



# High-precision 2D Measurement System Linear Height

**LH-600F**

**LH-600FG**



## Instruction 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.

- Read the included manual "Setup Manual" first.
- For information about the related manuals, see  
"■ Positioning of this document, document map"  
on page 1.

No. 99MBH047A

Date of publication: November 1, 2022 (1)



---

## ■ Product names and model numbers covered in this document

Product name	Model number
High-precision 2D Measurement System: Linear Height	LH-600F
	LH-600FG

## ■ 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.
- Read this document thoroughly before operating the product. In particular, be sure to fully understand "Safety" on page 7.
- The contents of this document are based on information current as of November 2022.
- No part or whole of this document may be transmitted or reproduced by any means without prior written permission of Mitutoyo Corporation.
- Some screen displays 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.
- The corporation, organization and product names that appear in this document are their trademarks or registered trademarks.

## ■ Copyright

This document is protected by copyright.

It is forbidden to transfer this document to third parties and to duplicate them in any way even partially as well as use and/or communicate its contents without the written consent of Mitutoyo Corporation Japan except for internal purposes. Violations will require compensation for damages. The payment of damages will be required in case of infringement.

©2022 Mitutoyo Corporation. All rights reserved.

---

# Contents

<b>About This Document</b> .....	<b>1</b>
<b>Conventions Used in This Document</b> .....	<b>2</b>
<b>Product Safety Labels</b> .....	<b>4</b>
<b>Personal Protective Equipment</b> .....	<b>5</b>
<b>Staff Requirements</b> .....	<b>6</b>
<b>Safety</b> .....	<b>7</b>
<b>Electromagnetic Compatibility (EMC)</b> .....	<b>17</b>
<b>Export Control Compliance</b> .....	<b>17</b>
<b>Notes on Export to European Countries</b> .....	<b>17</b>
<b>Disposal of Products outside the European Countries</b> .....	<b>17</b>
<b>Disposal of Old Electrical &amp; Electronic Equipment (Applicable in the European Countries with Separate Collection Systems)</b> .....	<b>18</b>
<b>Disposal of Waste Batteries and Accumulators (Applicable in the European Countries with Separate Collection Systems)</b> .....	<b>18</b>
<b>China RoHS Compliance Information</b> .....	<b>19</b>
<b>Disassembly and Disposal</b> .....	<b>20</b>
<b>Warranty</b> .....	<b>21</b>
<b>Disclaimer</b> .....	<b>21</b>
<b>1 Overview</b> .....	<b>23</b>
1.1 Features .....	23
1.2 Name and Function of Each Part .....	24
1.2.1 Main Unit .....	24
1.2.2 Display Unit .....	26
<b>2 Setup</b> .....	<b>29</b>
2.1 Installation Environment .....	30
<b>3 Specifications</b> .....	<b>33</b>
3.1 Basic Specifications .....	34
3.1.1 Dimension Drawings.....	36
3.2 Power Supply Specifications .....	37

---

3.3 Standard Accessories .....	37
<b>SERVICE NETWORK .....</b>	<b>App-1</b>

---

# About This Document

## ■ Positioning of this document, document map

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

### ● For hardware

Instruction Manual  
(This document)

Explains the safety precautions, overview, components, specifications, etc. of this product.

Hardware Guide

Explains the specifications, setup, maintenance, troubleshooting, etc., for the hardware of this product.

### ● For operation methods and software

User's Manual

Explains the fundamentals, basic and advance measurements, troubleshooting, etc., for this product.

LH Communication-Tool  
User's Manual

Explains the procedures for reading measurement data from this product, creating an inspection certificate, etc., on a PC with LH Communication-Tool installed.

Download LH Communication-Tool from the Mitutoyo home page.

### ● For setup

Setup Manual

Read this first.

Explains how to unpack and place this product, how to mount probes, etc.

Quick Start Guide

Explains the procedure for starting this product and performing a basic measurement.

## ■ Intended readers and purpose of this document

### ● Intended readers

This document is intended for first-time users of the High-precision 2D Measurement System (Linear Height). They are also assumed to be able to understand individual instructions by reading the described drawings.







### ● Purpose

Thoroughly read the contents of this document to use this product safely and correctly. After reading, store this document with this product in a safe location.




The purpose of this document is to help you to understand the safety precautions, overview, components, specifications, etc. of this product.

## 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, <b>will result in death or serious injury</b> .
	Indicates a hazard with a medium level of risk which, if not avoided, <b>could result in death or serious injury</b> .
	Indicates a hazard with a low level of risk which, if not avoided, <b>could result in minor or moderate injury</b> .
	Indicates a situation which, if not avoided, <b>may result in property damage</b> .
	<b>Electricity</b> Alerts the user to a specific hazardous situation that means "Caution, risk of electric shock".
	<b>Crushing of hands</b> Alerts the user to a specific hazardous situation that means "Caution, risk of hand pinching".

### ■ Conventions indicating prohibited and mandatory actions

	Indicates concrete information about prohibited actions.
	Indicates concrete information about mandatory actions.
	Indicates that grounding needs to be implemented.

### ■ Conventions indicating referential information or reference location

<b>IMPORTANT</b>	Indicates information that must be known when using the product.
<b>Tips</b>	Indicates further information and details relevant for the operating methods and procedures that are 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 Overview" on page 23.

## 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.
[ ]: Square brackets	Represent a menu name on the screen, screen name, dialog name, button, display item, tab name, or key on the controller or keyboard. They also indicate an item to be purposely entered or selected by the customer. Additionally, they indicate a key switch on the JSBOX (joystick box).
<b>1</b> , <b>2</b> , <b>3</b> ... <b>1, 2, 3...</b>	Indicates the order and the contents of tasks. ( <b>1</b> : indicates main tasks, <b>1</b> : indicates detailed tasks)
»	Indicates the action resulted from some operation(s).

## Example of conventions use

**1 Overview**

**NOTICE**

**!** When you connect or disconnect a receipt printer, a Digimatic device, or a foot switch to or from this product, always turn off the power to the display unit, unplug the AC adapter, and then connect or disconnect the device.  
If a receipt printer or a Digimatic device is connected or disconnected while the display unit power is on, the internal circuitry of the device or the display unit may be damaged.

No.	Name	Function
①	Touch screen (LCD: liquid crystal display)	Displays measurement results, guidance for measurement, and the settings of this product. Various settings and input can be made by touching it. For details, see [ ] "1 Overview" in "PART A Overview" in the separate User's Manual.  <b>Tips</b> If the LCD off function is enabled, the LCD automatically turns off after a set length of time. When the LCD is off, pressing a sheet key or touching the touch screen turns it on again. For details about the LCD off function, see [ ] "1.4.2 [Device Settings] Screen" in "PART C System Settings" in the separate User's Manual.
②	Power (Ⓞ) key	Turns the power on or off when pressed. When the power is on, the LED on the power key lights up. When the power is turned off, the internal settings are retained, but any data for an ongoing measurement is lost.  <b>Tips</b> If the auto off function is enabled, a message that indicates that the power will automatically turn off is displayed after a set length of time. After this message is displayed, if no sheet key or touch screen operations are performed within 60 seconds, the power automatically turns off. For details about the auto off function, see [ ] "1.4.2 [Device Settings] Screen" in "PART C System Settings" in the separate User's Manual.
③	Sheet keys	The measuring command keys are located here. Measurement and setting operations can be done by pressing the keys. For details, see [ ] "1 Overview" in "PART A Overview" in the separate User's Manual.
④	Battery cover	Remove when changing the internal battery pack.
⑤	[RS-232C] connector	Connect a receipt printer (optional accessory).

Indicates a precautionary information.

Indicates supplementary information.

# Product Safety Labels

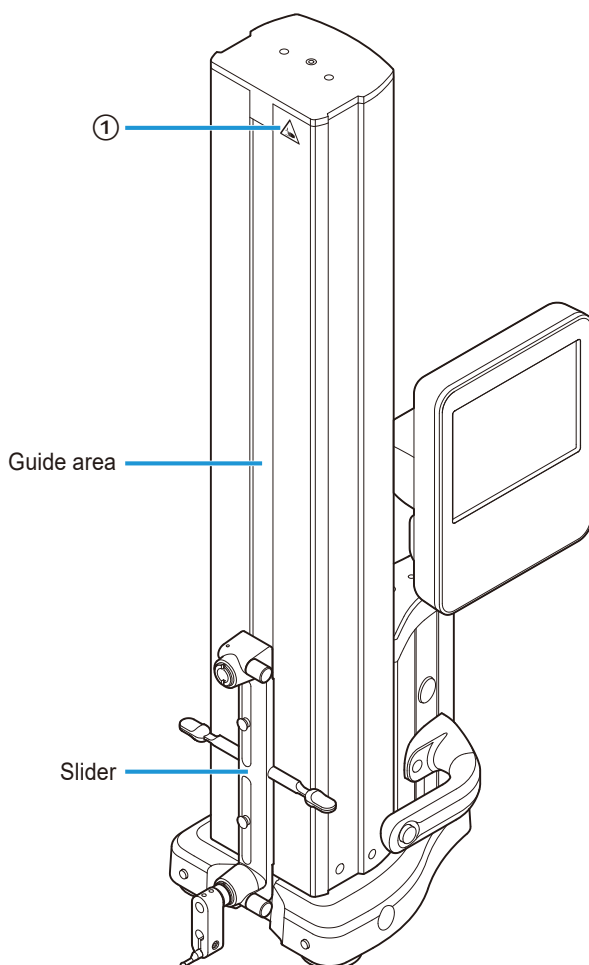
This product has been designed and manufactured with human safety as a priority. In order to use it more safely, product safety labels have been applied to the main unit. This section explains the meaning and the contents of each safety label on the product.

Please make sure that this label is always located on this product as specified in this section.

If this label is missing or damaged, it needs to be replaced immediately. Please contact the agent where you purchased the product or a Mitutoyo sales office for replacement of labels.

Before operating this product, be sure to carefully read this section to use this product safely and for a long time.

## ● Product safety label locations and precautions



**Location**    **Label appearance**

①



**Precautions**

**Risk of pinched hands (to prevent injuries caused by pinching from movable parts)**

Do not put your fingers or hands in the guide area (groove where the slider moves). There is a risk of injury from getting your fingers or hands pinched between the slider and guide area.

Sliders to which a probe is not mounted automatically move up to the top. During setup, when removing the wing screw or when exchanging probes, be sure to move the slider to its upper-most position first, and then perform the work.



---

# Personal Protective Equipment

Personal protective equipment serves to protect persons from adverse effects on safety and health at work.

During the various works performed with this product, the workers must wear the proper personal protective equipment.

In addition to the protective equipment stipulated herein, the protective equipment specified by the operating company and required on site must be worn.

Types of personal protective equipment are represented by the following illustrations.



## **Protective clothing**

Protective clothing is close-fitting and tears easily with narrow sleeves and without protruding parts.



## **Safety glasses**

Safety glasses serve to protect the eyes from flying parts and splashing liquids.



## **Safety gloves**

Safety gloves serve to protect the hands from friction, scrapes, punctures or deeper injuries, as well as from contact with hot surfaces.



## **Safety shoes**

Safety shoes serve to protect the feet from crushing injuries, falling parts and slipping on a slippery substrate.

---

# Staff Requirements


Before performing work with this product, the workers must understand the contents of the Setup Manual and this document, and any unclear points regarding the work should be resolved by contacting a Mitutoyo sales office as necessary.

