

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

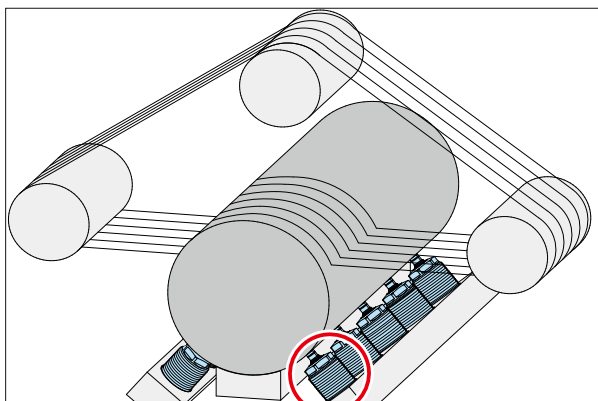
A wide variety of products to meet your needs.
Enhance productivity in every process.

Wafer Manufacturing

Polishing/
Inspection/Oxidation

Photoresist Coating

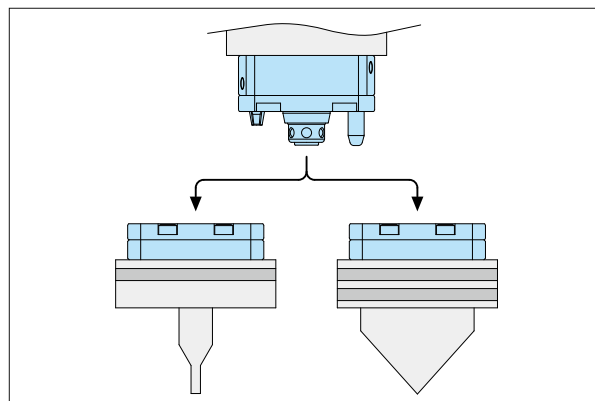
To Slice Ingots



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

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

To Change Nozzle

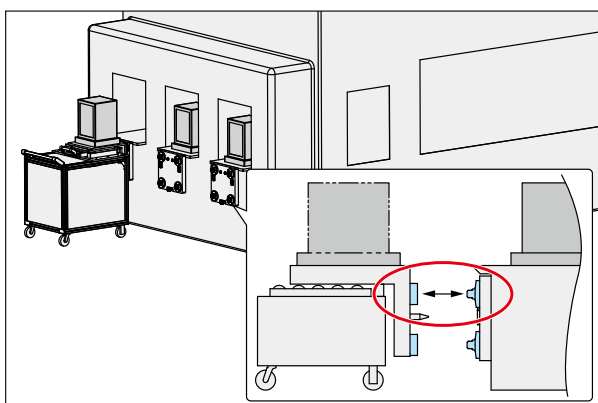


Instant, high-precision locating and clamping.
Reduce setup time, improve stability during
changeover.

