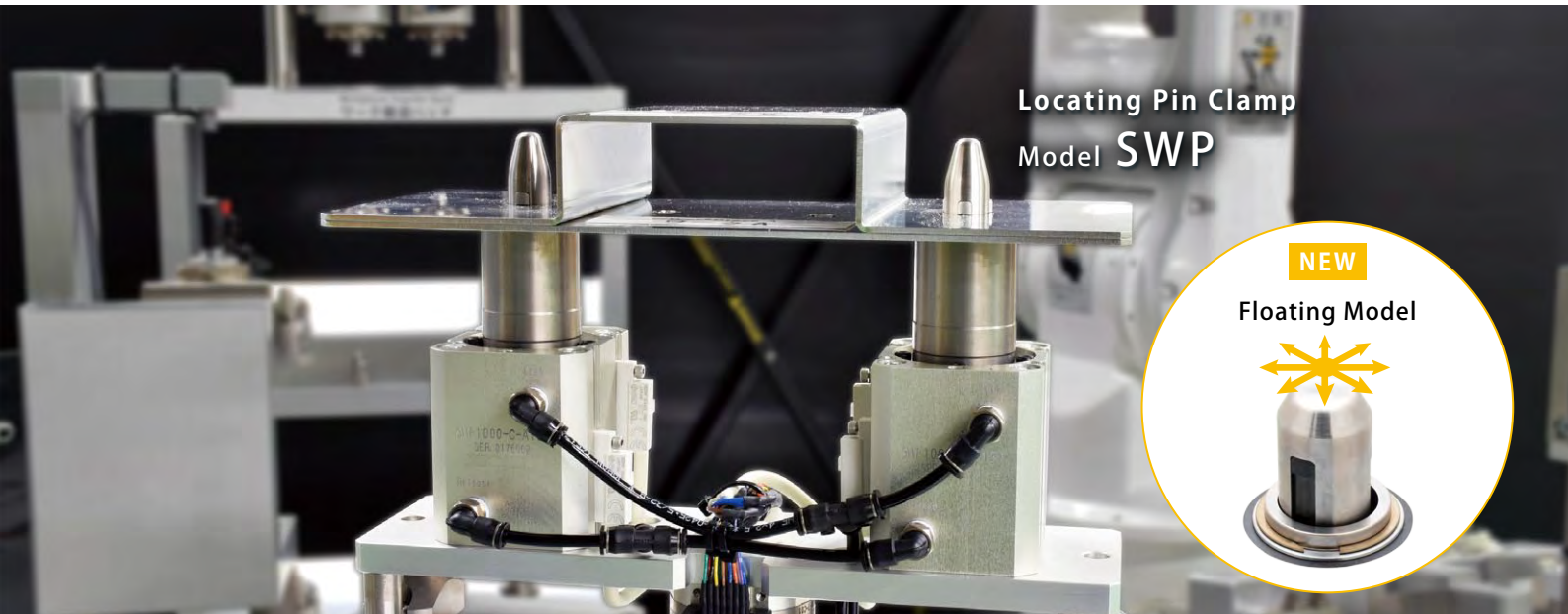


For setup improvement of welding applications

# Kosmek Welding Products



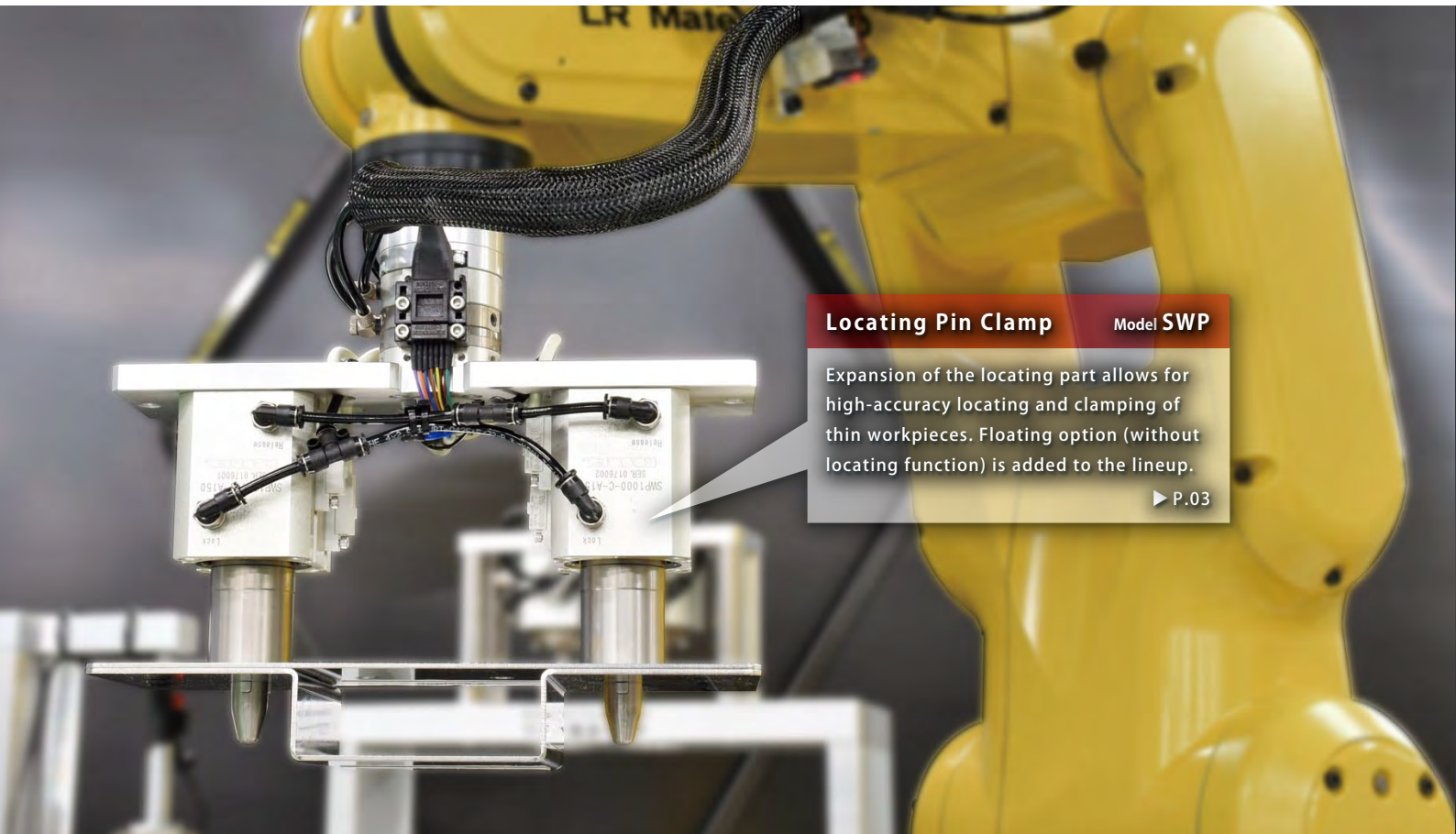
Locating Pin Clamp  
Model **SWP**

**NEW**  
Floating Model



High-Power Welding  
Link Clamp  
Model **WCG**

High-Power Welding  
Swing Clamp  
Model **WHG**



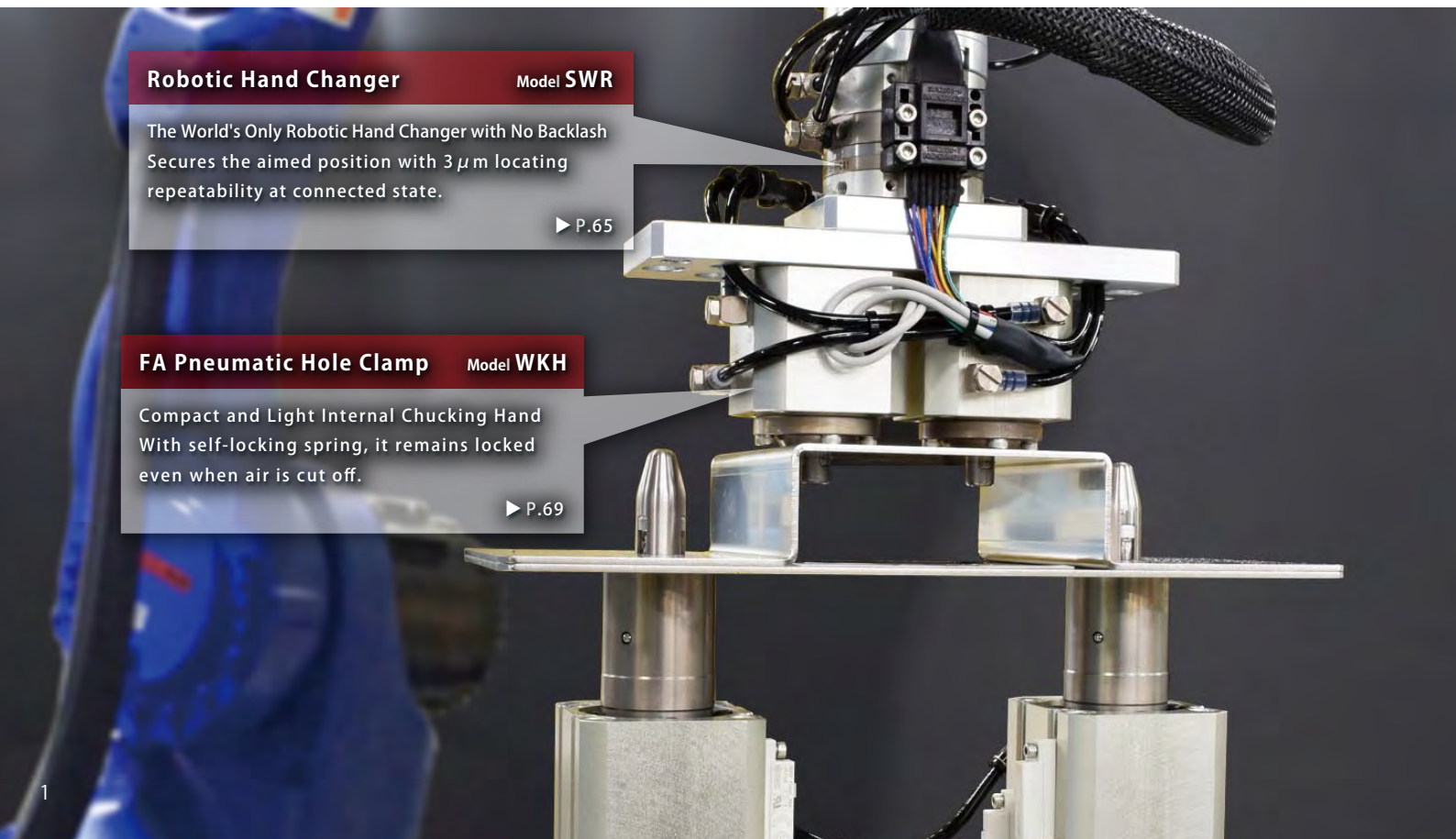
### Locating Pin Clamp

Model SWP

Expansion of the locating part allows for high-accuracy locating and clamping of thin workpieces. Floating option (without locating function) is added to the lineup.

▶ P.03

# Spot Welding



### Robotic Hand Changer

Model SWR

The World's Only Robotic Hand Changer with No Backlash  
Secures the aimed position with  $3\ \mu\text{m}$  locating repeatability at connected state.

▶ P.65

### FA Pneumatic Hole Clamp

Model WKH

Compact and Light Internal Chucking Hand  
With self-locking spring, it remains locked even when air is cut off.

▶ P.69



**High-Power Welding  
Swing Clamp**

Model WHG

Spatter-Resistant High-Power Pneumatic Swing Clamp for Welding Application. Special rod coating and triple protective structure prevents contamination. ▶ P.21

**High-Power Welding  
Link Clamp**

Model WCG

Spatter-Resistant High-Power Pneumatic Link Clamp for Welding Application. Special rod coating and single link plate allow for spatter resistant. Triple protective structure prevents contaminants from entering the cylinder. ▶ P.39

# Arc Welding



**Compact Location Clamp** Model SWQ

For Pallet Exchange Automation. Clamping and locating simultaneously with 3  $\mu\text{m}$  locating repeatability

▶ P.73

**Auto Coupler**

Auto Coupler automatically connects air circuits to provide the air pressure to the pallet when the location clamp is locked.

▶ P.74

For Welding Application

# Locating Pin Clamp

Model SWP



Locating Pin Clamp Description Video Available on Our Website



[http://www.kosmek.co.jp/php\\_file/video\\_products.php?id=025&lang=2](http://www.kosmek.co.jp/php_file/video_products.php?id=025&lang=2)

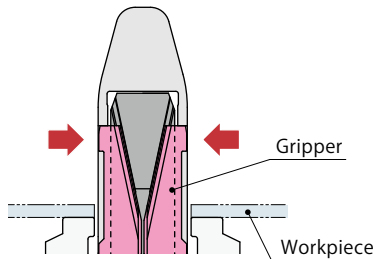
## High Accuracy Locating and Clamping of Thin Workpieces Applicable to Workpiece Hole Diameter $\phi 8$ or larger PAT.