## ■ Insufficient qualification

### **WARNING**

**Insufficient staff qualification can result in serious injury or death.**



- If unqualified persons operate this product or enter the danger zone, there are risks of the occurrence of serious injury or death.
- Keep unqualified persons away from the danger zone.  
 ■ "Work area and danger zone" on page 8



All work must be performed by properly qualified personnel.

## ■ Qualification

The following is an overview of the personnel requirements for each type of work.

### **Programmer of this product**

Programmers of this product must understand the contents of the Setup Manual and this document, any unclear points regarding the work should be resolved by contacting a Mitutoyo sales office as necessary, and programmers must be authorized by the operating company to perform measuring processes.

### **Measurer**

Measurers must belong to the staff of the operating company that uses this product, must understand the contents of the Setup Manual and this document, and any unclear points regarding the work should be resolved by contacting a Mitutoyo sales office as necessary. Measurers who thoroughly understand the work can start and execute measurement processes with the LH-600F/FG.

---

# Safety

## Purpose of Use

This product can only be used for the measurement of workpieces whose characteristics, weights, and external dimensions fall within the predetermined specifications.

 "3 Specifications" on page 33

The purpose of use also includes compliance with all details of this document.

In this document, "misuse" denotes the use beyond the purpose or use of the kind considered to be wrong.

## ■ Misuse

Misuse of this product can lead to hazardous situations.

### **WARNING**

**If the covers are removed or if the product is disassembled, there is a risk of electric shock, fire, or burns.**



- Do not open the covers of this product during operation.
- Do not disassemble/repair this product by yourself.

### **WARNING**

**If there are dangerous materials around this product, there is a risk of electric shock, fire, or burns.**



- Ensure that there is no water, oil, chemical solution, organic solvent, or corrosive gas around this product.
- Do not locate this product in the following locations:
  - Where there is a potential risk of explosions
  - Where the floor strength is insufficient
  - Where the ambient temperature is not within the product operation-guaranteed temperature range
  - Where electric noise is generated due to static electricity, etc.
  - Where there are strong electrical fields
  - Where electrical wires or power lines pass nearby
  - Where there is a risk of exposure to radiation
  - Where there is a risk of exposure to corrosive gases

### **NOTICE**

**If this product is disassembled, there is a possibility that property damage will occur.**



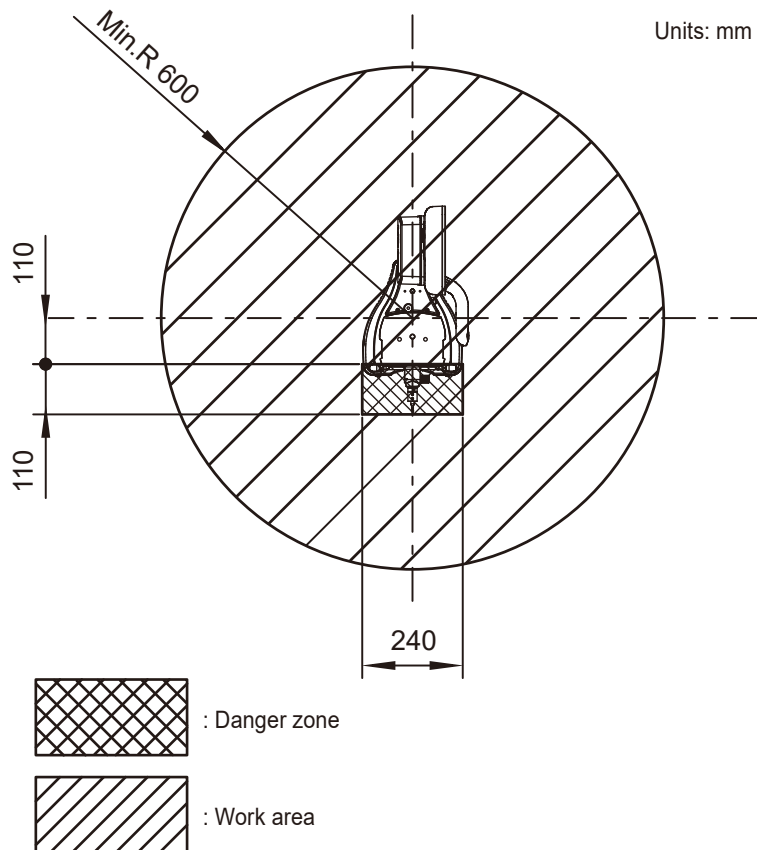
- Disassembling this product yourself will void the manufacturer warranty.
- Do not make modifications yourself to either the hardware or the software without permission from Mitutoyo.
- For repairs, please contact the agent where you purchased the product or a Mitutoyo sales office.

# Residual Risks

"Residual risks" means the risks that are still left after taking measures against assumed risks. This section describes "residual risks" for this product.

## ■ Work area and danger zone

Work area (maintenance area) and danger zone of this product are shown in the following figures. The work area (maintenance area) consists of the specified front, rear, and side spaces of this product. The danger zones are the spaces where any part of this product operates.



## ■ Electrical hazards

### ● Electric current

#### **WARNING**

**If an inappropriate power supply is used, there is a risk of electric shock.**



Regarding the power supply and power supply construction, consult with a licensed electrician or person with equivalent knowledge.

#### **WARNING**

**There is a risk of electric shock if you touch energized parts, damaged insulation, or damaged parts.**



- Do not remove any cover of the measuring instrument main unit or display unit while this product is powered on.
- During cleaning work, make sure that water or other liquids does not penetrate accidentally to the inside of this product.
- Do not use high-pressure cleaning devices for cleaning, etc. of this product.



Be sure to use only the AC adapter supplied with this product.

#### **Tips**

If any anomaly in the AC inlet is encountered, please contact the agent where you purchased the product or a Mitutoyo sales office for repair.


## ■ Mechanical hazards

### ● Probe

#### **CAUTION**

**There is a risk of injury if the probe is accidentally dropped.**



- Hold the probe firmly when attaching and detaching the probe so as not to drop it.
- Wear protective equipment as specified in  "Personal Protective Equipment" on page 5.

#### **CAUTION**

**If the probe is not properly secured, it may fall while the slider is moving and cause an injury.**




Mount the probe carefully and securely.

#### **NOTICE**

**There is a possibility of damage to the probe if it is accidentally dropped.**



- Hold the probe firmly when attaching and detaching the probe so as not to drop it.
- Wear protective equipment as specified in  "Personal Protective Equipment" on page 5.

## ■ Measures when an abnormality occurs

### **WARNING**

**If you continue to use the product after an abnormality has occurred, there is a risk of electric shock or fire.**



- If you notice an abnormality in the display unit, such as overheating, smoke, or an abnormal smell, immediately turn off the power and unplug the AC adapter from the power outlet. Then, contact the agent where you purchased the product or a Mitutoyo sales office to have the product repaired. If you continue to use the product, an electric shock or fire may occur.
- If foreign matter (such as water or a piece of metal) gets inside, immediately turn off the power, and unplug the AC adapter from the power outlet. Then, contact the agent where you purchased the product or a Mitutoyo sales office to have the product repaired. If you continue to use the product, an electric shock or fire may occur.
- If the product bumps against something hard and the cover or other part breaks, turn off the power, and unplug the AC adapter from the power outlet. Then, contact the agent where you purchased the product or a Mitutoyo sales office to have the product repaired. If you continue to use the product, an electric shock or fire may occur.

## ■ About display unit operations

### **WARNING**

**If the product is operated incorrectly, there is a risk of electric shock, fire, or injury.**



- Do not let any foreign matter such as a piece of metal, water, or other liquid get into the display unit through the openings around the connectors on the rear panel. An electric shock or fire may occur.
- Do not scratch or modify the cable of the AC adapter. If a heavy object is placed on the cable, or if the cable is pulled, bent, twisted, or exposed to heat, the AC adapter could be damaged, and an electric shock or fire may occur.
- Do not touch the power plug of the AC adapter or the DC plug with wet hands. An electric shock may occur.
- While the power plug is inserted in the power outlet, do not touch the metallic portions of the DC plug of the AC adapter with your hands. An electric shock may occur.
- If the power cable of the AC adapter or the AC adapter cable is damaged, stop using this product immediately. If you continue to use the product, an electric shock or fire may occur. If there is a problem with the power cable or the AC adapter, contact the agent where you purchased the product or a Mitutoyo sales office to have the product repaired.
- Do not subject the touch screen to impacts. Also, do not strongly press on the screen with a sharp implement. The touch screen may crack. If the touch screen is damaged and the liquid contents flow out and get on your skin, clean your skin with running water for at least 15 minutes. If the liquid gets in your eyes, wash them with running water for at least 15 minutes, and then consult a physician. The inside of the touch screen contains irritants.

## **WARNING**

**If the product is handled incorrectly, there is a risk of electric shock or fire.**



- If there is thunder nearby, unplug the AC adapter and the DC plug.  
If you continue to use the product, a malfunction, electric shock, or fire may occur.
- Connect the AC adapter to a power supply that does not supply high electric current, such as those for machine tools or large CNC measuring instruments. Also, do not use a power strip or multi-tap.
- If the metallic portion of the DC plug of the AC adapter or the power outlet is dusty, wet, or greasy, wipe the affected areas thoroughly with a dry cloth.  
If you continue to use the product, a fire may occur.

## **CAUTION**

**If the product is handled incorrectly, there is a risk of electric shock or fire.**



- Do not use an AC adapter other than the specified one.  
An internal circuit failure, fire, or injury may occur.
- If a malfunction occurs, such as no picture being displayed on the touch screen even though the power is on, do not use the product. Contact the agent where you purchased the product or a Mitutoyo sales office to have the product repaired.  
If you continue to use the product, an electric shock or fire may occur.



- Securely insert the power plug and DC plug of the AC adapter.  
If the plugs are not securely inserted, a fire or failure may occur.
- When unplugging the power plug or DC plug of the AC adapter, always hold the plug and unplug it.  
If you pull the cable, the core of the cable may be exposed or broken, and an electric shock or fire may occur.

## **NOTICE**

**If the product is operated or handled incorrectly, the display unit may malfunction.**



- Do not directly touch the pins of the connectors on the rear panel of the display unit with your hands.  
Also, use the supplied covers to cover any unused connectors.  
Static electricity could cause a malfunction or a failure in the internal circuitry.
- Do not attempt to disassemble or modify the display unit.  
A failure may occur.  
For inspection or repair of internal parts, please contact the agent where you purchased the product or a Mitutoyo sales office.




- Press the sheet keys of the display unit with your fingers. Do not press them with the point of a pencil or ball-point pen or with a sharp metal implement.  
The sheet keys may be damaged or break.

## ■ Setup risks

### CAUTION

If the setup work is performed incorrectly, there is a risk of injury.




- Wear protective equipment as specified in  "Personal Protective Equipment" on page 5.
- At least two individuals are required when placing the product (approx. 26 kg) on the surface plate. If the work is done by one individual, the product could fall down and cause an injury, or the worker's fingers or hands could be injured by getting pinched between the product and the surface plate.
- Mount the probe on the slider, and then remove the wing screw.  
The slider has been adjusted to be balanced with the  $\varnothing 5$  stepped probe mounted.  
If the wing screw is removed before the probe is mounted, the slider may move up suddenly, causing an injury by pinching your fingers or striking the guide area.

## ■ Risks when using the floating function

### CAUTION

If the surface plate is not level, there is a risk of injury when the floating function is used.



