



(Refer to page X for details.)

Technical Data

Indicator
 Indicating range: $\pm 0.06\text{mm}/\pm .0023''$
 Repeatability of indication: $0.4\mu\text{m}/.00002''$
 Dial indication accuracy: $1\mu\text{m}/.00005''$
 Flatness: $0.3\mu\text{m}/.000012''$
 Parallelism: $0.6\mu\text{m}/.000024''$ for models up to 50mm/2" measuring range
 $1\mu\text{m}/.00004''$ for models over 50mm/2" measuring range



Dial Snap Meters SERIES 523

- Suited to the measurement of mass-produced parts.
- Designed for measurement using a stand: realizes stable measurement.
- Greatly improved accuracy: indication error and graduation of $1\mu\text{m}$.
- Water-proof to protection level IP54.
- 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	Dial graduation	Measuring force	Mass
523-121	0 - 25mm	0.001mm	5 - 10N	740g
523-122	25 - 50mm			840g
523-123	50 - 75mm			950g
523-124	75 - 100mm			1080g
Inch				
Order No.	Range	Dial graduation	Measuring force	Mass
523-131	0 - 1"	.00005"	5 - 10N	740g
523-132	1" - 2"			840g
523-133	2" - 3"			950g
523-134	3" - 4"			1080g

DIMENSIONS

Unit: mm

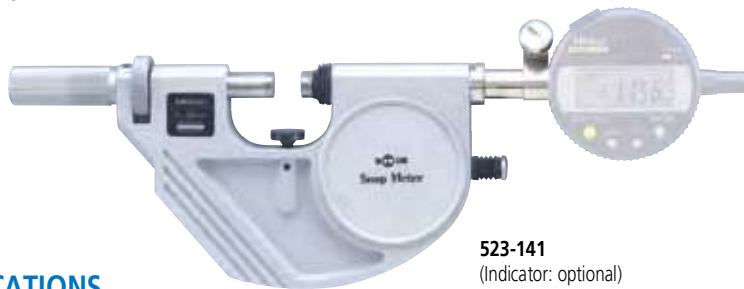
Range	b	d
0 - 25mm	25	31
25 - 50mm	35	56
50 - 75mm	47	81
75 - 100mm	60	106

Micrometer

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

Snap Meters SERIES 523

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



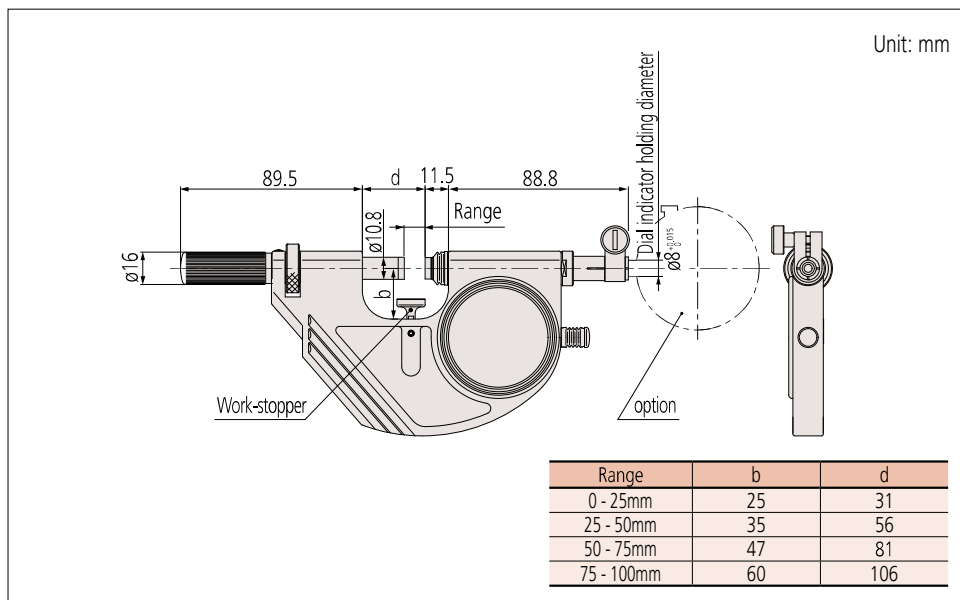
523-141
(Indicator: optional)

SPECIFICATIONS

Metric				
Order No.	Range	Anvil movement	Measuring force*	Mass
523-141	0 - 25mm	2mm	5 - 10N	710g
523-142	25 - 50mm			810g
523-143	50 - 75mm			920g
523-144	75 - 100mm			1050g
Inch				
Order No.	Range	Anvil movement	Measuring force*	Mass
523-151	0 - 1"	.078"	5 - 10N	710g
523-152	1" - 2"			810g
523-153	2" - 3"			920g
523-154	3" - 4"			1050g

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

DIMENSIONS



Accuracy

Flatness: 0.3 μ m/.000012"
 Parallelism: 0.6 μ m/.000024" for models up to 50mm/2"
 1 μ m/.00004" for models over 50mm/2"
 Repeatability of indication: 0.4 μ m/.00002"

Typical Indicators used with gage

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



ABS Digimatic Indicator



Linear Gage and counter