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

Etching/Cleaning

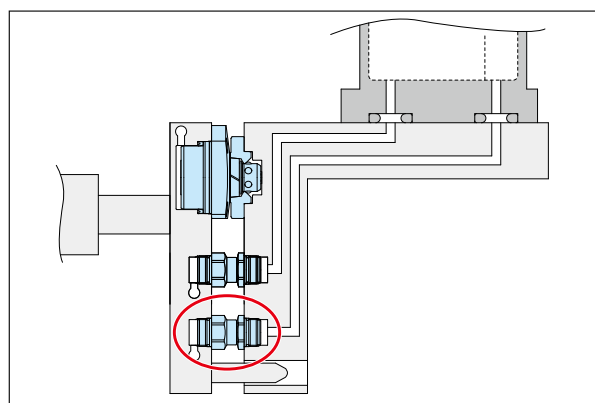
For Docking Modules



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



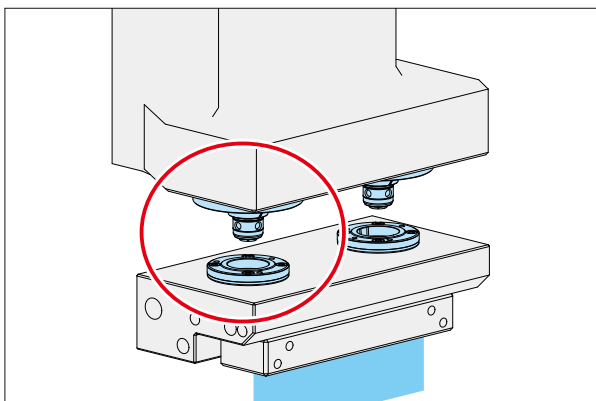
Connect various fluids to equipments.

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

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.

Exposure

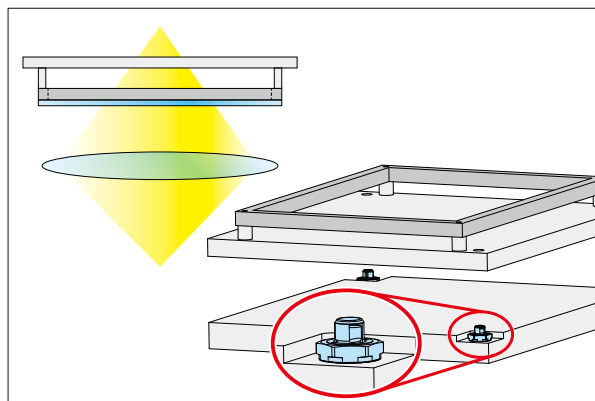
To Change Coater Head



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



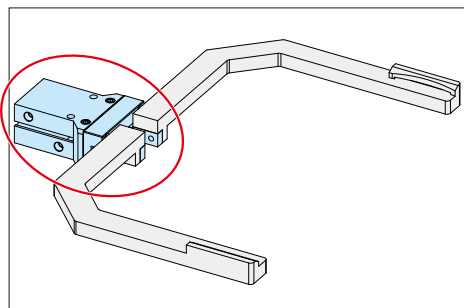
Expansion locating pin enables high-accuracy locating of fixture/workpiece.

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

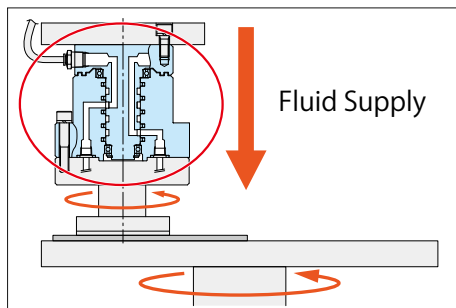
CMP Chemical Mechanical Polishing

Wafer Inspection

Robotic Hands with 100% Stainless Steel For Fluid Supply



Various Robotic Hands enables more efficient hand design.



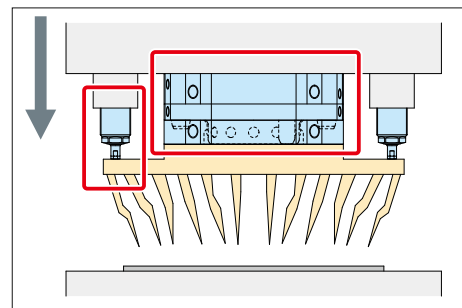
Supply various fluids.

Robotic Hands model **WP□** ※

※ The standard models are not made of 100% stainless steel.
 Please contact us for details.

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

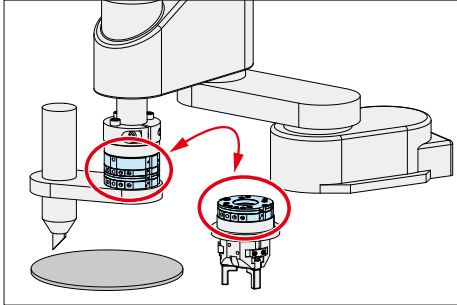
A wide variety of products to meet your needs.
Enhance productivity in every process.

