Small Tool Instruments and Data Management

AOS Absolute Digimatic Caliper CD-AX/APX Series



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)



Bulletin No. 2129

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AOS Absolute Digimatic Caliper

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A new series of digimatic calipers derived from 30 years of accumul induction type absolute encoder and AOS (Advanced Onsite Sensor) a

ORIGIN

ONIO

Mitutovo

Evolution of Mitutoyo's digital caliper

1987

• A Digimatic-format

port is incorporated.

measurement data output

The new electromagnetic inductive sensor repels dirt, oil and water ensuring 100% accuracy

View AOS Sensor Technology in action



www.mitutoyo.com/aoscd



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1983

• The first digital caliper.

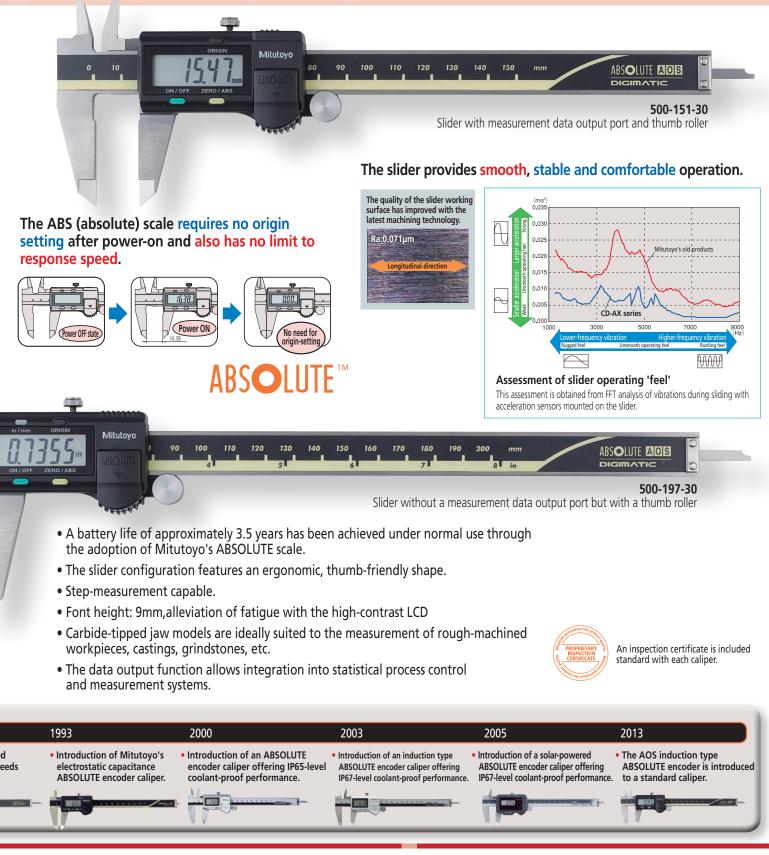
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1988

The first solar-powere

model, which never n a new battery.

ated Mitutoyo technologies. Equipped with the electromagnetic applied for ABS coolant-proof calipers.



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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

SPECIFICATIONS Metric

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.

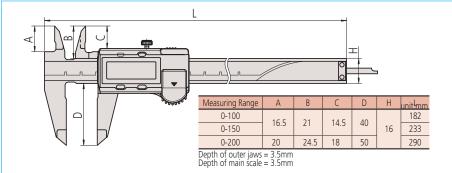
Hold function:

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

Order No.	Range	Accuracy	Mass	Measurement data output port	Thumb roller	Remarks
500-150-30	0-100mm		143 g	 ✓ 	v	Depth bar ø1.9mm rod
500-180-30	0-100mm			-	-	
500-151-30		±0.02mm	168 g	~	V	-
500-154-30						Carbide-tipped jaws for outside measurement
500-155-30	0-150mm					Carbide-tipped jaws for outside and inside measurement
500-158-30						Depth bar ø1.9mm rod
500-181-30				-	-	-
500-152-30			198 g	~	4	-
500-156-30	0-200mm					Carbide-tipped jaws for outside measurement
500-157-30	0=20011111					Carbide-tipped jaws for outside and inside measurement
500-182-30				-	-	-

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

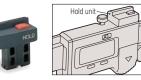
External View/Dimensions Chart



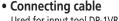
Coordinate Measuring Machines Vision Measuring Systems Form Measurement **Optical Measuring** Sensor Systems Testing Equipment and Seismometer Digital Scale and DRO Systems Small Tool Instruments and Data Management

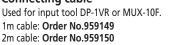
Optional Accessories These accessories are available only for those models with the measurement data output function.

• Data Hold unit Order No.959143



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







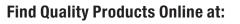
 U-WAVE-T dedicated connecting cable Cable for standard use: Order No.02AZD790C Cable for foot switch: Order No.02AZE140C

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