Solar Digital Calipers with ABSOLUTE System SUPER CALIPER



Bulletin No. 1814

The Super Solar Caliper gets its power from light, eliminating the need for batteries. IP-67 Protection ensures excellent performance in harsh environments.

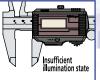


Top-of-the-line Digital caliper with Solar ABSOLUTE System needs no battery and has IP67 protection!

With no origin reset necessary, measuring can begin immediately and there is no overspeed error.

The linear encoder with ABSOLUTE System has eliminated the need to reset the origin after switching

the instrument on. Also, origin reset is not required even when data is re-displayed after disappearance due to insufficient illumination during use.



Absolute System Patented by MITUTOYO



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Patent #US6329813

67

ARSO LITTE

Sufficient illumination state

16.78mm

Super aliper R

World's unique* solar-powered Super Caliper that is eco-friendly and needs no battery! (*: According to Mitutoyo investigation in January, 2005)

The use of a Super Capacitor provides a large-capacity charge function* that allows extended operation even in dim conditions. *see back page



The display unit has better impact resistance under tough workshop conditions. This transparent cover on the display unit has been thickened and shaped to protect the whole display unit

and is made from a new material that absorbs impact.



IP67 protection assures waterproof reliability.

This Super Caliper can be used in conditions where it is subject to considerable exposure to cutting fluids, making it reliable as a mechanical caliper.



The components do not contain any harmful substances and they meet RoHS Directives.

Mitutoyo

17	Specifications 200							Functions			
- 4		Order No.	Range	Resolution	Accuracy*1	Mass		Origin setting	It is possible to chan	ge the A	
500	With data output	500-776	150mm	0.01mm	±0.02mm	180g	1		When illumination is		
Lint		500-777	200mm			210g		irregularities due to			
		500-786	6"/150mm	.0005"/ 0.01mm	±.001"/ ±0.02mm	.40 lbs.			is displayed and operation is measurement does not cont		
		500-787	8"/200mm			.46 lbs.			condition.		
	Without data output	500-774	150mm	0.01mm	±0.02mm	180g		gilling and	contaition	1.18	
		500-775	200mm			210g	1			24	
		500-784	6"/150mm	.0005"/ 0.01mm	±.001"/ ±0.02mm	.40 lbs.	50	Achieving IP67 protection level			
		500-785	8"/200mm			.46 lbs.	10	Туре	Level	Descrip	

*1: Quantizing error ±1 count is not included.

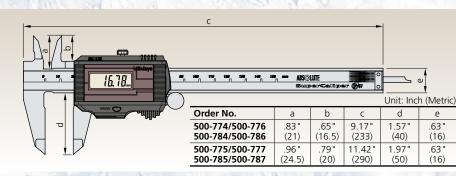
Features

Functions	Origin setting, Error reporting	
Protection level	IP67 (IEC60529)*2	100
Power supply	Solar cell* ³	140
Maximum response speed	Unlimited	10

*2: Anti-corrosion treatment is recommended after use

*3: Can be used continuously above 60 lux ambient illumination.

Dimensions



Optional accessories

Water-resistant connection cable*5 40" (1m) cable: No.05CZA624 80" (2m) cable: No.05CZA625



Output switch



*⁵ This connection cable is dedicated to the super caliper.

DP-1VR **Digimatic Mini-processor** No.264-504-5A

(Data processing device for quality control applications)

MIG-4A

No.982-548-10A (Measurement data transmission device, RS-232C)

USB Input Tool

(Measurement data input device with USB keyboard signals, sends data directly to spreadsheets, etc.) No.264-012



It is possible to change the ABS (origin) point. When illumination is insufficient, or there are display

6: Dust-tight

7: Protected against the effects

of temporary

immersion in

water.

Protection from

(people or things) Protection from

solid objects

liquids (water, etc.)

irregularities due to contamination, an error message is displayed and operation is suspended so that measurement does not continue under the fault

Description

Protection against ingress of dust

Ingress of water in quantities

causing harmful effects shall not

be possible when the enclosure is

temporarily immersed to a depth of 1 m in water under standardized

conditions of pressure and time.

and full protection against contact

MIG-4A

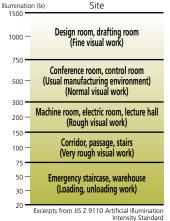
How the Super Caliper is Charged

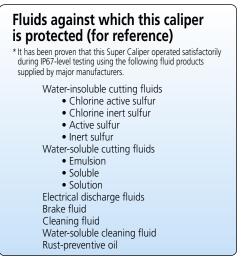
The minimum illumination required in the uncharged state is 60 lux.

As shown in the table 'JIS Z 9110 Artificial Illumination Intensity Standard', this Super Caliper can be used without problems in a normal work environment.

The charge function allows the operator to use this Super Caliper without interrupting work even if the ambient illumination is temporarily insufficient.

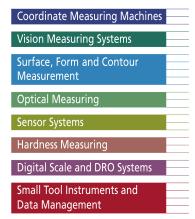
- In the fully charged state this Super Caliper can operate for approximately an hour in an environment of 50-lux illumination (less than the minimum necessary illumination intensity).
- The time necessary for full charge differs, depending on the charging conditions. If this Super Caliper is left unused in an illumination of 500 lux (usual for manufacturing environments), it takes approximately one hour to reach full charge.





PAT. JP3436510, US6329813 P. CN1272620A, EP1014041A1

Note: All our product details, in particular the illustrations, drawings, dimensional and performance details and other technical specifications contained in this publication are to be considered to be approximate average values. To this extent, we reserve the right to make changes in design, technical data, dimensions and weight. Our specified standards, similar technical rules and technical specifications, descriptions and illustrations of the products are correct at the time of printing. The current version of our general terms and conditions also apply. Only offers which we have submitted can considered to be definitive.



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