Grinding

Dicing

Die Bonding Wire Bonding

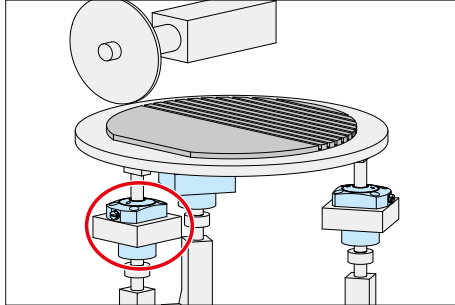
Tool Change Automation



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

Robotic Hand Changer model SWR

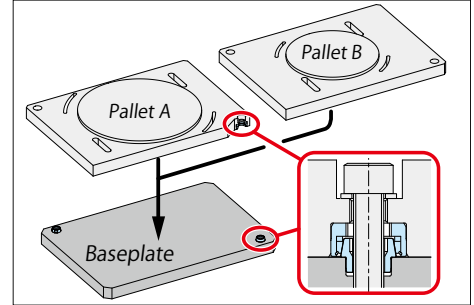
Lock Mechanism for the Stage Height



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

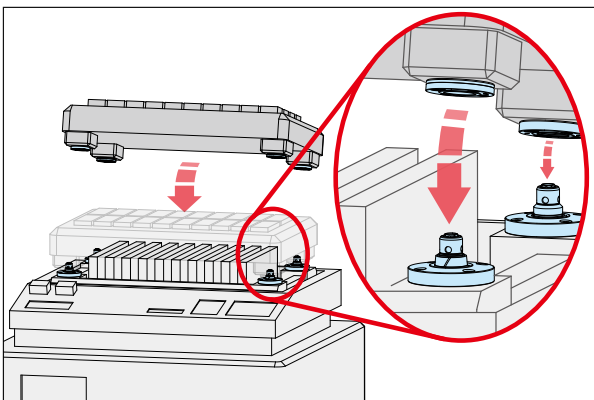


Screw Locator enables
fixture setup with 0.003mm
locating repeatability.

Screw Locator model VXE/VXF

Inspection

Change Testing Device Tool



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

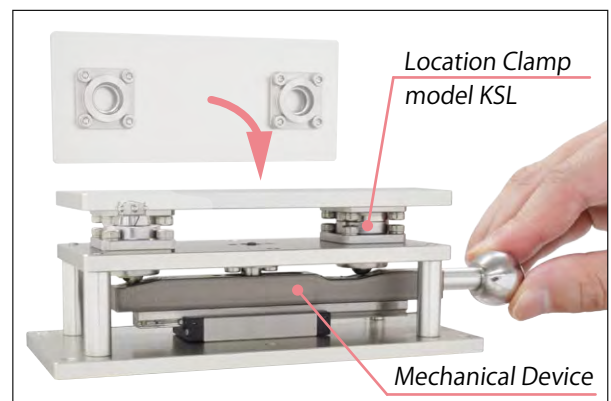
Air Location Clamp

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.

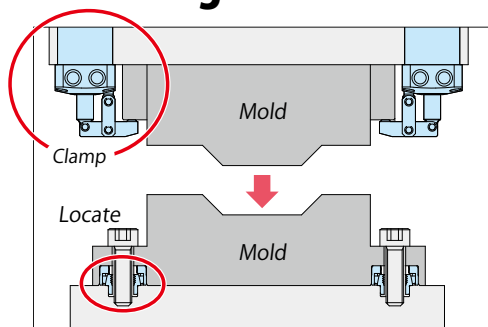
Smart Series Location Clamp

model KSL

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Molding

Clamp and Locate Molding Fixture



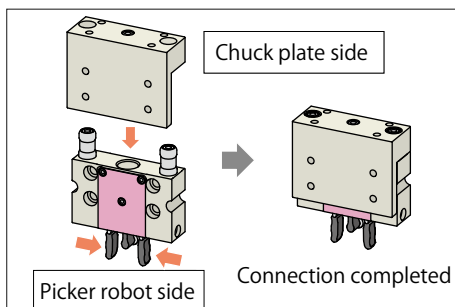
Clamp with Automatic Clamp.
Locate with Screw Locator.

