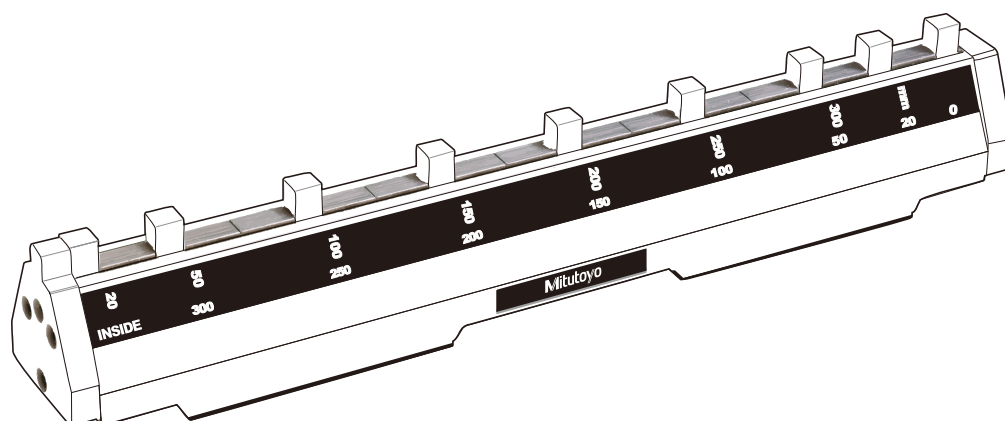


Reference Instrument for Calipers and Height Gages CERA Caliper Checker

CC-300C

CC-600C

CC-12C



User's Manual - Instructions for use -

Read this document thoroughly before operating the product.

After reading, retain it close at hand for future reference.

This English language version of the document
contains the original instructions.

- For the reading order of the related User's Manuals, see "■ Positioning of this document" on page 2.

No. 99MBF605B1

Date of publication: September 1, 2024 (1)



■ Product names and model numbers covered in this document

Product name	Model number
CERA Caliper Checker	CC-300C CC-600C CC-12C

■ Notice regarding this document

- Mitutoyo Corporation assumes no responsibilities for any damage to the product, caused by its use not conforming to the procedure described in this document.
- Upon loan or transfer of this product, be sure to attach this document to the product.
- In the event of loss or damage to this document, immediately contact the agent where you purchased the product or a Mitutoyo sales office ( "SERVICE NETWORK" on page App-1).
- Read this document thoroughly before operating the product. In particular, be sure to fully understand "Safety Precautions" on page 5 and "Precautions for Use" on page 5.
- The contents of this document are based on information current as of September 2024.
- No part or whole of this document may be transmitted or reproduced by any means without prior written permission of Mitutoyo Corporation.
- Some figures in this document may be highlighted, simplified or partially omitted for convenience of explanation. In addition, some of them may differ from actual ones to the extent that no user will misunderstand the functions and operations.
- Acrobat Reader is recommended for viewing PDF user's manuals.
- The corporation, organization, and product names that appear in this document are their trademarks or registered trademarks.

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About This Document

■ Positioning of this document

This describes the positioning of this document and its relationship with other installments.

CERA Caliper Checker
User's Manual (This document)

Includes the overview, operating methods, and maintenance for this product.

User's Manuals related to measuring tools

Includes the operations of the target measuring tools of accuracy inspection that is carried out with this product.

■ Intended readers of this document

This document is intended for operators with experience in the use of calipers and height gages. They are also assumed to be able to understand individual instructions by reading the described drawings.

Conventions Used in This Document

■ Safety reminder conventions warning against potential hazards

	Indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.
	Indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
	Indicates a situation which, if not avoided, may result in property damage.
	Flammable material Alerts the user to a specific hazardous situation that means "Caution, risk of igniting gas".

■ Conventions indicating prohibited and mandatory actions

	Indicates concrete information about prohibited actions.
	Indicates concrete information about mandatory actions.

■ Conventions indicating referential information or reference location

IMPORTANT	Indicates information that must be known when using the product.
Tips	Indicates further information and details relevant for the operating methods and procedures explained in that section.
	Indicates reference location if there is information that should be referred to in this document or an extraneous User's Manual. Example: For details about XX, see  "1.2 Part Names" on page 10.

Other conventions

(): Round brackets	Represent a paraphrase of an immediately preceding phrase or a supplementary explanation.
" ": Double quotation marks	Represent a highlighted phrase. They also indicate an index where information to be referenced is described.
1, 2, 3, ...	Indicates the order and the contents of tasks.

Example of conventions use

Important information

Supplementary information

Indicates an alert.

Indicates an alert.

Indicates an operating procedure to be performed or its outline.

A ">>" mark at the beginning of a sentence indicates the result of an operation.

X Operation

X Operation

X.X Precautions for Use

X.X.X Connecting the Power Cable

Mitutoyo service personnel or the agent where you purchased the product will connect the power cable at the installation of the main unit.

IMPORTANT

Use only the power cable that is supplied with this product.

Tips

In case of emergency or for maintenance purposes, after unplugging the power cable from the AC inlet, plug it in again.

X.X.X Mounting the Probe

Mount the probe onto the probe head by "auto joint connection". This section explains connection procedure.

CAUTION

There is a risk of injury due to accidents that accompany the movements of the probe.

!

Turn off the main unit before mounting the probe.

NOTICE

There is a risk of damage to this product due to the instability of input signals.

!

Turn off the main unit before mounting the probe even if the input signals are disabled.

- 1 Make sure that the keyway on the rear of the probe is set to the unlock position.
- 2 Align the marks on the probe head and the probe.
- 3 Using the accessory tool, turn the keyway on the rear of the probe to the lock position.

» The probe mounting is completed.

XX
No. XXXXXXXXX

X Operation

Safety Precautions

Read these "Safety Precautions" thoroughly before operating the product to use it properly. These safety precautions include such information as to prevent injury to the operator and other persons, damage to property and product defects. Be sure to observe these precautions carefully.

