

Hole Center Position Digital Caliper

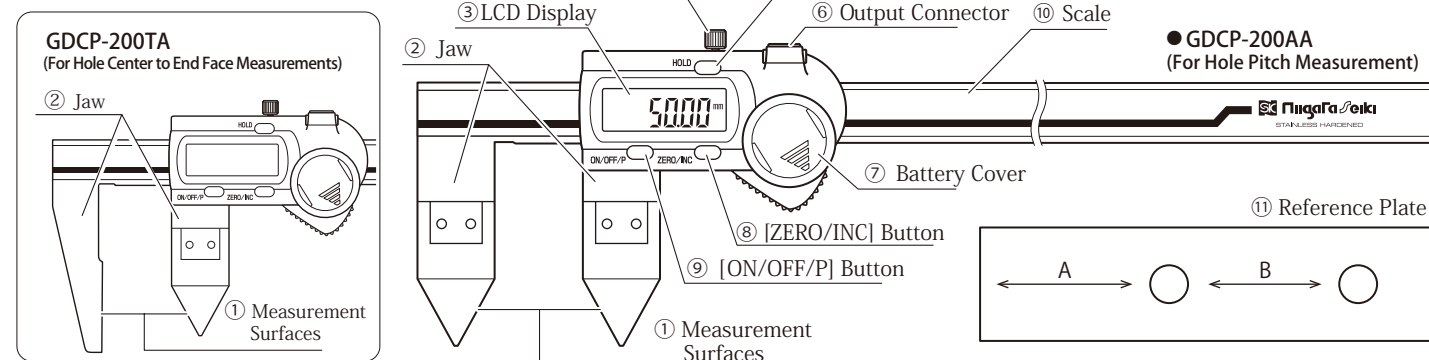
DIGITAL HOLE PITCH CALIPER

Thank you for purchasing Niigata Seiki Digital Hole Pitch Caliper.

This precision measuring tool measures distance between holes, or distance from hole center point to end face.

- For safe and proper use of this product, please read this instruction manual before use and follow the procedures described. Keep this manual with the calipers for future reference.
- Keep this manual with the instrument if transferred or leased to a third party.
- For inquiries about this product, please contact dealer or Niigata Seiki at the address listed on the following page.


■ PARTS IDENTIFICATION • FUNCTION




- | | | | |
|-----------------------|---|---------------------|---|
| ① Measurement Surface | Surfaces which contact the workpiece. | ⑦ Battery Cover | Open to access battery. |
| ② Jaw | For positioning on object to be measured. | ⑧ [ZERO/INC] Button | When pressed, Display will read "0.00" |
| ③ LCD Display | Displays digital measurement. | ⑨ [ON/OFF/P] Button | For turning power ON / OFF, and for Preset Function. |
| ④ Lock Screw | Tighten to prevent the slide and display from moving. | ⑩ Scale | Supports LCD Display Unit. |
| ⑤ [HOLD] Button | When pressed, "HOLD" Icon appears on Display and measurement will be fixed. | ⑪ Reference Plate | For setting origin using the Preset Function. Includes Inspection Report. |
| ⑥ Output Connector | Connect to optional Bluetooth Box to send measurements to PC. | | |









SAFETY PRECAUTIONS Please Observe

Always follow these marked operating procedures in order to prevent harm to yourself or others, and to prevent damage to property.

 Denotes a prohibition – You MUST NOT do

 Denotes a requirement – You MUST do

 **WARNING** Indicates risk of personal injury or property damage if not followed.

-  **Read this manual and follow the instructions.**
 - Use of product other than as described in the manual may cause accident.
-  **Use only for measuring.**
 - Use for any purpose other than measuring may cause damage or wear to the instrument. Improper use may also cause accident.
-  **Handle with Care.**
 - Do not drop or subject instrument to excessive shock. Do not place under heavy objects. Improper handling may cause damage or poor accuracy.
 - Do not scratch instrument.
-  **Avoid using in locations with high electric fields, such as near fluorescent lights or switching power supplies.**
 - May cause damage to Display Unit or erroneous reading.
-  **Use and store only in environment meeting the following conditions:**
 - Dry location protected from rain, water, and oils.**
 - Location that does not become hot.**
 - Location protected from use by children and unauthorized people.**
 - Use in places contrary to the above may cause damage to the product resulting in accident or injury.
-  **Jaw Tips are Sharp—Handle With Care.**
 - Careless handling may cause injury.
-  **Do not disassemble or modify**
 - Doing so may cause accident or injury. Please contact distributor or place of purchase for service.
-  **Do not write on instrument with electric engraver.**
 - Do not engrave instrument body or jaw arm, such as an ID number with engraver or electric pen.

PREPARATION FOR USE

Before using, please follow the steps below:

- Wipe off oil, rust proofing, and dirt from measuring surfaces and slide.** Contamination of surfaces may cause measurement error.
- Allow the caliper and object to be measured time to reach the same temperature.**

A temperature difference between the object to be measured and the caliper may cause measurement error. Allow enough time for the temperatures to equilibrate.

