5 - 10	740
523-122	25 - 50			840
523-123	50 - 75			950
523-124	75 - 100			1080
Inch				
Order No.	Range (in)	Dial graduation (in)	Measuring force (N)	Mass (g)
523-131	0 - 1	0.00005	5 - 10	740
523-132	1 - 2			840
523-133	2 - 3			950
523-134	3 - 4			1080

DIMENSIONS

Unit: mm

Range (mm)	b	d
0 - 25	25	31
25 - 50	35	56
50 - 75	47	81
75 - 100	60	106

Micrometer

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

Snap Meters SERIES 523

- Suited for the measurement of mass-produced parts.
- Various types of indicator can be selected according to the measurement application.
- Measuring faces: Carbide.



523-141
(Indicator: optional)

SPECIFICATIONS

Metric

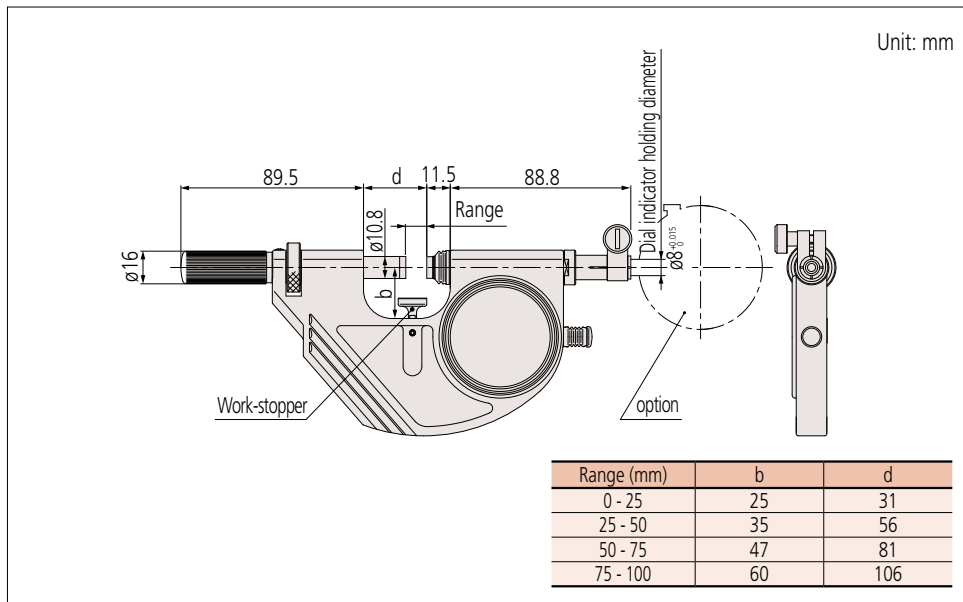
Order No.	Range (mm)	Anvil movement (mm)	Measuring force* (N)	Mass (g)
523-141	0 - 25	2	5 - 10	710
523-142	25 - 50			810
523-143	50 - 75			920
523-144	75 - 100			1050

Inch

Order No.	Range (in)	Anvil movement (in)	Measuring force* (N)	Mass (g)
523-151	0 - 1	0.078	5 - 10	710
523-152	1 - 2			810
523-153	2 - 3			920
523-154	3 - 4			1050

* Measured at the position where the anvil is retracted by 1 mm from the free position without installing the indicator.

DIMENSIONS



Accuracy

- Flatness: 0.3 μm /0.000012 in
- Parallelism: 0.6 μm /0.000024 in for models up to 50 mm/2 in
1 μm /0.00004 in for models over 50 mm/2 in
- Repeatability of indication: 0.4 μm /0.00002 in

Typical Indicators Used with Gage

- ID-C (0.001 mm)/**543-390B**
- LGF-L (0.0001 mm)/**542-181** & Counter **542-015**



ABS Digimatic Indicator



Linear Gage and counter