DANGER



Organic solvents such as thinners and benzene are flammable and their use may lead to fire caused by spontaneous ignition. They are also poisonous if inhaled.



Do not use organic solvents such as thinners and benzene.

CAUTION

If this product or optional accessories are handled improperly during transportation, it may cause risk of injury.



If the product falls or topples over, it may cause risk of injury. Handle this product with care.

Precautions for Use

■ Use and handling of the product

- This product is an instrument for checking the accuracy of measuring tools such as calipers and height gages.
Do not use this product for purposes other than for accuracy inspection.
- The product is a precision instrument.
Exercise extra care when handling. Pay full attention to avoid applying shocks or excessive force to each part when unpacking, setting up, using, or storing the product. If a shock is applied to this product, the accuracy of this product may be impaired.

■ Operating environment

Use the product in the following places.

- Where there is minimal dust and grit
- Where there are minimal vibrations
- Where fluctuations in temperature are minimal, under the condition with the recommended temperature of 20 °C
- Where humidity is low (70 % or less)

Do not use or store this product in the following places where temperature or humidity suddenly changes. Such environments will adversely affect this product functions and measurement results, or cause failure.

- Where there is direct exposure to cutting oil and water
- Where there is direct exposure to sunlight, hot air, or cold air (air current from air conditioning, etc.)

■ Transportation and moving

When transporting this product, apply anti-rust oil to the spacing blocks (☞ "1.2 Part Names" on page 10), wrap the product in anti-rust paper and vinyl, and then pack it in the original shipping carton. For that reason, please keep the packing material in a safe place and reuse it when you need to transport this product; alternatively, contact the agent where you purchased the product or a Mitutoyo sales office (☞ "SERVICE NETWORK" on page App-1).

■ Disassembly and modification

This product is precisely adjusted during assembly.

Absolutely do not adjust this product in any way other than as described in this document, and do not disassemble or modify it. Failure to follow this instruction may adversely affect the accuracy and functions of the product and will void the warranty.

■ Maintenance

After using the product, blow off any dust adhering to the product with clean air, and wipe off dirt with a soft, lint-free cloth soaked in a solvent, and apply a thin coat of liquid anti-rust oil to the spacing blocks (rust prevention treatment).

Do not use organic solvents such as thinners and benzene.

Recommended solvent: n-Heptane

Recommended liquid anti-rust oil: MOLYKOTE Supergliss

For details, see ☞ "3 Maintenance" on page 19.

Export Control Compliance

This product falls into the Catch-All-Controlled Goods and/or Catch-All-Controlled Technologies (including Programs) under Category 16 of Appended Table 1 of Export Trade Control Order or under Category 16 of Appended Table of Foreign Exchange Control Order, based on Foreign Exchange and Foreign Trade Act of Japan.

If you intend re-export of the product from a country other than Japan, re-sale of the product in a country other than Japan, or re-providing of the technology (including Programs), you shall observe the regulations of your country.

Also, if an option is added or modified to add a function to this product, this product may fall under the category of List-Control Goods, List-Control Technology (including Programs) under Category 1 - 15 of Appended Table 1 of Export Trade Control Order or under Category 1 - 15 of Appended Table of Foreign Exchange Control Order, based on Foreign Exchange and Foreign Trade Act of Japan. In that case, if you intend re-export of the product from a country other than Japan, re-sale of the product in a country other than Japan, or re-providing of the technology (including Programs), you shall observe the regulations of your country. Please contact Mitutoyo in advance.

Notes on Export to European Countries

When you intend exporting of this product to any of the European countries, it may be required to provide User's Manual(s) in English and Declaration of Conformity in English (in some cases, the official language of the country to be exported). For detailed information, please contact Mitutoyo in advance.

Disposal of Products outside the European Countries

Please follow the official instruction in each community and country.

Warranty

This product has been manufactured under strict quality management, but should it develop problems within one year of the date of purchase in normal use, repair shall be performed free of charge. Please contact the agent where you purchased the product or Mitutoyo sales office (📖 "SERVICE NETWORK" on page App-1).

If this product fails or is damaged for any of the following reasons, it will be subject to a repair charge, even if it is still under warranty.

- Failure or damage owing to fair wear and tear
- Failure or damage owing to inappropriate handling, maintenance or repair, or to unauthorized modification
- Failure or damage owing to transport, dropping, or relocation of the product after purchase
- Failure or damage owing to fire, salt, gas, abnormal voltage, lightning surge, or natural disaster
- Failure or damage owing to use in ultra-hazardous activities

This warranty is effective only where the product is properly installed and operated in conformance with the instructions in this document within the original country of the installation.

EXCEPT AS SPECIFIED IN THIS WARRANTY, ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS, AND WARRANTIES OF ANY NATURE WHATSOEVER INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT OR WARRANTY ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE, ARE HEREBY EXCLUDED TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

You assume responsibility for all results due to the selection of this product to achieve your intended results.

Disclaimer

IN NO EVENT WILL MITUTOYO, ITS AFFILIATED AND RELATED COMPANIES AND SUPPLIERS BE LIABLE FOR ANY LOST REVENUE, PROFIT, OR DATA, OR FOR SPECIAL, DIRECT, INDIRECT, CONSEQUENTIAL, INCIDENTAL, OR PUNITIVE DAMAGES HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY ARISING OUT OF THE USE OF OR INABILITY TO USE THIS PRODUCT EVEN IF MITUTOYO OR ITS AFFILIATED AND RELATED COMPANIES AND/OR SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

If, notwithstanding the foregoing, Mitutoyo is found to be liable to you for any damage or loss which arises out of or is in any way connected with use of this product by you, in no event shall Mitutoyo's and/or its affiliated and related companies' and suppliers' liability to you, whether in contract, tort (including negligence), or otherwise, exceed the price paid by you for the product only.

The foregoing limitations shall apply even if the above-stated warranty fails of its essential purpose. BECAUSE SOME COUNTRIES, STATES OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR THE LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, IN SUCH COUNTRIES, STATES OR JURISDICTIONS, MITUTOYO'S LIABILITY SHALL BE LIMITED TO THE EXTENT PERMITTED BY LAW.

