# Digital Caliper ABS Digimatic Caliper



Catalog No. E12021

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)

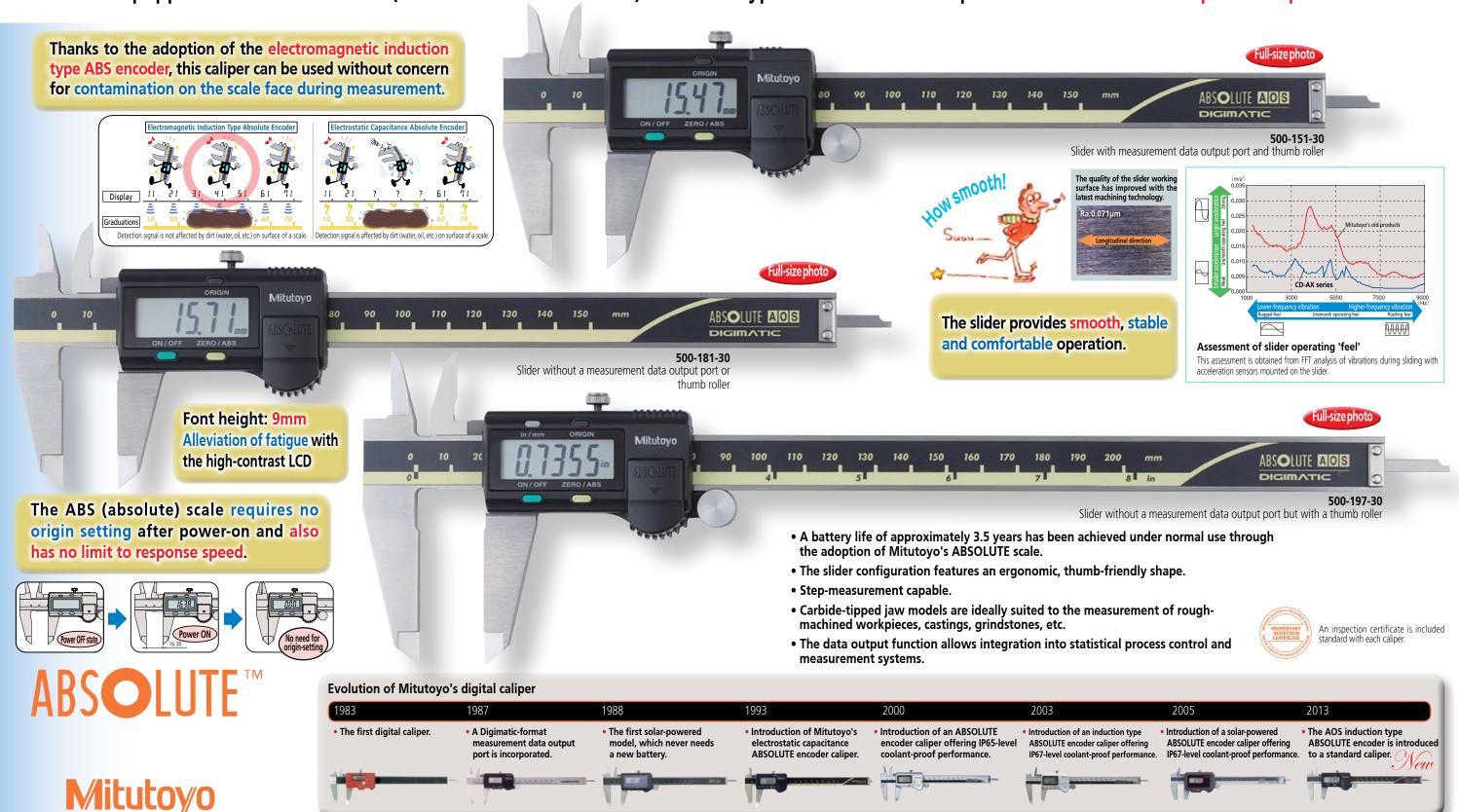






# **ABS Digimatic Caliper CD-AX/APX Series**

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

#### **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:

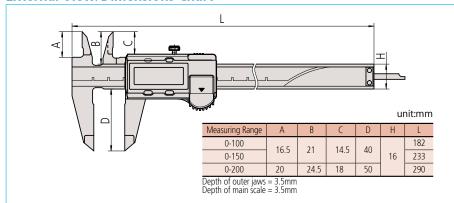
Allows a display value to be held using the optional Data Hold unit. (This function cannot be used along with the external output function.)

### **SPECIFICATIONS**

Order No.	Range	Accuracy	Mass	Measurement data output port	Thumb roller	Remarks
500-150-30	0-100mm	±0.02mm	143 g			Depth bar ø1.9mm rod
500-180-30	J 0-100mm			-	-	
00-151-30			168 g			-
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			-
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				-	-	-

Inch	ı					
Order No.	Range	Accuracy	Mass	Measurement data output port	Thumb roller	Remarks
500-170-30	0-4"	±0.001"	143 g			Depth bar ø3/40" rod
500-195-30				-		Deptit but \$5740 Tou
500-171-30	0-6"		168 g			-
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
500-160-30 500-172-30						Carbide-tipped jaws for outside and inside measurement
500-172-30	0-8"		198 g			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

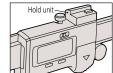
# **External View/Dimensions Chart**



**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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# **Coordinate Measuring Machines**

Vision Measuring Systems

Form Measurement

**Optical Measuring** 

Sensor Systems

Test Equipment and Seismometers

Digital Scale and DRO Systems

Small Tool Instruments and Data Management

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.

