AOS Absolute Digimatic Caliper CD-AX/APX Series



Bulletin No. 2129

A new series of digimatic calipers derived from 30 years of accumulated Mitutoyo technologies. Equipped with the electromagnetic induction type absolute encoder and AOS (Advanced Onsite Sensor) applied for ABS coolant-proof calipers.

- Patent registered (in Japan, USA, China, Germany, UK, France, Switzerland and India)
- . Design patent pending (in Japan, USA, EU and China)

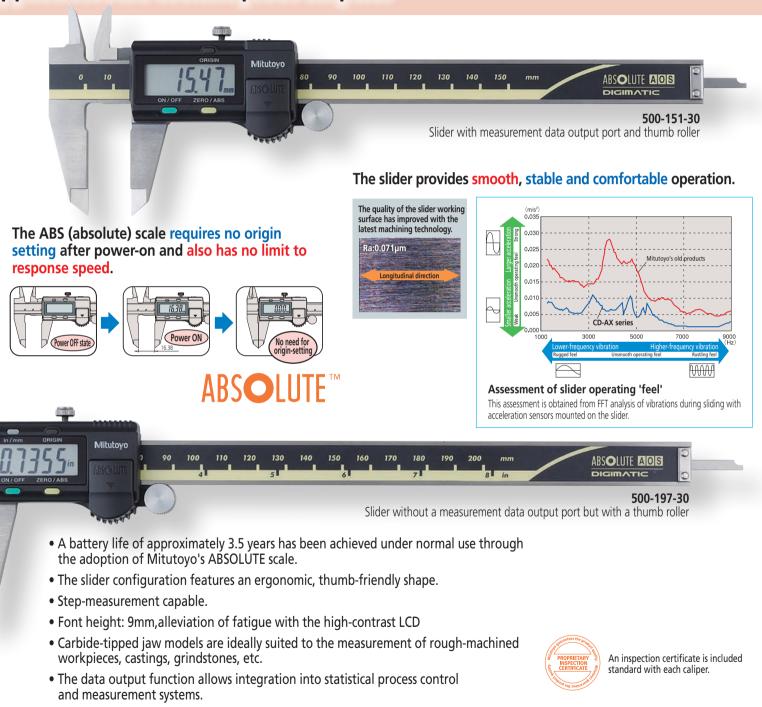


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1993 2000 2003 2005 2013 • Introduction of Mitutovo's Introduction of an ABSOLUTE Introduction of an induction type Introduction of a solar-powered The AOS induction type encoder caliper offering IP65-level ABSOLUTE encoder caliper offering **ABSOLUTE** encoder is introduced electrostatic capacitance ABSOLUTE encoder caliper offering ABSOLUTE encoder caliper. coolant-proof performance. IP67-level coolant-proof performance. IP67-level coolant-proof performance. to a standard caliper.

Common Specifications

- Resolution: 0.01mm
- Repeatability: 0.01mm
- Power supply: Button-type silver oxide battery SR44 (No. 938882), 1 piece supplied as standard (The standard supplied battery is for the monitor.)
- Battery life: Approx. 3.5 years under normal use
- Maximum response speed: Unlimited

Functions

ABS (absolute) measurement function:

Enables absolute-mode measurement to be started without any zero-setting after switch-on. The absolute origin position can be set, or reset, with the ORIGIN switch at any time.

INC (incremental) measurement function:

Enables the display value to be set to zero, temporarily, at the current slider position to enable easy incremental-mode measurement.

Low battery alarm:

Indicates (with a 'B' symbol in the display) that the battery needs replacing. This allows timely battery replacement before the caliper becomes unusable

External output function:

Allows measurement data to be exported using the optional data cable.

Hold function:

Allows a display value to be held using the optional Data Hold unit. (This function cannot be used along with the external output function.)

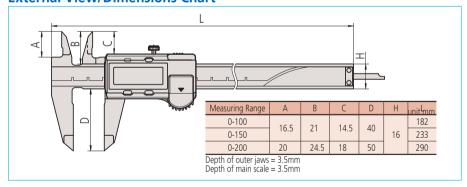
SPECIFICATIONS

Metric	ı					
Order No.	Range	Accuracy	Mass	Measurement data output port	Thumb roller	Remarks
500-150-30	0-100mm		143 g	✓	✓	Depth bar ø1.9mm rod
500-180-30			145 g	-	-	
500-151-30	0-150mm	±0.02mm	168 g	~	V	-
500-154-30						Carbide-tipped jaws for outside measurement
500-155-30						Carbide-tipped jaws for outside and inside measurement
500-158-30						Depth bar ø1.9mm rod
500-181-30				_	-	-
500-152-30	0-200mm		198 g	~	V	-
500-156-30						Carbide-tipped jaws for outside measurement
500-157-30						Carbide-tipped jaws for outside and inside measurement
500-182-30				_	-	_

incn	-
Ordor No	

Order No.	Range	Accuracy	Mass	Measurement data output port	Thumb roller	Remarks
500-170-30 500-195-30	0-4"	±0.001"	143 g	- V	V	Depth bar ø3/40" rod
500-171-30 500-174-30 500-175-30 500-178-30	0-6"		168 g	V		Carbide-tipped jaws for outside measurement Carbide-tipped jaws for outside and inside measurement Deoth bar ø3/40" rod
500-196-30 500-159-30 500-160-30				-		Carbide-tipped jaws for outside measurement Carbide-tipped jaws for outside and inside measurement
500-172-30 500-176-30 500-177-30	0-8"		198 g	~		Carbide-tipped jaws for outside measurement Carbide-tipped jaws for outside and inside measurement
500-197-30 500-163-30 500-164-30			150 g	-		Carbide-tipped jaws for outside measurement Carbide-tipped jaws for outside and inside measurement

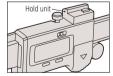
External View/Dimensions Chart



Optional Accessories These accessories are available only for those models with the measurement data output function.

• Data Hold unit Order No.959143





 USB direct input tool USB-ITN-C (2m): Order No.06ADV380C

Connecting cable

Used for input tool DP-1VR or MUX-10F.

1m cable: Order No.959149 2m cable: Order No.959150



U-WAVE-T dedicated connecting cable Cable for standard use: Order No.02AZD790C

Cable for foot switch: Order No.02AZE140C

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