PRODUCT SPECIFICATIONS

※Not including quantization error (±1 count)

Model No.	Measurement Range (mm)	Measured Hole Diameter (mm)	Instrument Error* (mm)
GDCP-200AA	20~200	φ1.5~19.5	±0.05
GDCP-200TA	10~200		

- Resolution: 0.01mm
- Display: 6 Digit LCD
- Auto Off: approx. 20 min
- Maximum response speed:

Slide to Right	1.5m/s
(Left/Right as shown in diagram at top of manual.)	Slide to Left 0.75m/s
- Operating Temperature Range: 0° C~40° C
- Storage Temperature Range: -10° C~60° C
- Power: (1x) CR2032 Lithium Battery
- Battery Life: approx. 2.5 years in normal use.
- Accessory:
 - CR2032 Lithium Battery (1x, for test)
 - Reference Plate

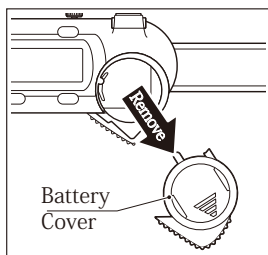
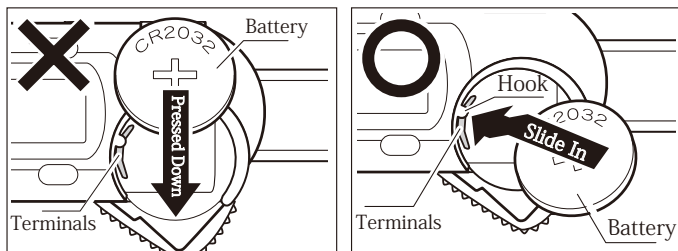
INSERTING • REPLACING BATTERY

- ① Slide cover in direction of arrow.
- ② Insert battery with (+) side outward.
- ③ Replace battery cover.

⚠ NOTICE Use only CR2032 type battery

- Use care to avoid damaging terminals when inserting battery.

- Terminals may be broken if battery is pressed straight down.
- Insert battery at angle, underneath the small hook, as shown.



TROUBLESHOOTING

Q. Nothing is displayed on LCD.

A. The battery may be running low, please replace battery with a new one.

Q. With power on, the number on the LCD does not change as the Display Unit is moved.

A. Please reset by removing battery for about 30sec., and then replacing.

Q. Nothing happens when buttons are pressed.

A. Make sure battery is properly inserted.

Q. The characters "MIN", "MAX", or "△" are displayed on LCD.

A. Cycle power, or apply several long presses to [HOLD] Button. Use as normal once character is off.

Q. The correct value is not displayed.

A. High humidity may cause dampness. Please dry off the instrument and use only in dry location.

SERVICE

- If Instrument is not working properly, or if you have any questions, please contact distributor or place of purchase.
- Please note, manufacturer is unable to respond to inquires or provide service directly. Please contact distributor or place of purchase.

AFTER USE CARE • STORAGE

- After use, wipe off any dirt or oil from measuring surfaces, sliding surfaces, and exterior using a dry cloth and perform rust prevention treatment. For rust prevention, lightly apply anti-rust oil, or place in rust preventive bag.
- Store with Lock Screw loosened.
If stored with Lock Screw tight, expansion due to temperature changes may cause excessive force which will cause inaccuracy.
- Store in a cool, dry, and dark location in the provided case.
Keep out of direct sunlight and moisture, and please keep secure from unauthorized personnel.
- Remove battery if instrument will not be used for a long period of time.

HOW TO USE

■ Power ON/OFF

- ① To turn on, press the [ON/OFF/P] Button.
- ② To turn off, press and hold (> 2 sec.) the [ON/OFF/P] Button.
- ③ With power on, press the [HOLD] Button to fix the value on the display.

■ SETTING REFERENCE POINT

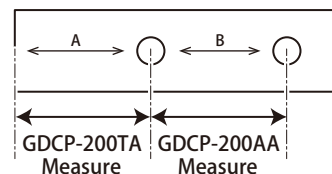
Then included Reference Plate is used to set the origin point for the Gauge; please prepare the Plate and the accompanying Inspection Report.

- ① Prepare the Gauge and Reference Plate by cleaning the measurement surfaces with a cleaning solution such as a parts cleaner.
- ② Turn on power, and loosen the Lock Screw.
- ③ Press and release the [ON/OFF/P] Button, "P" icon will appear and flash on the Display.
- ④ With the "P" icon displayed, press and hold the [ON/OFF/P] Button to change the position of the blinking character.
- ⑤ When the desired character is blinking, a short press of the [ON/OFF/P] Button changes the number at that position.
- ⑥ Repeat steps ④,⑤ to set the Value to the dimension printed on the Inspection Report that came with the Reference Plate.

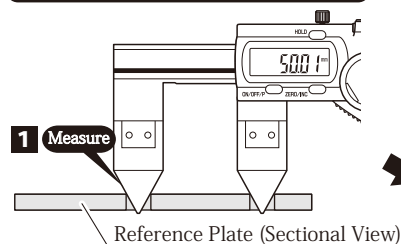
※ The dimensions listed on the Inspection Report are accurate to three decimal places. Please round off the number when entering into the display.

- ⑦ Move the blinking position back to the "P" icon and press the [ON/OFF/P] Button again briefly. The entered value is now preset.
- ⑧ Position the Caliper to measure the Reference Plate, and apply two short presses to the [ON/OFF/P] Button.
- ⑨ Confirm that the reading on the LCD matches the Inspection Report for the Reference Plate. The Origin is now set and the gauge is ready to start measurements.

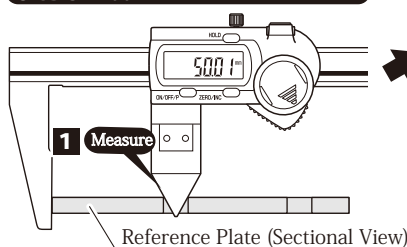
Reference Plate



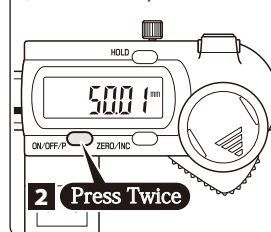
● GDCP-200AA



● GDCP-200TA



● GDCP-200AA, & 200TA



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