

Coolant Proof Digimatic Caliper with Absolute Encoder (IP-66 Level Protection)

Series 500



**The World's First
Coolant Proof Caliper**

Introducing Mitutoyo's Coolant-Proof caliper, the world's first digital caliper sealed against fluids and contaminants!

Mitutoyo introduces the toughest digital caliper in the world—the first that's IP-66 rated: coolant-proof, dust-proof, chip-proof. Use it anywhere in the shop. It also includes Mitutoyo's patented absolute encoder technology, the "Set 'n Forget" origin set-up feature. Now you can take digital measurements in places you never could before! Models available with SPC output.

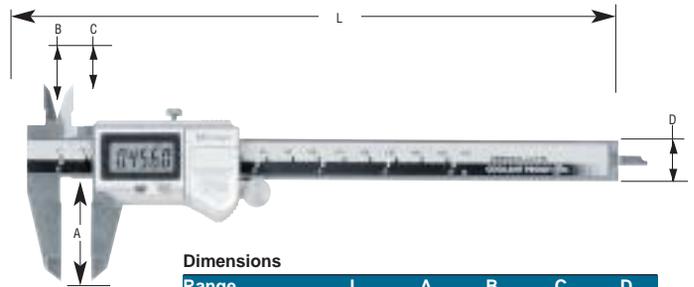
Technical Data

Quantizing Error:	± 1 Count.
Repeatability:	.0005"/0.01mm
Display:	LCD (Character height: .3"/7.5mm)
Functions:	Origin setting, Automatic power on/off*1 Inch/mm conversion, Data output
Dust/Water Protection Level:	IP66 (IEC 60529)
Battery:	SR44 (1pc.) up to 8" (2pc.) for 12"
Battery Life (0-6"):	Approx. 3-year under normal use
Battery Life (0-12"):	Approx. 1-year under normal use
Measuring System:	Electromagnetic induction type absolute linear encoder*2
Response Speed:	Unlimited

*1 Patent pending (Japan, U.S.A., China, UK, France)

*2 Design pending (Japan, U.S.A., China, UK, France)

Dimensions



Dimensions

Range	L	A	B	C	D
0-6"/0-150mm	9.1"	1.6"	.83"	.65"	.63"
0-8"/0-200mm	11.3"	2.0"	.96"	.79"	.63"
0-12"/0-300mm	16.1"	2.5"	1.1"	.86"	.79"

Optional Accessories

SPC Cable 1m/40": **05CZA624**
2m/80": **05CZA625**



IP66 Protection

Type	Level	Definition
Operator-safe and protection against foreign matter	6: Protection against dust	Protect the equipment against dust not to penetrate.
Protect against water	5: Protection against water jet	Protect the equipment against water jet that's* from any direction.

* Condition: Using a nozzle with 12.5mm ID and water jet with 30Kpa water pressure (approx. 100L/min) on the equipment from a distance of a meter for 3 minutes or over (1 minute per 1m² superficial area).

Specifications

Order No.	Measuring Range	LCD Resolution	Accuracy	Remarks
500-672	0-6"/0-150mm	.0005"/0.01mm	± .001"	
500-682	0-6"/0-150mm	.0005"/0.01mm	± .001"	With SPC Output
500-673	0-8"/0-200mm	.0005"/0.01mm	± .001"	
500-683	0-8"/0-200mm	.0005"/0.01mm	± .001"	With SPC Output
500-674	0-12"/0-300mm	.0005"/0.01mm	± .0015"	
500-684	0-12"/0-300mm	.0005"/0.01mm	± .0015"	With SPC Output