### Action Description

#### Release

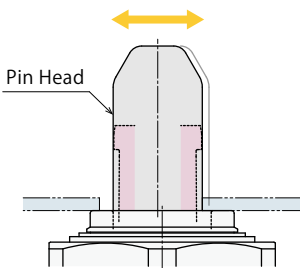
Release Air **ON**

Lock Air **OFF**



#### Workpiece Loading / Unloading

Gripper is retracted. Workpiece loading/unloading is smooth due to an adequate space between the workpiece hole and pin.



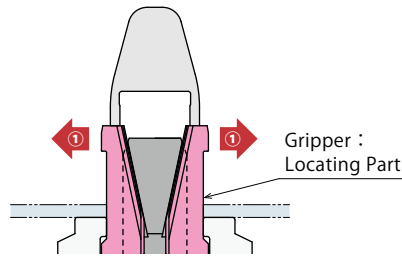
In case of Function **M** : Floating Function

The pin head floats following a workpiece hole.

#### Lock

Release Air **OFF**

Lock Air **ON**

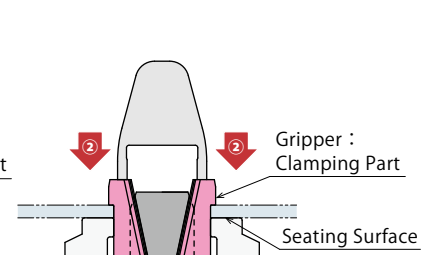


#### ① Expanding Action

Gripper expands.

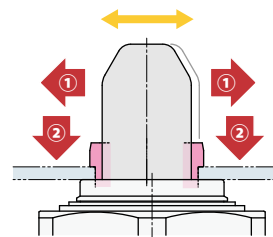
In case of Function **D/C** : Locating Function

A workpiece is located by the locating part.



#### ② Locking Action

Gripper pulls in the workpiece after locating, and the clamping part pulls the workpiece onto the seating surface for locking.



In case of Function **M** : Floating Function

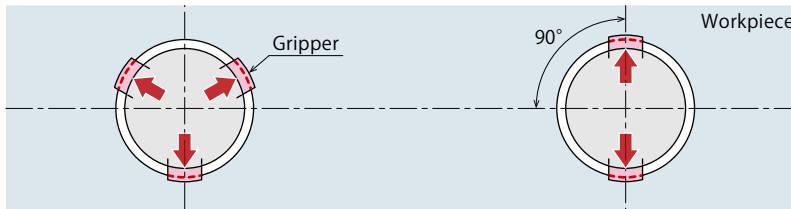
The workpiece is locked with the pin head floating. (No locating function)

## Function

### Locating Function

### Locating Repeatability : 0.05 mm

As general locating pin, Locating Pin Clamp has two types: Datum Locating Pin (round pin) and One-Direction Locating Pin (diamond pin).

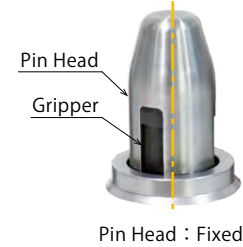


#### For Datum Locating (Equivalent to Round Pin)

Workpiece hole and gripper make contact at three points for datum locating.

#### For One Direction Locating (Equivalent to Diamond Pin)

Workpiece hole and gripper make contact, perpendicular to the reference hole, at two points for one-direction locating.

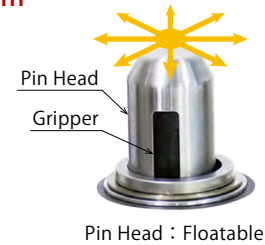
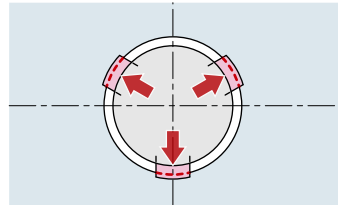


### Floating Function

### Allowable Offset (Pin Head Floating Amount) : $\pm 0.8$ mm<sup>※</sup>

In a released state, the pin head floats according to a workpiece hole. The pin head remains floated when a workpiece is securely clamped by the gripper (three parts). (No locating function)

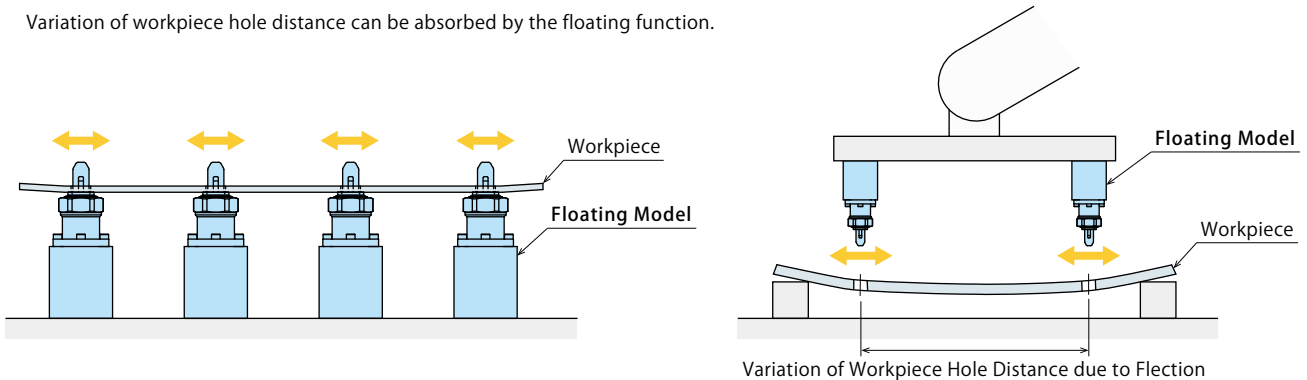
※ It shows the allowable offset of body size **100**.  
The allowable offset of body size **050** is  $\pm 0.6$ mm.



## Application Examples of Floating Model

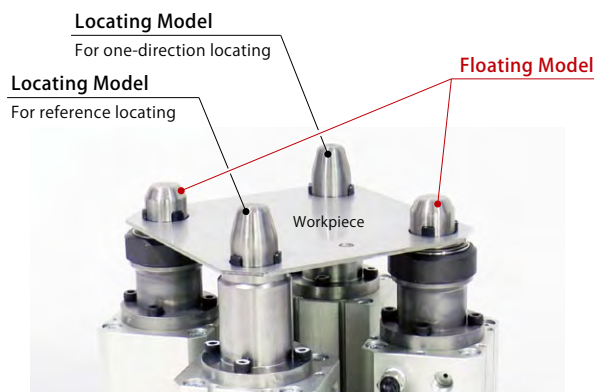
- In case there is a large variation in workpiece hole distance due to warp or flection of a workpiece.

Variation of workpiece hole distance can be absorbed by the floating function.



- In case of locating with the locating model and requiring additional clamping force.

The floating model enables additional clamping force without interfering the locating model.



### Locating Pin Clamp

#### SWP

High-Power Welding Swing Clamp

WHG

High-Power Welding Link Clamp

WCG

Air Flow Control Valve

BZW

Manifold Block

WHZ-MD

General Cautions

Welding Application Related Products

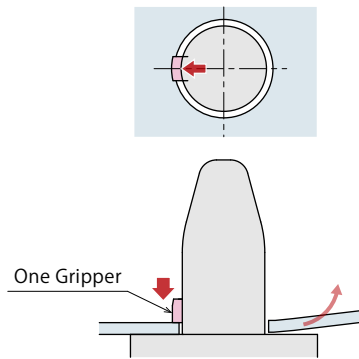
Die Change System for Press Machines

Company Profile Sales Offices

Features

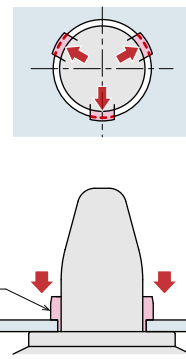
Stable Clamping

Gripper makes contact evenly, allowing for stable clamping.



Pin Clamp with One Gripper Only

Gripper force is concentrated only on one part, causing deformation of workpiece.



KOSMEK Locating Pin Clamp with Several Grippers

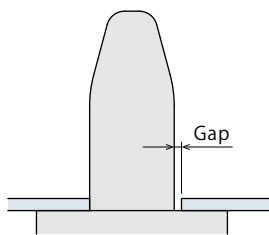
Three or two grippers press a workpiece hole evenly, so the force is distributed allowing for stable clamping.

High Accuracy

Expansion of locating part enables higher accuracy than general locating pin.

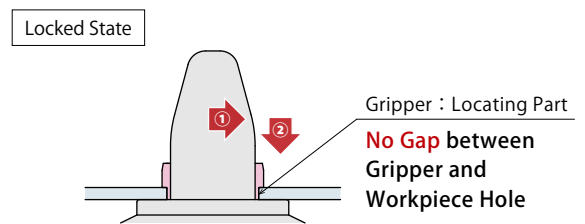
Locating Repeatability : 0.05mm

※ In case of Locating Model (when combining Functions D and C) only.



General Locating Pin

Backlash caused by the gap between locating pin and workpiece hole lowers locating accuracy. Also, variance in tolerance of workpiece hole diameter creates variance in locating repeatability of each workpiece.

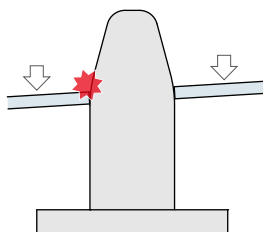


KOSMEK Locating Pin Clamp

Gripper expansion allows for high accuracy locating with no gaps. Variance in tolerance of workpiece hole diameter never affects locating accuracy.

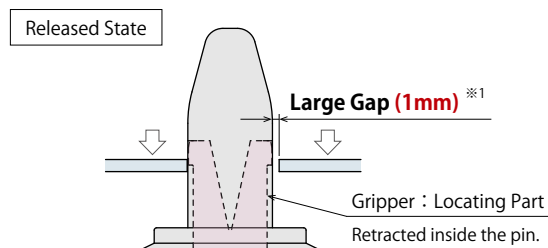
## Work Efficiency

Smooth loading/unloading even with robots due to large gap between the pin and workpiece hole in a released state.



General Locating Pin

When making a gap smaller in order to improve locating accuracy, it becomes difficult to load/unload workpieces, causing frequent momentary stops of automated system. Also, wear of the pin lowers locating accuracy.



KOSMEK Locating Pin Clamp

Workpieces do not touch the grippers and are smoothly loaded/unloaded since the grippers are retracted inside the pin at released state.

※1. The gap is 0.2mm for SWP0501-□-080/090-□ (Workpiece Hole Diameter  $\phi$  8/9), and 0.5mm for SWP0501-□-100-□ (Workpiece Hole Diameter  $\phi$  10). Refer to the specifications for further information.

### Locating Pin Clamp

#### SWP

High-Power Welding Swing Clamp

WHG

High-Power Welding Link Clamp

WCG

Air Flow Control Valve

BZW

Manifold Block

WHZ-MD

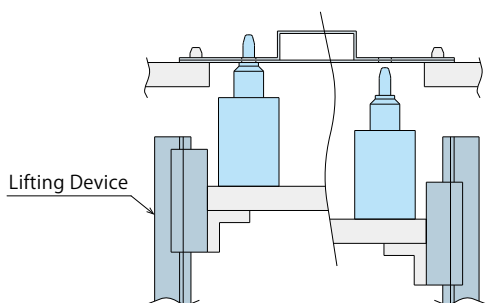
General Cautions

Welding Application Related Products

Die Change System for Press Machines

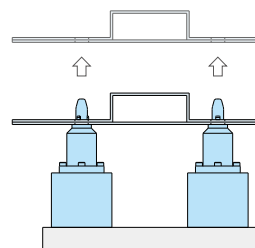
Company Profile Sales Offices

### ● Fixture Cost Reduction



General Locating Pin

Because a gap between a locating pin and a workpiece hole is small, a lifting device may be required to pull out the workpiece stuck by welding distortion.



KOSMEK Locating Pin Clamp

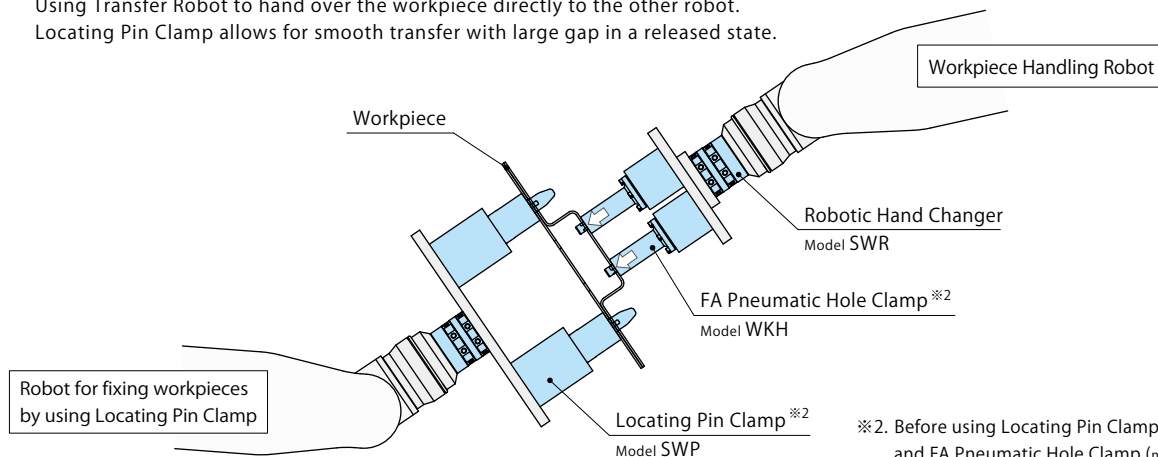
Enables simple and low-cost equipment by smooth loading/unloading due to a large gap between Locating Pin Clamp and a workpiece hole.

