

Safety Precautions

To ensure operator safety, use this instrument in conformance with the directions and specifications given in this User's Manual.



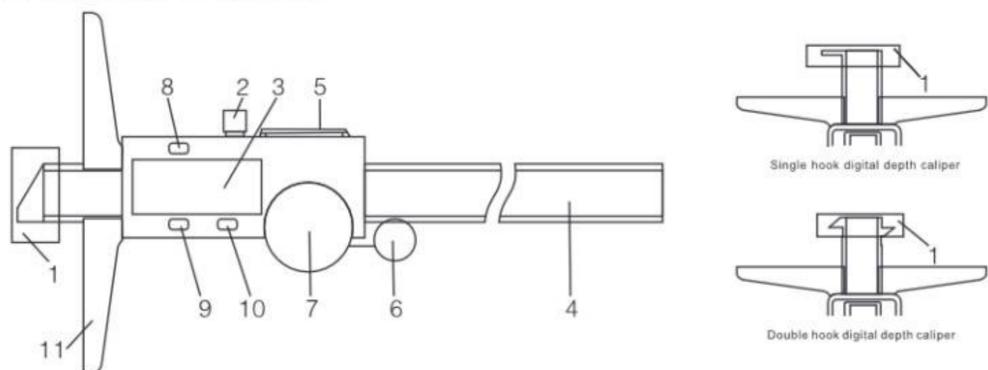
- Do not disassemble, short-circuit, charge, or heat the battery. Otherwise the battery content may leak to come into contact with the eye, or cause battery heating or explosion.
- If a battery is swallowed, immediately consult a doctor.
- The inside measuring jaw of this caliper have a sharp edge. Handle it with great care to avoid injury.



Disposal of Old Electrical & Electronic Equipment (Applicable In the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. To reduce the environmental impact of WEEE (Waste Electrical and Electronic Equipment) and minimize the volume of WEEE entering landfills, please reuse and recycle. For further information, please contact your local dealer or distributors.

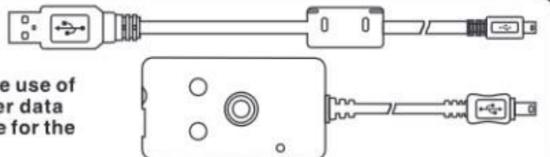
Structure and Function



- 1. Measuring claw
- 2. Clamp screw
- 3. LCD display
- 4. Main scale
- 5. Connector cap (for the external output type only)
- 6. Thumb roller
- 7. Battery compartment lid
- 8. in/mm switch
- 9. Power ON/OFF switch
- 10. Zero key
- 11. Base

Additional product: Special data cable for external output function of digital caliper.

Note: Please buy a special data cable for the use of external output function, and do not use other data cables, otherwise we will not be responsible for the loss caused.



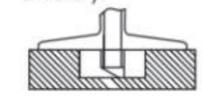
Troubleshooting

Range(mm)	Resolution(mm/inch)	Accuracy(mm)
0-150	0.01/0.0005	± 0.02
0-200	0.01/0.0005	± 0.03
0-300	0.01/0.0005	± 0.04

1. Response speed: 3 meter/second
2. Power supply: CR2032*1, automatic power off in 5 minutes, battery life is one year under normal use.
3. Working environment: temperature 0-40°C, relative humidity 80%

Operating Instruction

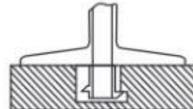
1. Put the specially equipped battery cover key in the middle of the battery cover groove, rotate counterclockwise, open the battery cover, and install/replace battery (CR2032), then rotate clockwise to lock the battery cover.
2. When the LCD readout display small fonts " 5 " and " in ", it is under inch system.
3. mm/in: it is a Metric and inch conversion key. Press this key for mm/in system conversion.
4. ZERO: Zero setting key. It can set-zero in any position within the measuring range.
5. ON/OFF: power on/off key.
6. Before usage, loosen the fastening screws on caliper frame, and pull the caliper frame open gently, then use a clean soft cloth to wipe the measuring surface and the guiding surface clean.
7. Check the " zero " position: Push the caliper frame gently until the two measuring jaw surface are close, so the LCD readout displays " zero ", otherwise, press the " zero " key to set-zero.
8. Depth caliper to measure the size of the groove depth (like pic 1).
9. Single and double hook caliper can measure the depth of the groove step size (like pic 2 and 3).