1 Overview

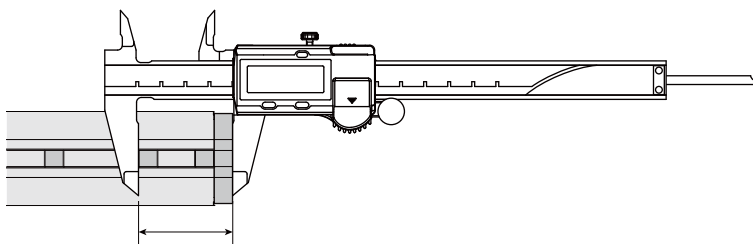
1.1 Characteristics

This product is a precision instrument used for checking the accuracy of measuring tools such as calipers and height gages.

It can be used in two orientations, vertical or horizontal, depending on the direction of the measurement.

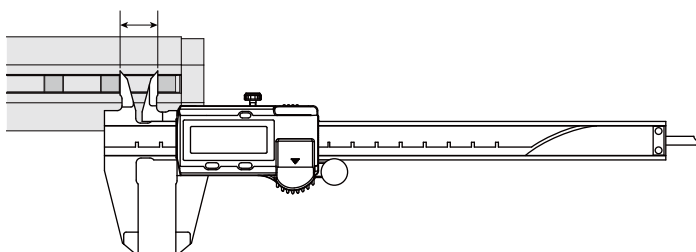
Caliper

Accuracy inspection
for outside measure-
ment
Horizontal orientation



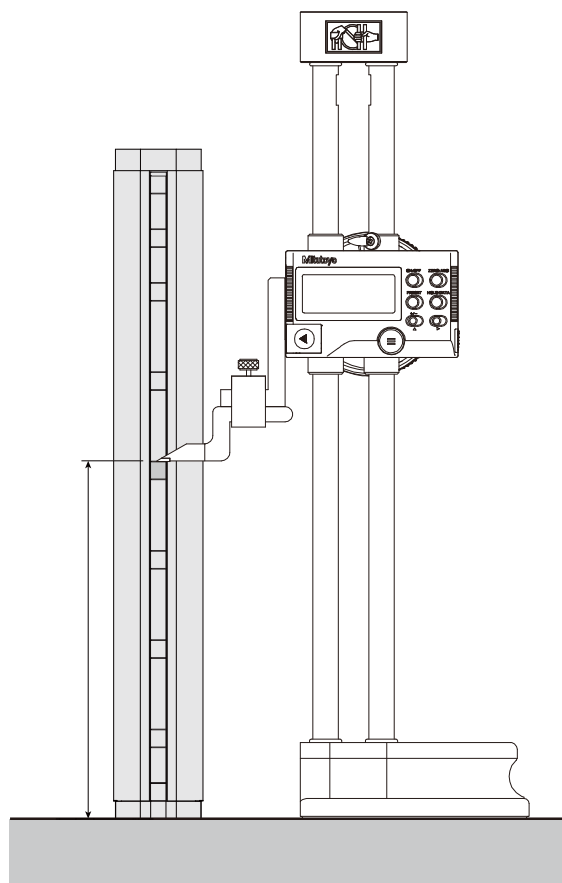
Caliper

Accuracy inspection
for inside measure-
ment
Horizontal orientation



Height gage

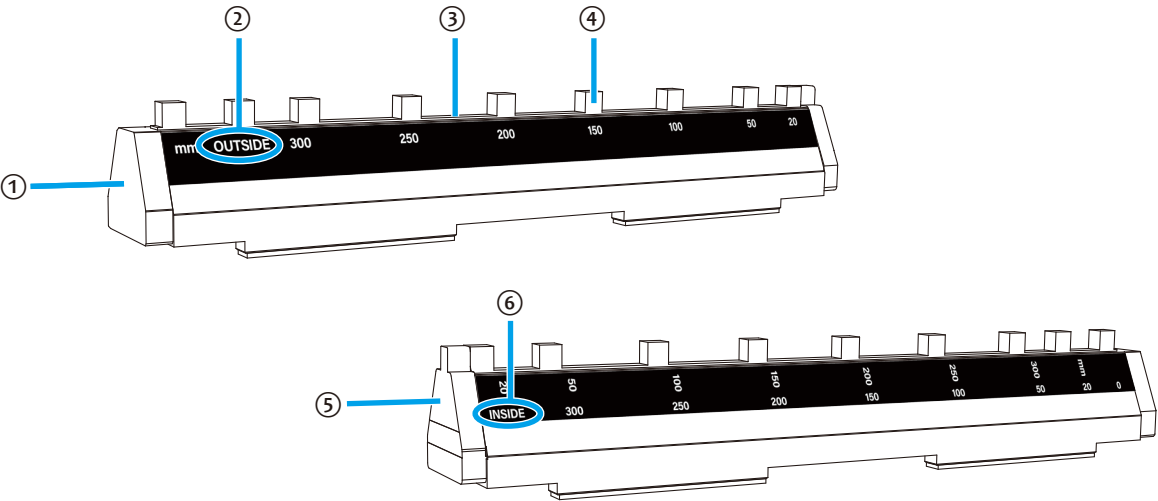
Accuracy inspection
for height measure-
ment
Vertical orientation



1.2 Part Names

1

Overview



No.	Name
①	Top plate
②	Scale plate (for outer dimensions of blocks)
③	Spacing block (made of steel)
④	Measurement block (made of zirconia ceramics)
⑤	Lower-end block
⑥	Scale plate (for inner dimensions of blocks)

2 Accuracy Inspection

Check the accuracy of a measuring tool (caliper or height gage) by measuring the dimensions on this product with the measuring tool (caliper or height gage) and then comparing the measurement results with the inspection dimensions.

2.1 In Case of Calipers (Outside Measurement) 12

2.2 In Case of Calipers (Inside Measurement) 14

2.3 In Case of Height Gages 16

2.1 In Case of Calipers (Outside Measurement)

Sandwich the lower-end block and the measurement block between the outside jaws of the caliper, and then measure the inspection dimensions from the lower-end block (reference) to the outer-end surface of the measurement block.