### ● Smooth Workpiece Transfer with Expansion Pin Clamp for Dual Robot Systems

Application Example :

Using Transfer Robot to hand over the workpiece directly to the other robot.

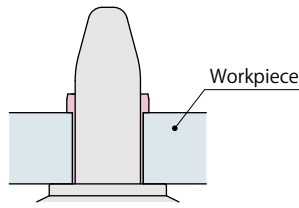
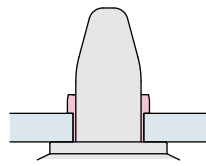
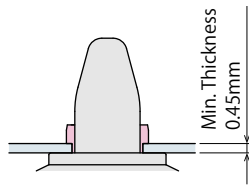
Locating Pin Clamp allows for smooth transfer with large gap in a released state.



※2. Before using Locating Pin Clamp (model SWP) and FA Pneumatic Hole Clamp (model WKH): Make sure to test and ensure that there is no trouble such as workpiece deformation, etc.

**Flexible Fixturing**

**Longer stroke** allows for workpiece thickness variance and flexible fixturing.



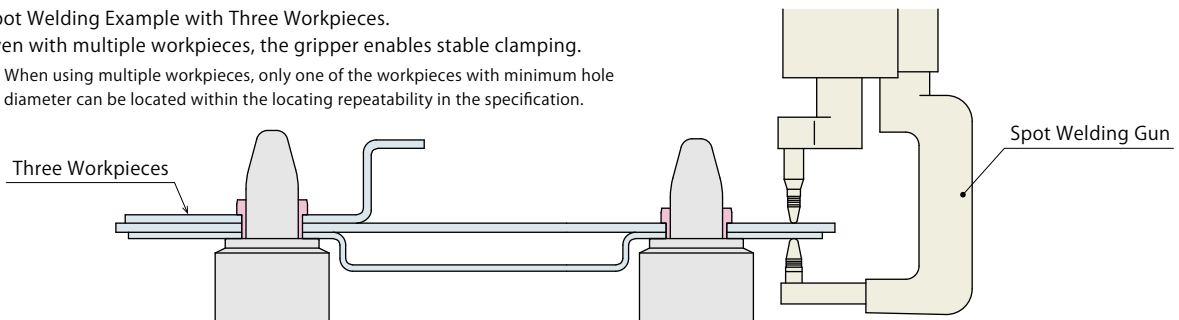
(mm)	
Workpiece Hole Diam.	Lock Stroke
φ 8	2.3
φ 9	3.6
φ 10	5.5
φ 11	6
φ 12	6.5
φ 13	7
φ 14	8.5
φ 15	10
φ 16	10
φ 18	10
φ 20	10

● **Ability to Clamp Multiple Workpieces**

Spot Welding Example with Three Workpieces.

Even with multiple workpieces, the gripper enables stable clamping.

※ When using multiple workpieces, only one of the workpieces with minimum hole diameter can be located within the locating repeatability in the specification.



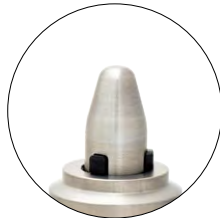
**Anti-Contamination**

Since the gap of clamping part is minimal, it keeps contaminants out even in a locked state. Also equipped with air blow function.

Released State

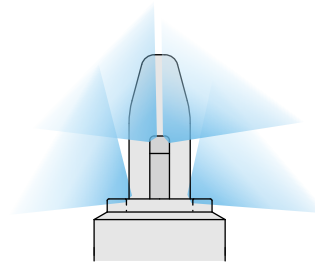


Locked State



**No Gap. Spatter Entering Protection**

The pin itself goes down along with the gripper when locking, so there is hardly any gap at locked state, preventing contaminants.



**Air Blow Function**

Air blow keeps contaminants out.

**Compact•Light**

Short body allows for more compact and lighter applications.

Ex. 1  
SWP0501-D/C-100-□  
(Workpiece Hole Diam. φ 10)



Ex. 2  
SWP1001-D/C-200-□  
(Workpiece Hole Diam. φ 20)

Weight : 700g





**Locating Pin Clamp**
**SWP**

High-Power Welding Swing Clamp

WHG

High-Power Welding Link Clamp

WCG

Air Flow Control Valve

BZW

Manifold Block

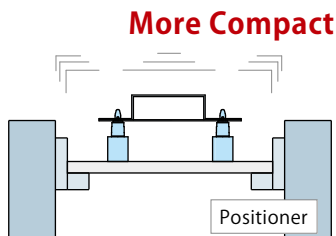
WHZ-MD

General Cautions

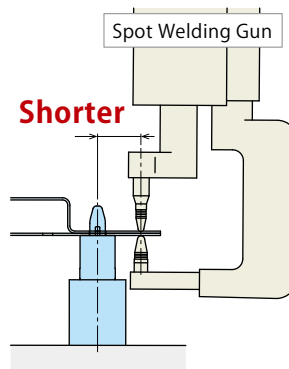
Welding Application Related Products

Die Change System for Press Machines

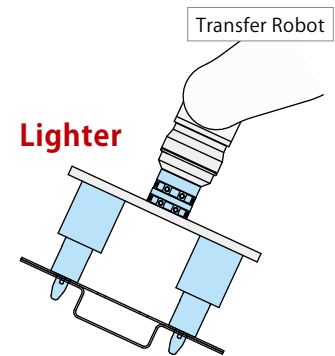
Company Profile Sales Offices


**Less Load to Positioner**

Light fixture with light Locating Pin Clamp reduces load to the positioner.


**High Accessibility of Spot Welding Gun**

Compact Locating Pin Clamp enables high accessibility of spot welding gun to a workpiece hole.


**Compact and Light Transfer Hand**

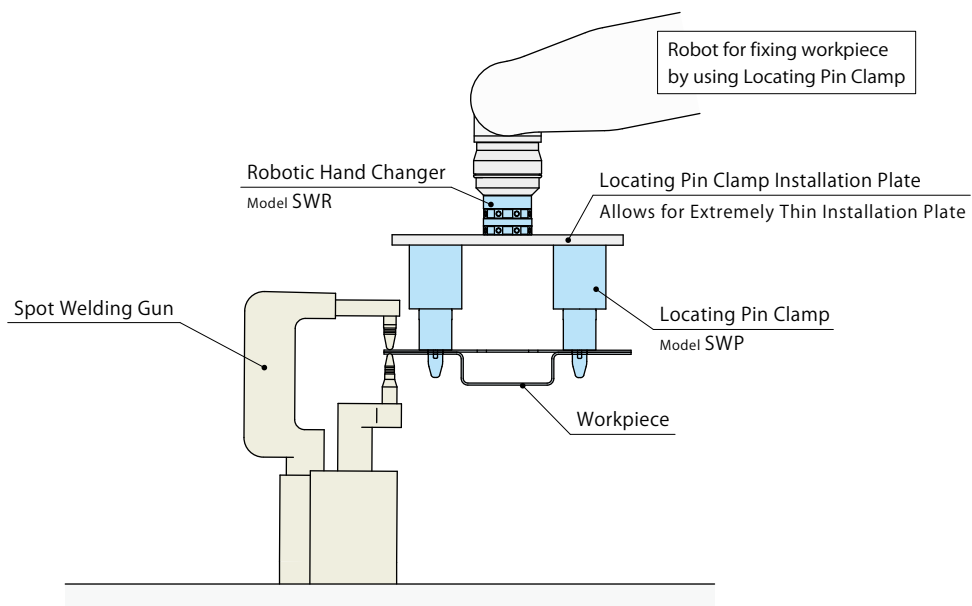
Compact and Light Locating Pin Clamp is also suitable for transferring thin plates.

- **Compact and Light Locating Pin Clamp is also suitable for spot welding with a robot holding a workpiece.**

Application Example for Work Efficiency and Space Saving :

One robot can both transfer and weld by using Locating Pin Clamp as a robotic hand.

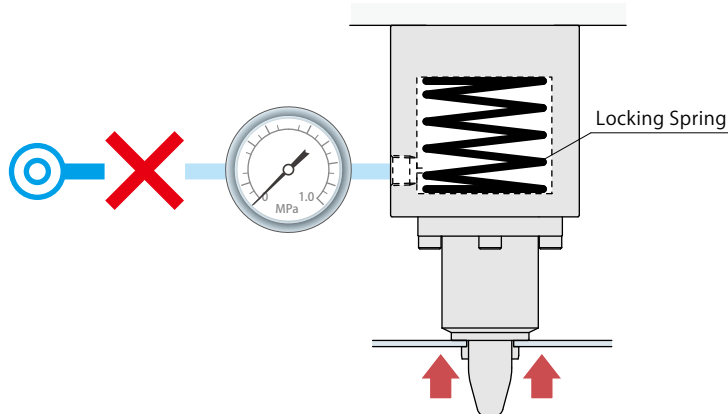
Compact and light body improves operability and reduces a load to the robot.



**Safety Function**

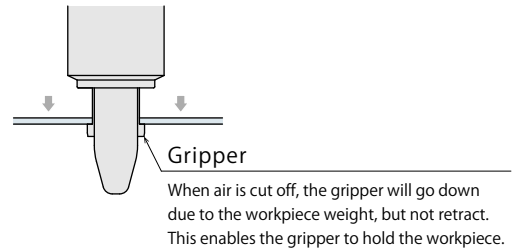
**Built-in locking spring maintains locked state even when air pressure is cut off.**

※ Only for Self-Locking Function Option



**Without Self-Locking Function**

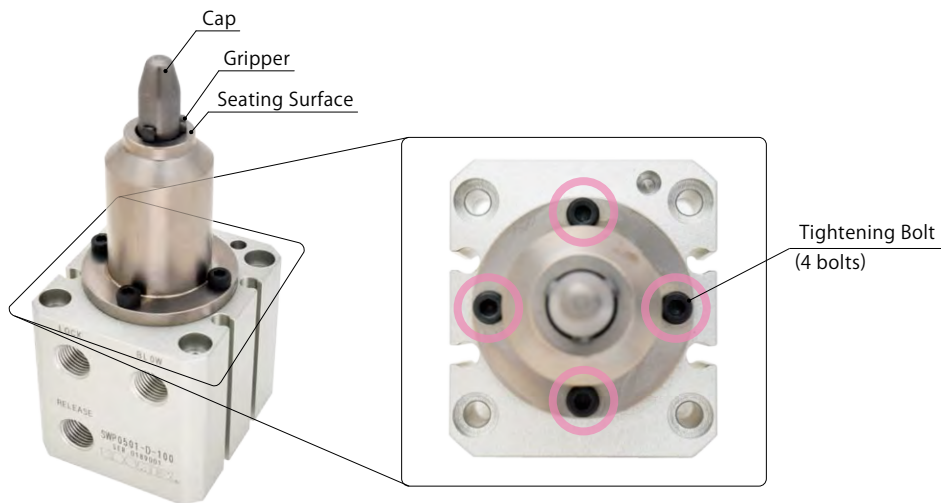
Even when air is cut off, the gripper holds the workpiece to prevent it from falling.



**Maintenance**

**Removable Pin Allows for Simple Maintenance**

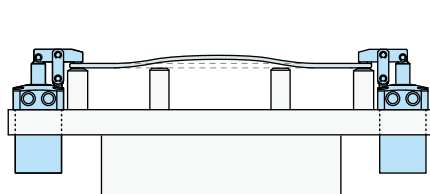
The gripper and cap can be replaced by removing tightening bolts on the seating part. No special tools or hard work are required for maintenance. It also helps customer prepare for replacements.



※ The picture shows in case of functions D/C.

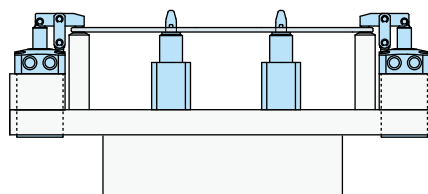
**No Bending**

**Compared to perimeter clamping, Locating Pin Clamp is able to clamp the center of the workpiece without bending.**



**Perimeter Clamping**

Perimeter clamping can be the cause of bending.



**Locating Pin Clamp**

No bending with Locating Pin Clamp by clamping workpiece holes.

## Action Confirmation

Safely used in automation systems with action confirmation of Auto Switch.

### Auto Switch (Prepared by Customer)

Ability to Confirm Lock/Release Actions

Recommended Auto Switch

Magnetic Field Resistant Model : D-P3DWA (made by SMC)  
 JEP Series (made by KOSMEK) ※1 ※2



#### Notes :

※1. Please refer to FA • Industrial Robot Related Catalog (CATALOG No. FA0020□□-□□-GB) for detailed specifications of JEP series.

