

Surface Plates

Stationary Surface (Granite)

Instruction Manual

To ensure correct use, please read this instruction manual carefully before use. After reading, keep it in a safe place where the user can always refer to it.



OBISHI KEIKI SEISAKUSHO Co., Ltd.

Safety Precautions

- ※Before use, please read this instruction manual carefully and use the product correctly.
- ※The precautions shown here are intended to ensure the safe and proper use of the product and to prevent any potential hazards to the user.
- ※The precautions are categorized into three levels — **Danger, Warning, and Caution** — to clearly indicate the severity and urgency of potential harm or damage that may occur if the product is mishandled.

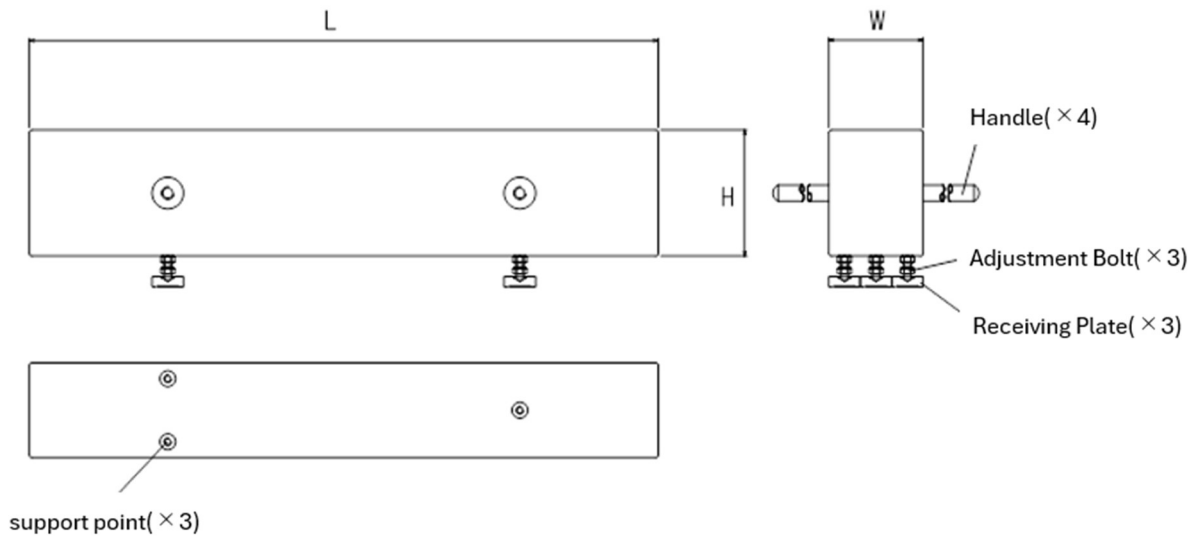
For Safe and Proper Use		
This instruction manual includes various symbols and pictograms throughout the text to ensure correct use of the product and to prevent harm or damage to the user. The symbols and their meanings are as follows. ● Please read the text after fully understanding the symbols and their meanings. ● After reading, be sure to keep this manual in a place where anyone using the product can easily refer to it at any time. ● All of these are safety-related instructions, so please be sure to follow them.		
	Danger	This indicates situations where incorrect handling could result in imminent risk of death or serious injury.
	Warning	This indicates situations where incorrect handling could potentially result in death or serious injury.
	Caution	This indicates situations where incorrect handling may result in injury to persons or only property damage.
Examples of symbols		The △ symbol indicates the presence of danger, warning, or caution messages, with specific precautions described within the figure. (The left figure is used to indicate general danger, warning, or caution without specifying details.)
		The ○ symbol indicates prohibited actions, with specific precautions described within or below the figure. (The figure on the left is used for general prohibition notices without specifying particular actions.)
		The ● symbol indicates mandatory actions, with specific instructions detailed within the figure. (The figure on the left is used for general mandatory actions or instructions without specifying details.)

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1. Product Features

- This product takes advantage of its features such as being rust-free, having minimal aging deformation, and excellent wear resistance.
- It can be used for inspection of long workpieces.
- The precision surface is on one side with a Lapped Finish.

2. Appearance Diagram



3. Specifications

Code No.	Size ($L \times W \times H$ mm)	Flatness (μm)	Mass (Kg)
BH101	$1000 \times 150 \times 200$	5	90
BH102	$1500 \times 200 \times 250$	7	225
BH103	$2000 \times 200 \times 300$	10	350

4. Installation

【Installation Location】

- A place with minimal temperature change and humidity.
 - A place with little dust and vibration.
 - A place with a solid foundation that will not deform or twist under the weight of the surface plate.
- ◎ When using as a high-precision inspection surface plate, either construct a concrete installation base isolated from other structures and place the surface plate on it, or place the surface plate on a rigid and stable stand installed on an isolated concrete floor.

