

Surface Plates

Surface Plates for Lapping (BS Type)

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.)

Surface Plates for Lapping (BS Type) Instruction Manual

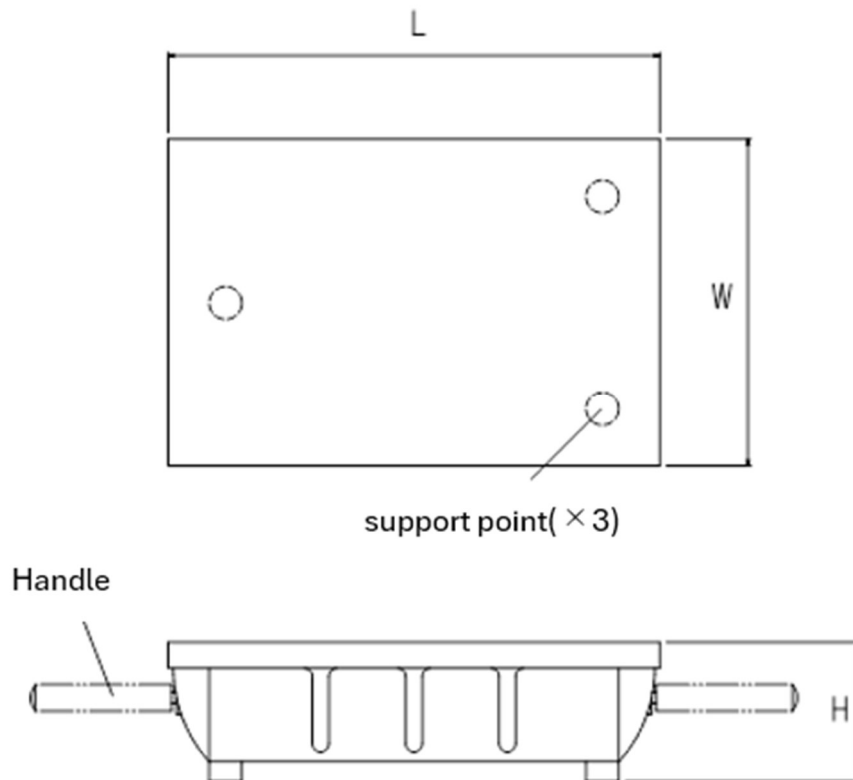
1. Product Features

- This is a surface plate with a scraping finish suitable for hand scraping work.
 - To prevent distortion and aging, the back reinforcing ribs employ a unique structure.
 - It has a lightweight design and comes with lifting handles.
- (Note: Handles are not included with models BD101 and BD102.)
- For lapping applications, products with grooves processed on the precision surface can also be manufactured.

Note: Sets of three plates for three-plate matching are also available.

- Normally, the plates are sold individually.

2. Names of Parts and External View



【Installation Precautions】

- A location with minimal temperature changes and humidity.
- A location with little dust or vibration.
- A solid foundation that will not deform or twist under the weight of the surface plate.
- Install the instrument level on a stable stand, ensuring that there is no looseness or twisting.

3. Specifications

Grade	Grade A		Mass (kg)
Size (mm)	Code No.	Flatness (μ m)	
150×100×40	BD101	1.5	2
150×150×45	BD102	2.0	3
250×250×85	BD104	3.0	13
300×200×85	BD105	3.0	13
300×300×95	BD106	3.0	18
400×300×120	BD108	4.0	31
400×400×110	BD109	5.0	40
500×300×125	BD110	5.0	41
500×400×125	BD111	5.0	54
500×500×135	BD112	5.0	65
600×450×140	BD113	5.0	75
600×600×135	BD114	6.0	80
750×500×150	BD115	8.0	115
750×750×150	BD116	8.0	145
900×600×185	BD117	9.0	160
1000×750×180	BD118	10.0	220
1000×1000×180	BD119	10.0	320

4. 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 After use, always perform rust prevention treatment on the instrument.
- ⑩ If there are scratches or damage, have the instrument repaired and inspected. Remove minor scratches on the Precision Surface locally with an Arkansas stone or similar before use.
- ⑪ 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.
- ⑫ Check the accuracy regularly before using the product.
- ⑬ Do not leave workpieces or other items on the surface plate.
- △ ⑭ If the product has sharp edges, handle it carefully to avoid injuring your fingers or other parts of your body.
- △ ⑮ For heavy products, handle placement and other operations with two or more people, and take care to avoid injury.
- ⑯ 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.
- △ ⑰ Wear protective gloves and safety glasses as necessary to prevent injury while working.
- △ ⑱ Do not use this product if it is damaged or deteriorated, as it may cause injury or accidents.
- △ ⑲ If an injury occurs, give first aid immediately and seek medical attention if necessary.

Contact Information



JIS Certified Factory

OBISHI KEIKI SEISAKUSHO Co., Ltd.

Head Office: 1-1216-1 Nanyo, Nagaoka City, Niigata 940-1164

TEL: (0258)22-1100 FAX: (0258)22-0014

Tokyo Office: 3-5, Kanda Surugadai, Chiyoda-ku, Tokyo 101-0062

TEL: (03)3293-8881 FAX: (03)3293-8884

Nagoya Office: 2F Nichiju Bldg., 3-15 Oimachi, Naka-ku, Nagoya City, Aichi 460-0015

TEL: (052)322-4031 FAX: (052)322-5647



ISO9001 Certified (JQA-QMA11294)

Head Office and Factory

ISO9001
JQA-QMA11294

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).