※2. Please use D-P3DWA (made by SMC) for an environment which generates a magnetic field disturbance.

JEP series cannot be used in such an environment.

1. When using an auto switch not made by Kosmek, check specifications of each manufacture.
2. Auto Switch may be stuck out of the clamp depending on the installation position and direction.

#### Locating Pin Clamp

##### SWP

High-Power Welding Swing Clamp

WHG

High-Power Welding Link Clamp

WCG

Air Flow Control Valve

BZW

Manifold Block

WHZ-MD

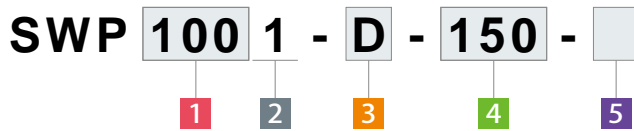
General Cautions

Welding Application Related Products

Die Change System for Press Machines

Company Profile Sales Offices

Model No. Indication



**1 Body Size** ※ Refer to the Specifications, Clamping Force, Expanding Force and External Dimensions for further information.

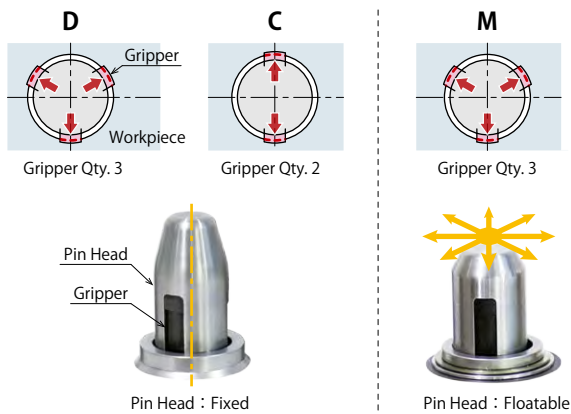
- 050** : Select from Workpiece Hole Diam.  $\phi 8, 9, 10, 11, 12, 13$
- 100** : Select from Workpiece Hole Diam.  $\phi 14, 15, 16, 18, 20$

**2 Design No.**

**1** : Revision Number

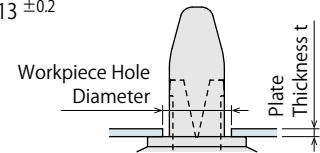
**3 Function**

- D** : Datum (For Datum Locating)
- C** : Cut (For One Direction Locating)
- M** : Pin Head Floating (No Locating Function)



**4 Workpiece Hole Diameter**

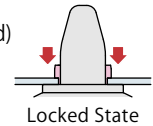
- In case of **1** Body Size **050**
- 080** : Workpiece Hole Diam.  $\phi 8^{+0.2}_{-0.1}$
  - 090** : Workpiece Hole Diam.  $\phi 9^{+0.2}_{-0.1}$
  - 100** : Workpiece Hole Diam.  $\phi 10 \pm 0.2$
  - 110** : Workpiece Hole Diam.  $\phi 11 \pm 0.2$
  - 120** : Workpiece Hole Diam.  $\phi 12 \pm 0.2$
  - 130** : Workpiece Hole Diam.  $\phi 13 \pm 0.2$
- In case of **1** Body Size **100**
- 140** : Workpiece Hole Diam.  $\phi 14 \pm 0.2$
  - 150** : Workpiece Hole Diam.  $\phi 15 \pm 0.2$
  - 160** : Workpiece Hole Diam.  $\phi 16 \pm 0.2$
  - 180** : Workpiece Hole Diam.  $\phi 18 \pm 0.2$
  - 200** : Workpiece Hole Diam.  $\phi 20 \pm 0.2$



4 Workpiece Hole Diam.	080	090	100~200
D	-	○	○
3 Function	○	○	○
M	-	-	○

**5 Self-Locking Function**

- Blank** : With Self-Locking Function (Standard)
- N** : Without Self-Locking Function



※ With self locking function, the clamp is locked at OMPa. The ability of SWP varies depending on this function. Refer to the next page for further information.

Specifications

Model No.	SWP0501	SWP0501	SWP0501	SWP0501	SWP0501	SWP0501	SWP1001	SWP1001	SWP1001	SWP1001	SWP1001	
	-C-080-□	-□-090-□	-□-100-□	-□-110-□	-□-120-□	-□-130-□	-□-140-□	-□-150-□	-□-160-□	-□-180-□	-□-200-□	
Workpiece mm	Hole Diameter	$8^{+0.2}_{-0.1}$	$9^{+0.2}_{-0.1}$	$10 \pm 0.2$	$11 \pm 0.2$	$12 \pm 0.2$	$13 \pm 0.2$	$14 \pm 0.2$	$15 \pm 0.2$	$16 \pm 0.2$	$18 \pm 0.2$	$20 \pm 0.2$
	Thickness t	Min.	0.45									
		Max.	2.3	3.6	5.5	6	6.5	7	8.5	10		
Locating Repeatability ※1	mm	0.05 (when combining <b>3</b> D and <b>C</b> ) ※ In case of <b>4</b> 080: when combining <b>3</b> C and <b>C</b>										
Allowable Offset (Pin Head Floating Amount)	mm	-	$\pm 0.6$ (In case of <b>3</b> M)					$\pm 0.8$ (In case of <b>3</b> M)				
Cylinder Full Stroke	mm	8	9.3	12.1	13.8	14.3	14.8	16.3	17.8			
Lock Stroke	mm	2.3	3.6	5.5	6	6.5	7	8.5	10			
Capacity cm <sup>3</sup>	Lock Side	5.5	6.4	8.4	9.5	9.9	10.2	17.2	18.8			
	Release Side	6.4	7.5	9.7	11.1	11.5	11.9	20.5	22.4			
<b>5 Blank</b>	Max. Operating Pressure	0.5										
	Min. Releasing Pressure	0.2										
<b>5 N</b>	Operating Pressure	0.2 ~ 0.5										
Withstanding Pressure	MPa	0.75										
Usable Fluid		Dry Air										
Recommended Air Blow Pressure	MPa	0.1 ~ 0.2										
Operating Temperature	°C	0 ~ 70										
Weight	g	380					700					

Notes :

※ 1. Locating repeatability under the same condition (no load).

1. This product locks and releases with air pressure.

2. When using with other clamps, make sure this product operates first by sequence control of a circuit.

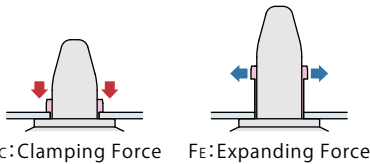
## Clamping Force • Expanding Force

(N)

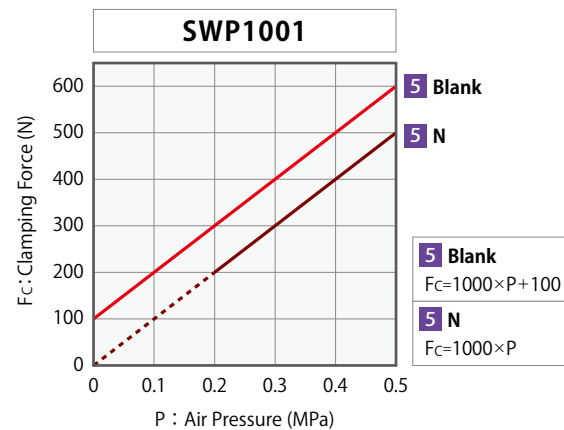
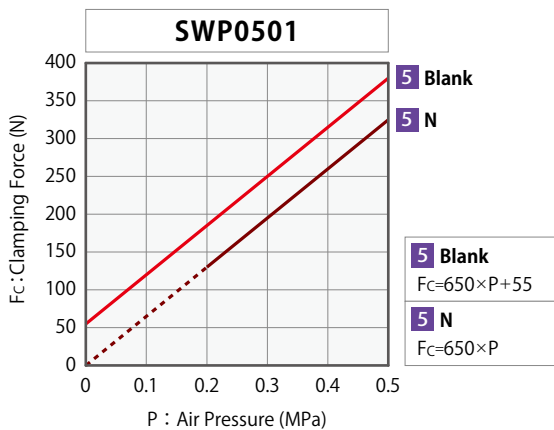
Model No.	SWP0501		SWP1001		
	5 Blank: With Self-Locking	5 N: Without Self-Locking	5 Blank: With Self-Locking	5 N: Without Self-Locking	
Clamping Force ※2 ※3	Air Pressure 0.5 MPa	380	325	600	500
	Air Pressure 0.4 MPa	315	260	500	400
	Air Pressure 0.3 MPa	250	195	400	300
	Air Pressure 0 MPa	55	-	100	-
	Calculated Value ※5	$F_c=650 \times P+55$	$F_c=650 \times P$	$F_c=1000 \times P+100$	$F_c=1000 \times P$
Expanding Force ※4	Air Pressure 0.5 MPa	1015	880	1600	1330
	Air Pressure 0.4 MPa	840	700	1330	1060
	Air Pressure 0.3 MPa	670	530	1060	800
	Air Pressure 0 MPa	145	-	260	-
	Calculated Value ※5	$F_E=1740 \times P+145$	$F_E=1760 \times P$	$F_E=2680 \times P+260$	$F_E=2660 \times P$

### Notes :

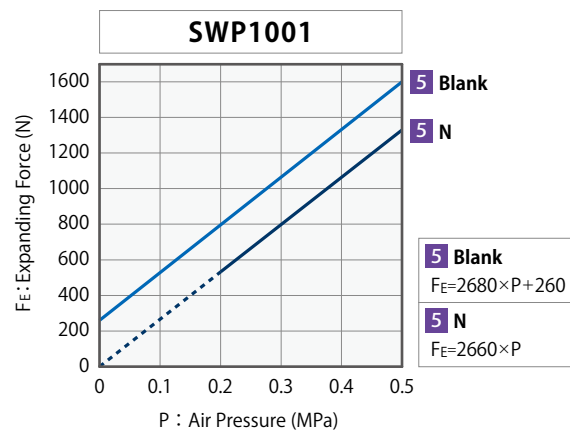
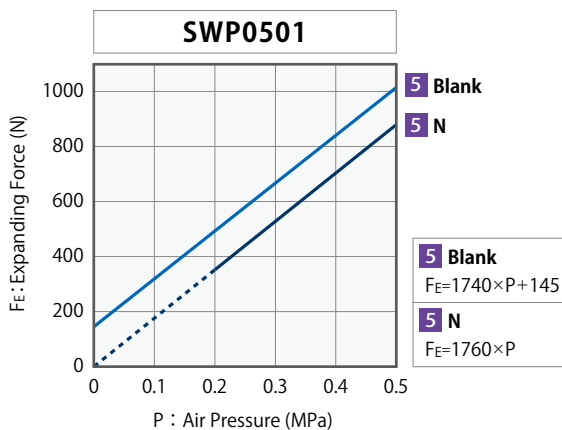
- ※2. Clamping force shows the pressing force against the seating surface.  
The values in the table shows the calculated value when the workpiece thickness t is 0.45mm.
- ※3. When supplying air pressure to the air blow port, a clamping force may decrease due to internal pressure.
- ※4. Expanding force shows the force acting perpendicular to the pin's center axis.  
Expanding force shows the calculated value when the friction coefficient is  $\mu$  0.15.
- ※5.  $F_c$ : Clamping Force (N),  $F_E$ : Expanding Force (N), P: Air Pressure (MPa)
  1. Depending on the material, thickness and chamfer shape of a workpiece hole, it can be deformed by clamping action, and the specifications will not be satisfied. Make sure to test clamping beforehand and adjust pressure accordingly.