- Wear protective equipment as specified in  "Personal Protective Equipment" on page 5.
- Install the surface plate in a place where the levelness of the surface plate is within  $20 \mu\text{m}/\text{m}$ . If the surface plate is not level, measurement accuracy may be reduced. Furthermore, when the floating function is activated, this product might slide unintentionally on the surface plate and pinch the operator's fingers or hands between the product and the workpiece, etc., resulting in an injury.



---

## ■ Other hazard sources

### ● Insufficient lighting

#### **WARNING**

**Insufficient lighting in the operating environment may result in serious injury or death.**



- Ensure that there is sufficient lighting in the operating environment.
- Replace defective lighting equipment immediately.




Do not operate this product if the lighting is out of order or lacking.

### ● Cleaning detergent and lubricants

#### **WARNING**

**Contact of a cleaning solvent or lubricant with your skin or getting it into your eyes can cause serious injury.**



- Select a cleaning solvent that is harmless to the human body.
- Wear the protective equipment specified in  "Personal Protective Equipment" on page 5 so that your skin or eyes will not be exposed to cleaning solvents or lubricants.
- Wash your hands thoroughly, particularly prior to eating, drinking, or smoking, after using or touching cleaning solvents or lubricants.

### ● Display unit malfunction

#### **CAUTION**

**Malfunction in the display unit will induce erroneous judgment and may result in a risk of injury to the operator.**



- Replace the malfunctioning display unit immediately. Please contact the agent where you purchased the product or a Mitutoyo sales office for replacement.
- Before starting work, check all display devices for proper function.

## Precautions for Handling the Battery

A Ni-MH (nickel-metal hydride) battery (hereinafter referred to as the battery pack) is used as the main power supply, and a Li (lithium) battery is used for memory backup. Please observe the following precautions.

### **DANGER**

**If the battery pack is handled incorrectly, there is a danger of serious injury due to leakage, overheating, bursting, or combustion.**



The following precautions must be observed. Otherwise, the battery pack may leak, overheat, burst, or catch fire.

- Do not put the battery pack in a fire or heat it.
- Do not connect the positive and negative terminals of the battery pack with metallic material such as a wire. Also, do not store the battery pack together with any metallic parts.
- Do not disassemble the battery pack.
- Do not modify the battery pack.  
The battery pack contains circuitry for protecting against hazards. Modifying the battery pack may damage the functionality of the protective circuitry.
- The connector for connecting the battery pack to the main unit has a positive pin and a negative pin. If the connector does not fit smoothly to the main unit when connecting it, do not force it. Doing so may damage the internal circuitry of the display unit, cause an abnormal reaction inside the battery pack, or cause an abnormal current upon discharge.
- Do not use the battery pack with any equipment other than this display unit.





The following precautions must be observed. Otherwise, the battery pack may leak, overheat, burst, or catch fire.

- Charge the battery pack while it is in the display unit.  
If you use a different battery charger, excessive current may prevent charging or charging control.
- If battery liquid gets in your eyes due to leakage or bursting, do not rub them, but wash them thoroughly with clean water such as tap water, and receive medical treatment immediately.  
Otherwise, you may become blind.
- When the battery pack life runs out, discharge it, use plastic tape to isolate the connector portion, and dispose of it as noncombustible waste. Further, comply with local regulations regarding waste disposal.




 **WARNING**

If the battery pack is handled incorrectly, there is a risk of injury due to leakage, overheating, bursting, or combustion.

- |   |   |
|---|---|
|  | <ul style="list-style-type: none"><li>• Do not expose the battery pack or the connector to water, saltwater, etc. Doing so could cause the battery pack to overheat or cause rust to form on the battery pack and the connector terminals.</li><li>• Do not tear off or scratch the battery pack casing. Doing so increases the likelihood that the battery pack will short-circuit, which can cause leakage, overheating, bursting, or fire.</li><li>• If you notice abnormalities such as leakage, discoloration, or deformation in the battery pack, discontinue use. The battery pack could overheat, burst, or catch fire.</li></ul>   |
|  | <ul style="list-style-type: none"><li>• While charging, if charging does not complete within the predetermined charging time, stop charging. The battery pack may be overcharged, which could result in leakage, overheating, or bursting.</li><li>• If battery liquid gets on your skin or clothes due to leakage or bursting, wash off the liquid with clean water such as tap water immediately. Your skin could be damaged.</li><li>• When the usable time of the battery pack becomes very short, the battery pack has reached its end-of-life. Stop usage, and replace the battery pack with a new one (Part No. 12AAF712).</li></ul> |

 **CAUTION**

If the battery pack is handled incorrectly, there is a risk of injury due to leakage, overheating, bursting, or combustion.

- |   |  |
|---|--|
|  | <ul style="list-style-type: none"><li>• The Li battery is mounted on the printed circuit board in the display unit. Do not dispose of the display unit by burning it. If the display unit is burned, the battery may leak, burst, or burn violently. Comply with local regulations regarding disposal.</li><li>• Do not subject the battery pack to strong impacts or throw it. The battery pack could overheat, burst, or catch fire.</li><li>• Do not carry the battery pack by holding the connector or the lead wire.</li></ul>  |
|  | <ul style="list-style-type: none"><li>• Store the battery pack where infants and children cannot access it.</li><li>• When charging the battery pack, always keep the battery pack temperature and the ambient temperature within the range of 5 °C to 40 °C (10 °C to 30 °C is recommended). If you charge the battery at temperatures outside this range, the battery pack could leak or overheat. Additionally, the performance and life span of the battery pack could be reduced. Also, if the ambient temperature is over 30 °C, the battery pack may not be charged sufficiently.</li><li>• For details about how to charge the battery pack, see  "2.4.3 Charging" in the separate Hardware Guide. The charge capacity of the battery pack will be reduced to about 60 % after 250 charge cycles, though this figure depends on usage conditions and usage environment. If the charge capacity is reduced, replace the battery pack with a new one (Part No. 12AAF712).</li><li>• If the battery pack will not be used for a long time (30 days or more), remove the battery pack from the display unit, and store it in a location with low humidity and a temperature from -20 °C to 30 °C.</li></ul> |

---

## Responsibility of the Operating Company

This product will be installed in an industrial environment. For this reason, the company operating this product is subject to the legal requirements concerning occupational safety.

In addition to the safety guidelines contained in this document, the safety, occupational and environmental requirements in force for this product's operating area must be observed.

In particular, the following applies:

- The operating company must gather information about the applicable health and safety regulations. In a risk assessment, other risks, which arise from special work conditions possibly present at operating sites, must be studied. This must be implemented by the operating company, regarding the operation of this product in accordance with this document.
- During the entire time this product is in operation, the operating company must check whether this document is in compliance with the current status of the regulations in force and, if necessary, adapt them.
- The operating company must clearly identify and determine the responsibilities for installation, operation, troubleshooting, maintenance and cleaning.
- The operating company must ensure that all persons handling this product have read and understood this document. In addition, the operating company must train the personnel in regular intervals and inform it about the hazards.
- The operating company must provide the personnel with the required protective equipment and emphasize that the wearing of such equipment is mandatory.

The operating company is also responsible for keeping this product in proper technical conditions. As such, the following must be observed:

- The operating company must ensure compliance with the maintenance intervals described in this document.
- The operating company must ensure that the safety devices have been checked for functionality and completeness on a regular basis.

---

## Electromagnetic Compatibility (EMC)

This product complies with the EMC Directive and the UK Electromagnetic Compatibility Regulations; however, if this receives electromagnetic interference that exceeds these requirements, it will be out of warranty and require appropriate measures.

This product is an industrial product, and is not intended to be used in residential environment. If this product is used in residential environment, this product may cause electromagnetic interference with other instruments. In such a case, it is required to take appropriate measures for preventing such electromagnetic interference.

## 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.

---

## Disposal of Old Electrical & Electronic Equipment (Applicable in the European Countries with Separate Collection Systems)



This symbol on the product or on its packaging is based on WEEE Directive (Directive on Waste Electrical and Electronic Equipment), and this symbol indicates that this product shall not be treated as household waste.



To reduce the environmental impact and minimize the volume of landfills, please cooperate in reuse and recycle.

For how to dispose of the product, please contact the agent where you purchased the product or a Mitutoyo sales office.

## Disposal of Waste Batteries and Accumulators (Applicable in the European Countries with Separate Collection Systems)



Batteries and accumulators containing heavy metals such as mercury, lead, and cadmium may contaminate the environment if improperly discarded. When incinerated, certain chemicals are released into the air or concentrated in the ash residue from the combustion process. These may lead to health risks to humans and animals, and also damage the environment in general.

In compliance with legal requirements, the symbol of a 'crossed-out wheeled bin' is either applied on the battery or on its packaging. This symbol indicates that disposal of the batteries as household wastes is strictly prohibited. Instead, the batteries must be disposed according to separate collection and recycling rules. Additional marking identifies that heavy metal content (i.e. Cd =cadmium, Hg = mercury, Pb = lead) contained within the battery is over prescribed levels.

End users are obliged by law to comply with the discarding procedure for waste batteries. At Mitutoyo facilities, or at its appointed distributors, receptacles will be provided to accept the disposal of previously supplied batteries at no charge.

# China RoHS Compliance Information

This product meets China RoHS requirements. See the table below.

## 产品中有害物质的名称及含量

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
本体	×	○	○	○	○	○
配件	×	○	○	○	○	○

本表格依据 SJ/T 11364 的规定编制。

○: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。

×: 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。



环保使用期限标识是根据《电器电子产品有害物质限制使用管理办法》以及《电子电气产品有害物质限制使用标识要求(SJ/T11364-2014)》制定的,适用于中国境内销售的电子电气产品的标识。

电器电子产品只要按照安全及使用说明内容在正常使用情况下,从生产日期算起,在此期限内产品中含有的有毒有害物质不致发生外泄或突变,不致对环境造成严重污染或对其人身、财产造成严重损害。

产品使用后,要废弃在环保使用年限内或者刚到年限的产品,请根据国家标准采取适当的方法进行处置。

另外,此期限不同于质量/功能的保证期限。

---

# Disassembly and Disposal

## ■ Disassembly

### Before starting the disassembly work:

- Stop this product.
- Cut off all of the compressed air supplies, and discharge the residual energy.
- Physically disconnect the power supply from this product, and discharge the residual electric charge.
- Remove consumables, auxiliary materials and other process materials and dispose of them in accordance with the environmental protection regulations.

And then, clean the main unit and parts, and disassemble them in accordance with the local applicable laws on occupational safety and environmental protection.

## ■ Disposal

When disposing of this product by yourself, separate the components according to the following.

- Remove and scrap metal parts.
- Recycle plastic elements.
- Remove motors, valves, and accessories. Dispose of these components properly.
- Sort other elements in groups of materials and/or disposal methods.

And then, dispose of the above components in conformity with the regulations of safety and health and/or environmental protection in each municipality.

### NOTICE

#### Improper disposal adversely affects the environment.



- Request authorized operators to dispose of electrical and electronic products, and lubricants, or materials which correspond to them.
- Since the batteries contain harmful substances, do not dispose of them in household waste bins, dispose them in accordance with the appropriate disposal methods for each municipality and region.
- Inquire with certified vendors or waste disposal companies in regard to questionable components and materials.



---

## 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 a Mitutoyo sales representative (☎ "SERVICE NETWORK" on page App-1). This warranty, however, shall not affect any provisions of the Mitutoyo Software End User License Agreement.

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 combination with hardware or software other than those designated or permitted by Mitutoyo
- 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

This chapter explains the features and components of this product.