Pic 1 Digital depth caliper



Pic 2 Single hook digital depth caliper



Pic 3 Double hook digital depth caliper

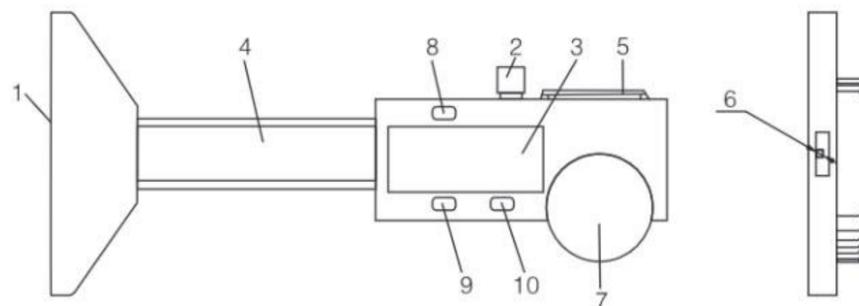
Notes

1. Avoid exposure to the places of high dust, avoid exposure to sunlight ultraviolet radiation and high temperature.
2. When pulling the caliper frame open, do it gently, do not drop or crash it.
3. Clean the measuring surface with gasoline or alcohol, while keep any liquid away from electronic components and the measuring blade upper surface.
4. The usage and test environmental relative humidity ≤ 80%.

Troubleshooting

Common fault	Possible reason	Troubleshooting
Readouts jump or no readouts	Poor battery contacts or dead battery	1. Check the inner battery contact 2. Replace battery
Readouts display irregularly	Caliper under damp and moisture situation	Clean the measuring blade upper surface with gauze or open it and clean

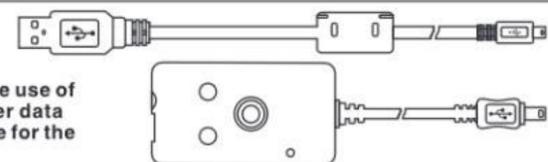
Structure and Function



- 1. Base
- 2. Clamp screw
- 3. LCD display
- 4. Main scale
- 5. Connector cap (for the external output type only)
- 6. Measuring tip
- 7. Thumb roller
- 8. Battery compartment lid
- 9. in/mm switch
- 10. Power ON/OFF switch
- 11. Zero key

Additional product: Special data cable for external output function of digital caliper.

Note: Please buy a special data cable for the use of external output function, and do not use other data cables, otherwise we will not be responsible for the loss caused.



Troubleshooting

Range(mm)	Resolution(mm/inch)	Accuracy(mm)
0-25	0.01/0.0005	± 0.02
0-50	0.01/0.0005	± 0.02

1. Response speed: 3 meter/second
2. Power supply: CR2032*1, automatic power off in 5 minutes, battery life is one year under normal use.
3. Working environment: temperature 0-40°C, relative humidity 80%

Instructions

- When you use the product for the first time, please open the battery compartment and insert the battery with the positive pole "+" facing outward. If the display screen does not move, remove the battery and put it in again after one minute.
- Loosen the locking screw, press the button to power on, and check whether the display and the buttons work abnormally.
- Press the mm / inch button to switch between metric and inch units.
- Place the measurement base on a platform (such as a marble platform), move the ruler frame so that the end surface of the stylus is flush with the measurement base, and press the zero button to clear it to perform normal measurement. If you press the zero button when you use the product, you need to re-level the base surface and the stylus when you use it again.
- If you don't use the product, please wipe the ruler with a dry and clean cloth.

Precautions

- Before use the product, wipe the surface of the protective film with a dry and clean cloth, and clean each measuring surface.
- Do not apply voltage to any part (such as lettering with a pen) to avoid damaging the circuit.
- When installing the battery, please put the positive side upwards.

- Note: Please read this manual carefully before using this product.
- The company has the right of final interpretation, which is subject to change without prior notice.

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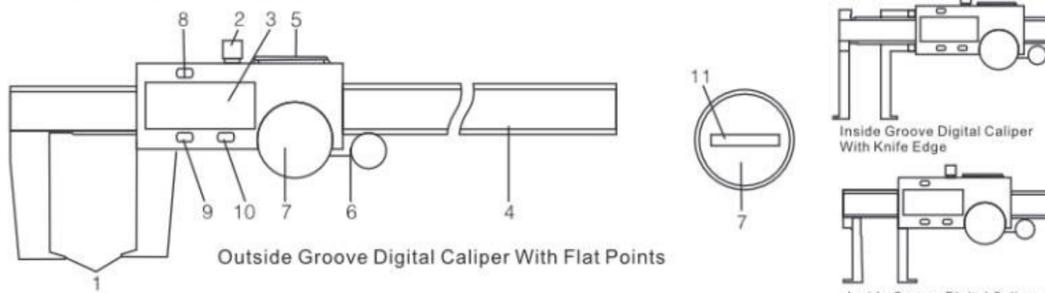
- Do not disassemble, short-circuit, charge, or heat the battery. Otherwise the battery content may leak to come into contact with the eye, or cause battery heating or explosion.
- If a battery is swallowed, immediately consult a doctor.



