

Length Measurement Judgement System MET



Measure • Judge • Record

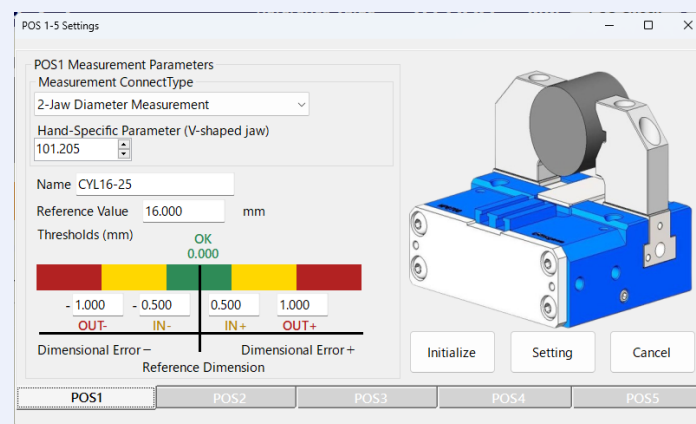
When used in combination with a measuring gripper, it supports processes ranging from workpiece dimension measurement and pass/fail judgement to data recording.

Simplifying the automation of quality inspection

- Supports measurement at up to five points.
- Measurement data is judged in five stages.
- Measurement data can be saved and output.
- Settings can be easily configured using dedicated software.

Measuring gripper × MET

Supports labour-saving processes and stable quality control.



Set-up screen

Kitagawa product technical information is available on the Kitagawa Web Showroom.
<https://prod.kiw.co.jp/exhibition/mttools/en/>

kitagawa

<https://www.kiw.co.jp> <https://www.kitagawa.com> <https://www.kitagawa.com.cn>

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WHS WORKHOLDING SOLUTIONS

● Product specifications and appearance are subject to change without notice due to ongoing research and development.
 ● The colour of the actual product may differ slightly from that shown in this catalogue due to printing processes.
 ● Catalogue information is current as of October 2026.

● The products listed in this document are subject to control under Japan's Foreign Exchange and Foreign Trade Act. Before importing or exporting these products, please consult Kitagawa and the relevant authorities in your country regarding applicable regulations.



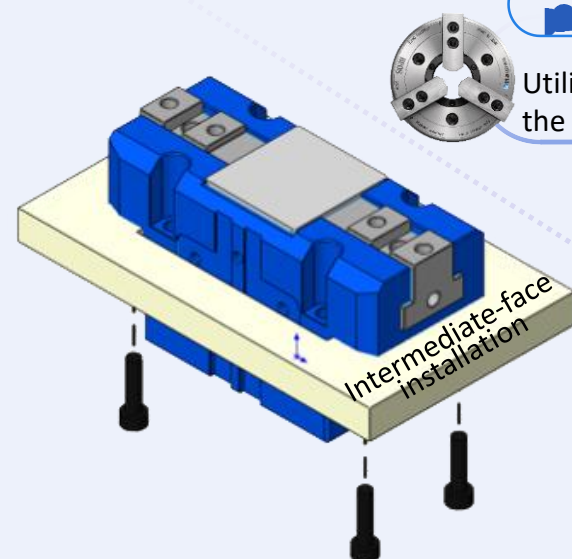
Kitagawa Global hand Company

Sier
 Japan Robot System
 Integrator Association

Four Key Features of Kitagawa Grippers

Powerful Gripping Force

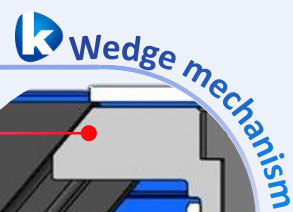
Utilising the technology developed through the manufacture of lathe chucks



Plunger

Master jaw

Piston

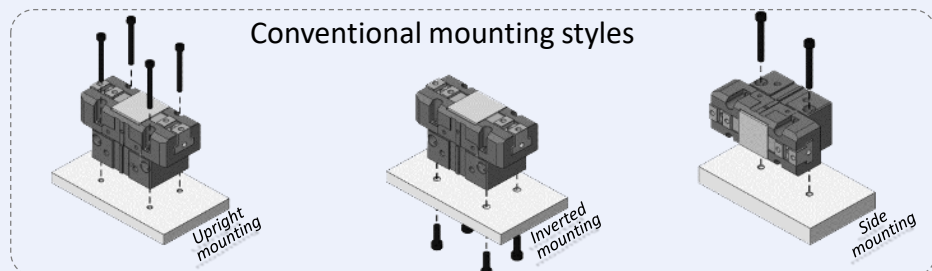


Workpiece : Gripper **10 : 1** Max. Mass Ratio

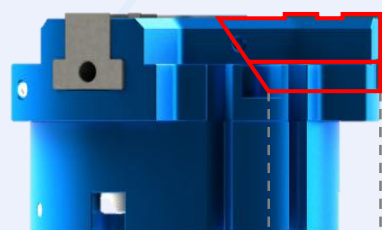
- Effective use of limited space
- High degree of design flexibility