1.1 Features .....	23
1.2 Name and Function of Each Part .....	24

## 1.1 Features

This product is a height-measuring instrument that is capable of measuring with a resolution of 0.1 μm. By utilizing the height measurement, this product can perform a wide range of measurements, such as measurements of the widths of convex and concave parts, the diameters of shafts and holes, displacement on the measurement surface, the angle, perpendicularity and straightness, and dimensions in 2D. When a workpiece is scanned during measurement, a constant measuring force is maintained by automatic vertical movement of the probe position to match variations on the measuring surface. This product also has functions to perform measurement by part program, GO/NG judgment of measurement results, and statistical processing of measurement data.

Measurement results can be printed from a receipt printer (optional accessory) or Digimatic Mini-Processor (optional accessory) and also saved to a PC through U-WAVE (optional accessory), a USB memory device, or USB cable. Data that was saved to a PC can be read back in to this product.

Measurement operations can be performed intuitively by following the guidance displayed on the touch screen.

Some measurements and other functions can also be executed with the sheet keys arranged below the screen.

Cordless operation is possible because this product includes a rechargeable battery pack.

In addition, the floating function (a function that reduces friction by making a thin layer of air between the air pads and surface plate) allows this product to be moved over the surface plate with a small amount of force.

To maintain high measurement accuracy, this product has a function that displays notifications about the scale status and scheduled calibration on the screen.

## 1.2 Name and Function of Each Part

This section explains the name and function of each part of the measuring instrument main unit (herein-after referred to as the main unit) and display unit.

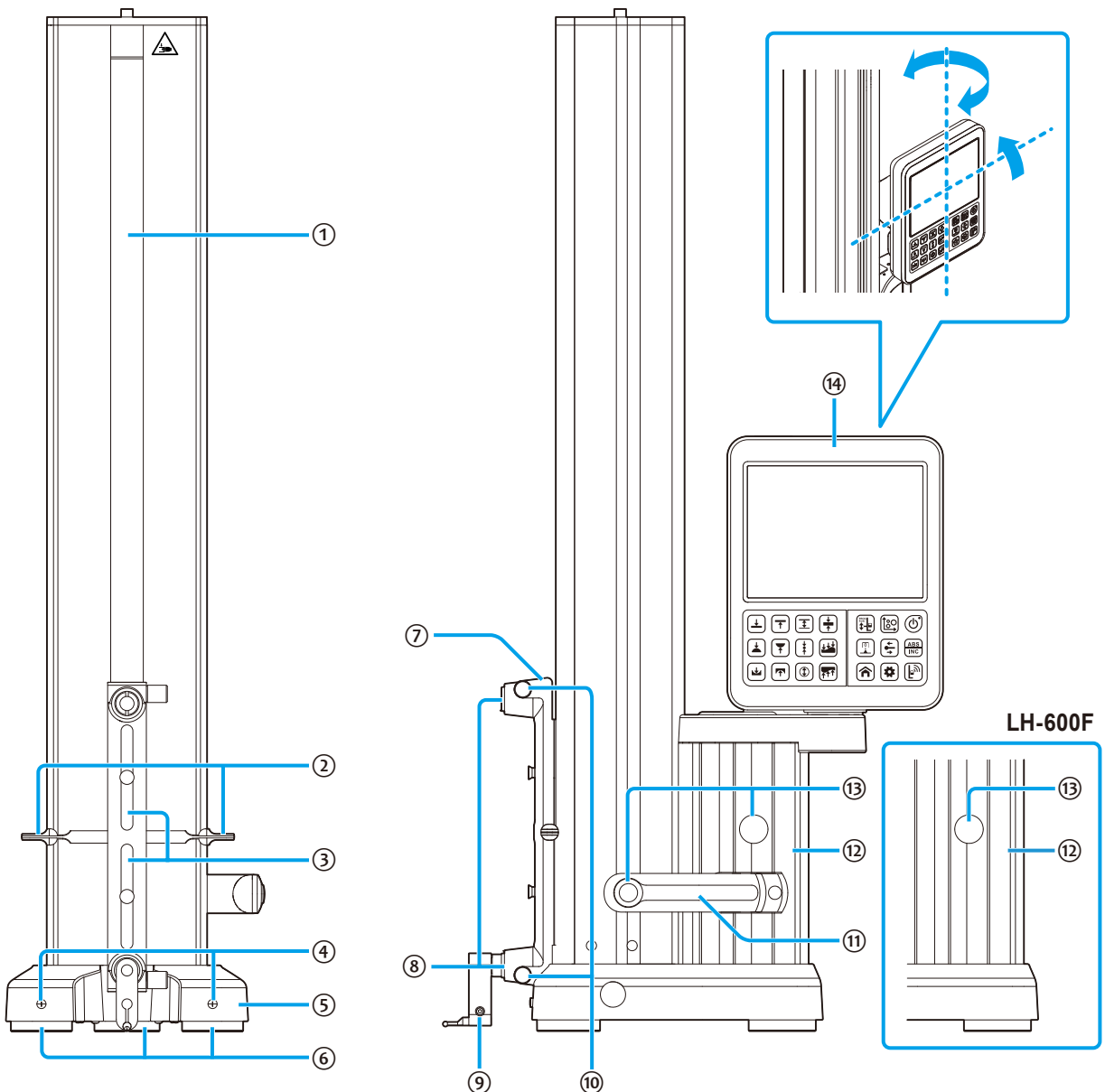
### 1.2.1 Main Unit

**⚠ CAUTION**




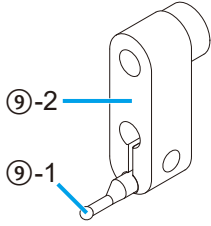





Hold the slider raising knobs (②) when moving the slider (⑦).  
 If you do not hold the slider raising knobs while moving the slider, your finger may get pinched between the slider and another component and get injured.

**LH-600FG**



# 1 Overview

No.	Name	Function
①	Guide area	Grooves for moving the slider.  Be careful not to get your hands pinched between the upper end of the guide area and the slider.
②	Slider raising knobs	Used to move the slider up and down.
③	Auxiliary weights	At shipment, two auxiliary weights that match the mass of the ø5 stepped probe (standard accessory) are attached to the slider. For details about the auxiliary weights, see  "3.3.4 Adjusting the Auxiliary Weights" in the separate Hardware Guide
④	Reference spots	Used as references while measuring an angle or while moving the main unit to scan a curved surface. They are mounted on the base in two places.
⑤	Base	Contains air pads for floating and the reference spots.
⑥	Air pads	Make a thin layer of air to float the main unit.
⑦	Slider	Mount one of the various probes. During a measurement, it moves automatically. It can also be moved manually.
⑧	Probe mounting holes	Holes for mounting a probe. There are two holes, one each at the top and bottom of the slider.
⑨	Probe	ø5 stepped probe (standard accessory). Composed of a stylus (tip diameter: ø5, carbide ball, ⑨-1) and holder (fixes the stylus: ⑨-2). Use one of the probe and stylus optional accessories according to your application. For details about optional accessories, see  "5.4 Optional Accessories" under "5 Specifications" in the separate Hardware Guide. 
⑩	Probe clamping knobs	Knobs for securing the probe that was inserted into one of the probe mounting holes.
⑪	Power grip (LH-600FG only)	Used as a grip when the main unit is being moved on the surface plate. It is also equipped with a floating switch.
⑫	Grip	Used as a grip when the main unit is being moved on the surface plate. It is also equipped with a floating switch.
⑬	Floating switches	Turn the air supply to the air pads on and off. The main unit can be moved on the surface plate with a small amount of force by using the floating function.
⑭	Display unit	The angle can be adjusted vertically and horizontally to match your operating environment. For details about functions and operations, see  "1.2.2 Display Unit" on page 26. <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;">  <b>CAUTION</b> </div> <div style="margin-top: 10px;">  When adjusting the angle of the display unit, always hold the display unit with both hands. If you use only one hand for adjustments, a strong force will be applied from only one direction, and the main unit may slide on the surface plate and fall, or your fingers may get pinched by the main unit, resulting in an injury.         </div>

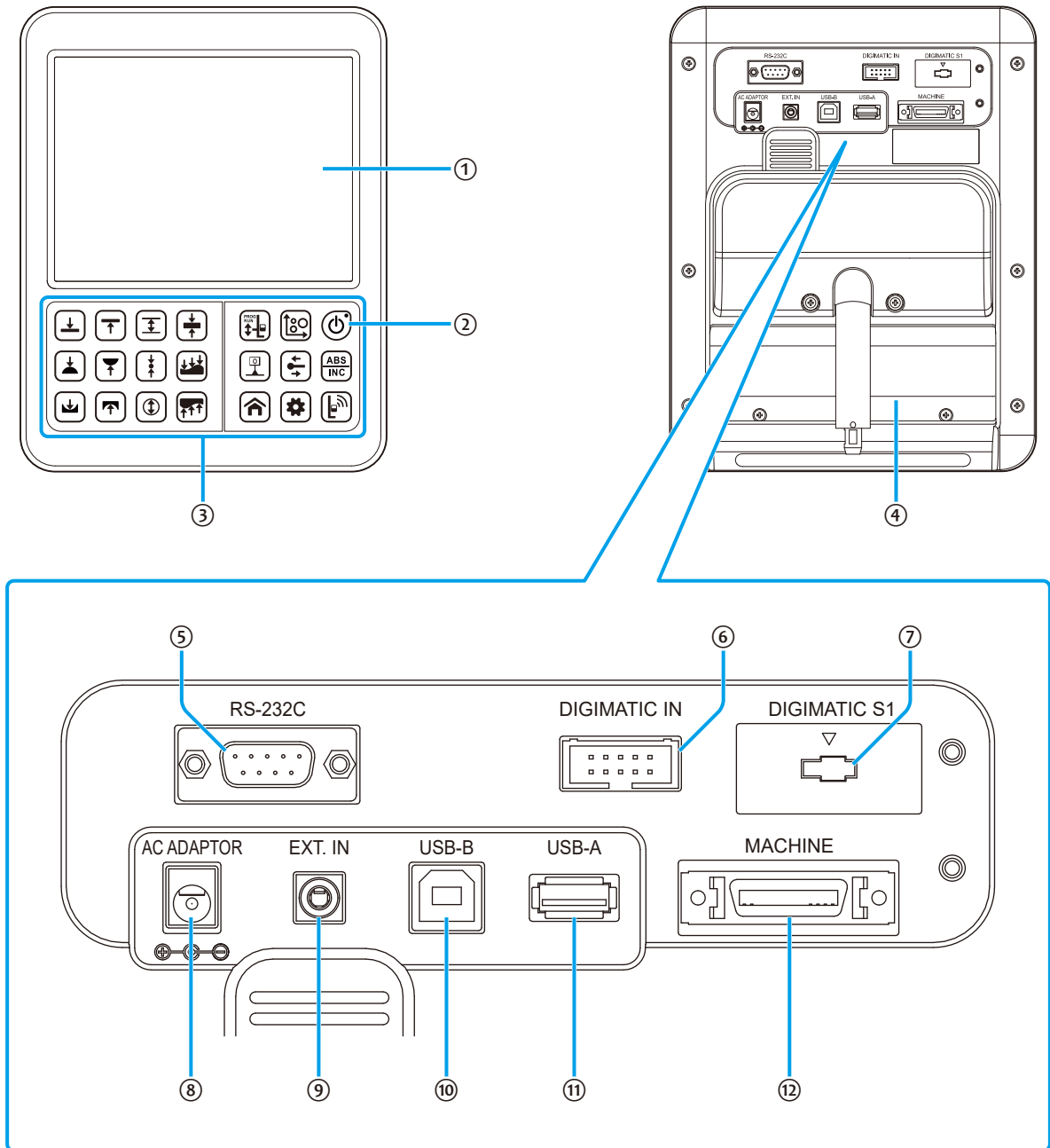
## 1.2.2 Display Unit

Measurement operations are performed with the display unit.