## Clamping Force Curve



## Expanding Force Curve



Locating Pin Clamp

SWP

High-Power Welding Swing Clamp

WHG

High-Power Welding Link Clamp

WCG

Air Flow Control Valve

BZW

Manifold Block

WHZ-MD

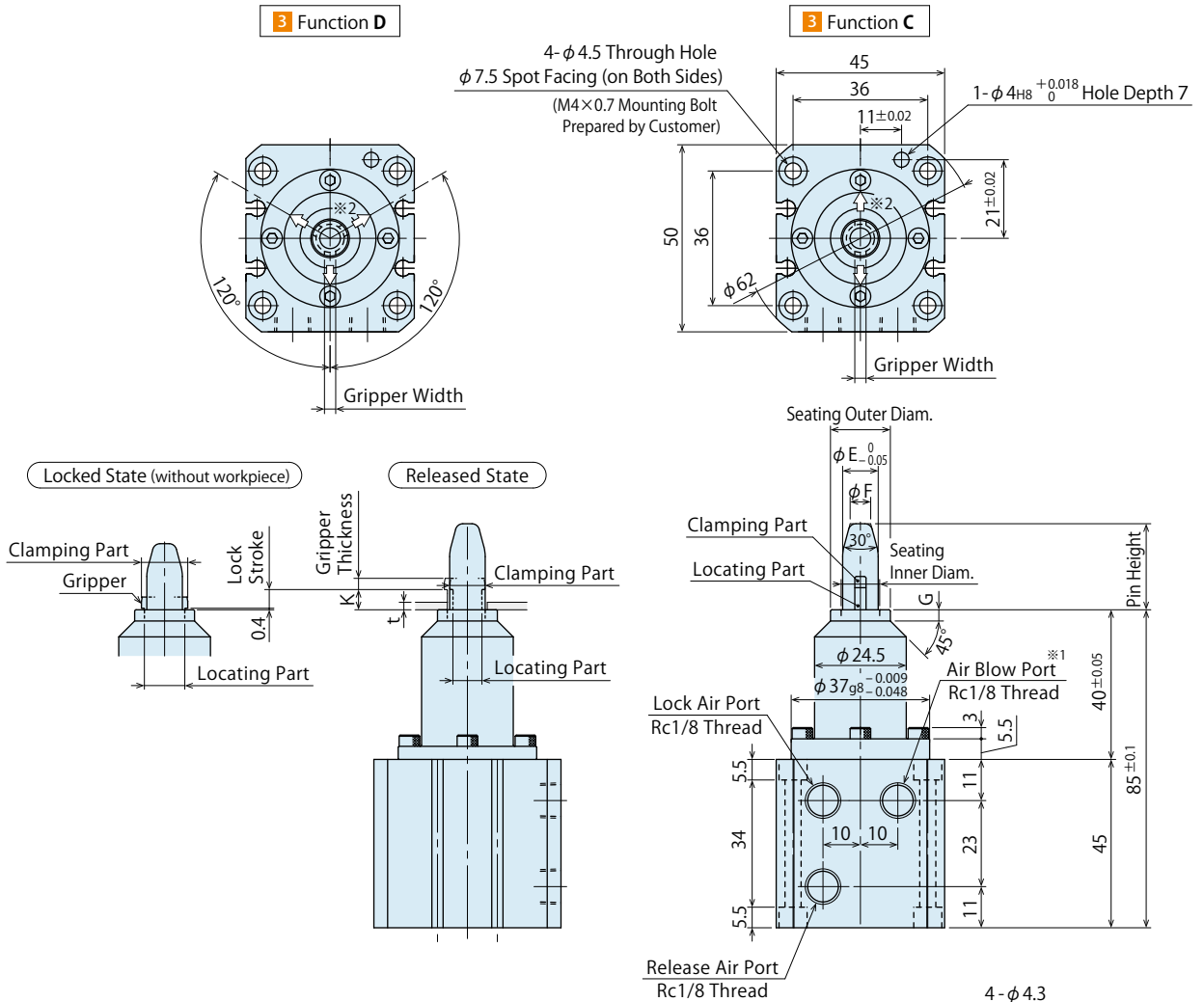
General Cautions

Welding Application Related Products

Die Change System for Press Machines

Company Profile Sales Offices

External Dimensions : SWP0501-D/C ※ This drawing shows the released state of SWP0501-D/C.



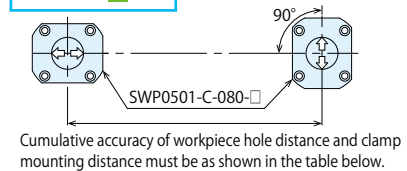
External Dimension List : SWP0501-D/C (mm)

Model No.	SWP0501 -C-080-□	SWP0501 -D/C-090-□	SWP0501 -D/C-100-□	SWP0501 -D/C-110-□	SWP0501 -D/C-120-□	SWP0501 -D/C-130-□	
Workpiece	Hole Diameter	8 <sup>+0.2</sup> <sub>-0.1</sub>	9 <sup>+0.2</sup> <sub>-0.1</sub>	10±0.2	11±0.2	12±0.2	13±0.2
	Thickness t	0.45					
Pin Height	Min.	2.3	3.6	5.5	6	6.5	7
	Max.	2.3	3.6	5.5	6	6.5	7
Pin Outer Diam. E	7.8	8.8	9.5	10	11	12	
Pin End Diam. F	4.5	5.5	5.5	6	7	8	
Clamping Part	At Released	7.7	8.7	9.3	9.8	10.8	11.8
	At Locked without workpiece	9.8	10.8	11.8	12.8	13.8	14.8
Locating Part	At Released	6.1	7.1	7.7	8.2	9.2	10.2
	At Locked without workpiece	8.2	9.2	10.2	11.2	12.2	13.2
Gripper Width	Function D	-	3	3	3.5	3.5	3.5
	Function C	3	3	3.5	3.5	3.5	3.5
Gripper Thickness	2	2	3	3	3	3	
Released Height K	2.7	4	5.9	6.4	6.9	7.4	
Seating Inner Diam.	8.3	9.3	10.3	11.3	12.3	13.3	
Seating Outer Diam.	15	15.5	16	17	18	19	
Seating Part G	2.5	2.5	3	3	3	3	
Lock Stroke	2.3	3.6	5.5	6	6.5	7	

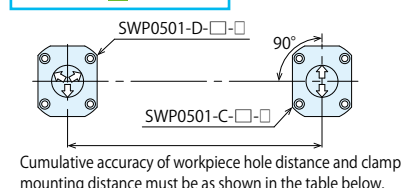
Notes :

- ※1. Continuously supply air pressure to the air blow port.
- ※2. The arrow ⇨ in the drawing shows expanding direction of grippers.  
Since the clamping part is not a floating structure, when clamping a workpiece with two of these products, consider distance accuracy and use them with arrangement shown in the drawing on the right. With out-of-specification distance accuracy, workpiece will interfere with the guide part causing damages.

In case of 4 080



In case of 4 090 ~ 130



4 Hole Diam.	Distance Accuracy
080~090	±0.05mm or better
100	±0.15mm or better
110~130	±0.40mm or better

External Dimensions : SWP0501-M ※ This drawing shows the released state of SWP0501-M.

Locating Pin Clamp

SWP

High-Power Welding Swing Clamp  
WHG

High-Power Welding Link Clamp  
WCG

Air Flow Control Valve  
BZW

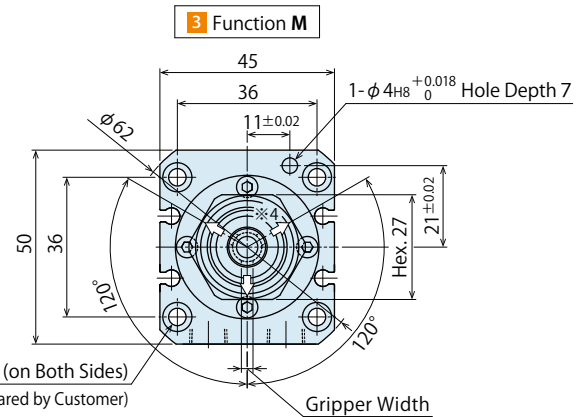
Manifold Block  
WHZ-MD

General Cautions

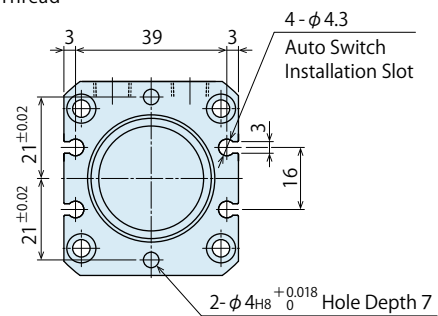
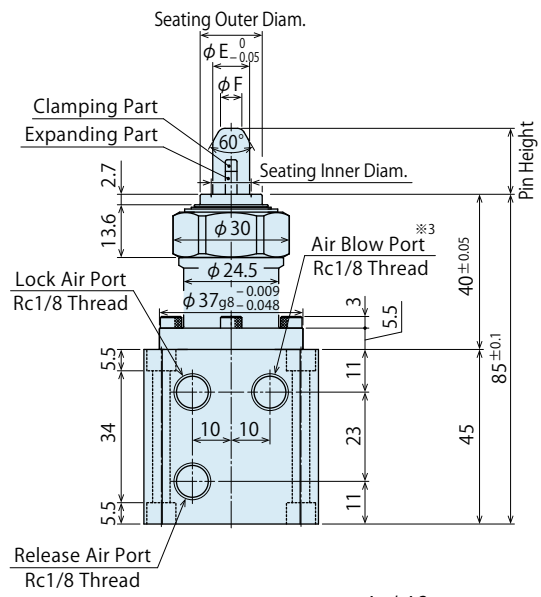
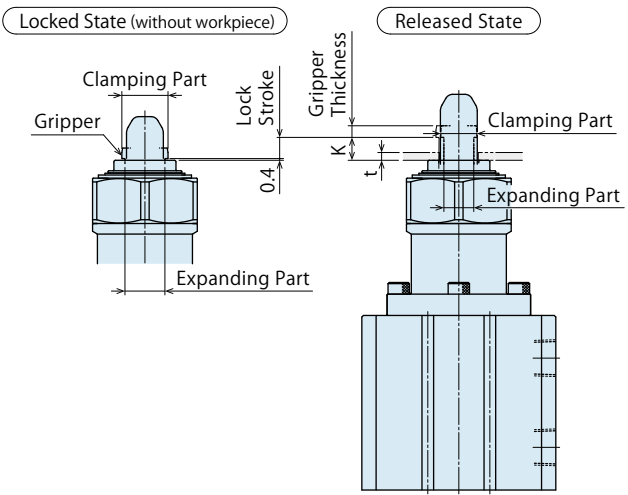
Welding Application Related Products

Die Change System for Press Machines

Company Profile Sales Offices



4-φ4.5 Through Hole φ7.5 Spot Facing (on Both Sides)  
(M4×0.7 Mounting Bolt Prepared by Customer)

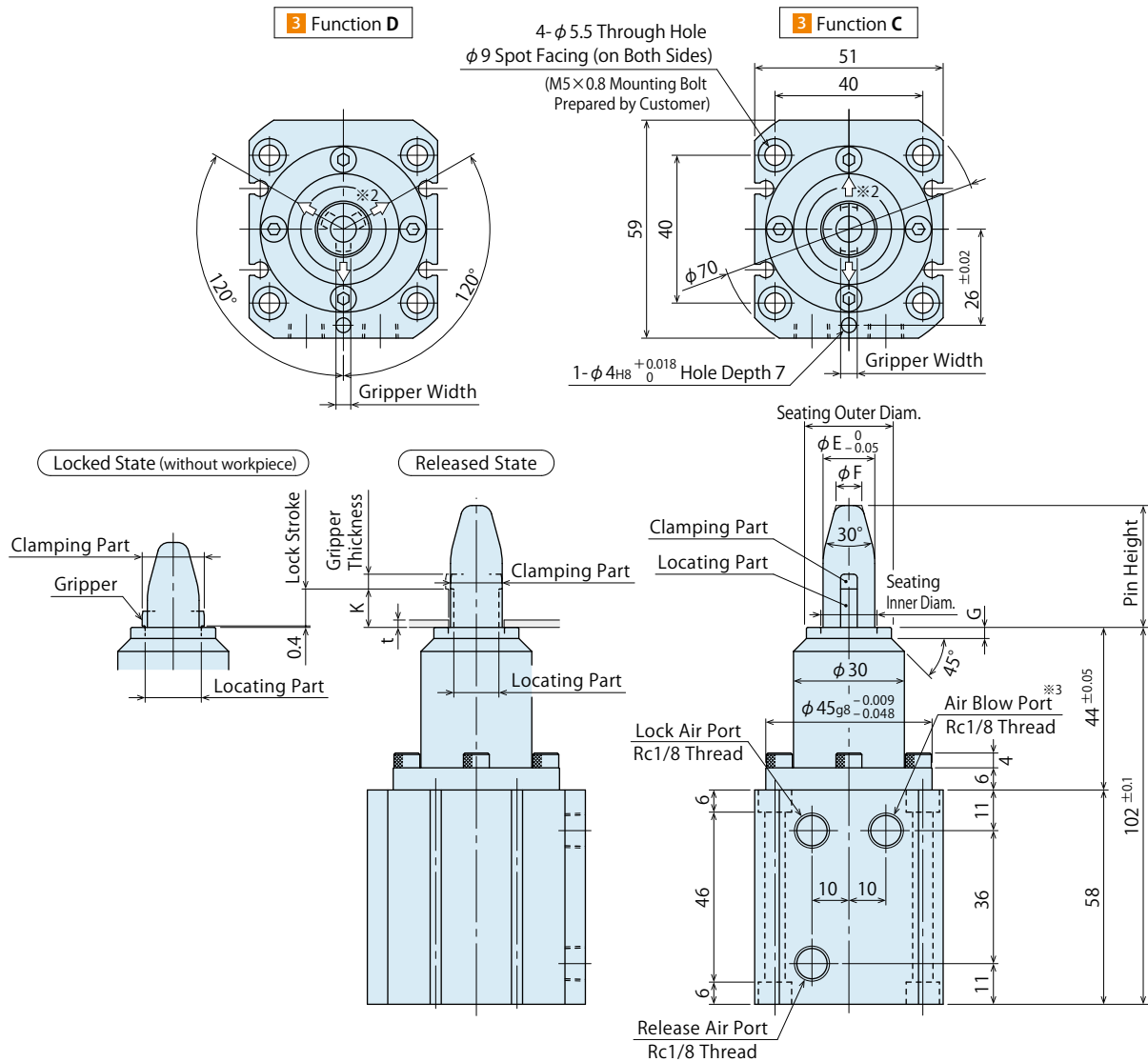


External Dimension List : SWP0501-M (mm)

Model No.	SWP0501-M-100-□	SWP0501-M-110-□	SWP0501-M-120-□	SWP0501-M-130-□	
Workpiece	Hole Diameter	10 ±0.2	11 ±0.2	12 ±0.2	13 ±0.2
	Thickness t	0.45			
Pin Height	Min.	5.5	6	6.5	7
	Max.	5.5	6	6.5	7
Pin Height		17	19	19.5	20
Pin Outer Diam. E		9.5	10	11	12
Pin End Diam. F		5.5	6	7	8
Clamping Part	At Released	9.3	9.8	10.8	11.8
	At Locked <small>without workpiece</small>	11.8	12.8	13.8	14.8
Locating Part	At Released	7.7	8.2	9.2	10.2
	At Locked <small>without workpiece</small>	10.2	11.2	12.2	13.2
Gripper Width		3	3.5	3.5	3.5
Gripper Thickness		3	3	3	3
Released Height K		5.9	6.4	6.9	7.4
Seating Inner Diam.		10.3	11.3	12.3	13.3
Seating Outer Diam.		16	17	18	19
Lock Stroke		5.5	6	6.5	7

Notes :  
 ※3. Continuously supply air pressure to the air blow port.  
 ※4. The arrow ⇨ in the drawing shows expanding direction of grippers.