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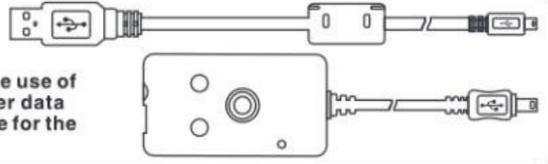
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Structure and Function



1. Measuring claw 2. Clamp screw 3. LCD display 4. Main scale
5. Connector cap (for the external output type only) 6. Thumb roller
7. Battery compartment lid 8. in/mm switch 9. Power ON/OFF switch
10. Zero key 11. The intermediate notch of the battery cover

Additional product: Special data cable for external output function of digital caliper.



Note: Please buy a special data cable for the use of external output function, and do not use other data cables, otherwise we will not be responsible for the loss caused.

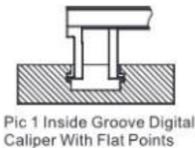
Technical Data

Inside Groove Digital Caliper With Flat Points			Outside Groove Digital Caliper With Flat Points			Inside Groove Digital Caliper With Knife Edge		
Measuring range (mm)	Resolution (mm/inch)	Accuracy (mm)	Measuring range (mm)	Resolution (mm/inch)	Accuracy (mm)	Measuring range (mm)	Resolution (mm/inch)	Accuracy (mm)
22-150	0.01/0.0005	±0.03	0-150	0.01/0.0005	±0.03	8-150	0.01/0.0005	±0.04
25-200	0.01/0.0005	±0.04	0-200	0.01/0.0005	±0.04	13-200	0.01/0.0005	±0.04
30-300	0.01/0.0005	±0.05	0-300	0.01/0.0005	±0.05	15-300	0.01/0.0005	±0.05

- Response speed: 3 meter/second
- Power supply: CR2032*1, automatic power off in 5 minutes, battery life is one year under normal use.
- Working environment: temperature 0-40°C, relative humidity 80%

Operating Instruction

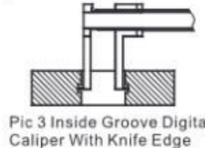
- When you use the product for the first time, please open the battery compartment and insert the battery with the positive pole "+" facing outward. If the display screen does not move, remove the battery and put it in again after one minute.
- When the LCD readout displays small fonts "5" and "in", it is under inch system.
- mm/in: it is a Metric and inch conversion key. Press this key for mm/in system conversion.
- ZERO: Zero setting key. It can set-zero in any position within the measuring range.
- ON/OFF: power on/off key.
- Before usage, loosen the fastening screws on caliper frame, and pull the caliper frame open gently, then use a clean soft cloth to wipe the measuring surface and the guiding surface clean.
- Check the "zero" position: Push the caliper frame gently until the two measuring jaw surface are close, so the LCD readout displays "zero", otherwise, press the "zero" key to set-zero.
- Can be measured in a narrow groove size (like pic 1 and 3).
- Can be measured between center size hole and hole (like pic 2).



