

Ideas for Improvement

in Semiconductor Manufacturing Process

| Support

| Locate

| Quick Change

| Clamp

| Transfer

for Wafer Manufacturing and
Front-end/Back-end Process

Front-end Process

**A wide variety of products to meet your needs.
Enhance productivity in every process.**

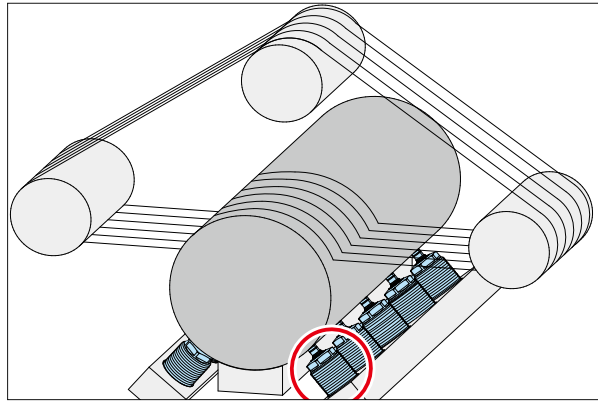
Wafer Manufacturing

Polishing/
Inspection/Oxidation

Photoresist Coating

Exposure

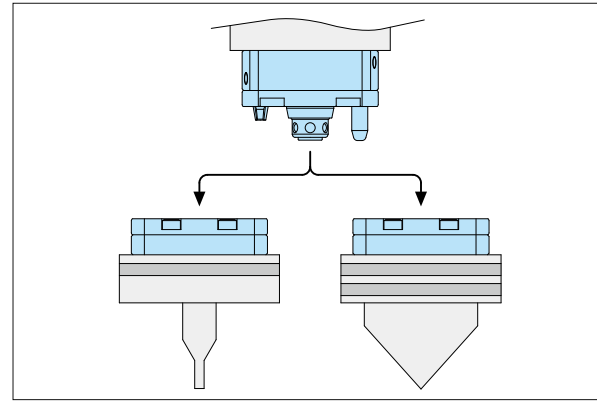
To Slice Ingots



The tip stops when it touches the workpiece, providing strong support during machining.

High-Power Pneumatic Work Support model **WNC**

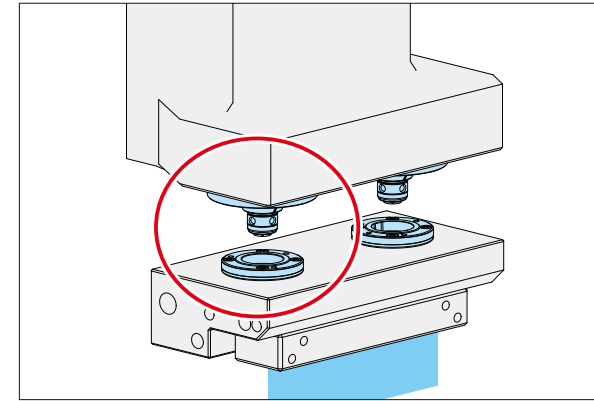
To Change Nozzle



Instant, high-precision locating and clamping. Reduce setup time, improve stability during changeover.

Nozzle Changer model **SWRY**
Please contact us for details.

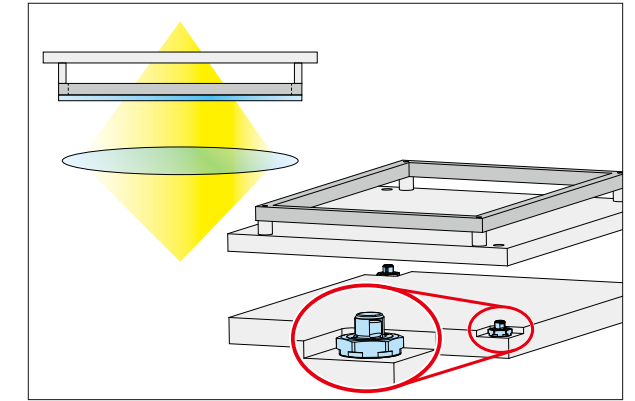
To Change Coater Head



Instant, high-precision locating and clamping. Reduce setup time, improve stability during changeover.