Pneumatic Link/Swing Clamp model WCC/WFC/WHC

High-Power Pneumatic Link/Swing Clamp model WCE/WHE

Screw Locator model VXE/VXF

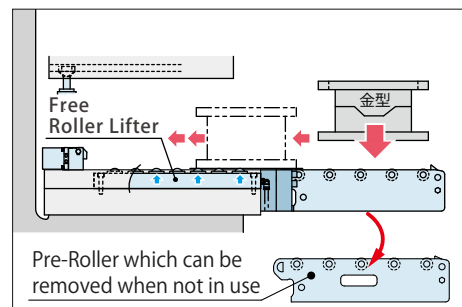
Change Chuck Plate on Picker Robot



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

Quick Chuck Changer model SXQ

Mold Loading

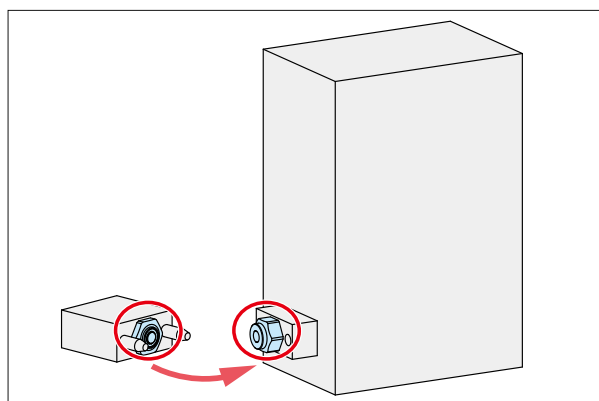


Support mold transfer.
Save space with removable Pre-Roller.

Pre-Roller model MR□

Pneumatic Free Roller Lifter model RQC

Pressure Maintaining for Leak Test



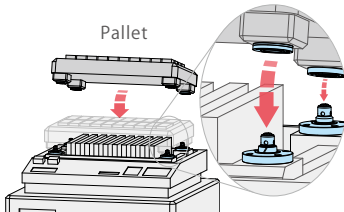
Leakless Coupler outgoing side is able to keep the air pressure even when a coupler is disconnected.

