

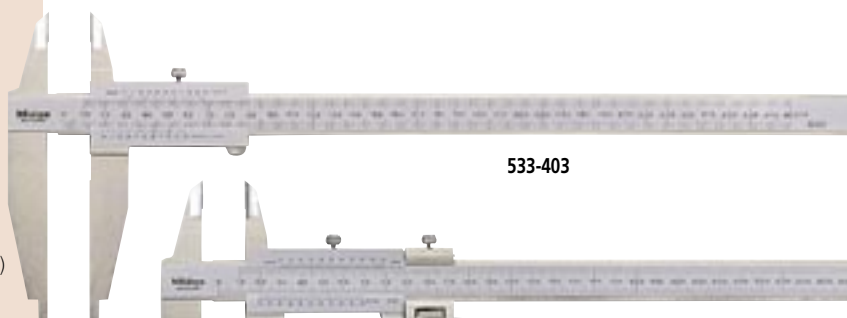


ABSOLUTE®
Absolute System Patented by MITUTOYO

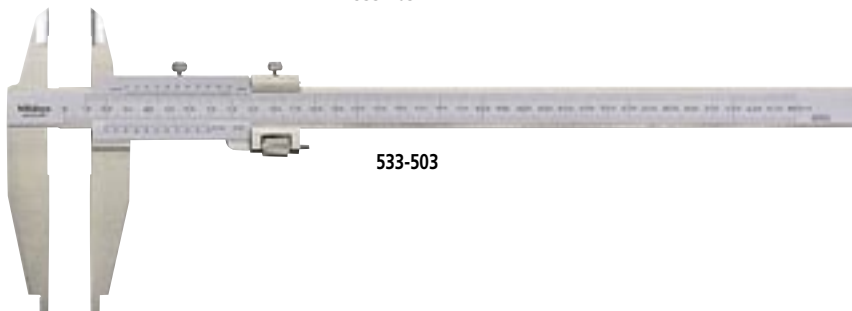
(Refer to the page 9 for details.)



551-201-20



533-403



533-503

Technical Data

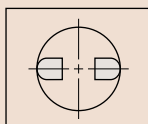
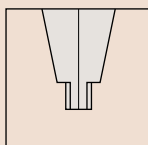
Accuracy: Refer to the list of specifications.
(excluding quantizing error for digital models)
Resolution*: 0.01mm or .0005"/0.01mm
Graduation**: 0.02mm or 0.05mm
Display*: LCD
Length standard*: ABSOLUTE electrostatic capacitance type
linear encoder
Max. response speed*: Unlimited
Battery*: SR44 (1 pc.), **938882**
Battery life*: Approx. 3.5 years under normal use
*Digital models **Analog models

Function of Digital Model

Origin-set, Zero-setting, Data output, inch/mm conversion
(inch/mm models)
Alarm: Low voltage, Counting value composition error

Optional Accessory for Digital Model

959143: Data hold unit
959149: SPC cable with data switch (1m)
959150: SPC cable with data switch (2m)



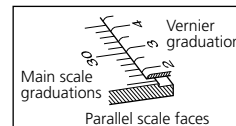
Round surface of jaws for accurate CD
measurement

ABSOLUTE Digimatic & Vernier Caliper

SERIES 551, 533 — with Nib Style and Standard Jaws

FEATURES

- The rounded faces of the jaws are ideal for accurate ID (inside diameter) measurement.
- Inside and outside measurements can be directly read from the upper and lower slider graduations (series 533).
- With fine-adjustment carriage type is available (series 533).
- Parallax-free vernier scale type is available for easy and positive measurement (series 533).
- With SPC output (series 551).



SPECIFICATIONS

Metric Digital model

Range*	Order No.	Accuracy	Remarks
0 (10) - 200mm	551-201-20	±0.03mm	—
0 (10) - 300mm	551-231-10	±0.04mm	with offset/preset function for easy ID measurement
0 (20) - 450mm	551-204-10	±0.06mm	—
0 (20) - 600mm	551-206-10	±0.06mm	—
0 (20) - 1000mm	551-207-10	±0.07mm	—

*(): Minimum dimension in ID measurement

Inch/Metric Digital model

Range*	Order No.	Accuracy	Remarks
0 (.4") - 8"	551-221-20	±.001"	—
0 (.4") - 12"	551-241-10	±.002"	with offset/preset function for easy ID measurement
0 (.5") - 18"	551-224-10	±.0025"	—
0 (.5") - 24"	551-226-10	±.0025"	—
0 (1") - 40"	551-227-10	±.003"	—

*(): Minimum dimension in ID measurement

Metric with metric/metric double scale

Range*	Order No.	Accuracy	Remarks
0 (10) - 200mm	533-401	±0.05mm	with parallax-free vernier scale
0 (10) - 300mm	533-403	±0.08mm	with parallax-free vernier scale
0 (20) - 450mm	533-404	±0.10mm	—
0 (20) - 600mm	533-405	±0.12mm	—
0 (20) - 1000mm	533-406	±0.15mm	—

*(): Minimum dimension in ID measurement

Metric with metric/metric double scale and fine adjustment

Range*	Order No.	Accuracy	Remarks
0 (10) - 280mm	533-503*	±0.04mm	High accuracy model with parallax-free vernier scale (0.02mm graduation)
0 (20) - 500mm	533-504*	±0.05mm	High accuracy model with 0.02mm graduation
0 (20) - 750mm	533-505*	±0.06mm	High accuracy model with 0.02mm graduation
0 (20) - 1000mm	533-506*	±0.07mm	High accuracy model with 0.02mm graduation

*(): Minimum dimension in ID measurement