CAUTION

The outside and inside jaws of the caliper are sharp and pointed. Handle them with extra care to avoid bodily injury.

- 1 Wipe any dirt off the surfaces of the lower-end block and the measurement blocks of this product as well as the outside jaws of the caliper with lens paper or a lint-free cloth soaked in a solvent.

Tips

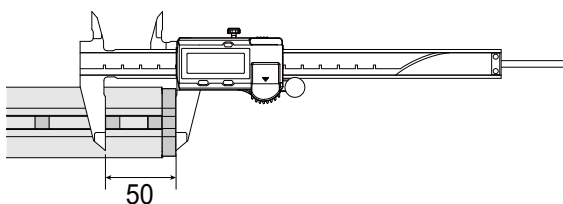
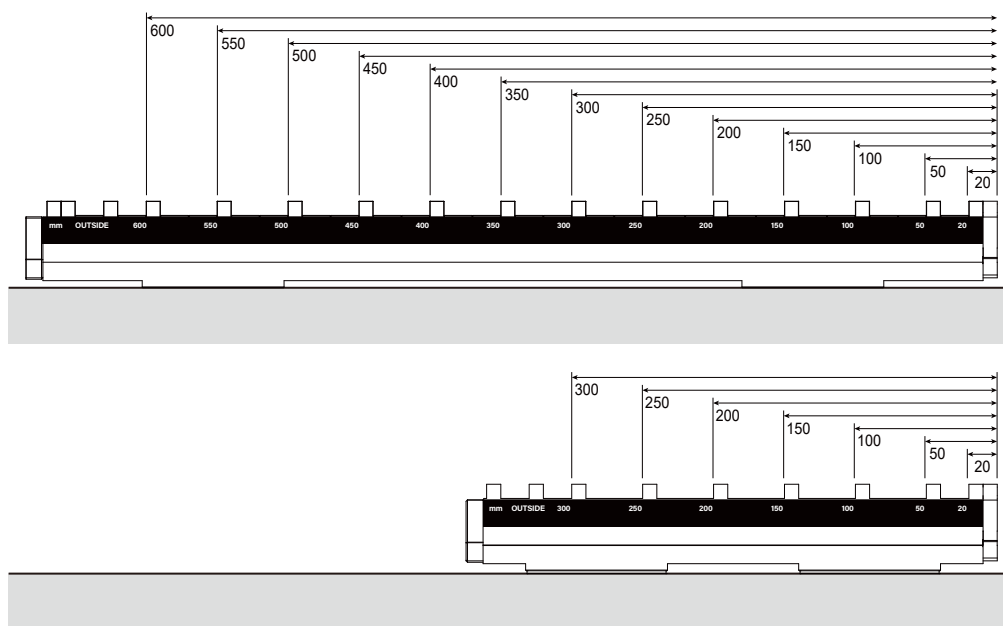
- Dirt or dust may cause measurement errors.
- Recommended solvent: Absolute alcohol

- 2 Set up this product on the surface plate.

- 3 Sandwich the lower-end block and the measurement block between the outside jaws, and then measure the inspection dimensions from the lower-end block (reference) to the outer-end surface of the measurement block.

For details about measurement operations, see  the User's Manual for your caliper.

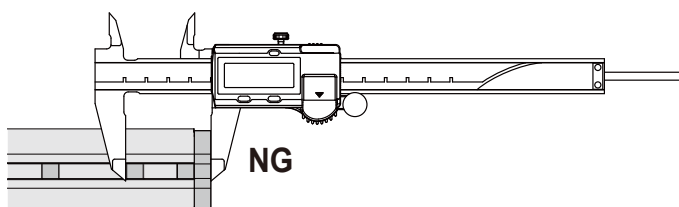
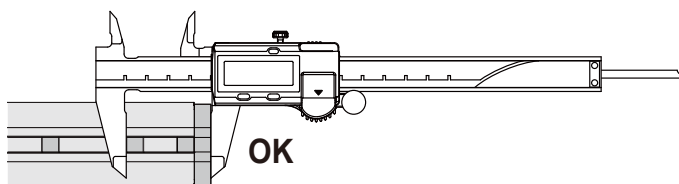
● Example of inspection of 50 mm



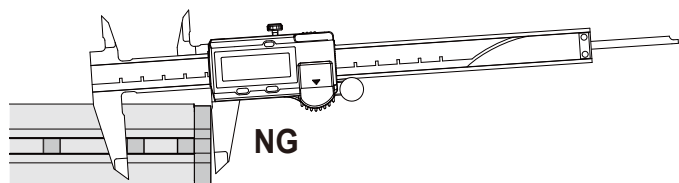
IMPORTANT

Measurement errors may occur, depending on the orientation in which the caliper is used. Pay attention to the following during use.

- Clamp the measurement block as close to the sliding surface as possible. Measurement errors are more likely to occur if the measurement block is clamped near the tips of the outside jaws.



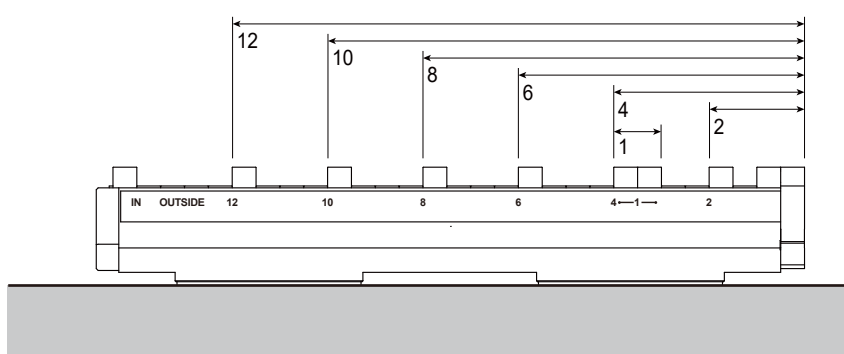
- Do not tilt the caliper or the outside jaws of the caliper when sandwiching the blocks. Any tilt in the jaws will result in measurement errors.