【Installation Method】

- Install the surface plate level on a stable stand.
- Accuracy is maintained when the plate is supported at three points and kept level.
- As shown in the figure below, install the surface plate using three-point support (two points on the left and one point on the right), and adjust the level with the adjustment bolts.

Level Adjustment Procedure Using Adjustment Bolts

- ① Loosen all lock nuts.
- ② As shown in Figure a, place the level at the center of the left supporting points and turn the adjustment bolts to level the plate.
- ③ As shown in Figure b, place the level at the center of the instrument and turn the adjustment bolts to level the plate.
- ④ Repeat steps 2 and 3 until the plate is level.
- ⑤ While holding the adjustment bolts to prevent them from turning, tighten the lock nuts.
- ⑥ Check again to ensure that the plate remains level. Note that tightening the lock nuts may cause a slight shift in the level.

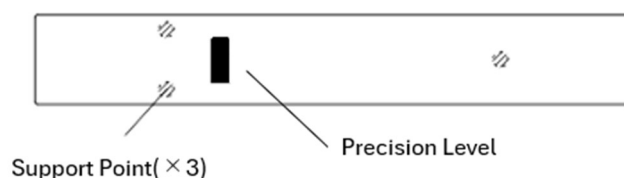


Figure a

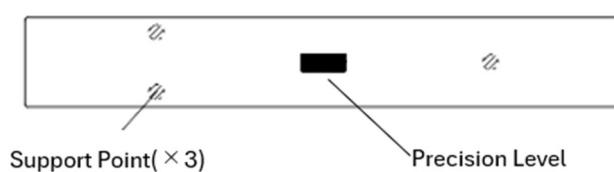
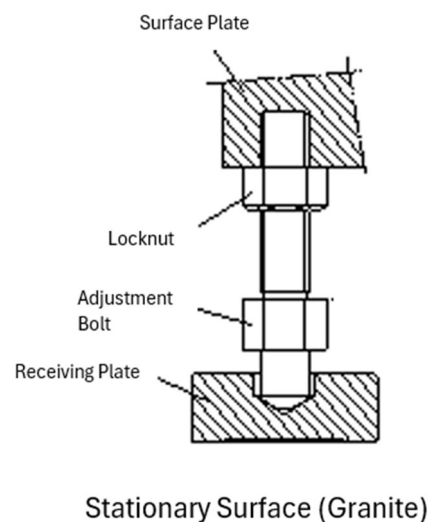


Figure b



5. Precautions for Use

- ① Clean the Precision Surface and the measurement surface of the workpiece before use.
- ② Handle the instrument carefully during use and storage to avoid impact or shock.
- ③ Allow the instrument to acclimate to the ambient temperature before use.
- ④ Do not use or store the instrument in places with drastic temperature changes.
- ⑤ Install this instrument on a solid foundation in a stable location free from twisting or tilting.
- ⑥ Do not place this instrument in locations subject to vibration or other similar conditions.
- ⑦ Do not apply excessive load or impact to the surface plate.
- ⑧ Avoid using only a specific area of the surface plate. Use the entire surface evenly.
- ⑨ If there are scratches or damage, have the instrument repaired and inspected.
- ⑩ Check the instrument for abnormalities before use in the following cases:
 - When the instrument has been dropped.
 - When an object has been dropped onto the instrument.
- ⑪ Check the accuracy regularly before using the product.
- ⑫ Do not leave workpieces or other items on the surface plate.
- △ ⑬ If the product has sharp edges, handle it carefully to avoid injuring your fingers or other parts of your body.
- ⑭ For heavy products, handle placement and other operations with two or more people, and take care to avoid injury.
- ⑮ Use cloth or nylon sleeves for lifting. Do not use hard materials such as metal chains or wires, as they may cause scratches or cracks on the product and pose a risk of injury to the operator.
- ⑯ Wear protective gloves and safety glasses as necessary to prevent injury while working.
- △ ⑰ Do not use this product if it is damaged or deteriorated, as it may cause injury or accidents.
- △ ⑱ If an injury occurs, give first aid immediately and seek medical attention if necessary.

Contact Information



JIS Certified Factory

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Head Office and Factory

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Design, development, manufacturing, and calibration services for precision measuring instruments (levels, surface plates, straight edges, reference measuring instruments, square rulers, blocks, dial gauge stands, comparators, angle measuring instruments, bench centers, squareness measuring instruments).