External Dimensions : SWP1001-D/C ※ This drawing shows the released state of SWP1001-D/C.



External Dimension List : SWP1001-D/C (mm)

Model No.	SWP1001 -D/C-140-□		SWP1001 -D/C-150-□		SWP1001 -D/C-160-□		SWP1001 -D/C-180-□		SWP1001 -D/C-200-□	
	Hole Diameter	14 ±0.2	15 ±0.2	16 ±0.2	18 ±0.2	20 ±0.2				
Workpiece	Thickness	0.45								
	t	Min.	8.5		10					
Pin Height		31	33	33	33	33				
Pin Outer Diam. E		13	14	15	17	19				
Pin End Diam. F		7	7	8	10	12				
Clamping Part	At Released	12.8	13.8	14.8	16.8	18.8				
	At Locked <small>without workpiece</small>	15.8	16.8	17.8	19.8	21.8				
Locating Part	At Released	11.2	12.2	13.2	15.2	17.2				
	At Locked <small>without workpiece</small>	14.2	15.2	16.2	18.2	20.2				
Gripper	Function D	4	4	4.5	5.5	5.5				
Width	Function C	4	4.5	4.5	5.5	5.5				
Gripper Thickness		3.5	4	4	4	4				
Released Height K		8.9	10.4	10.4	10.4	10.4				
Seating Inner Diam.		14.3	15.3	16.3	18.3	20.3				
Seating Outer Diam.		22	23	24	25	27				
Seating Part G		3	3	3	4	4				
Lock Stroke		8.5	10	10	10	10				

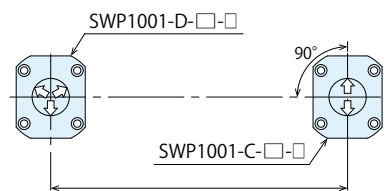
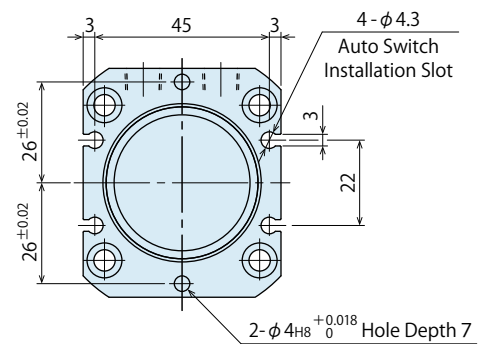
Notes :

※1. Continuously supply air pressure to the air blow port.

※2. The arrow ⇨ in the drawing shows expanding direction of grippers.

Since the clamping part is not a floating structure, when clamping a workpiece with two of these products, use them within ±0.4mm of distance accuracy and with arrangement shown in the drawing.

With out-of specification distance accuracy, workpiece will interfere with the guide part causing damages.

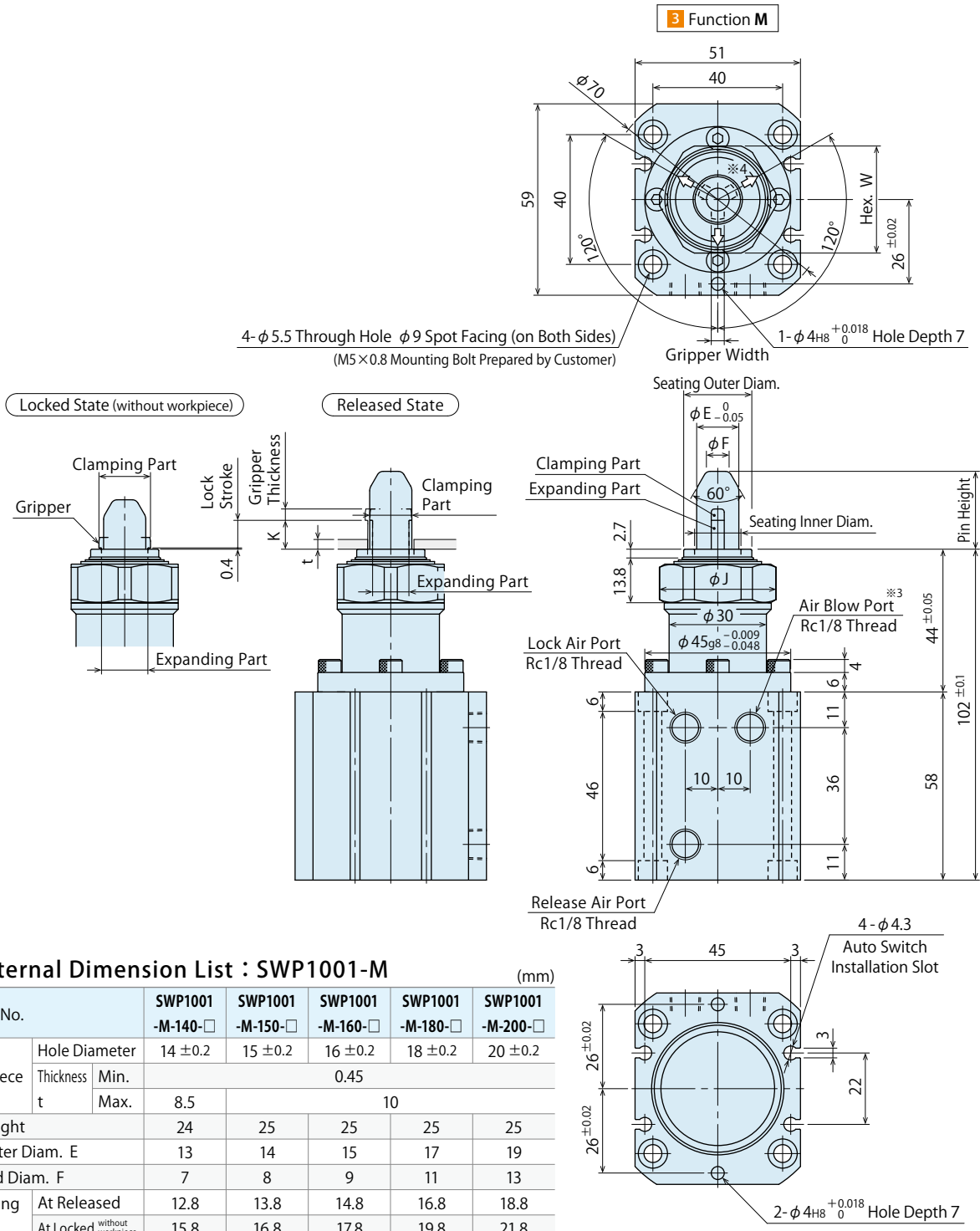


Cumulative accuracy of workpiece hole distance and clamp mounting distance must be ±0.4mm or better.



**External Dimensions : SWP1001-M** ※ This drawing shows the released state of SWP1001-M.

Locating Pin Clamp
SWP
High-Power Welding Swing Clamp
WHG
High-Power Welding Link Clamp
WCG
Air Flow Control Valve
BZW
Manifold Block
WHZ-MD
General Cautions
Welding Application Related Products
Die Change System for Press Machines
Company Profile Sales Offices



**External Dimension List : SWP1001-M** (mm)

Model No.	SWP1001 -M-140-□	SWP1001 -M-150-□	SWP1001 -M-160-□	SWP1001 -M-180-□	SWP1001 -M-200-□	
Hole Diameter	14 ±0.2	15 ±0.2	16 ±0.2	18 ±0.2	20 ±0.2	
Workpiece	Thickness	0.45				
	Min. t	8.5				
	Max. t	10				
Pin Height	24	25	25	25	25	
Pin Outer Diam. E	13	14	15	17	19	
Pin End Diam. F	7	8	9	11	13	
Clamping Part	At Released	12.8	13.8	14.8	16.8	18.8
	At Locked without workpiece	15.8	16.8	17.8	19.8	21.8
Locating Part	At Released	11.2	12.2	13.2	15.2	17.2
	At Locked without workpiece	14.2	15.2	16.2	18.2	20.2
Gripper Width	4	4	4.5	5.5	5.5	
Gripper Thickness	3.5	4	4	4	4	
Released Height K	8.9	10.4	10.4	10.4	10.4	
Seating Inner Diam.	14.3	15.3	16.3	18.3	20.3	
Seating Outer Diam.	21	21	22	25	26	
Hex. W (Outer Diam. φJ)	33 (φ36)	33 (φ36)	33 (φ36)	35 (φ38)	35 (φ38)	
Lock Stroke	8.5	10	10	10	10	

Notes :

- ※3. Continuously supply air pressure to the air blow port.
- ※4. The arrow ⇨ in the drawing shows expanding direction of grippers.

● Accessory : Shim Set

A set of shims for level adjustment of the seating surface.

● Model No. Indication

**SWPZ** **100** **1** - **S**

1    2

**1** Body Size

**050** : For SWP050

**100** : For SWP100

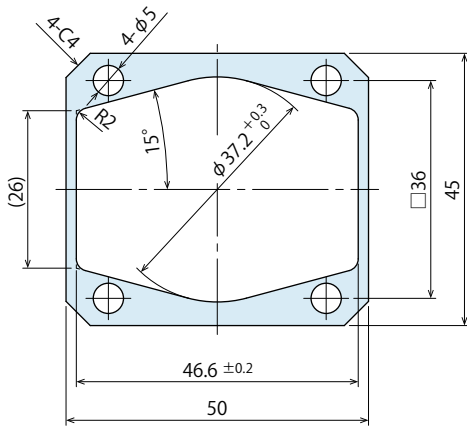
**2** Design No.

**1** : Revision Number

● External Dimensions

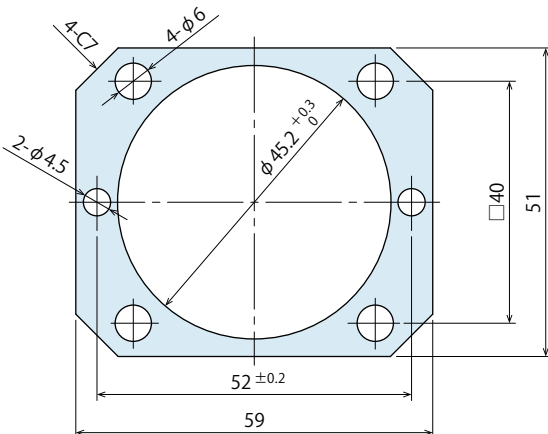
**SWPZ0501-S**

Contents 2 of 0.5mm-thick shims, 2 of 1.0mm-thick shims



**SWPZ1001-S**

Contents 2 of 0.5mm-thick shims, 2 of 1.0mm-thick shims



Note :

1. Material : SUS304

## Cautions

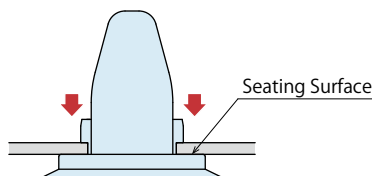
### Notes for Design

#### 1) Check Specifications

- Please use each product according to the specifications.
- This product is an air double-acting clamp which locks and releases with air pressure. In case of Self-Locking Function Option, the clamp will be locked by spring force when release air pressure is released.

#### 2) Reference Surface (Seating Surface) towards Z-axis

- This product has the seating surface for workpiece and locates in Z direction.



#### 3) Clamping Force and Expanding Force

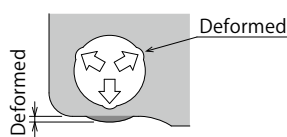
- Clamping force shows the pressing force against the seating surface, and expanding force shows the gripping force generated inside workpiece hole.

Make sure to test clamping and adjust pressure accordingly. Insufficient clamping force and/or expanding force leads to locking malfunctions and accuracy failure.

#### 4) Wall Thickness around Workpiece Hole

- Thin wall around the workpiece hole could be deformed by locking action, and clamping force and/or locating repeatability will not fill the specification.

Please test clamping and adjust pressure accordingly before use.