- Do not apply excessive measurement force to the measurement block. Excessive measurement force will cause measurement errors due to positional deviations in the jaws.

Tips

● CC-12C (inch specification)



2.2 In Case of Calipers (Inside Measurement)

Insert the inside jaws of the caliper between the two measurement blocks, and then measure the inspection dimension.

⚠ CAUTION

The outside and inside jaws of the caliper are sharp and pointed. Handle them with extra care to avoid bodily injury.

- 1 Wipe any dirt off the surfaces of the measurement blocks of this product and the inside jaws of the caliper with lens paper or a lint-free cloth soaked in a solvent.

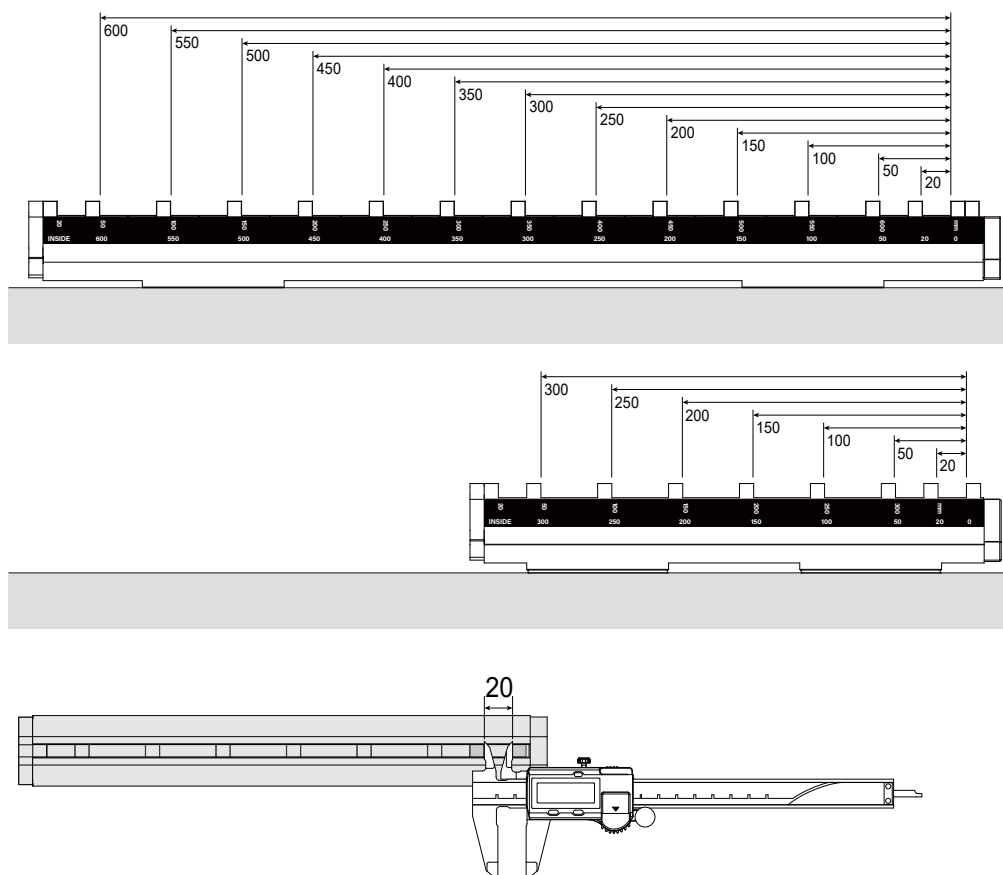
Tips

- Dirt or dust may cause measurement errors.
- Recommended solvent: Absolute alcohol

- 2 Set up this product on the surface plate.
- 3 Insert the inside jaws of the caliper between the two measurement blocks, and then measure the inspection dimension.

For details about measurement operations, see  the User's Manual for your caliper.

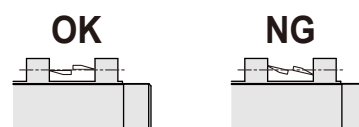
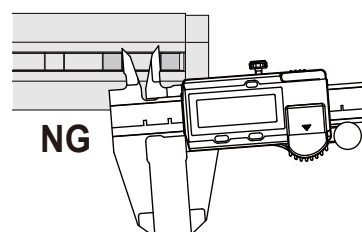
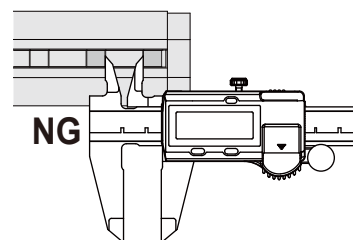
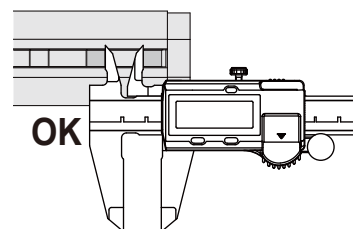
● Example of inspection of 20 mm



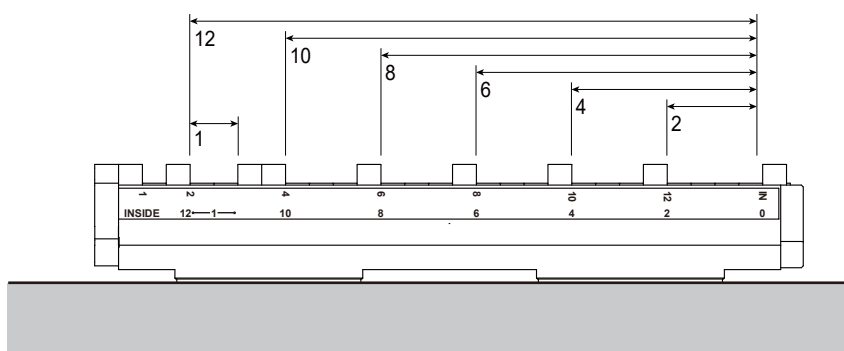
IMPORTANT

Measurement errors may occur, depending on the orientation in which the caliper is used. Pay attention to the following during use.