Air Location Clamp model **SWT/SWQ**
Robotic Hand Changer model **SWR**

For Locating during Setup



Expansion locating pin enables high-accuracy locating of fixture/workpiece.

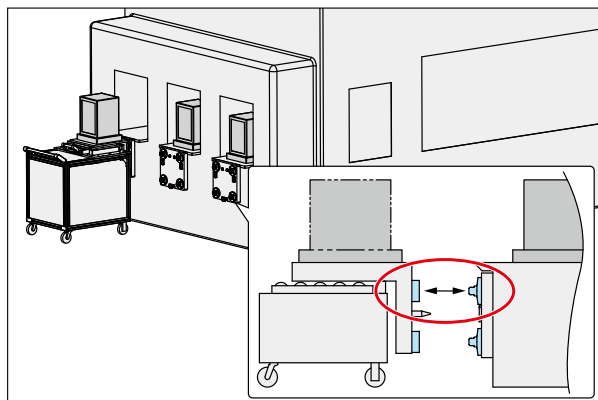
Expansion Locating Pin model **VRA/VRC**
Pneumatic Expansion Locating Pin model **VWH/VWM**
Manual Expansion Locating Pin model **VX**

Etching/Cleaning

CMP Chemical Mechanical Polishing

Wafer Inspection

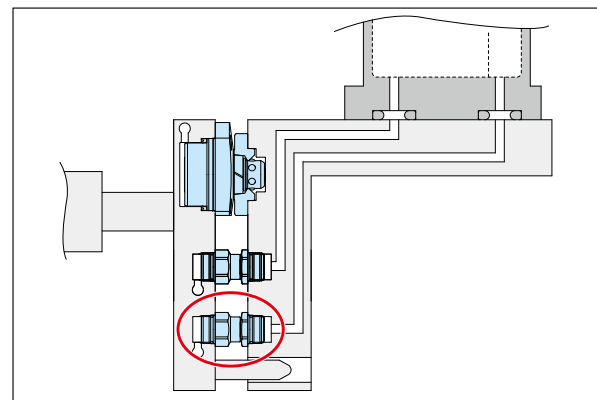
For Docking Modules



Locating/Clamping for docking modules.

High-Power Pneumatic Pallet Clamp model **WVS**
High-Power Automation Pallet Clamp model **WVG**
High-Power Pull Stud Clamp model **WPT**

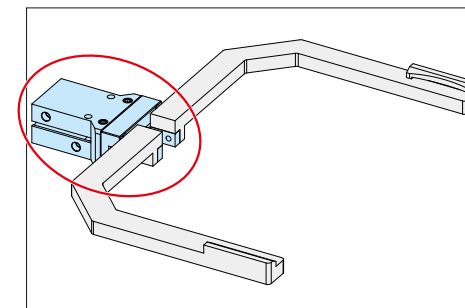
For Fluid Supply



Connect various fluids to equipments.

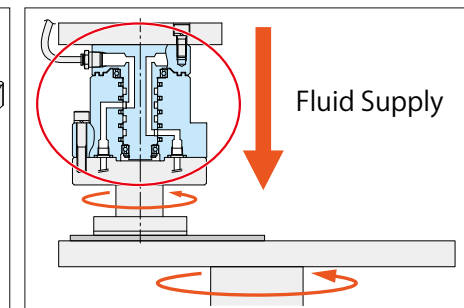
Leakless Coupler model **JWC/D**
Auto Coupler model **JTA/B•JV**
Compact Compressor model **AYW**

Robotic Hands with 100% Stainless Steel For Fluid Supply



Various Robotic Hands enables more efficient hand design.

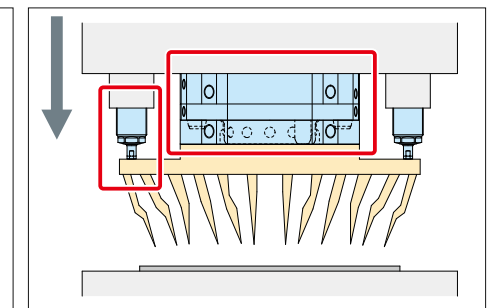
Robotic Hands model **WP** ※
※ The standard models are not made of 100% stainless steel. Please contact us for details.