The touch screen and sheet keys on the display unit are used for measurement operations and entries of settings.

Guidance for measurement and setting operations appears on the touch screen.

Calculations and statistical processing using measurement results can also be performed.




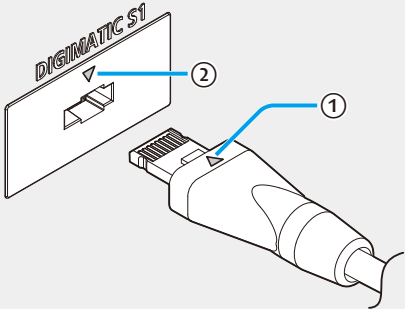
**NOTICE**



When you connect or disconnect a receipt printer, a Digimatic device, or a foot switch to or from this product, always turn off the power to the display unit, unplug the AC adapter, and then connect or disconnect the device.

If a receipt printer or a Digimatic device is connected or disconnected while the display unit power is on, the internal circuitry of the device or the display unit may be damaged.

No.	Name	Function
①	Touch screen (LCD: liquid crystal display)	<p>Displays measurement results, guidance for measurement, and the settings of this product.</p> <p>Various settings and input can be made by touching it.</p> <p>For details, see  "1 Overview" in "PART A Overview" in the separate User's Manual.</p> <p><b>Tips</b></p> <p>If the LCD off function is enabled, the LCD automatically turns off after a set length of time. When the LCD is off, pressing a sheet key or touching the touch screen turns it on again.</p> <p>For details about the LCD off function, see  "1.4.2 [Device Settings] Screen" in "PART C System Settings" in the separate User's Manual.</p>
②	Power (  ) key	<p>Turns the power on or off when pressed.</p> <p>When the power is on, the LED on the power key lights up.</p> <p>When the power is turned off, the internal settings are retained, but any data for an ongoing measurement is lost.</p> <p><b>Tips</b></p> <p>If the auto off function is enabled, a message that indicates that the power will automatically turn off is displayed after a set length of time. After this message is displayed, if no sheet key or touch screen operations are performed within 60 seconds, the power automatically turns off.</p> <p>For details about the auto off function, see  "1.4.2 [Device Settings] Screen" in "PART C System Settings" in the separate User's Manual.</p>
③	Sheet keys	<p>The measuring command keys are located here.</p> <p>Measurement and setting operations can be done by pressing the keys.</p> <p>For details, see  "1 Overview" in "PART A Overview" in the separate User's Manual.</p>
④	Battery cover	Remove when changing the internal battery pack.
⑤	[RS-232C] connector	Connect a receipt printer (optional accessory).
⑥	[DIGIMATIC IN] connector	Connect a Digimatic Indicator (optional accessory) or Mu-checker (optional accessory).

No.	Name	Function
⑦	[DIGIMATIC S1] connector	<p>Connect a Digimatic Mini-Processor (optional accessory), the wireless communication system for measurement data U-WAVE-T (optional accessory), etc.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p style="text-align: center; color: blue; font-weight: bold;">NOTICE</p> </div> <p> When inserting a cable into the [DIGIMATIC S1] connector, insert it so that the △ mark (①) on the cable connector is facing up. If the cable is inserted with the △ mark (①) facing down, the connected device and the display unit may be damaged. (The [DIGIMATIC S1] connector includes a ▽ mark (②), which you can use as a guide for aligning the connectors.)</p> 
⑧	[AC ADAPTOR] connector	<p>Connect the AC adaptor (standard accessory) in the following cases.</p> <ul style="list-style-type: none"> <li>• Recharging the internal battery pack</li> <li>• Operating the product with the power from the AC adapter</li> </ul>
⑨	[EXT.IN] connector	Connect a foot switch (optional accessory).
⑩	[USB-B] connector	<p>Connect to a PC to save measurement results, save or read settings, and create an inspection certificate. "LH Communication-Tool" must be downloaded from the Mitutoyo home page and installed on the PC.</p>
⑪	[USB-A] connector	Connect a USB memory device to save or read measurement results and to save or read part programs.
⑫	[MACHINE] connector	Connect the main unit connecting cable that connects the display unit and main unit.



# 2 Setup

---

This chapter explains the installation environment for this product.

2.1 Installation Environment .....	30
------------------------------------	----

## 2.1 Installation Environment

To achieve the best performance with this product and to measure safely, use this product within the usage conditions below.

### ■ Operating temperature and humidity

Operating temperature range	5 °C to 40 °C
Operating humidity range	20 %RH to 80 %RH (no condensation)

#### **IMPORTANT**

Avoid high humidity, direct sunlight, and exposure to cold or hot air currents from an air conditioner.

### ■ Altitude

Install this product in a place with an altitude of 1,000 m or less.

### ■ Vibrations

Install this product in a place with minimal vibration. Subjecting this product to vibrations during measurements may result in inconsistencies in the measured values, and it may take longer to complete measurements.

Also, using the product over a long period of time in a place subject to frequent vibrations may cause malfunctions in the precision parts used in the product and affect the measurement accuracy.

If necessary, take vibration reduction measures, such as strengthening the foundation to reduce vibrations or installing an anti-vibration stand.

For information about vibration reduction measures, please contact a Mitutoyo sales office.

### ■ Dust and oil mist

The scale equipped on this product is housed under a cover and is resistant to dust, oil mist, and scratches, but if it is exposed to unacceptable amounts of dust or oil mist or gets scratched excessively, it may not operate properly.

Similarly, if the surface of the slider bearing guide is exposed to dust or gets scratched, the measurement accuracy may be reduced.

Use this product in an environment with pollution degree 2.

### ■ Power supply

Check that the power outlet meets the specifications of the AC adapter and power cable, and then connect the power cable to the AC adapter and finally to the power outlet.

Do not use any AC adapter other than the one supplied.

Power distribution method	Single-phase with two lines, one ground line
Voltage	100 VAC–240 VAC $\pm$ 10 %
	Overvoltage category II
	Pollution degree 2
	Class I equipment
Frequency	50 Hz/60 Hz
Electric power consumption	Max. 49.9 W (not including any optional accessories)
Number of outlets	1

### ■ Grounding



Regarding the power supply and power supply construction, consult with a licensed electrician or person with equivalent knowledge.

### ■ Noise

Connect the AC adapter to a power supply that does not supply high electric current, such as those for machine tools or large CNC measuring instruments. Also, use this product far away from equipment that generates electromagnetic noise, such as a welding machine or electric discharge machine.

### ■ Surface plate for installation

#### CAUTION



Install the surface plate in a place where the levelness of the surface plate is within 20  $\mu$ m/m. If the surface plate is not level, measurement accuracy may be reduced. Furthermore, when the floating function is activated, this product might slide unintentionally on the surface plate and pinch the operator's fingers or hands between the product and the workpiece, etc., resulting in an injury.

#### IMPORTANT

To obtain highly accurate measurements, it is important that the surface plate, which serves as the reference for measurement, have a small flatness value as well as a small levelness value.

We recommend using a Mitutoyo surface plate (Class 00 accuracy).

**MEMO**

# 3 Specifications

---

This chapter explains the specifications of the main unit, display unit, standard accessories, and optional accessories.

3.1 Basic Specifications .....	34
3.2 Power Supply Specifications .....	37
3.3 Standard Accessories .....	37

## 3.1 Basic Specifications

Model		LH-600F	LH-600FG	LH-600F	LH-600FG
Code No.		518-360-11	518-361-11	518-360-13	518-361-13
Measuring range (stroke)		0 mm to 977 mm (600 mm)		0" to 38" (24")	
Resolution		0.0001 mm (0.1/0.01/0.001 mm can also be selected)		0.000001" (0.001/0.0001/0.00001" can also be selected)	
Accuracy (20 °C)	Indication accuracy* <sup>1</sup>	$\pm(1.1 + 0.6 L / 600) \mu\text{m}$ L = arbitrary measuring height (mm)			
	Repeatability* <sup>1</sup>	Flat surface: 0.4 $\mu\text{m}$ (2 $\sigma$ ), hole: 0.9 $\mu\text{m}$ (2 $\sigma$ )			
	Perpendicularity (forward and backward)* <sup>2</sup>	5 $\mu\text{m}$ (after compensation)			
	Straightness (forward and backward)* <sup>2</sup>	4 $\mu\text{m}$ (mechanical)			
Guiding method		Rolling bearing			
Driving method		Motor-driven (5, 10, 15, 20, 25, 30, 40 mm/s: 7 steps)/manual			
Scale unit		Photoelectric INC encoder STVC-20Z			
Thermal expansion coefficient of the length measuring system		$8.1 \times 10^{-6}/\text{K}$			
Measuring force		1 N (automatic constant-force function)			
Slider balancing method		Counterbalance			
Main unit moving method		Full-floating (for moving)/semi-floating (for scanning measurement) by air bearings			
Air source		Built-in compressor (diaphragm pump)			
Display unit		8.4-inch touch screen (liquid crystal display)			
Adjustment range of display unit orientation		Tilt direction: 0° to 40°, stepless adjustment Swivel direction: -30° to 180°, stepless adjustment			
Displayable languages		21 languages Japanese, English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Czech, Hungarian, Slovenian, Polish, Chinese (traditional), Korean, Chinese (simplified), Turkish, Russian, Romanian, Bulgarian, Finnish			
Number of registrable part programs		50			
Number of commands per program		100			
Number of measurement results per program		30,000			
Number of measurement results from all programs		100,000			
Preventative maintenance function		Scale status notification function Calibration schedule notification function			
Slider balance adjustment method		Manual adjustment by adding/removing auxiliary weights (0 to 2 weights) (simple addition and removal with magnets)			
Compensation method for probe diameter		Semi-automatic compensation using the probe diameter calibration block (standard accessory), or compensation with direct input of the probe diameter			
Power supply		AC adapter 100 VAC–240 VAC $\pm 10\%$ (50 Hz/60 Hz)/battery (Ni-MH)			
Airborne noise		A-weighted sound pressure level, 70 dB(A) or less			
Electric power consumption		Max. 49.9 W (not including any optional accessories)			
Battery operation duration* <sup>3</sup>		Battery powered (standard): 4 hours Powered by two batteries: 8 hours			

### 3 Specifications

Model	LH-600F	LH-600FG	LH-600F	LH-600FG
Code No.	518-360-11	518-361-11	518-360-13	518-361-13
Battery charging time*4	Approx. 3.5 hours (product can be used while charging the battery)			
Dimensions	238 (W) × 492 (D) × 996 (H) mm			
Mass	26.1 kg (LH-600F), 26.6 kg (LH-600FG)			
Operating temperature range	5 °C to 40 °C*4			
Operating humidity range	20 %RH to 80 %RH (no condensation)			
Storage temperature range	-10 °C to 50 °C			
Storage humidity range	5 %RH to 90 %RH (no condensation)			
CE marking/UKCA marking	EMC Directive / Electromagnetic Compatibility Regulations: EN 61326-1 Immunity test requirement: Clause 6.2 Table 2 Emission limit: Class A Machinery Directive / Supply of Machinery (Safety) Regulations: EN ISO 12100, EN 60204-1 RoHS Directive / Regulation on the restriction of hazardous substances in electric/electronic devices: EN IEC 63000			


\*1: These specifications are based on Mitutoyo internal testing in a 20 °C environment.

