

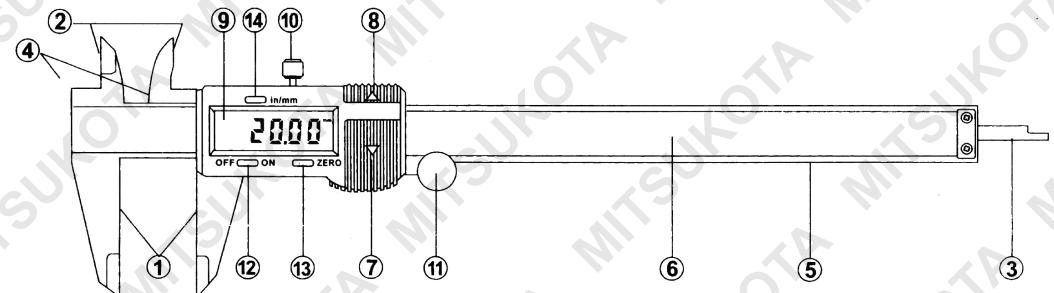
# 200mm Digital Caliper

## TECHNICAL SPECIFICATIONS

Measuring range:	0-150mm/0-6in, 0-200mm/0-8in, 0-300mm/0-12in.
Resolution:	0.01 mm/0.0005in.
Accuracy:	± 0.02mm/0.001 in (<100mm). ± 0.03mm/0.001 in (>100-200mm). ± 0.04mm/0.0015in(< 200-300mm).
Repeatability:	0.01 mm/0.0005in.
Max measuring speed:	1.5m/sec, 60in/sec.
Measuring system:	Linear capacitive measuring system.
Display:	LCD display.
Power:	One silver oxide battery 1.55V, type SR44.
capacity:	180mAh.
Working temperature:	5°C-40°C/41 to 104 degree F.
Influence of humidity:	Not important under 80% of relative humidity.

## NOMENCLATURE

1. Outside measuring faces	8. Output connector
2. Inside measuring faces	9. LCD display
3. Depth measuring blade	10. Slider clamp screw
4. Step measuring faces	11. Thumb roller
5. Beam	12. ON/OFF switch
6. Main scale	13. ZERO switch
7. Battery compartment lid	14. Inch/mm conversion switch

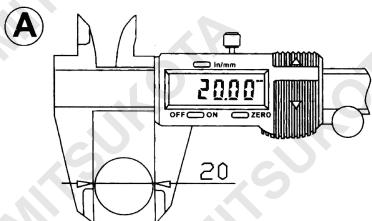


## APPLICATIONS

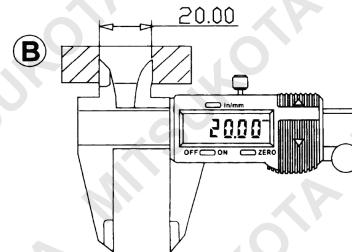
1. PREPARING THE CALIPER:
  - a. Slider can be removed only after the locking screw (#10) has been loosened).
  - b. Wipe clean all measuring face and the caliper body. Do not use organic solutions.
  - c. Check if all buttons, switches and the LCD display are responsive.
2. BASIC MEASURING METHODS:
  - a. Loosen the locking screw.
  - b. Switch the unit on by pressing on the ON button. Then select the unit system needed by pressing Inch/Metric button (each time the button is pressed, inch and metric digits will be displayed alternatively).

3. Apply normal measuring pressure on slider to close the external measuring jaws. Then press the ZERO button to reset the display to zero.

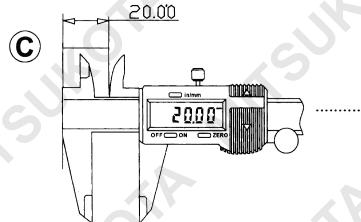
### A. Measurements of external dimensions



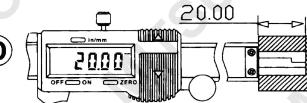
### B. Measurements of internal dimensions



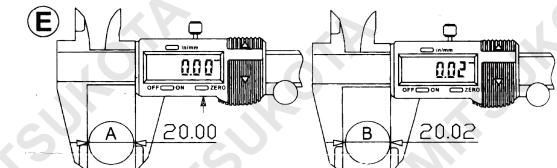
### C. Measurement of steps



### D. Measurements of depth



### E. Differential method measurement (Application of zero setting)

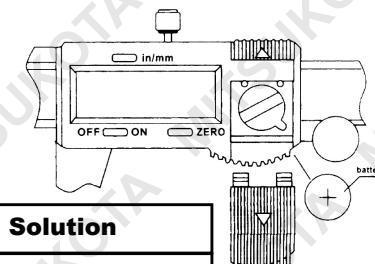


## MAINTENANCE

1. Keep the caliper clean and dry (liquids can damage the slider).
2. Faces should be cleaned gently with cotton fabrics. Never use petrol, acetone or other organic solutions.
3. To save power, turn off the caliper when it will not be used for some time.
4. Never apply any electric pressure on any part of the caliper. Never use an electronic pen to avoid damaging the chip inside.
5. For further instructions, please refer to the instruction manuals of conventional calipers.

## BATTERY REPLACEMENT

Flashing of digits means that the battery power is low. Remove the battery cover in the direction shown by the arrow and replace the battery with a new one (positive side facing out).



## TROUBLESHOOTING

Problem	Cause	Solution
Digits flash simultaneously.	Battery voltage lower than 1.45V.	Replace battery.
Display not changing when slider is moved.	Minor problem in the internal circuitry.	Take out battery and reset caliper after 30 seconds.
Less accurate than specified, but within - in + 0.1mm.	Sensor is dirty.	Remove slider cover and its assembly. Clean with compressed air (5kg/cm).
No display on the LCD.	Battery in poor condition, or voltage under 1.4V.	1. Adjust battery. 2. Replace battery with new one.