

Angle Plate and Table

Precision Angle Plate

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.

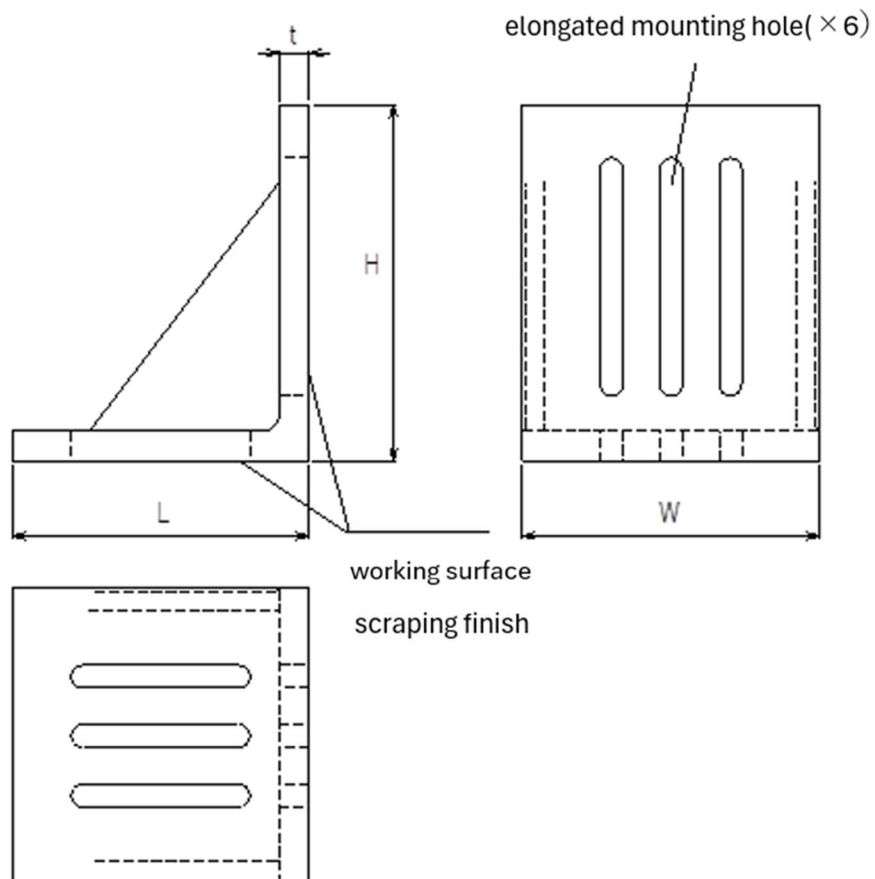
For Safe and Proper Use		
This instruction manual includes various symbols and pictograms throughout the text to ensure correct use of the product and to prevent harm or damage to the user. The symbols and their meanings are as follows. ● Please read the text after fully understanding the symbols and 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.)

Precision Angle Plate Instruction Manual

1. Product Features

- The accuracy of the base surface and the vertical surfaces is ensured.
 - Both surfaces are finished by scraping, enabling high-accuracy machining.
 - Long holes for workpiece mounting are provided on the base surface and the vertical surfaces, allowing the product to be mounted on a machine and used as a jig.
 - Products of 200 mm or more are provided with internal supports for reinforcement.
- ※Production with special dimensions is also available.

2. External View



3. Specifications

Code No.	Nominal	Size (H×W×L×t mm)	The number of Slotted Holes	Squareness (μ m)	Mass (kg)	
RA101	100	100×75×75×16	2	7	1.2	
RA102	125	125×100×100×16	3	8	2.1	
RA103	150	150×125×125×18		9	3.6	
RA104	175	175×150×150×19		10	5.6	
RA105	200	200×175×175×20			9.2	
RA106	250	250×200×200×22			17.0	
RA107	300	300×250×250×25			24.0	
RA108	350	350×300×300×25	4	15	38.0	
RA109	400	400×350×350×35			70.0	
RA110	450	450×400×400×37	5		15	87.0
RA111	500	500×400×400×45				107.0
RA112	600	600×450×450×45			20	160.0

4. Instructions for Use

【Method of Mounting on a Flat Surface】

- ① Fix the angle plate securely to the machine bed by using the elongated holes on the base together with locating pins and mounting bolts.
- ② Fix the workpiece either by placing it in close contact with the working surface or by using the elongated holes provided in the working surface.
- ③ After fixing, perform machining or measuring operations.
- ④ When mounting, check that the angle plate and the contact surfaces are free from dust and damage before operation.