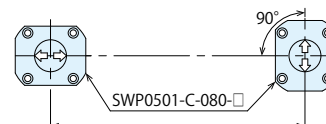
#### 5) Workpiece hole size and thickness should be within the range of the specification.

When workpiece hole diameter is larger than specification.	Expansion stroke is insufficient leading to accuracy failure and locking malfunction.
When using it with insufficient clamping force.	Leads to locking malfunction.
When workpiece hole diameter is smaller than specification.	Difficult to attach/detach the workpiece leading to damage.
Workpiece is thin.	Leads to locking malfunction.
Workpiece is thick.	Leads to locking malfunction.

#### 6) Installation of the Clamp

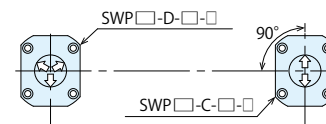
- The arrow ⇨ in the drawing shows expanding direction of grippers. Since the clamping part of Function D (Datum) / C (Cut) does not have a floating structure, when clamping a workpiece with two of these products, consider distance accuracy and use them with arrangement shown in the drawing below. With out-of specification distance accuracy, workpiece will interfere with the guide part causing damages. Please use Function M (Floating) when using more than three of these products.

#### In case of Workpiece Hole Diam. 080: $\phi 8$



Cumulative accuracy of workpiece hole distance and clamp mounting distance must be as shown in the table below.

#### In case of Workpiece Hole Diam. 090 ~ 200: $\phi 9 \sim 20$

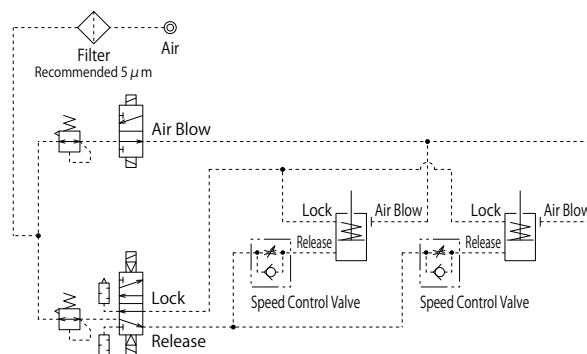


Cumulative accuracy of workpiece hole distance and clamp mounting distance must be as shown in the table below.

Hole Diam.	Distance Accuracy
080~090	$\pm 0.05\text{mm}$ or better
100	$\pm 0.15\text{mm}$ or better
110~200	$\pm 0.40\text{mm}$ or better

#### 7) Refer to the drawing below for air circuit.

- Excessive locking action speed leads to possible damage to the grippers and internal parts. Adjust the flow control valve with check valve (meter-out) to set the locking action time at 0.5 ~ 1 sec. When using two Locating Pin Clamps for locating a workpiece, adjust the action procedure so that Function D (Datum) is locked before Function C (Cut). Function M (Floating) should be locked after locating is completed.



#### 8) Fall Prevention Measures

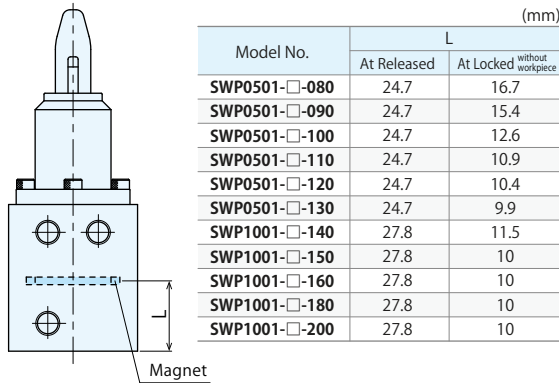
- When using for transfer, etc., please prepare fall prevention measures for safety in case of an accident such as detachment of a workpiece.

**Cautions**

● Notes for Design

9) For Use of Auto Switch

- Magnet is built in the cylinder of this product, so the clamp action can be detected by auto switch. Refer to the following for the position of the built-in magnet.



Select an auto switch depending on the environment.  
 Recommended Auto Switch : JEP0000 (made by KOSMEK)  
 Please use D-P3DWA (made by SMC) for an environment which generates a magnetic field disturbance.  
 An auto switch may be stuck out of the clamp depending on the installation position and direction.  
 The auto switch detection part (magnet) is interlocked with the piston movement, so it does not detect the gripper movement.

10) Continuously supply air pressure to the air blow port.

- When using under environment with cutting chips, air blow is recommended in order to prevent spatter.  
 When supplying air pressure to the air blow port, clamping force may decrease due to internal pressure.

11) All clamps must be fully released before loading and unloading a workpiece.

- When a workpiece is loaded and unloaded during lock or release operation, it will lead to damage of clamp or fall of workpiece.

● Installation Notes

1) Check the fluid to use.

- Please supply filtered clean dry air. Also, install the drain removing device such as aftercooler, air dryer, etc.
- Oil supply with a lubricator, etc. is unnecessary. Oil supply with a lubricator may cause loss of the initial lubricant. The operation under low pressure and low speed may be unstable. (When using secondary lubricant, please supply lubricant continuously. Otherwise, the initial grease applied from KOSMEK will be removed from the secondary lubricant.)

2) Preparation for Piping

- The pipeline, piping connector and fixture circuits should be cleaned and flushed thoroughly. The dust and cutting chips in the circuit can lead to fluid leakage and malfunction.
- There is no filter provided with this product to prevent contamination in the circuit.

3) Applying Sealing Tape

- Wrap with tape 1 to 2 times following the screwing direction.
- Pieces of the sealing tape can lead to air leakage and malfunction.
- In order to prevent contamination during the piping work, it should be carefully cleaned before working.

4) Mounting Locating Pin Clamp

- When mounting the product use four hexagonal socket bolts (with tensile strength of 12.9 or more) and tighten them with the torque shown in the table below. Tightening with greater torque than recommended can dent the seating surface or break the bolt.

Model No.	Tightening Bolt Size	Tightening Torque (N·m)
SWP0501	M4×0.7	3.2
SWP1001	M5×0.8	6.3

5) Port Position of Locating Pin Clamp

- The name of each port is marked on the flange surface. Be careful with the mounting direction of piping.  
 LOCK : Air Lock Port  
 RELEASE : Air Release Port  
 BLOW : Air Blow Port

6) It is recommended to use air piping with outer diameter φ6 (inner diameter φ4) or larger for air blow.

7) Level Adjustment of the Seating Surface

If requiring level adjustment of the seating surface, use a shim set for level adjustment (sold separately).

### Applicable Model

Manifold Block Model No.	Corresponding Item Model No.
Model <b>WHZ-MD</b>	Model <b>WCG</b> Model <b>WHG</b>

Locating Pin Clamp

SWP

High-Power Welding Swing Clamp

WHG

High-Power Welding Link Clamp

WCG

Air Flow Control Valve

BZW

**Manifold Block**

**WHZ-MD**

General Cautions

Welding Application Related Products

Die Change System for Press Machines

Company Profile Sales Offices

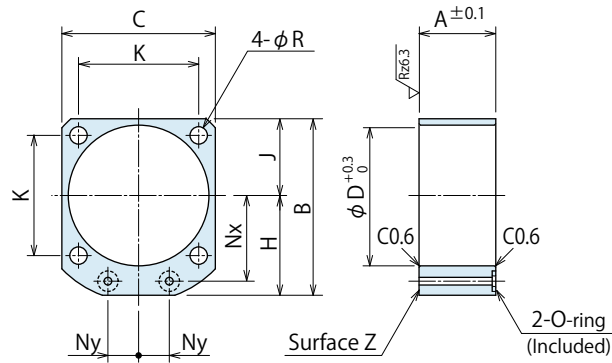
### Manifold Block for WCG/WHG

Model No. Indication

**WHZ 048 0 - MD**

Size  
(Refer to following table)

Design No.  
(Revision Number)



(mm)

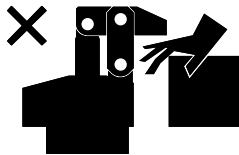
Model No.	WHZ0320-MD	WHZ0400-MD	WHZ0500-MD	WHZ0630-MD
Corresponding Item Model Number	WCG1000 WHG1000	WCG1600 WHG1600	WCG2500 WHG2500	WCG4000 WHG4000
A	25	27	31	35
B	60	67	77	88.5
C	50	58	68	81
D	46	54	64	77
H	35	38	43	48
J	25	29	34	40.5
K	39	45	53	65
Nx	28	31	36	41
Ny	10	13	15	20
R	5.5	5.5	6.5	6.5
O-ring	1BP7	1BP7	1BP7	1BP7
Weight kg	0.1	0.1	0.2	0.2

- Notes :
1. Material: A2017BE-T4
  2. Mounting bolts are not provided. Prepare mounting bolts according to the mounting height using the dimension A as a reference.
  3. If thickness other than A is required, perform additional machining on surface Z. Please refer to the drawing.

## ⓘ Cautions

### ● Notes on Handling

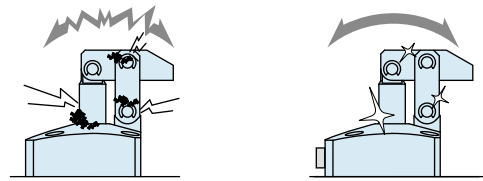
- 1) It should be operated by qualified personnel.
  - Hydraulic and/or pneumatic machines and devices should be operated and maintained by qualified personnel.
- 2) Do not operate or remove the product unless the safety protocols are ensured.
  - ① The machine and equipment can only be inspected or prepared when it is confirmed that the safety devices are in place.
  - ② Before removing the product, make sure that the above-mentioned safety devices are in place. Shut off the pressure and power source, and make sure no pressure exists in the air circuits.
  - ③ After stopping the product, do not remove until the temperature drops.
  - ④ Make sure there is no trouble/issue in the bolts and respective parts before restarting the machine or equipment.
- 3) Do not touch the clamp (cylinder) while it is working. Otherwise, your hands may be injured.



- 4) Do not disassemble or modify.
  - If the product is taken apart or modified, the warranty will be voided even within the warranty period.

### ● Maintenance and Inspection

- 1) Removal of the Product and Shut-off of Pressure Source
  - Before removing the product, make sure that safety devices and preventive devices are in place. Shut off the pressure and power source, and make sure no pressure exists in the air and hydraulic circuits.
  - Make sure there is no abnormality in the bolts and respective parts before restarting.
- 2) Regularly clean the area around the piston rod.
  - If it is used when the surface is contaminated with dirt, it may lead to packing seal damage, malfunctioning and fluid leakage.



- 3) Regularly tighten pipes, mounting bolts, nuts, snap rings, cylinders and others to ensure proper use.
- 4) Make sure there is a smooth action without an irregular noise.
  - Especially when it is restarted after left unused for a long period, make sure it can be operated correctly.
- 5) The products should be stored in the cool and dark place without direct sunshine or moisture.
- 6) Please contact us for overhaul and repair.

## ● Warranty

### 1) Warranty Period

- The product warranty period is 18 months from shipment from our factory or 12 months from initial use, whichever is earlier.

### 2) Warranty Scope

- If the product is damaged or malfunctions during the warranty period due to faulty design, materials or workmanship, we will replace or repair the defective part at our expense. Defects or failures caused by the following are not covered.
  - ① If the stipulated maintenance and inspection are not carried out.
  - ② Failure caused by the use of the non-confirming state at the user's discretion.
  - ③ If it is used or handled in inappropriate way by the operator. (Including damage caused by the misconduct of the third party.)
  - ④ If the defect is caused by reasons other than our responsibility.
  - ⑤ If repair or modifications are carried out by anyone other than Kosmek, or without our approval and confirmation, it will void warranty.
  - ⑥ Other caused by natural disasters or calamities not attributable to our company.
  - ⑦ Parts or replacement expenses due to parts consumption and deterioration. (Such as rubber, plastic, seal material and some electric components.)

Damages excluding from direct result of a product defect shall be excluded from the warranty.