\*2: The specifications for perpendicularity and straightness are for when using a lever head probe (MLH-521) or Mu-checker (M-561).

\*3: Mitutoyo standard (floating, electrical up/down operation operating at 25 %)

\*4: If the ambient temperature is 30 °C or higher, the battery may not charge sufficiently.

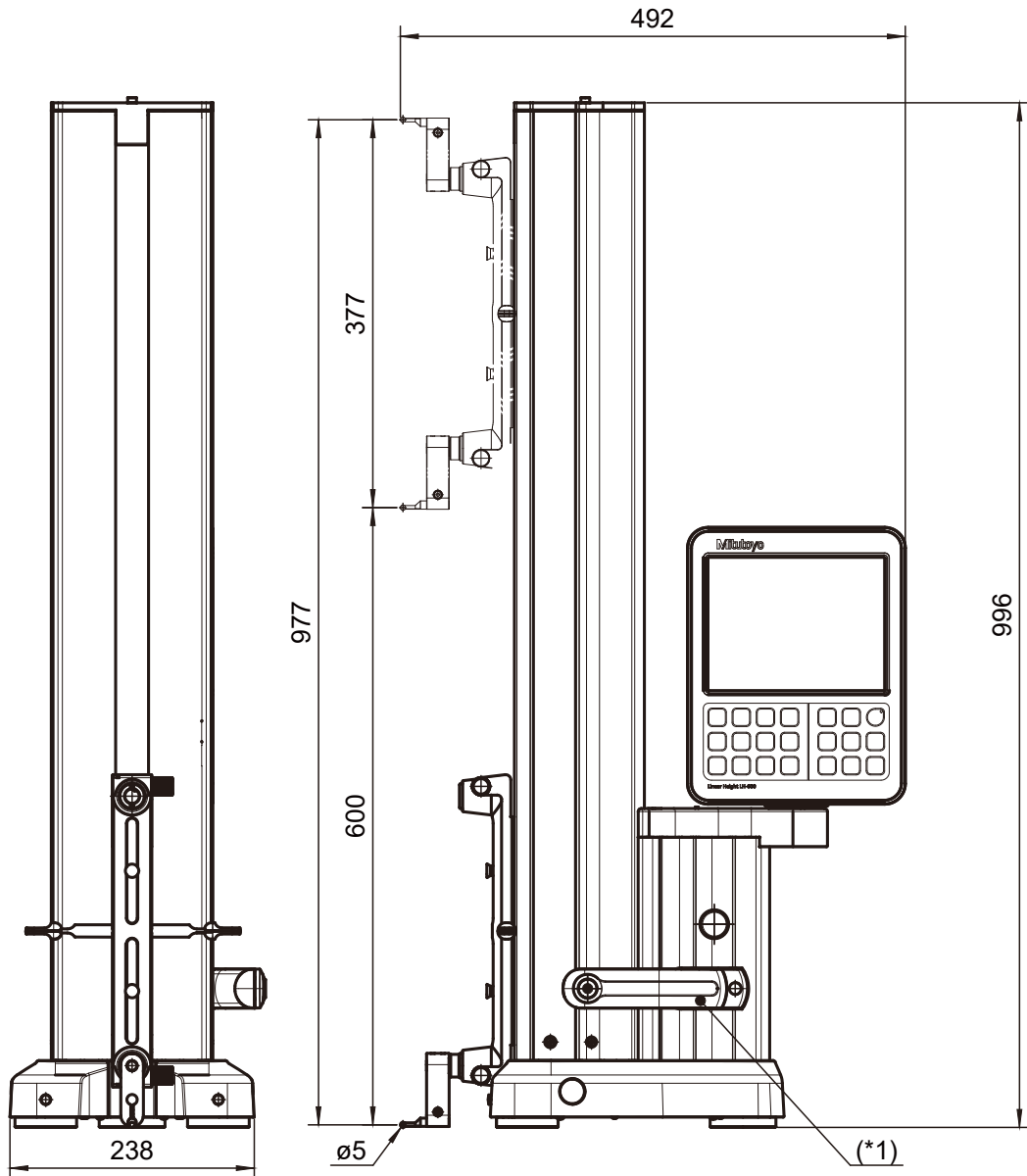
#### Tips

For details about control and functions, see  the separate User's Manual.

### 3.1.1 Dimension Drawings

LH-600F/FG

Units: mm



\*1: LH-600FG only



## 3.2 Power Supply Specifications

This product is supplied with an AC adapter (Part No. 357651).

The power cable is rated for the power source voltage in the country where this product is used.

## 3.3 Standard Accessories

Part No.	Part name	Remarks	Quantity
12AAY343	ø5 stepped probe	Composed of the following parts • Stepped holder (12AAY344) × 1 • ø5 ball stylus (05HAA394) × 1	1
518-060-11	Probe diameter calibration block (mm)	For Code No. 518-360-11 and 518-361-11	1
518-060-13	Probe diameter calibration block (mm/inch)	For Code No. 518-360-13 and 518-361-13	1
12BAS388	Dust cover	For the probe diameter calibration block	1
12AAY658	Base	For the probe diameter calibration block	1
12AAF712	Battery pack		1
223587	Clear cover		1
12BAS276	Cap		2
510434	Conveying handles		2
357651	AC adapter	No power cable supplied	1
11BAC147	Philips screwdriver		1
538616	Allen wrench	Nominal 3, black	1
12BAR507	Touch pen		1
12BAS384	Protective sheet	For the touch screen	1
12AAY475	Manual set • Setup Manual • Quick Start Guide • Instruction Manual	Printed manuals in 3 languages*1	1 set
12AAY476	Manual CD-ROM • Setup Manual • Quick Start Guide • Instruction Manual • User's Manual • Hardware Guide	Electronic manuals in 11 languages*2	1
12BAS375	Inspection certificate	Available in Japanese and English	1
472730	Warranty (large)		1

\*1 Japanese, English, Simplified Chinese

\*2 Japanese, English, Simplified Chinese, Korean, Spanish, German, French, Italian, Portuguese, Dutch, Swedish

---

# SERVICE NETWORK

\*As of May 2022

## 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  
TEL: 49 (0)2137 102-0 FAX: 49 (0)2137 86 85

### M³ Solution Center Hamburg

Tempowerkring 9-im HIT-Technologiepark 21079  
Hamburg, GERMANY  
TEL: 49 (0)40 791894-0 FAX: 49 (0)40 791894-50

### M³ Solution Center Berlin

Ernst-Lau-Straße 6, 12489 Berlin, GERMANY  
TEL:49(0)30 2611 267 FAX: 49 30 67988729

### M³ Solution Center Eisenach

Neue Wiese 4, 99817 Eisenach,GERMANY  
TEL: 49 (0)3691 88909-0 FAX: 49 (0)3691 88909-9

### M³ Solution Center Ingolstadt

Marie-Curie-Strasse 1A, 85055 Ingolstadt, GERMANY  
TEL: 49 (0)841 954920 FAX: 49 (0)841 9549250

### M³ Solution Center Leonberg

Am Längenbühl 3, 71229 Leonberg, GERMANY  
TEL: 49 (0)7152 6080-0 FAX: 49 (0)7152 608060

### Mitutoyo-Messgeräte Leonberg GmbH

Heidenheimer Strasse 14, 71229 Leonberg, GERMANY  
TEL: 49 (0)7152 9237-0 FAX: 49 (0)7152 9237-29

## U.K.

### Mitutoyo (UK) Ltd. HQ

Joule Road, West Point Business Park,  
Andover, Hampshire SP10 3UX, UNITED KINGDOM  
TEL: 44 (0)1264 353123 FAX: 44 (0)1264 354883

### Coventry M³ Solution Centre

Unit6, Banner Park, Wickmans Drive, Coventry,  
West Midlands CV4 9XA, UNITED KINGDOM  
TEL: 44 (0)2476 426300

### Halifax M³ Solution Centre

Lowfields Business Park, Navigation Close, Elland,  
West Yorkshire HX5 9HB, UNITED KINGDOM  
TEL: 44 (0)1422 375566

### East Kilbride M³ Solution Centre

The Bairds Building, Rankine Avenue, Scottish  
Enterprise Technology Park, East Kilbride G75  
0QF, UNITED KINGDOM  
TEL: 44 (0)1355 581170

## France

### Mitutoyo France

Paris Nord 2-123 rue de la Belle Etoile, BP 59267  
ROISSY EN FRANCE 95957 ROISSY CDG  
CEDEX, FRANCE  
TEL: 33 (0)149 38 35 00

### M³ Solution Center LYON

Parc Mail 523, cours du 3ème millénaire, 69791  
Saint-Priest, FRANCE  
TEL: 33 (0)149 38 35 70

### M³ Solution Center STRASBOURG

Parc de la porte Sud, Rue du pont du péage,  
67118 Geispolsheim, FRANCE  
TEL: 33 (0)149 38 35 80

### M³ Solution Center CLUSES

Espace Scionzier 480 Avenue des Lacs, 74950  
Scionzier, FRANCE  
TEL: 33 (0)1 49 38 35 90

### M³ Solution Center TOULOUSE

Aeroparc Saint Martin Cellule B08 ZAC de Saint  
Martin du Touch 12 rue de Caulet 31300  
Toulouse, FRANCE  
TEL: 33 (0)1 49 38 42 90

### M³ Solution Center RENNES

2, rue Claude Chappe, PA le Vallon - ZAC  
Mivoie, 35230 Noyal-Châtillon-sur-Seiche,  
FRANCE  
TEL: 33 (0)1 49 38 42 10

---

## Italy

### Mitutoyo Italiana S.r.l.

Corso Europa, 7 - 20045 Lainate (MI), ITALY  
TEL: 39 02 935781 FAX: 39 02 93578255

### M<sup>3</sup> Solution Center BOLOGNA

Via dei Carpini1/A - 40011 Anzola Emilia (BO), ITALY  
TEL: 39 02 93578215 FAX: 39 02 93578255

### M<sup>3</sup> Solution Center CHIETI

Contrada Santa Calcagna - 66020 Rocca S. Giovanni (CH), ITALY  
TEL: 39 02 93578280 FAX: 39 02 93578255

### M<sup>3</sup> Solution Center PADOVA

Via G. Galilei 21/F - 35035 Mestrino (PD), ITALY  
TEL: 39 02 93578268 FAX: 39 02 93578255

## Netherlands

### Mitutoyo Nederland B.V.

Koningsschot 41, 3905 PR Veendam,  
THE NETHERLANDS  
TEL: 31(0)318-534911

### Mitutoyo Nederland B.V. / M<sup>3</sup> Solution Center Enschede

Institutenweg 50, 7521 PK Enschede,  
THE NETHERLANDS  
TEL: 31(0)318-534911

### Mitutoyo Nederland B.V. / M<sup>3</sup> Solution Center Eindhoven

De Run 1115, 5503 LB Veldhoven,  
THE NETHERLANDS  
TEL: 31(0)318-534911

### Mitutoyo Research Center Europe B.V.

De Rijn 18, 5684 PJ Best, THE NETHERLANDS  
TEL:31(0)499-320200 FAX:31(0)499-320299

## Belgium

### Mitutoyo Belgium N.V. / M<sup>3</sup> Solution Center Melsele

Schaarbeekstraat 20, B-9120 Melsele, BELGIUM  
TEL: 32 (0)3-2540444

## Sweden

### Mitutoyo Scandinavia AB

Släntvägen 6, 194 27 Upplands Väsby, SWEDEN  
TEL: 46 (0)8 594 109 50 FAX: 46 (0)8 590 924 10