※ Fig. 2 shows an example of how to use the angle plate.

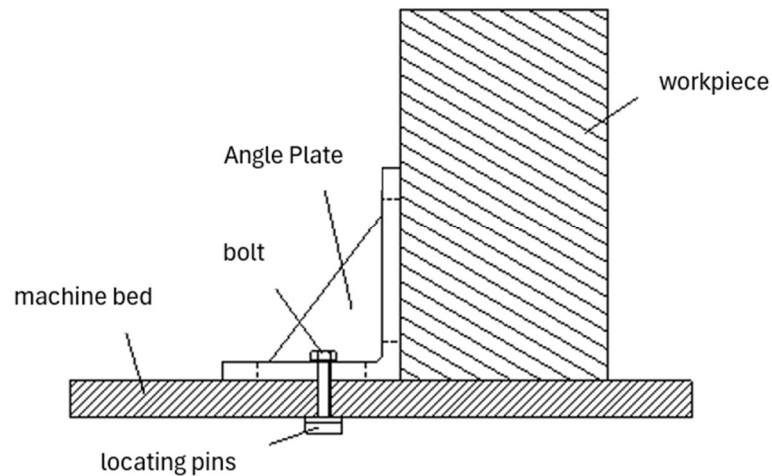


Figure2

【Mounting on a Vertical Surface】

- ① Temporarily fasten the angle plate to the mounting surface using the elongated holes and mounting bolts.
- ② Lightly place the contact point of the dial gauge stand, set on the reference surface, against the top surface of the angle plate.
- ③ Move the stand left and right on the reference surface and adjust so that the dial gauge readings match on both sides.
- ④ After confirming that the readings match, fully tighten the bolts and secure the angle plate firmly.
 ※ Be sure to check that the dial gauge readings match on both sides.
- ⑤ When mounting, check that the angle plate and the contact surfaces are free from dust and damage before operation.

Fig. 3 shows an example of how to use the angle plate.

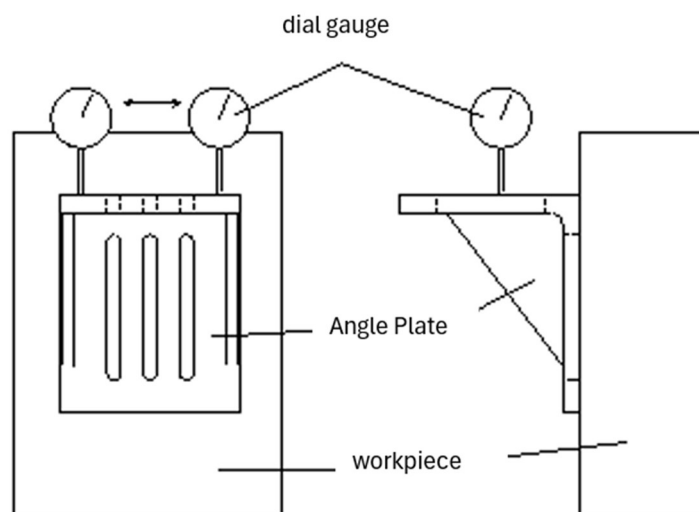


Figure3

5. Precautions for Use

- ① Before use, please clean the measuring face and the measurement surface of the workpiece.
- ② When using or storing this instrument, handle it carefully 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 After use, always apply rust prevention treatment and store the instrument in its storage case.
- ⑥ In the following cases, please check for any abnormalities in the instrument before use.
 - When the instrument has been dropped.
 - When an object has been dropped onto the instrument.
- ⑦ If there are any scratches or damage, repair and inspection are recommended. Minor scratches on the measuring surface should be locally removed using an Arkansas stone or similar before use.
- ⑧ Check the accuracy regularly and use the product.
- △ ⑨ For heavy products, ensure that two or more people handle placement and other operations, taking care to avoid injury.
- ⑩ Use cloth or nylon sleeves for lifting. Using hard materials such as metal chains or wires may cause scratches or cracks on the product and pose a risk of injury to the operator.
- △ ⑪ If the product has sharp parts, please handle it carefully to avoid injuring your fingers or other parts of your body.
- △ ⑫ Wear protective gloves and safety glasses as necessary to prevent injury while working.
- △ ⑬ Do not use this product if it is damaged or deteriorated, as it may cause injury or accidents.
- △ ⑭ If an injury occurs, provide first aid immediately and consult a physician 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).