Lightweight, Compact Body

Conventional mounting styles

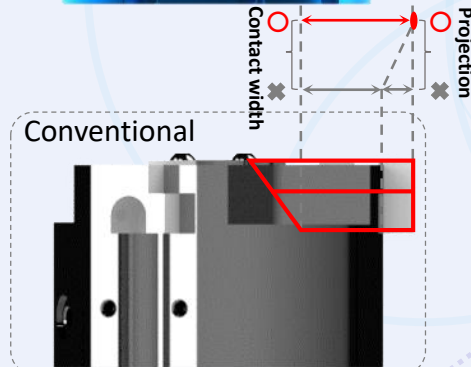


Excellent Durability



- Reduces stress on the body
- Prevents the ingress of cutting chips

Maintains high accuracy even after 5 million durability-test cycles



Video

③ Slide sideways

④ Disassembly complete

Easy Maintenance

① Remove the cover

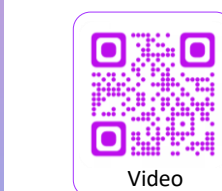
② Remove the plunger

- Maintenance can be carried out **without removing the gripper** from the robot.
- **Standard, readily available seals** are used.

Infinite Possibilities Built on These Features

Quick Jaw-Change Gripper

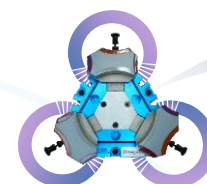
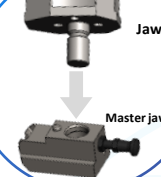
- **Tool-free jaw replacement** is possible **in seconds**.



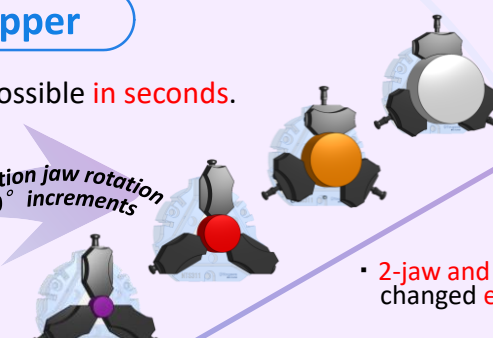
Video



Insert-fit jaws



our-position jaw rotation in 90° increments



- **2-jaw and 3-jaw face plates** can be changed **easily**.



Base unit

2-jaw face plate

3-jaw face plate

3-jaw face plate (Large diameter)



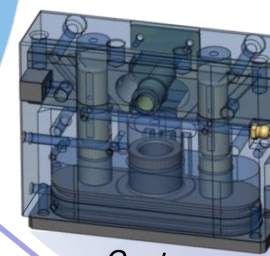
Video

Quick Plate-Change Gripper

The 2-jaw and 3-jaw face plates can be changed manually on a single base unit. Its lightweight, compact construction helps to reduce total costs.

Thin Type, 2-Jaw Parallel Gripper

- Its thin design allows access to **narrow spaces** inside machine tools.
- Gripping force comparable to a standard 2-jaw gripper **one size larger**.
- **Measurement specification** available



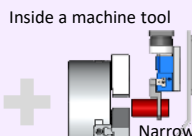
Oval piston

High gripping force

Compact

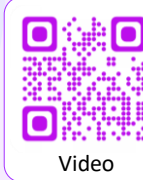
Standard 2-jaw

This model



Inside a machine tool

Narrow



Video

Measurement Specifications for 2-Jaw, 3-Jaw and Dustproof & Waterproof 2-Jaw Grippers

Measurement error: **±2 μm**

(Built-in scale resolution: 0.5 μm)
* Under in-house test conditions

Comparative Measurement



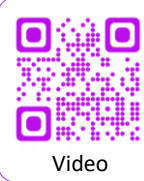
Part-Type Identification



Pass/Fail Judgement

Foreign-Object Detection

IP67 Dustproof & Waterproof Gripper



Video



2-jaw

3-jaw

- Suitable for **demanding environments**
- **Large internal gripping force**
- **Measurement specification** also available for the 2-jaw version