Supply various fluids.

Rotary Joint model **JR**

To Change Testing Device Tool



Reduce setup time for testing device tools. Improve stability during tool change.

Robotic Hand Changer Large Model model **SWL**
Pallet Gripper model **WVA**
High-Power Pneumatic Work Support model **WNC**

Back-end Process

A wide variety of products to meet your needs.
Enhance productivity in every process.

KOSMEK offers a wide variety of hydraulic and pneumatic products to meet your needs. Please feel free to let us know your requirements (100% stainless steel, low-dust grease, high-temperature environment, etc.). ※The figures shown below are examples.

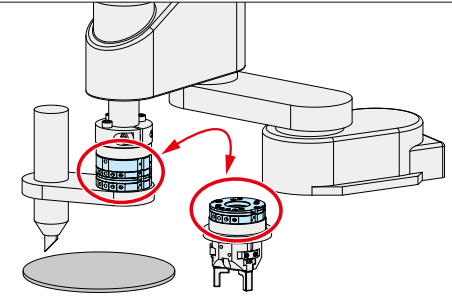
Grinding

Dicing

Die Bonding Wire Bonding

Molding

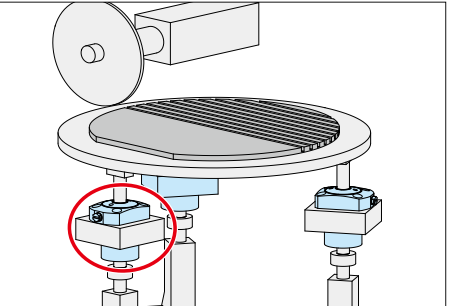
Tool Change Automation



Transfer, seal application, etc.
Auto-changeover of various
hands for different purposes.

Robotic Hand Changer model **SWR**

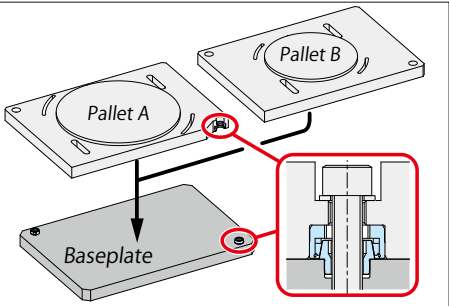
Lock Mechanism for the Stage Height



After adjusting the height and
other settings, holds the rod
with strong gripping force.

Pneumatic Work Support model **WNA**

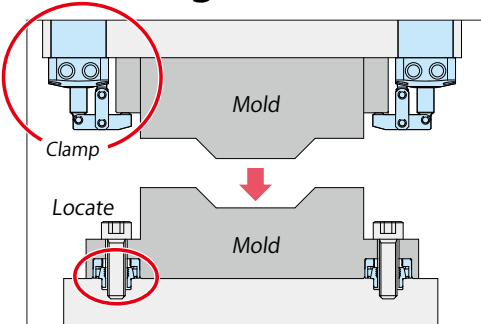
Change/Locate Fixture on Machine Side



Screw Locator enables
fixture setup with 0.003mm
locating repeatability.

Screw Locator model **VXE/VXF**

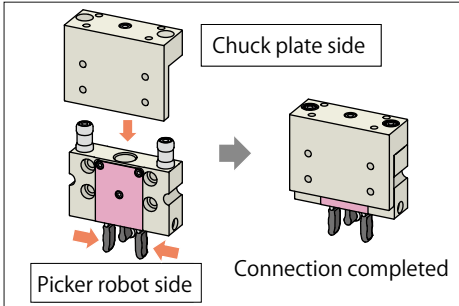
Clamp and Locate Molding Fixture



Clamp with Automatic Clamp.
Locate with Screw Locator.

Pneumatic Link/Swing Clamp model **WCC/WFC/WHC**
High-Power Pneumatic Link/Swing Clamp model **WCE/WHE**
Screw Locator model **VXE/VXF**

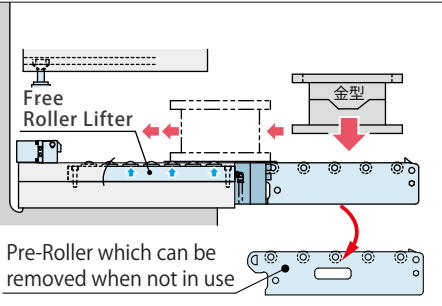
Change Chuck Plate on Picker Robot



Quick Chuck Changer enables
simple and quick change of
chuck plate.