Leakless Coupler model JWC/D

Introducing Kosmek Products by Application

Setup Change

For High-Accuracy Locating and Clamping of Pallet



Pneumatic Location Clamp
model SWQ/SWT



High-Power Pneumatic Pallet Clamp
model WVS

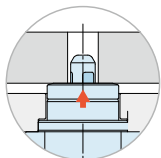


High-Power Automation Pallet Clamp
model WVG/WVGT

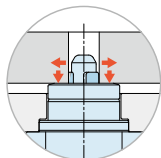


Screw Locator
model VXE/VXF

For Locating and Clamping of Conveyor Transfer Pallet



Lifting

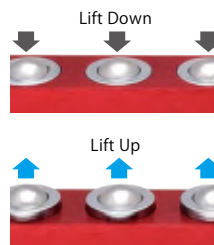


Locating + Clamping



Lifting Hole Clamp
model SWJ

For Transferring Heavy Materials



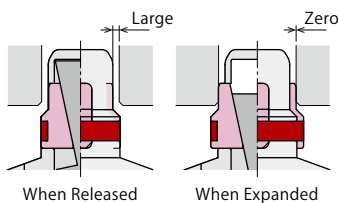
Pneumatic Free Roller Lifter
model RQC



Pre-Roller
model MR□

Locate

For both Locating Accuracy and Smooth Loading



When Released

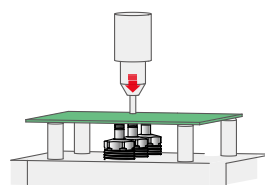
When Expanded



Large Expansion Locating Pin
model VWH/VWM/VRA/VRC

Support

For Chattering and Distortion Prevention



High-Power Pneumatic Work Support
model WNC



Pneumatic Work Support [Rodless Hollow]
model WNA

Safety • Connecting • Air Pressure Maintaining



Air Safety Valve
model BWS



Auto Coupler
model JVA/JVB/JV□



Leakless Coupler
model JWC/JWD



Air Non-Leak Valve
model BWQ



Air Sequence Valve
model BWD

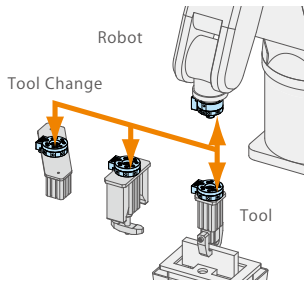


NEW

Compact Compressor
model AYW

Tool Change

For Robot Standardization



NEW

**Robotic Hand Changer
(Spring Lock/Air Release)**

model STR

NEW

**Mechanical
Robotic Hand Changer**

model SMR

**Robotic Hand Changer
(Large Model)**

model SWL



**Robotic
Hand Changer**

model SWR



**Manual Robotic
Hand Changer**

model SXR

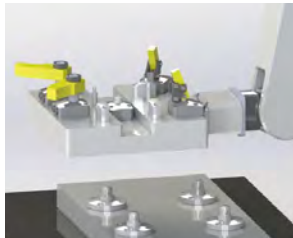


**Quick
Chuck Changer**

model SXQ

Transfer • Clamp

For Pallet Transfer



Internal Diameter Chucking Series



NEW

Smart Series

model KSL / KSH / KSA



Pallet Gripper

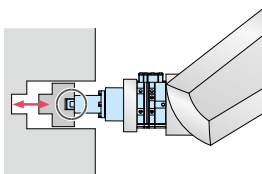
model WVA



**High-Power
Pull Stud Clamp**

model WPT

For Workpiece Transfer



**FA Pneumatic
Hole Clamp**

model WKH



**High-Power Pneumatic
Hole Clamp**

model SWE



Locating Pin Clamp

model SWP

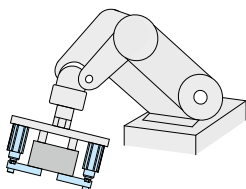


**Ball
Lock Cylinder**

model WKA

External Chucking Series

For Workpiece Clamping
and Transfer



NEW

Smart Series

model KSC / KSR / KSS



Robotic Hands

model WPA / WPB / WPE / WPF / WPH /
WPJ / WPP / WPQ / WPS / WPW



NEW

**Pneumatic
Swing Clamp**

model WHC



NEW

**Pneumatic Link Clamp
Retracting Model**

model WFC



NEW

**Pneumatic
Link Clamp**

model WCC



**Pneumatic
Centering Vise**

model FWD



**High-Power
Pneumatic Clamp**

model WHE / WCE / WFE



**Compliance
Module**

model WRC

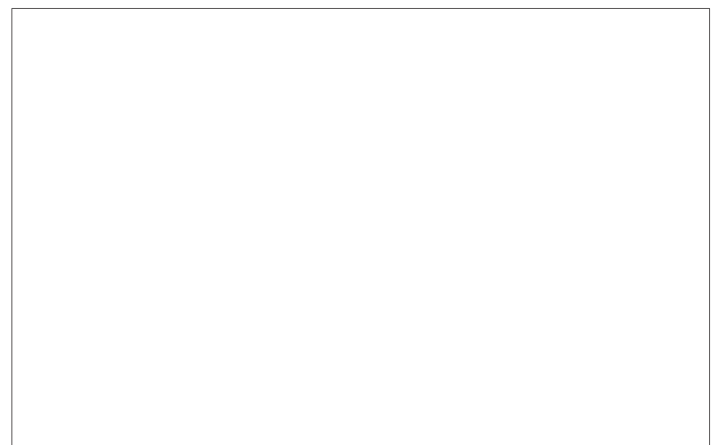


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- Specifications in this Leaflet are Subject to Change without Notice.