### Mitutoyo Scandinavia AB / M<sup>3</sup> Solution Center Alingsås

Ängsvaktaregatan 3A, 441 38 Alingsås, SWEDEN  
TEL: 46 (0)8 594 109 50 FAX:46 (0)322 63 31 62

### Mitutoyo Scandinavia AB / M<sup>3</sup> Solution Center Värnamo

Kalkstensvägen 7, 331 44 Värnamo, SWEDEN  
TEL: 46 (0)8 594 109 50 FAX: 46 (0)370 463 34

## Switzerland

### Mitutoyo (Schweiz) AG

Steinackerstrasse 35, 8902 Urdorf, SWITZERLAND  
TEL: 41 (0)447361150

### Mitutoyo (Suisse) SA

Rue Galilée 4, 1400 Yverdon-les Bains, SWITZERLAND  
TEL: 41 (0)244259422 FAX: 41 (0)447361151

## Poland

### Mitutoyo Polska Sp.z o.o.

Ul.Graniczna 8A, 54-610 Wroclaw, POLAND  
TEL: 48 (0)71354 83 50 FAX: 48 (0)71354 83 55

## Czech Republic

### Mitutoyo Česko s.r.o.

Dubská 1626, 415 01 Teplice, CZECH REPUBLIC  
TEL: 420 417-514-011 Email: info@mitutoyo.cz

### Mitutoyo Česko s.r.o. M<sup>3</sup> Solution Center Ivančice

Ke Karlovu 62/10, 664 91 Ivančice, CZECH REPUBLIC  
TEL: 420 417-514-011 Email: info@mitutoyo.cz

### Mitutoyo Česko s.r.o. M<sup>3</sup> Solution Center Ostrava Mošnov

Mošnov 314, 742 51 Mošnov, CZECH REPUBLIC  
TEL: 420 417-514-050 Email: info@mitutoyo.cz

### Mitutoyo Česko s.r.o. Slovakia Branch

Hviezdoslavova 124, 017 01 Povážská Bystrica, SLOVAKIA  
TEL: 421 948-595-590 Email: info@mitutoyo.sk

## Hungary

### Mitutoyo Hungária Kft.

Galamb József utca 9, 2000 Szentendre, HUNGARY  
TEL: 36 (30) 6410210

## Romania

### Mitutoyo Romania SRL

1A Drumul Garii Odai Street, showroom, Ground Floor, 075100 OTOPENI-ILFOV, ROMANIA  
TEL: 40 (0)311012088 FAX: +40 (0)311012089

### Showroom in Brasov

Strada Ionescu Crum Nr.1, Brasov Business Park Turnul 1, Mezanin, 500446 Brasov-Judetul Brasov, ROMANIA  
TEL/FAX: 40 (0)371020017

---

## Russian Federation

### Mitutoyo RUS LLC

Sharikopodshipnikovskaya St., 13, bld.5, Moscow, 115088, RUSSIAN FEDERATION  
TEL: 7 495 545 43 90

## Finland

### Mitutoyo Scandinavia AB Finnish Branch

Viherkiiitäjä 2A, 33960, Pirkkala, FINLAND  
TEL: 358 (0)40 355 8498

## Austria

### Mitutoyo Austria GmbH

Salzburger Straße 260 / 3 A-4600 Wels, AUSTRIA  
TEL: 43 (0)7242 219 998

### Mitutoyo Austria GmbH Goetzis Regional showroom

Lastenstrasse 48a, 6840 Götzis, AUSTRIA

## Singapore

### Mitutoyo Asia Pacific Pte. Ltd.

#### Head office / M<sup>3</sup> Solution Center

24 Kallang Avenue, Mitutoyo Building,  
SINGAPORE 339415  
TEL:(65)62942211 FAX:(65)62996666

## Malaysia

### Mitutoyo (Malaysia) Sdn. Bhd.

#### Kuala Lumpur Head Office / M<sup>3</sup> Solution Center

Mah Sing Integrated Industrial Park, 4, Jalan Utarid U5/14,  
Section U5, 40150 Shah Alam, Selangor, MALAYSIA  
TEL:(60)3-78459318 FAX:(60)3-78459346

#### Penang Branch office / M<sup>3</sup> Solution Center

30, Persiaran Mahsuri 1/2, Sunway Tunas, 11900  
Bayan Lepas, Penang, MALAYSIA  
TEL:(60)4-6411998 FAX:(60)4-6412998

#### Johor Branch office / M<sup>3</sup> Solution Center

70 (Ground Floor), Jalan Molek 1/28, Taman  
Molek, 81100 Johor Bahru, Johor, MALAYSIA  
TEL:(60)7-3521626 FAX:(60)7-3521628

## Thailand

### Mitutoyo (Thailand) Co., Ltd.

#### Bangkok Head Office / M<sup>3</sup> Solution Center

76/3-5, Chaengwattana Road, Kwaeng Anusaowaree,  
Khet Bangkaen, Bangkok 10220, THAILAND  
TEL:(66)2080 3500 FAX:(66)2521 6136

#### Chonburi Branch / M<sup>3</sup> Solution Center

7/1, Moo 3, Tambon Bowin, Amphur Sriracha,  
Chonburi 20230, THAILAND  
TEL:(66)2080 3563 FAX:(66)3834 5788

## ACC Branch / M<sup>3</sup> Solution Center

122/8, 122/9, Moo 6, Tambon Donhuaroh, Amphur  
Muangchonburi, Chonburi 20000, THAILAND  
TEL:(66)2080 3565

## Indonesia

### PT. Mitutoyo Indonesia

#### Head Office / M<sup>3</sup> Solution Center

Jalan Sriwijaya No.26 Desa cibatu Kec. Cikarang  
Selatan Kab. Bekasi 17530, INDONESIA  
TEL: (62)21-2962 8600 FAX: (62)21-2962 8604

## Vietnam

### Mitutoyo Vietnam Co., Ltd

#### Hanoi Head Office / M<sup>3</sup> Solution Center

1st & 2nd floor, MHDl Building, No. 60 Hoang Quoc  
Viet Road, Nghia Do Ward, Cau Giay District, Hanoi,  
VIETNAM  
TEL:(84)24-3768-8963 FAX:(84)24-3768-8960

#### Ho Chi Minh City Branch Office / M<sup>3</sup> Solution Center

123 Dien Bien Phu Street, Ward 15, Binh Thanh  
District, Ho Chi Minh City, VIETNAM  
TEL:(84)28-3840-3489 FAX:(84)28-3840-3498

#### Hai Phong City Branch Office

Room 511, 5th Floor, Thanh Dat 3 Building, No. 4  
Le Thanh Tong Street, May To Ward, Ngo Quyen  
District, Hai Phong City, VIETNAM  
TEL:(84)22-5398-9909

## Philippines

### Mitutoyo Philippines, Inc.

#### Head Office / M<sup>3</sup> Solution Center

Unit 1B & 2B LTI, Administration Building 1, Annex 1, North  
Main Avenue, Laguna Technopark, Binan Laguna 4024,  
PHILIPPINES  
TEL/FAX:(63) 49 544 0272

## India

### Mitutoyo South Asia Pvt. Ltd. Head Office

C-122, Okhla Industrial Area, Phase-I,  
New Delhi-110 020, INDIA  
TEL: (91) 11-40578485/86

### MSA Technical Center

Plot no. 65, Ground Floor, Udyog Vihar, Phase-4 Gurgaon,  
Haryana - 122016, INDIA  
TEL : (91) 124-2340286/287

### Mumbai Region Head office

303, Sentinel Hiranandani Business Park Powai,  
Mumbai-400 076, INDIA  
TEL: (91) 22-25700684/685/837/839

---

**Pune Office / M<sup>3</sup> Solution Center**

G4/G5, Pride Kumar Senate, Off. Senapati Bapat Road, Pune-411 016, INDIA  
TEL:(91) 20-25660043/44/45

**Ahmedabad Office / M<sup>3</sup> Solution Center**

A-104 & A-105, First Floor, Solitaire Corporate Park, Near Divya Bhaskar Press, S.G. Road, Ahmedabad - 380 015, INDIA  
TEL: (91) 079 - 29704902/903

**Bengaluru Region Head office / M<sup>3</sup> Solution Center**

116/117-2, Ground Floor, Sy. No. 93 & 94, 3rd Phase, Peenya Industrial Area, Bengaluru-560 058, INDIA  
TEL: (91) 80-25630946/47/48/49

**Coimbatore Office**

Regus, Srivari Srimath, 3rd Floor, Door No:1045, Avinashi Road, Coimbatore - 641 018,INDIA  
TEL: (91) 9345005663

**Chennai Office / M<sup>3</sup> Solution Center**

No. 624, Anna Salai Teynampet, Chennai-600 018, INDIA  
TEL: (91) 44-24328823/24/25

**Kolkata Office**

Unit No. 1208,Om Tower, 32,J.L..Nehru Road, Kolkata-700 071, INDIA  
TEL: (91) 33-22267088/40060635/22266817

**Taiwan**

**Mitutoyo Taiwan Co., Ltd. / M<sup>3</sup> Solution Center Taipei**  
4F., No.71, Zhouzi St., Neihu Dist.,Taipei City 114, TAIWAN

TEL:886(2)5573-5900 FAX:886(2)8752-3267

**Taichung Branch / M<sup>3</sup> Solution Center Taichung**

1F., No. 299, Gaotie 1st Rd., Wuri Dist., Taichung City 414, TAIWAN

TEL:886(4)2338-6822 FAX:886(4)2338-6722

**Kaohsiung Branch / M<sup>3</sup> Solution Center Kaohsiung**

1F., No.31-1, Haibian Rd., Lingya Dist., Kaohsiung City 802, TAIWAN

TEL:886(7)334-6168 FAX:886(7)334-6160

**South Korea**

**Mitutoyo Korea Corporation**

**Head Office / M<sup>3</sup> Solution Center**

(Sanbon-Dong, Geumjeong High View Build.), 6F, 153-8, Ls-Ro, Gunpo-Si, Gyeonggi-Do, 15808 KOREA  
TEL:82(31)361-4200 FAX:82(31)361-4201

**Busan Office / M<sup>3</sup> Solution Center**

(3150-3, Daejeo 2-dong) 8,Yutongdanji 1-ro 49beon-gil, Gangseo-gu, Busan, 46721 KOREA  
TEL:82(51)324-0103 FAX:82(51)324-0104

**Daegu Office / M<sup>3</sup> Solution Center**

(Galsan-dong, Daegu Business Center), 301-Ho, 217, Seongseogongdan-ro, Dalseo-gu, Daegu 42704 KOREA  
TEL:82(53)593-5602 FAX:82(53)593-5603

**China**

**Mitutoyo Measuring Instruments (Shanghai) Co., Ltd.**

8th Floor, Tower 1 Lujiazui Jinkong Square No.1788/1800 Century Ave., Pudong New District, Shanghai 200122, CHINA

TEL:86(21)5836-0718 FAX:86(21)5836-0717

**Suzhou Office / M<sup>3</sup> Solution Center (Suzhou)**

No. 46 Baiyu Road, Suzhou 215021, CHINA

TEL:86(512)6522-1790 FAX:86(512)6251-3420

**Wuhan Office / M<sup>3</sup> Solution Corner**

Room 1701, Wuhan Wanda Center, No. 96, Linjiang Road, Wuchang District, Wuhan Hubei 430060, CHINA