Quick Chuck Changer model **SXQ**

Mold Loading

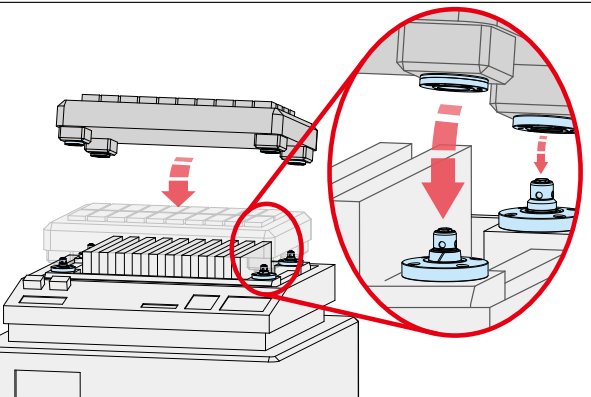


Support mold transfer.
Save space with
removable Pre-Roller.

Pre-Roller model **MR**□
Pneumatic Free Roller Lifter model **RQC**

Inspection

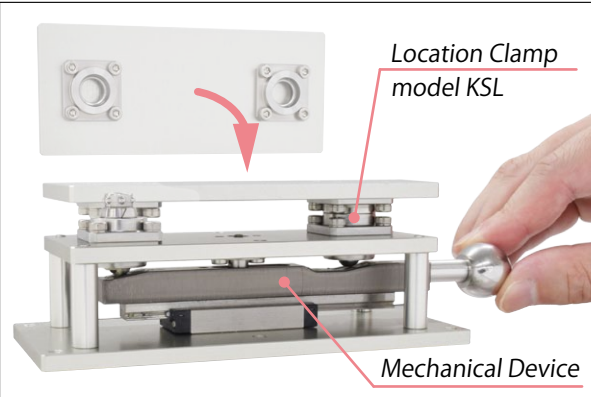
Change Testing Device Tool



Locates and clamps with high-accuracy.
Allows for highly accurate setup.

Air Location Clamp model **SWT**
Compact Location Clamp model **SWQ**

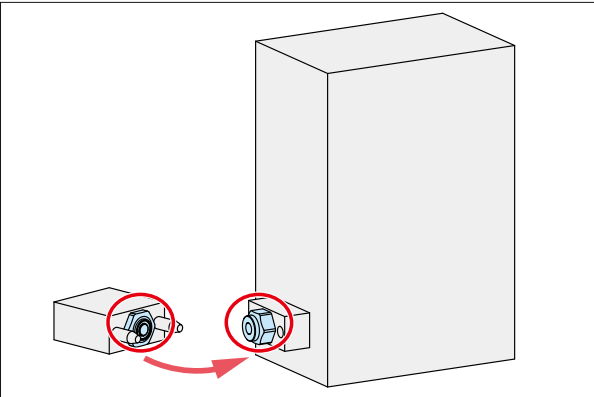
Mechanical Device



Powered by third-party source. Location
Clamp mechanically operates using the
force of a robot or a transfer device.

Smart Series Location Clamp model **KSL**

Pressure Maintaining for Leak Test



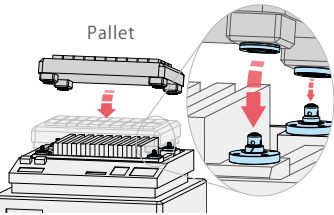
Leakless Coupler outgoing side is able to
keep the air pressure even when a coupler
is disconnected.

