# 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:**

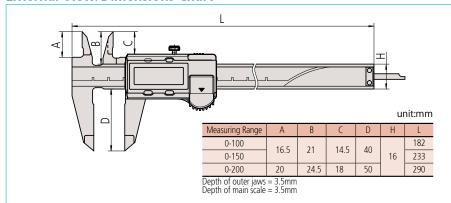
Allows a display value to be held using the optional Data Hold unit. (This function cannot be used along with the external output function.)

# **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				-	-	
500-151-30	0-150mm		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		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	0-4"		143 q			Depth bar ø3/40" rod
500-195-30	0-4		145 g	-		Deptil bal \$5740 100
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		0.001				-
500-159-30		±0.001"		-		Carbide-tipped jaws for outside measurement
500-160-30						Carbide-tipped jaws for outside and inside measurement
500-172-30	0-8"		198 g			-
500-176-30 500-177-30						Carbide-tipped jaws for outside measurement Carbide-tipped jaws for outside and inside measurement
500-177-30						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

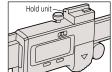
# **External View/Dimensions Chart**



**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

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