- Insert the inside jaws as deeply as possible between the measurement blocks.
- Do not tilt the caliper or the inside jaws of the caliper when inserting the jaws. Any tilt in the jaws will result in measurement errors.
- Bring the measurement surfaces into close contact and then read the value at the point where the displayed value is at its maximum (that is, at the point where the line connecting the measurement surfaces passes through the center of the cross section).

**Tips**

● **CC-12C (inch specification)**



2.3 In Case of Height Gages

⚠ CAUTION

The tip of the scribe is sharp and pointed. Handle it with extra care to avoid bodily injury.

- 1 Wipe any dirt off the surface plate, the surfaces of the lower-end block and the measurement blocks of this product, and the scribe and the bottom surface of the base of the height gage with lens paper or a lint-free cloth soaked in a solvent.

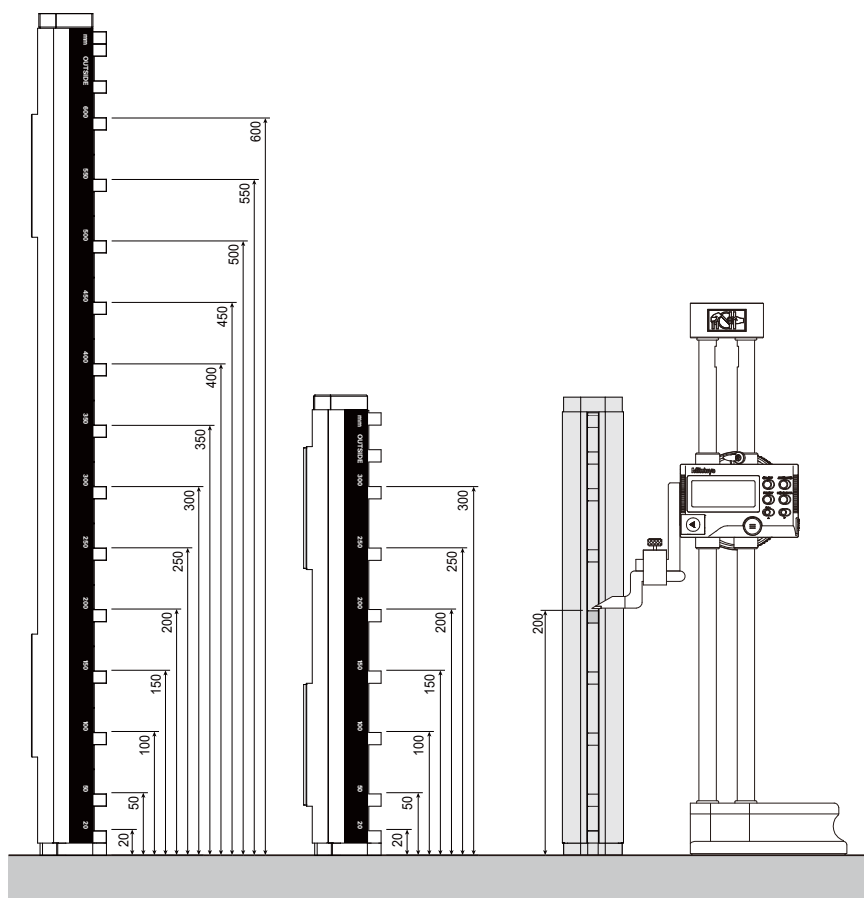
Tips

- Dirt or dust may cause measurement errors.
- Recommended solvent: Absolute alcohol

- 2 Set up the height gage on the surface plate.
- 3 Set up this product upright on the surface plate, with the lower-end block down.
- 4 Place the scribe on the upper surface of the measurement block and then measure the dimension from the lower-end block (reference) to the upper surface of the measurement block.

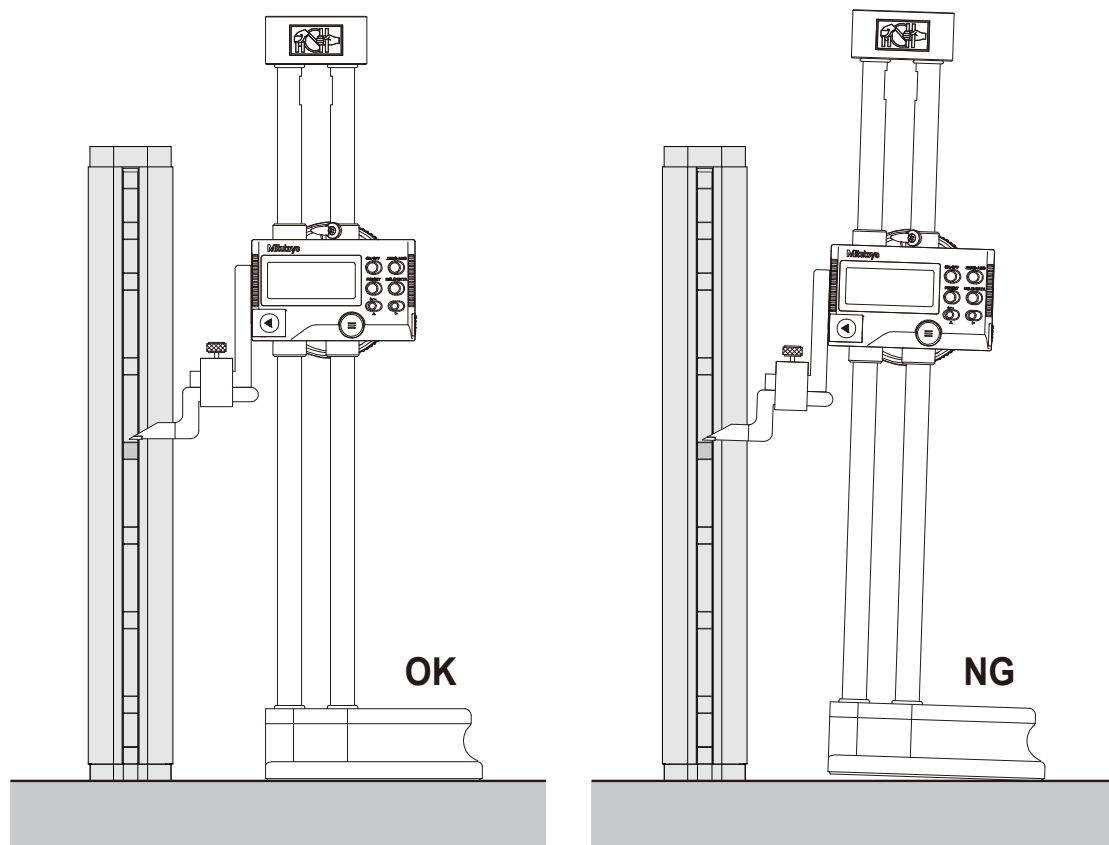
For details about measurement operations, see  the User's Manual for your height gage.