Leakless Coupler model **JWC/D**

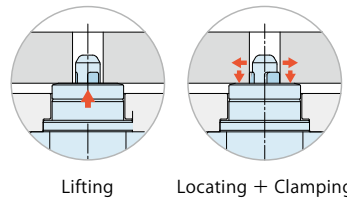
Introducing Kosmek Products by Application

Setup Change

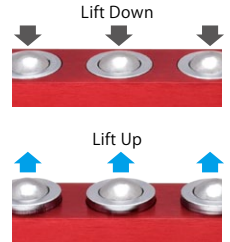
For High-Accuracy Locating and Clamping of Pallet



For Locating and Clamping of Conveyor Transfer Pallet

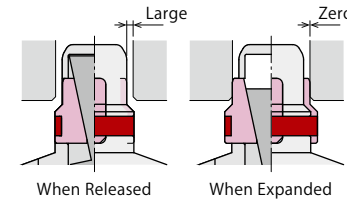


For Transferring Heavy Materials



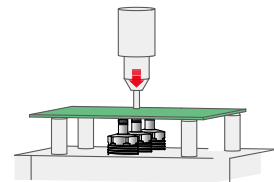
Locate

For both Locating Accuracy and Smooth Loading



Support

For Chattering and Distortion Prevention

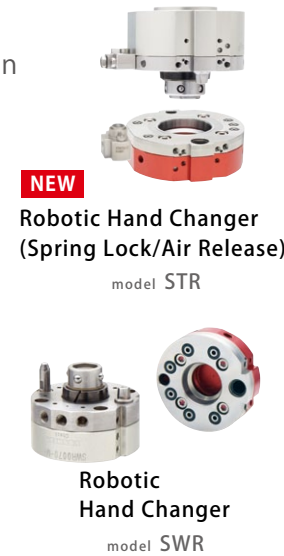
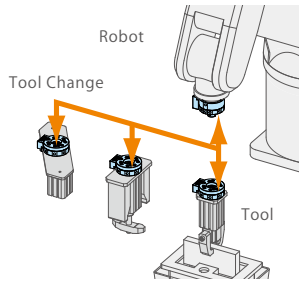


Safety • Connecting • Air Pressure Maintaining



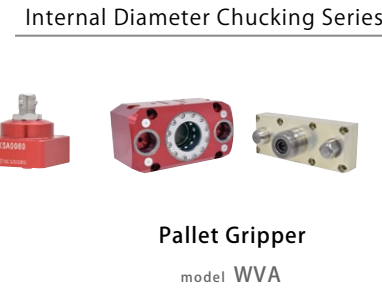
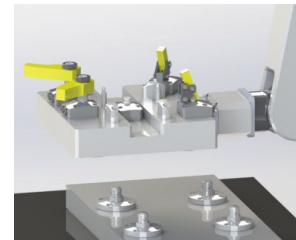
Tool Change

For Robot Standardization

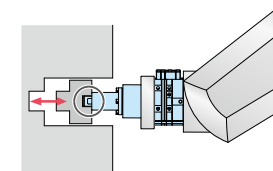


Transfer • Clamp

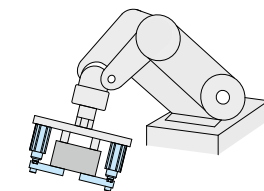
For Pallet Transfer



For Workpiece Transfer



For Workpiece Clamping and Transfer



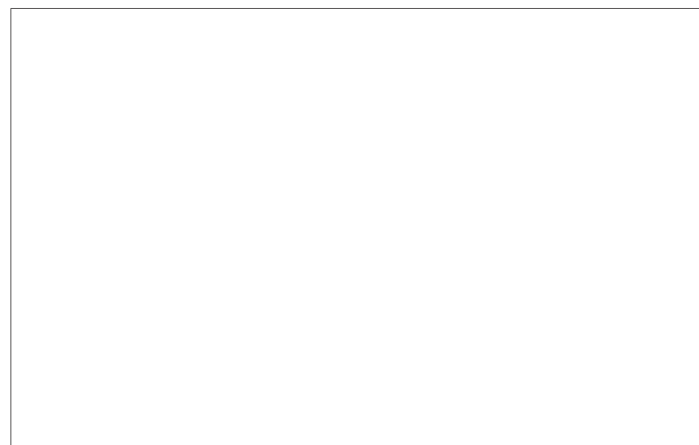


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- For Further Information on Unlisted Specifications and Sizes, Please call us.
- Specifications in this Leaflet are Subject to Change without Notice.

