## Digital Caliper ABS Digimatic Caliper



New-series Digimatic calipers born from Mitutoyo's technologies accumulated for 30 years since development of digital calipers Equipped with the electromagnetic induction type absolute encoder applied for ABS coolant-proof calipers

• Patent registered (in Japan, USA, China, Germany, UK, France, Switzerland and India)

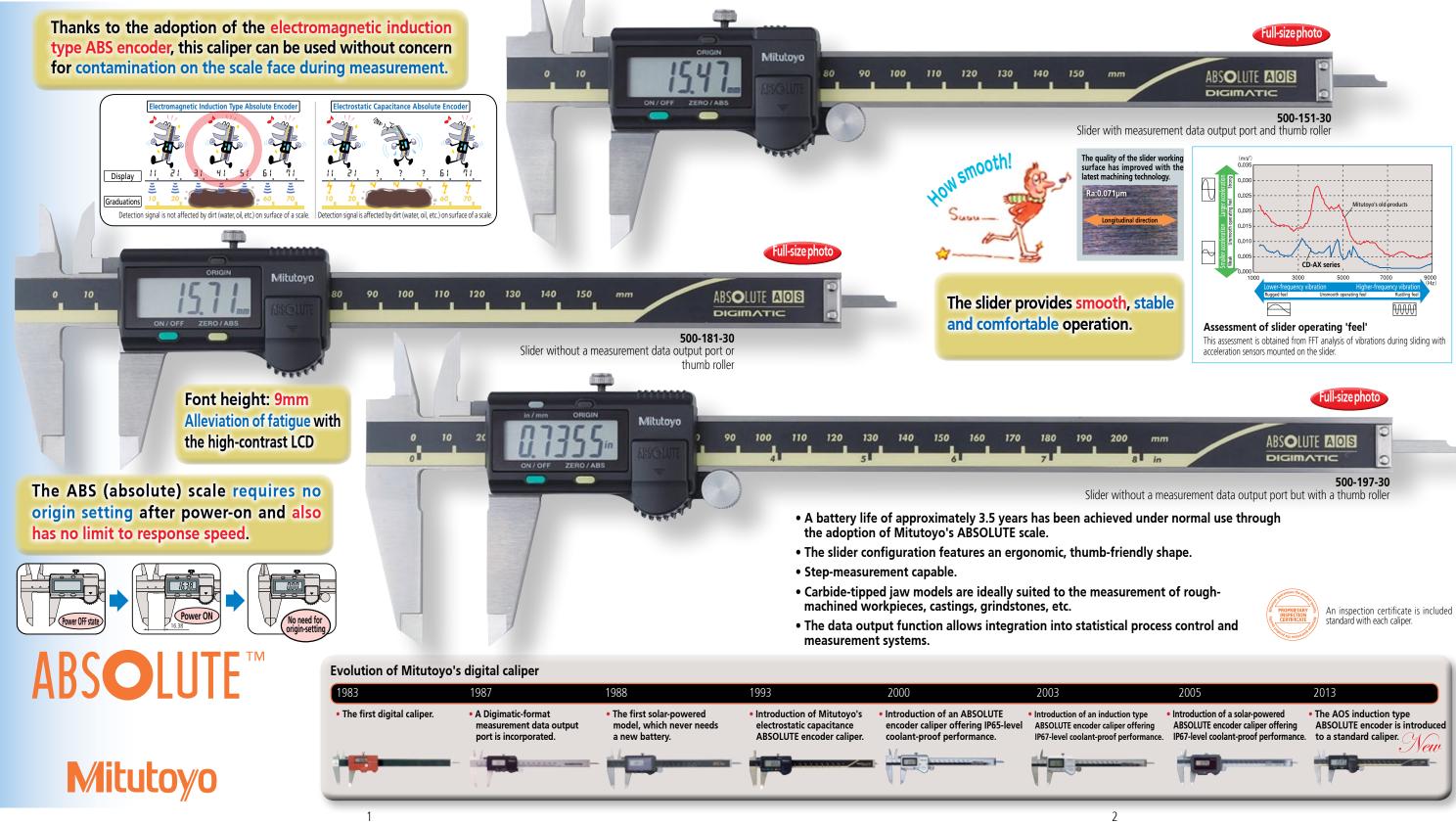
• Design patent pending (in Japan, USA, EU and China)



Catalog No. E12021

# **ABS Digimatic Caliper CD-AX/APX Series**

A new series of cost-effective standard Digimatic caliper born of Mitutoyo's ground-breaking encoder technologies developed over the last 30 years. Now equipped with the same AOS (Advanced Onsite Encoder) induction type encoder used in top-of-the-line ABS coolant-proof calipers.



### **Common Specifications**

- Resolution: 0.01mm
- Repeatability: 0.01mm
- (Quantizing error excluded)
- 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

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**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.

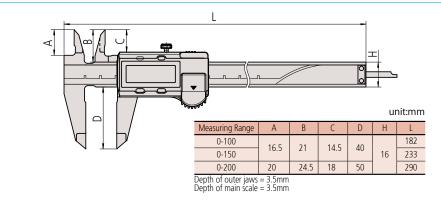
#### Hold function:

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			Depth bar ø1.9mm rod
500-180-30				-	-	
500-151-30	0-150mm	±0.02mm	168 g			-
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	19	198 g			-
500-156-30						Carbide-tipped jaws for outside measurement
500-157-30						Carbide-tipped jaws for outside and inside measurement
500-182-30				-	-	-
Inch						

Order No.	Range	Accuracy	Mass	Measurement data output port	Thumb roller	Remarks
500-170-30 500-195-30	0-4"		143 g			Depth bar ø3/40" rod
500-171-30		±0.001"				-
500-174-30 500-175-30	0-6"					Carbide-tipped jaws for outside measurement Carbide-tipped jaws for outside and inside measurement
500-178-30			168 g			Depth bar Ø3/40" rod
500-196-30 500-159-30						- Carbida tinnad isus far autsida massurament
500-160-30				_		Carbide-tipped jaws for outside measurement Carbide-tipped jaws for outside and inside measurement
500-172-30 500-176-30						 Carbide-tipped jaws for outside measurement
500-177-30 500-197-30	0-8"	0-8"	198 g			Carbide-tipped jaws for outside and inside measurement
500-163-30				-		Carbide-tipped jaws for outside measurement
500-164-30						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

Note: All information regarding our products, and in particular the illustrations, drawings, dimensional and performance data contained in this pamphlet, as well as other technical data are to be regarded as approximate average values. We therefore reserve the right to make changes to the corresponding designs, dimensions and weights. The stated standards, similar technical regulations, descriptions and illustrations of the products were valid at the time of printing. Only quotations submitted by ourselves may be regarded as definitive.

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Test Equipment and Seismometers
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