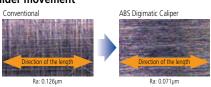
# **ABSOLUTE Digimatic Caliper**

## **SERIES 500** — with Exclusive ABSOLUTE Encoder Technology

Mitutoyo's absolute Digimatic Caliper is the next generation of electronic calipers. It keeps track of its origin point once set. Whenever turned on, the large LCD screen displays the actual slider position ready to start measurement. No more repeated zero setting is necessary with absolute encoder technology as well as no no more concerns about overspeed errors.

# High quality guide surface finish for smooth slider movement



#### **FEATURES**

- Large and clear LCD readout.
- The ZERO/ABS key allows the display to be Zero-Set at any slider position along the scale for comparison measurements. This switch will also allow return to the absolute (ABS) mode and display of the true position from the origin (usually jaws-closed point).
- Data Hold Unit (959143) is optional.
- Carbide-tipped jaw type calipers are also available.



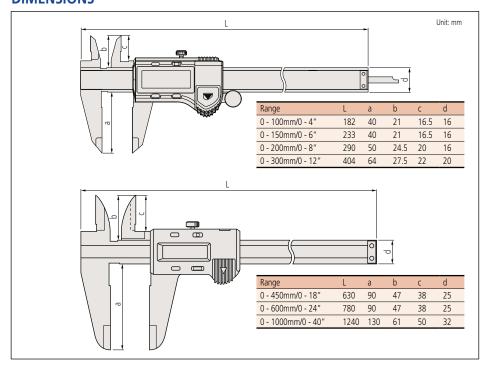
(Refer to page VIII for details.)



(Refer to page VIII for details.) \*Up to 300mm/12" range models.



#### **DIMENSIONS**



#### Technical Data

Accuracy:  $\pm 0.02$ mm ( $\leq 200$ mm),  $\pm 0.03$ mm ( $\leq 300$ mm)  $\pm 0.05$ mm ( $\leq 600$ mm),  $\pm 0.07$ mm ( $\leq 1000$ mm)

(excluding quantizing error)

(excluding quantizing error)
Resolution: 0.01mm or .0005"/0.01mm

Repeatability: 0.01mm Display: LCD

Scale type\*: ABSOLUTE electrostatic linear encoder

Max. response speed: Unlimited Battery: SR44 (1 pc.), **938882** 

Battery life: Approx. 3.5 years under normal use

#### **Functions**

Origin-set, Zero-setting, Data output, inch/mm conversion

inch/mm models)

Alarm: Low voltage, Counting value composition error

#### **Optional Accessories**

**959143**: Data hold unit

**959149**: SPC cable with data switch (1m) SPC cable with data switch (2m)

02AZD790C: SPC cable for U-WAVE w/ data switch (160mm)



# **SPECIFICATIONS**

### Metric

Range	Order No.	Depth bar	Fine adjustment	Remarks
0 - 100mm	500-150-20	ø1.9mm rod	with thumb roller	_
0 - 100mm	500-180-20*	ø1.9mm rod	_	_
0 - 150mm	500-151-20	Blade	with thumb roller	_
0 - 150mm	500-154-20	Blade	with thumb roller	Carbide-tipped jaws for outside measurement
0 - 150mm	500-155-20	Blade	with thumb roller	Carbide-tipped jaws for outside and inside measurement
0 - 150mm	500-158-20	ø1.9mm rod	with thumb roller	_
0 - 150mm	500-181-20*	Blade	_	_
0 - 200mm	500-152-20	Blade	with thumb roller	_
0 - 200mm	500-156-20	Blade	with thumb roller	Carbide-tipped jaws for outside measurement
0 - 200mm	500-157-20	Blade	with thumb roller	Carbide-tipped jaws for outside and inside measurement
0 - 200mm	500-182-20*	Blade	_	_
0 - 300mm	500-153	Blade	with thumb roller	_
0 - 450mm	500-500-10	_	_	_
0 - 600mm	500-501-10		_	_
0 - 1000mm	500-502-10		_	_

<sup>\*</sup>without SPC data output

#### Inch/Metric

inch/Metric ——						
Range	Order No.	Depth bar	Fine adjustment	Remarks		
0 - 4"	500-170-20	ø3/40" rod	with thumb roller	_		
0 - 4"	500-195-20*	ø3/40" rod	with thumb roller	_		
0 - 6"	500-171-20	Blade	with thumb roller	_		
0 - 6"	500-174-20	Blade	with thumb roller	Carbide-tipped jaws for outside measurement		
0 - 6"	500-175-20	Blade	with thumb roller	Carbide-tipped jaws for outside and inside measurement		
0 - 6"	500-178-20	ø3/40" rod	with thumb roller	_		
0 - 6"	500-196-20*	Blade	with thumb roller	_		
0 - 6"	500-159-20*	Blade	with thumb roller	Carbide-tipped jaws for outside measurement		
0 - 6"	500-160-20*	Blade	with thumb roller	Carbide-tipped jaws for outside and inside measurement		
0 - 8"	500-172-20	Blade	with thumb roller	_		
0 - 8"	500-176-20	Blade	with thumb roller	Carbide-tipped jaws for outside measurement		
0 - 8"	500-177-20	Blade	with thumb roller	Carbide-tipped jaws for outside and inside measurement		
0 - 8"	500-197-20*	Blade	with thumb roller	_		
0 - 8"	500-163-20*	Blade	with thumb roller	Carbide-tipped jaws for outside measurement		
0 - 8"	500-164-20*	Blade	with thumb roller	Carbide-tipped jaws for outside and inside measurement		
0 - 12"	500-173	Blade	with thumb roller	_		
0 - 12"	500-167	Blade	with thumb roller	Carbide-tipped jaws for outside measurement		
0 - 12"	500-168	Blade	with thumb roller	Carbide-tipped jaws for outside and inside measurement		
0 - 12"	500-193*	Blade	with thumb roller	_		
0 - 12"	500-165*	Blade	_	Carbide-tipped jaws for outside measurement		
0 - 12"	500-166*	Blade	_	Carbide-tipped jaws for outside and inside measurement		
0 - 18"	500-505-10	_	_	_		
0 - 24"	500-506-10	_	_	_		
0 - 40"	500-507-10	_	_	_		

<sup>\*</sup>without SPC data output