Pic 1 Inside Groove Digital Caliper With Flat Points



Pic 2 Outside Groove Digital Caliper With Flat Points



Pic 3 Inside Groove Digital Caliper With Knife Edge

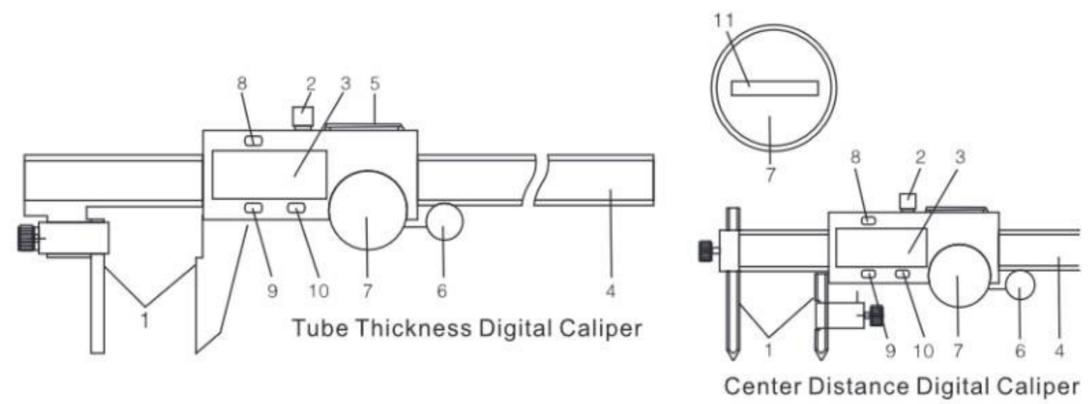
Notes

- Avoid exposure to the places of high dust, avoid exposure to sunlight ultraviolet radiation and high temperature.
- When pulling the caliper frame open, do it gently, do not drop or crash it.
- Clean the measuring surface with gasoline or alcohol, while keep any liquid away from electronic components and the measuring blade upper surface.
- The usage and test environmental relative humidity ≤80%.

Troubleshooting

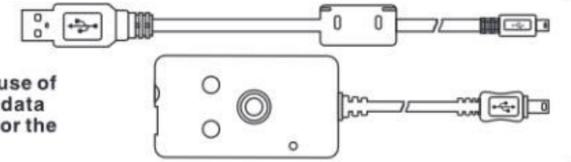
Common fault	Possible reason	Troubleshooting
Readouts jump or no readouts	Poor battery contacts or dead battery	1. Check the inner battery contact 2. Replace battery
Readouts display irregularly	Caliper under damp and moisture situation	Clean the measuring blade upper surface with gauze or open it and clean

Structure and Function



1. Measuring claw 2. Clamp screw 3. LCD display 4. Main scale
5. Connector cap (for the external output type only) 6. Thumb roller
7. Battery compartment lid 8. in/mm switch 9. Power ON/OFF switch
10. Zero key 11. The intermediate notch of the battery cover

Additional product: Special data cable for external output function of digital caliper.



Note: Please buy a special data cable for the use of external output function, and do not use other data cables, otherwise we will not be responsible for the loss caused.

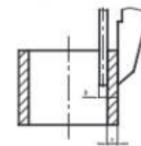
Technical parameters

Tube Thickness Digital Caliper			Center Distance Digital Caliper		
Measuring range(mm)	Resolution(mm/inch)	Accuracy(mm)	Measuring range(mm)	Resolution(mm/inch)	Accuracy(mm)
0-150	0.01/0.0005	±0.03	5-150	0.01/0.0005	±0.04
0-200	0.01/0.0005	±0.03	5-200	0.01/0.0005	±0.06
0-300	0.01/0.0005	±0.04	5-300	0.01/0.0005	±0.08

- Response speed: 3 meter/second
- Power supply: CR2032*1, automatic power off in 5 minutes, battery life is one year under normal use.
- Working environment: temperature 0-40°C, relative humidity 80%

Operating Instruction

- When you use the product for the first time, please open the battery compartment and insert the battery with the positive pole "+" facing outward. If the display screen does not move, remove the battery and put it in again after one minute.
- When the LCD readout display small fonts "5" and "in", it is under inch system.
- mm/in: it is a Metric and inch conversion key. Press this key for mm/in system conversion.
- ZERO: Zero setting key. It can set-zero in any position within the measuring range.
- ON/OFF: power on/off key.
- Before usage, loosen the fastening screws on caliper frame, and pull the caliper frame open gently, then use a clean soft cloth to wipe the measuring surface and the guiding surface clean.
- Check the "zero" position: Push the caliper frame gently until the two measuring jaw surface are close, so the LCD readout displays "zero", otherwise, press the "zero" key to set-zero.
- Tube thickness caliper to measuring the size of thickness (like pic 1).
- Center distance caliper can be measured between center size hole and hole (like pic 2). When diameter less than 5, direct measurement of center distance L. Aperture is bigger than 5, the center to center distance $L = (L_1 + L_2) / 2$.



Pic 1 Tube Thickness Digital Caliper



Pic 2 Center Distance Digital Caliper

Notes

- Avoid exposure to the places of high dust, avoid exposure to sunlight ultraviolet radiation and high temperature.
- When pulling the caliper frame open, do it gently, do not drop or crash it.
- Clean the measuring surface with gasoline or alcohol, while keep any liquid away from electronic components and the measuring blade upper surface.
- The usage and test environmental relative humidity ≤80%.

Troubleshooting

Common fault	Possible reason	Troubleshooting
Readouts jump or no readouts	Poor battery contacts or dead battery	1. Check the inner battery contact 2. Replace battery
Readouts display irregularly	Caliper under damp and moisture situation	Clean the measuring blade upper surface with gauze or open it and clean