● Example of inspection of 200 mm



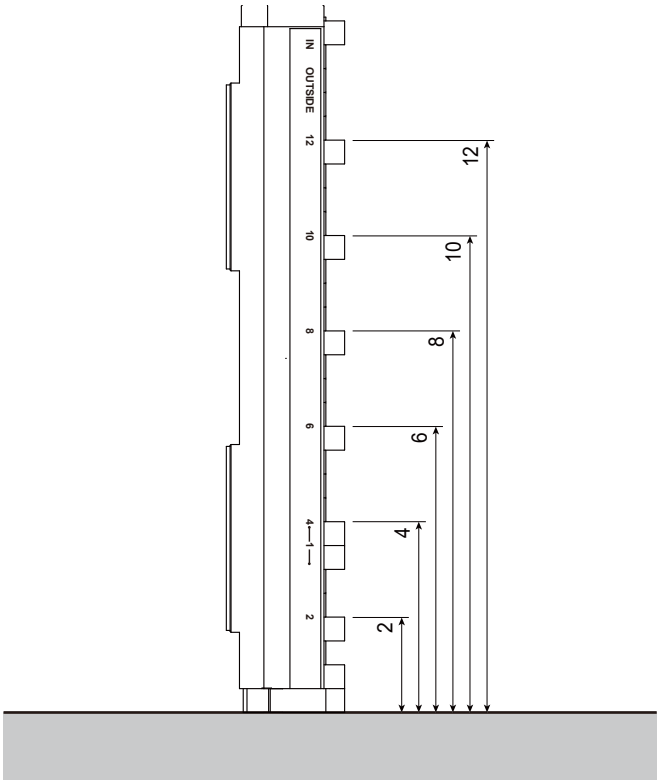
IMPORTANT

After lightly touching the scriber to the measurement block, if you lower the slider any further (measurement force is applied), the base will tilt on the surface plate, causing a measurement error. To perform an accurate inspection, lightly touch the scriber to the measurement block with a constant force by moving the slider as slowly as possible. Also, before the inspection, make sure that there is no dust or burrs (protrusions such as scratches) on the bottom surface of the base.



Tips

- CC-12C (inch specifaition)



3 Maintenance

This section describes the daily inspection and storage of this product.

To fully realize this product's abilities and safely use it for a long time, perform the maintenance items as described below.

CAUTION

If this product is handled improperly during transportation, it may cause risk of injury.



If the product falls or topples over, it may cause risk of injury. Handle this product with care.

■ Daily inspection

Check for any dirt or defective parts.

If this product is dirty, clean it. If any part is defective, arrange repair. Please contact the agent where you purchased the product or a Mitutoyo sales office (📄 "SERVICE NETWORK" on page App-1).

■ Cleaning

After using the product, blow off any dust adhering to the product with clean air, and wipe off any dirt or oil stains with a lint-free cloth soaked in a solvent such as absolute alcohol.

Do not use air spray guns equipped in the factory, as they may be contaminated with oil.

DANGER



Organic solvents such as thinners and benzene are flammable and their use may lead to fire caused by spontaneous ignition. They are also poisonous if inhaled.



Do not use organic solvents such as thinners and benzene.

NOTICE

Do not use organic solvents such as detergents, thinners, or benzene as they will damage the product or impair the quality of the product.

■ Storage

After cleaning, apply anti-rust oil to the spacing blocks, wrap the product in anti-rust paper, and vinyl, and then store it in the original shipping carton. (The same instructions apply in the case of long-term storage.)

■ Calibration and repair

When requesting calibration or repair, pack the product in its original shipping carton or cushioning material, and contact the agent where you purchased the product or a Mitutoyo sales office (📄 "SERVICE NETWORK" on page App-1).

■ Packing

Follow the procedure below when packing this product.

- 1** Wrap the product in anti-rust paper and vinyl, and tie the wrapped product with a piece of cloth tape while making a loop on the top.



- 4** Place the upper plate.



- 2** Hold the loop of cloth tape and then put the wrapped product into the packing carton.



- 5** Close the packing carton.



- 3** Lay some pads (cushioning material).



4 Specifications

4.1 Specifications.....	21
4.2 External Dimensions.....	22
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4.4 Optional Accessories	23

4.1 Specifications

Code No.		515-555	515-556-2	515-565
Model		CC-300C	CC-600C	CC-12C
Measuring range		20 mm to 300 mm	20 mm to 600 mm	1 in to 12 in
Tolerance for the difference between the actual dimension and the nominal dimension of blocks*	20 mm to 300 mm 1 in to 12 in	±5.0 µm	±5.0 µm	±0.0002 in
	350 mm to 600 mm	—	±7.0 µm	—
Tolerance for the range from the maximum dimension difference to the minimum dimension difference of blocks*	20 mm to 300 mm 1 in to 12 in	2.0 µm	2.0 µm	0.00008 in
	350 mm to 600 mm	—	4.0 µm	—
Mass		4 kg	8.5 kg	4 kg
Operating environment		Temperature: 0 °C to 40 °C		
Storage environment		Temperature: -10 °C to 60 °C		