TEL:86(27)8544-8631 FAX:86(27)8544-6227

**Chengdu Office**

1-701, New Angle Plaza, 668# Jindong Road, Jinjiang District, Chengdu, Sichuan 610066,CHINA

TEL:86(28)8671-8936 FAX:86(28)8671-9086

**Hangzhou Office**

Room 804, Eastern International Business Center Building 1, No.600 Jinsha Road of

Hangzhou Economic and Technological Development Zone, 310018, CHINA

TEL: 86(571)8288-0319 FAX: 86(571)8288-0320

**Tianjin Office / M<sup>3</sup> Solution Center China (Tianjin)**

Room D 12/F, TEDA Building, No.256 Jie-fang Nan Road Hexi District,Tianjin 300042, CHINA

TEL:86(22)5888-1700 FAX:86(22)5888-1701

**Changchun Office**

Room 815, 8F, Building A1, Upper East International No.3000 Dongsheng Street, Erdao District, Changchun, Jilin, 130031, CHINA

TEL:86(431)8192-6998 FAX:86(431)8192-6998

**Chongqing Office**

Room 1312, Building 3, Zhongyu Plaza, No.86, Hongjin Avenue,Longxi Street, Yubei District, Chongqing, 400000, CHINA

TEL:86(23)6595-9950 FAX:86(23)6595-9950

---

**Qingdao Office**

Room 638, 6F, No.192 Zhengyang Road, Chengyang District, Qingdao, Shandong, 266109, CHINA  
TEL:86(532)8096-1936 FAX:86(532)8096-1937

**Xi'an Office**

Room 805, Xi'an International Trade Center, No. 196 Xiaozhai East Road, Xi'an, 710061, CHINA  
TEL:86(29)8538-1380 FAX:86(29)8538-1381

**Dalian Office / M<sup>3</sup> Solution Center China (Dalian)**

Room A-106 Shuijing SOHO, No.16 Harbin Road, Economic Development Zone, Dalian, 116600 CHINA  
TEL:86(411)8718 1212 FAX:86(411)8754-7587

**Zhengzhou Office**

Room1801,18/F,Unit1,Building No.23, Shangwu Inner Ring Road, Zhengdong New District,Zhengzhou City, Henan 450018, CHINA  
TEL:86(371)6097-6436 FAX:86(371)6097-6981

**Dongguan Office / M<sup>3</sup> Solution Center China (Dongguan)**

Room 801, No 65, Chang'an Section Guanchang Road, Chang'an Town, Dongguan City, Guangdong 523841, CHINA  
TEL:86(769)8541 7715 FAX:86(769)-8541 7745

**Fuzhou Office**

Room 2104, City Commercial Centre, No.129 Wu Yi Road N., Fuzhou City, Fujian 350005, CHINA  
TEL: 86 (591) 8761 8095  
FAX: 86 (591) 8761 8096

**Changsha Office**

Room 2207, Building 1, Shiner International Plaza, No. 88, Kaiyuan Middle Road, Changsha City, Hunan 410100, CHINA  
TEL: 86 (731) 8401 9276  
FAX: 86 (731) 8401 9376

**Changzhou Office**

Room 1502, Joint Financial Tower, No.255, Tongjiang North Road, Tianning District, Changzhou City, Jiangsu 2130002, CHINA  
TEL:86(519)8815 8319 FAX:86(519)8815 8319

**Wenzhou Office**

Room 512, Building 4, Xinjingdujiayuan, Sanyang Street, Ouhai District, Wenzhou City, Zhejiang 325014, CHINA

**Mitutoyo Measuring Instruments (Suzhou) Co., Ltd.**

No. 46 Baiyu Road, Suzhou 215021, CHINA  
TEL:86(512)6252-2660 FAX:86(512)6252-2580

**U.S.A.****Mitutoyo America Corporation**

965 Corporate Blvd., Aurora, IL 60502, U.S.A.  
TEL:1-(630)820-9666 Toll Free No. 1-888-648-8869  
FAX:1-(630)978-3501

**Headquarters (Aurora) / M<sup>3</sup> Solution Center**

965 Corporate Blvd., Aurora, IL 60502, U.S.A.

**Seattle (Renton) Office / M<sup>3</sup> Solution Center**

1000 SW 34th St. Suite G, Renton, WA 98057 U.S.A.  
TEL:1-(888)-648-8869

**Houston Office / M<sup>3</sup> Solution Center**

4560 Kendrick Plaza Drive Suite 120 Houston, TX 77032, U.S.A.  
TEL:1-(888)-648-8869 FAX:1-(281)227-0937

**Cincinnati (Mason) Office / M<sup>3</sup> Solution Center**

6220 Hi-Tek Ct., Mason, OH 45040, U.S.A.  
TEL:1-(888)-648-8869 FAX:1-(513)754-0718

**Detroit (Novi) Office / M<sup>3</sup> Solution Center**

46850 Magellan Drive, Suite 100 Novi, MI 48377, U.S.A.  
TEL:1-(888)-648-8869 FAX: 1-(248)-926-0928

**Los Angeles (City of Industry) Office / M<sup>3</sup> Solution Center**

16925 E. Gale Ave., City of Industry, CA 91745, U.S.A.  
TEL:1-(888)-648-8869 FAX:1-(626)369-3352

**Charlotte (Huntersville) Office / M<sup>3</sup> Solution Center**

11515 Vanstory Dr., Suite 140, Huntersville, NC 28078, U.S.A.  
TEL:1-(888)-648-8869 FAX:1-(704)875-9273

**Boston (Marlborough) Office / M<sup>3</sup> Solution Center**

753 Forest Street, Suite 110, Marlborough, MA 01752, U.S.A.  
TEL:1-(888)648-8869 FAX:1-(508)485-0782

**Mitutoyo America Corporation Calibration Lab**

965 Corporate Blvd., Aurora, IL 60502, U.S.A.  
TEL:1-(888)-648-8869 FAX:1-(630)978-6477

**Mitutoyo America Corporation CT-Lab Chicago**

965 Corporate Blvd., Aurora, IL 60502, U.S.A.  
TEL: 1-(888)-648-8869 FAX: 1-(630)-820-3418

**Mitutoyo Research & Development America, Inc.**

11533 NE 118th St., Kirkland, WA 98034-7111, U.S.A.  
TEL:1-(425)821-3906 FAX:1-(425)821-3228

---

**Mitutoyo Research & Development America, Inc. - California Office**

16925 Gale Ave. City of Industry,  
CA 91745-1806 U.S.A.  
TEL: 1-(425)821-3906 FAX: 1-(425)821-3228

**Canada**

**Mitutoyo Canada Inc.**

2121 Meadowvale Blvd., Mississauga,  
Ont. L5N 5N1., CANADA  
TEL:1-(905)821-1261 FAX:1-(905)821-4968

**Montreal Office**

7075 Place Robert-Joncas Suite 129, Montreal,  
Quebec H4M 2Z2, CANADA  
TEL:1-(514)337-5994 FAX:1-(514)337-4498

**Brazil**

**Mitutoyo Sul Americana Ltda.**

**Head office / M<sup>3</sup> Solution Center**

Rodovia Índio Tibiriçá 1555, CEP 08655-000 -  
Vila Sol Nascente - Suzano - SP - BRASIL  
TEL: 55 (11) 5643-0004/0041

**Filial Campinas / M<sup>3</sup> Solution Center**

Avenida Francisco Alfredo Junior, nº 307, Sala  
01 e 02, Bairro Swiss Park – Campinas – São  
Paulo – BRASIL CEP 13049255  
TEL: 55 (19) 3397-3412

**Filial Curitiba / M<sup>3</sup> Solution Center**

Rua Sergipe, nº 101, Sala A, Bairro Boneca do  
Iguaçu, São José dos Pinhais – Paraná – BRA-  
SIL CEP 83040120  
TEL: 55 (41) 3534-1728

**Argentina**

**Mitutoyo Sul Americana Ltda.**

**Argentina Branch / M<sup>3</sup> Solution Center**

Av. B. Mitre 891/899 – C.P. (B1603CQI)  
Vicente López –Pcia. Buenos Aires – ARGENTINA  
TEL:54 (11) 4730-1433 FAX:54 (11) 4730-1411

**Sucursal Cordoba / M<sup>3</sup> Solution Center**

Av. Ricchieri 2872 L.4 – Bº Jardin – CP X50140-  
PJ Cordoba, ARGENTINA  
TEL:54 (351) 464-4125

**Mexico**

**Mitutoyo Mexicana, S.A. de C.V.**

Industria Eléctrica No.15, Parque Industrial, Nau-  
calpan de Juárez, Estado de México C.P.53370,  
MÉXICO  
TEL: 52 (01-55) 5312-5612  
FAX: 52 (01-55) 5312-3380

**Monterrey Office / M<sup>3</sup> Solution Center**

Blv. Interamericana No. 103, Parque Industrial  
FINSA, C.P. 66636 Apodaca, N.L., MÉXICO  
TEL: 52(01-81) 8398-8227/8228/8242/8244  
FAX: 52(01-81) 8398-8226

**Tijuana Office / M<sup>3</sup> Solution Center**

Calle José María Velazco 10501-C, Col. Cd. Industrial  
Nueva Tijuana, C.P. 22500 Tijuana, B.C., MÉXICO  
TEL: 52 (01-664) 647-5024

**Querétaro Office / M<sup>3</sup> Solution Center**

Av. Cerro Blanco No.500-1, Colonia Centro Sur,  
Querétaro, Querétaro, C.P. 76090, MÉXICO  
TEL: 52 (01-442) 340-8018, 340-8019 and 340-8020  
FAX: 52 (01-442) 340-8017

**Mitutoyo Mexicana, S.A. de C.V. Querétaro  
Calibration Laboratory**

Av. Cerro Blanco 500 30 Centro Sur,  
Querétaro, Querétaro, C.P. 76090, MÉXICO  
TEL: 52 (01-442) 340-8018, 340-8019 and 340-8020  
FAX: 52 (01-442) 340-8017

**Aguascalientes Office / M<sup>3</sup> Solution Center**

Av. Aguascalientes No. 622, Local 15 Centro Comer-  
cial El Cilindro Fracc. Pulgas Pandas Norte, C.P.  
20138, Aguascalientes, Ags. MÉXICO  
TEL: 52 (01-449) 174-4140 and 174-4143

**Irapuato Office / M<sup>3</sup> Solution Center**

Boulevard a Villas de Irapuato No. 1460 L.1 Col. Ejido  
Irapuato C.P. 36643  
Irapuato, Gto., MÉXICO  
TEL: 52 (01-462) 144-1200 and 144-1400

---

## Revision Record

Date of publication	Revision status	Details of revision
November 1, 2022	First edition	Publication



---

# EU Declaration of Conformity

# Mitutoyo Corporation

---

20-1, Sakado 1-Chome, Takatsu-ku, Kawasaki-shi, Kanagawa 213-8533, Japan

Tel: +81 (0)44 813-8230 Fax: +81 (0)44 813-8231

Home page: <https://www.mitutoyo.co.jp/global.html>

For the EU Directive, Authorized representative and importer in the EU:

Mitutoyo Europe GmbH

Borsigstrasse 8-10, 41469 Neuss, Germany

For the UK Regulation, Authorized representative and importer in the UK:

Mitutoyo (UK) Ltd.

Joule Road, West Point Business Park, Andover, Hampshire SP10 3UX, UNITED KINGDOM