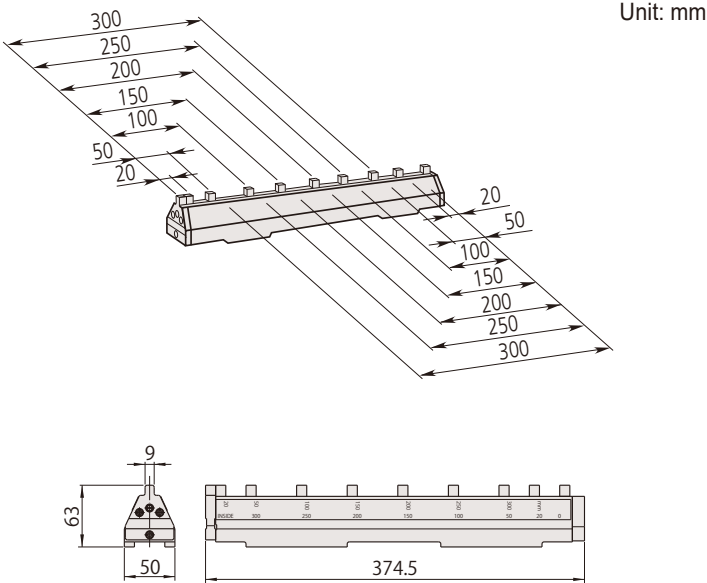
* The values are based on the following reference surfaces:

Outside jaws of the caliper and the height gage: lower-end reference surface

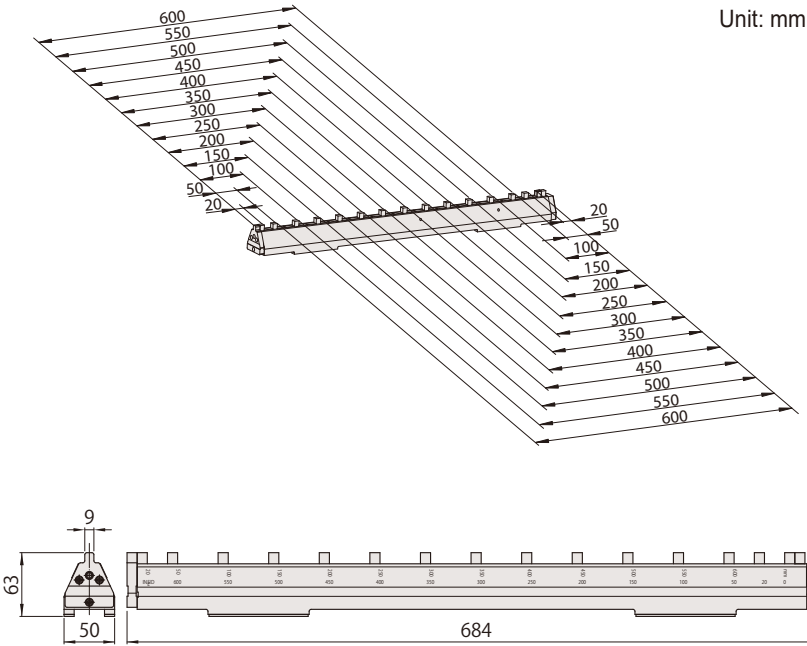
Inside jaws of the caliper: inside reference surface

4.2 External Dimensions

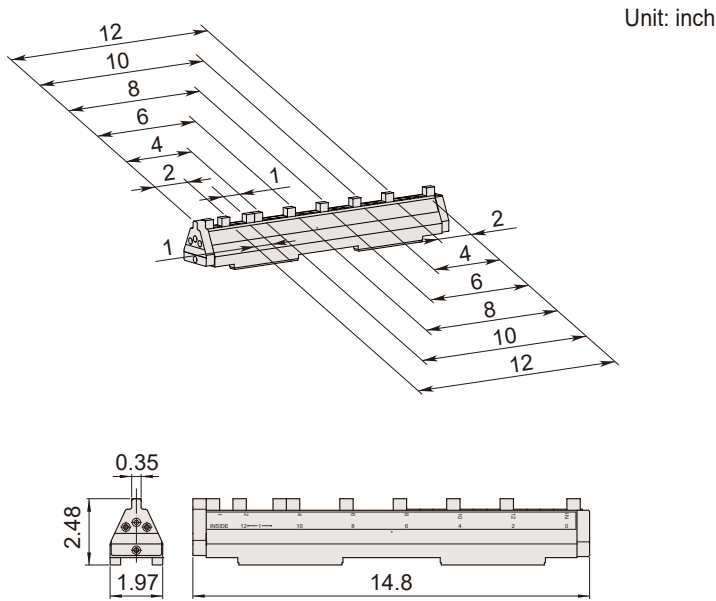
● CC-300C



● CC-600C



● CC-12C



Tips
While this product is in the horizontal position, the perpendicularity between the bottom surface and the measurement surfaces is not achieved.

4.3 Standard Accessories

Part No.	Part name
99MBF605B1	User's Manual (this document)
—	Warranty (card)
—	Certificate of inspection

4.4 Optional Accessories

Part No.	Part name
602162	Wooden storage box (for CC-300C, CC-12C)
602164	Wooden storage box (for CC-600C)

SERVICE NETWORK

*As of January 2024

Europe

Mitutoyo Europe GmbH

Borsigstrasse 8-10, 41469 Neuss, GERMANY
TEL: 49 (0)2137 102-0 FAX: 49 (0)2137 102-351

Mitutoyo CTL Germany GmbH

Von-Gunzert-Strasse 17, 78727 Oberndorf, GERMANY
TEL: 49 (0)7423 8776-0 FAX: 49 (0)7423 8776-99

KOMEG Industrielle Messtechnik GmbH

Zum Wasserwerk 3, 66333 Völklingen, GERMANY
TEL: 49 (0)6898 91110 FAX: 49 (0)6898 911100

Germany

Mitutoyo Deutschland GmbH

Borsigstrasse 8-10, 41469 Neuss, GERMANY
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M³ Solution Center Hamburg

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M³ Solution Center Berlin

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