Locating  
Pin Clamp

SWP

High-Power  
Welding  
Swing Clamp

WHG

High-Power  
Welding  
Link Clamp

WCG

Air Flow  
Control Valve

BZW

Manifold Block

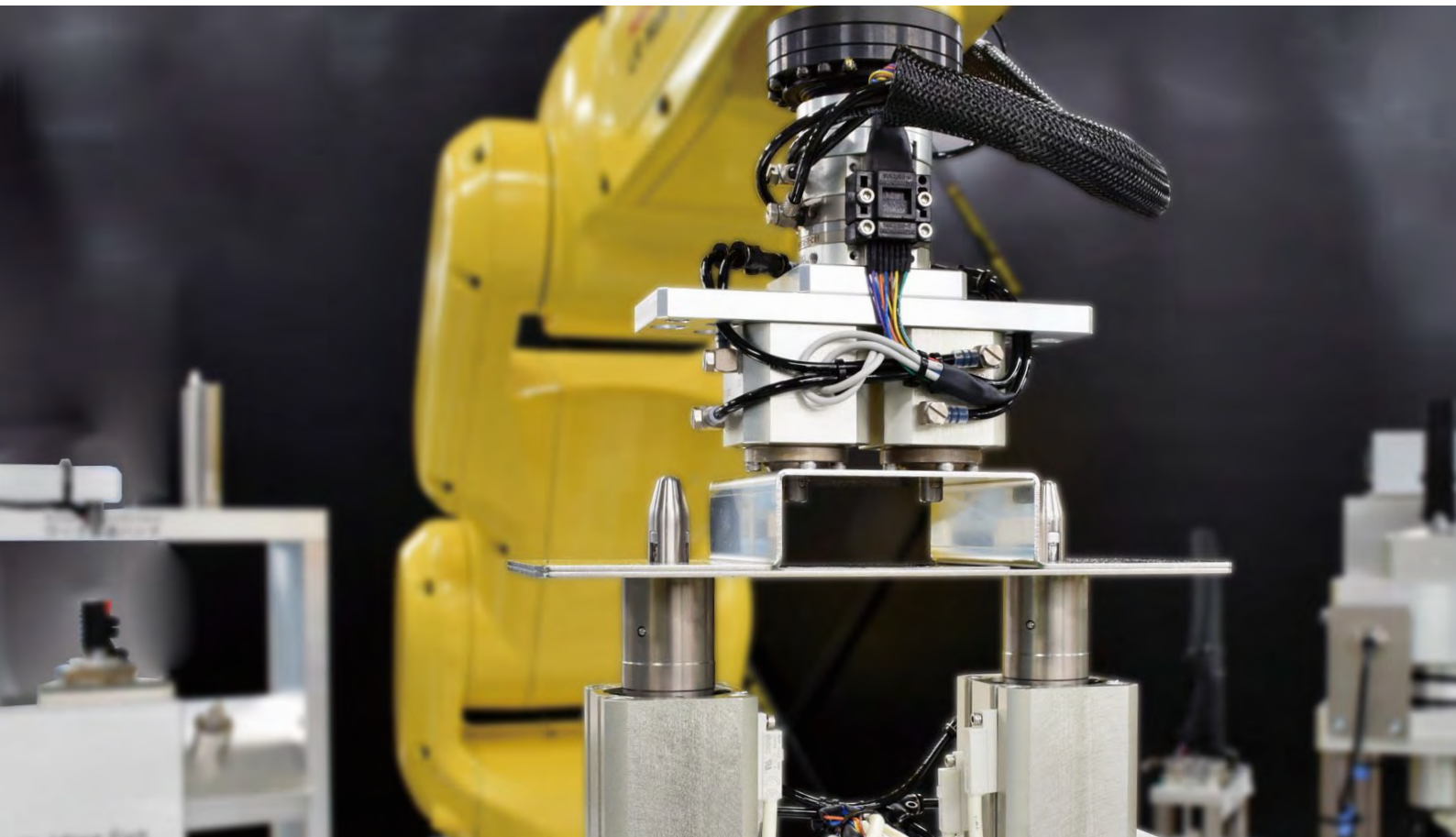
WHZ-MD

#### General Cautions

Welding Application  
Related Products

Die Change System  
for Press Machines

Company Profile  
Sales Offices



# Introducing Kosmek



Robotic Hand Changer

► P.65

Robotic Hand Series

► P.69



Work Support

► P.72





# Welding Products



High Accuracy Locating • Clamping

▶ P.73

Auto Coupler

▶ P.74



**FA • Industrial Robot Related Product Catalog**

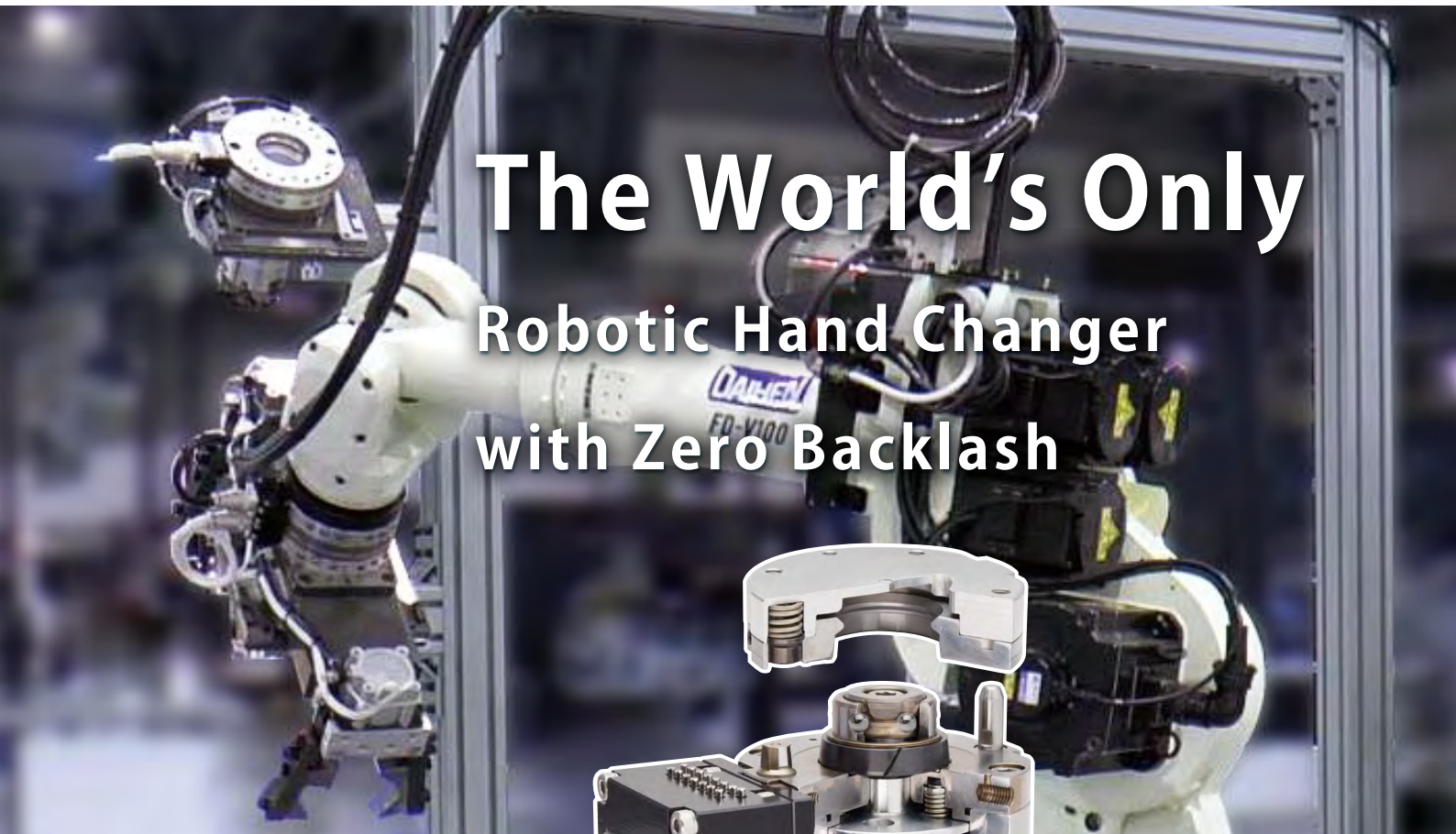
Please find further information on our complete catalog.

You can order from our website (<http://www.kosmek.co.jp/english/>).

Scan the QR code for  
Catalog Request and Inquiry



[http://www.kosmek.co.jp/php\\_file/inquiry.php?lang=2](http://www.kosmek.co.jp/php_file/inquiry.php?lang=2)

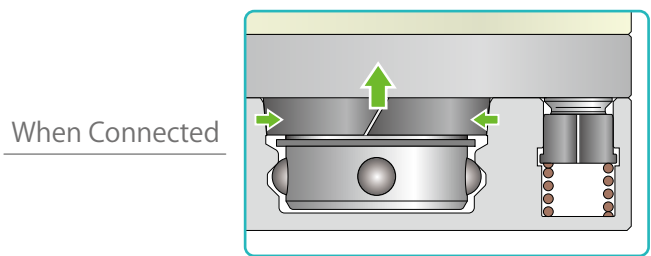
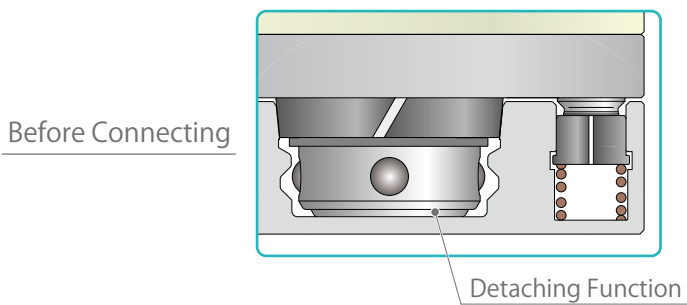


# The World's Only Robotic Hand Changer with Zero Backlash



Model SWR  
Air Lock / Air Release  
Self-Lock Function with Spring

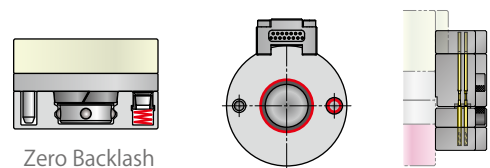
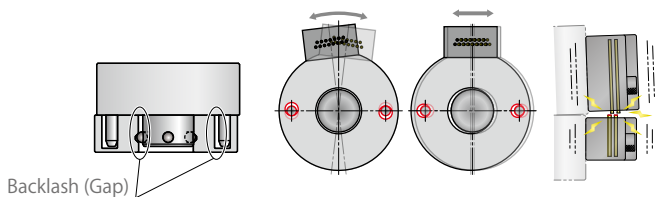
## KOSMEK Exclusive Non-Backlash Mechanism



### Zero-Backlash Connection with Dual Contact

Backlash of a Tool Changer Causes Electrode Errors  
Noise and Continuity Failure due to Friction of Contact Probe

Kosmek Hand Changer with No Backlash  
Prevents Electrode Errors No Noise



Continuity Failure of Electrode  
↓  
Frequent Moment Stop

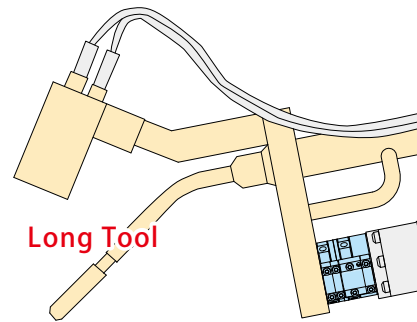
No Continuity Failure of Electrode  
↓  
Sharp Decline of Moment Stop

# Secures the Aimed Position

When Connected, Locating Repeatability is **3 μm**※

Even with long tools or hands, fluctuation of the edge is extremely small. It secures high-accuracy processing even after tool change.

※ Only SWR0010 (0.5kg~1kg payload model) has repeatability of 5 μm.



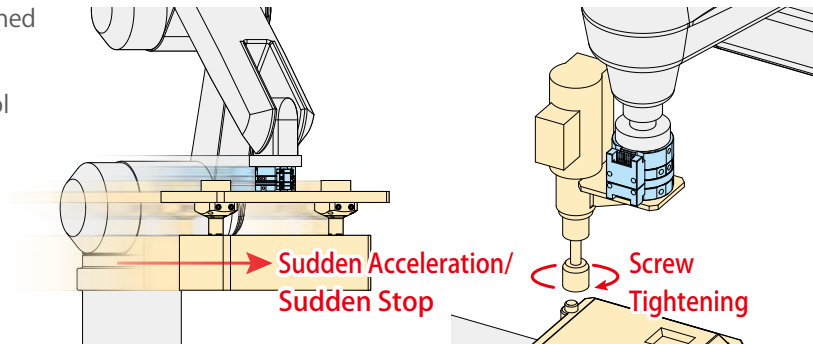
Locating Pin Clamp	SWP
High-Power Welding Swing Clamp	WHG
High-Power Welding Link Clamp	WCG
Air Flow Control Valve	BZW
Manifold Block	WHZ-MD

# 24-Hour Continuous Operation is Possible

Uncomparably High **Rigidity** and **Durability**

Strong to "bend" and "torsion" with high rigidity obtained by non-backlash function. Also, high strength material is used in all the contact part of the master and the tool so that it ensures high durability and 3 μm (5 μm※) repeatability even after 1 million cycles.

※ Only SWR0010 (0.5kg~1kg payload model) has repeatability of 5 μm.



Payload : 0.5kg ~ 360kg

# A Variety of Electrode/Air Joint Options

- Resin Connector Electrode
- Solder Terminal
- Solder Terminal with Cable
- Waterproof Electrode (Simple Waterproof)  
Only when connected : Equivalent to IP54
- D-sub Connector
- Circular Connector (Connector Based on JIS C 5432)
- Compact Electric Power Transmission (Ability to Transmit AC/DC200V 5A)
- Power Transmission Option (Connector Based on MIL-DTL-5015)
- High Current Transmission Option  
(Connector Based on MIL-DTL-5015)
- Waterproof Electrode (Noncontact Waterproof) IP67 Compact Model
- Waterproof Electrode (Noncontact Waterproof) IP67
- Air Joint (3 Port Option • with Larger Port : φ 6)
- Air Joint (2 Port Option)
- Air Joint (4 Port • Solder Terminal Extensible Option)
- Air Port with Check Valve



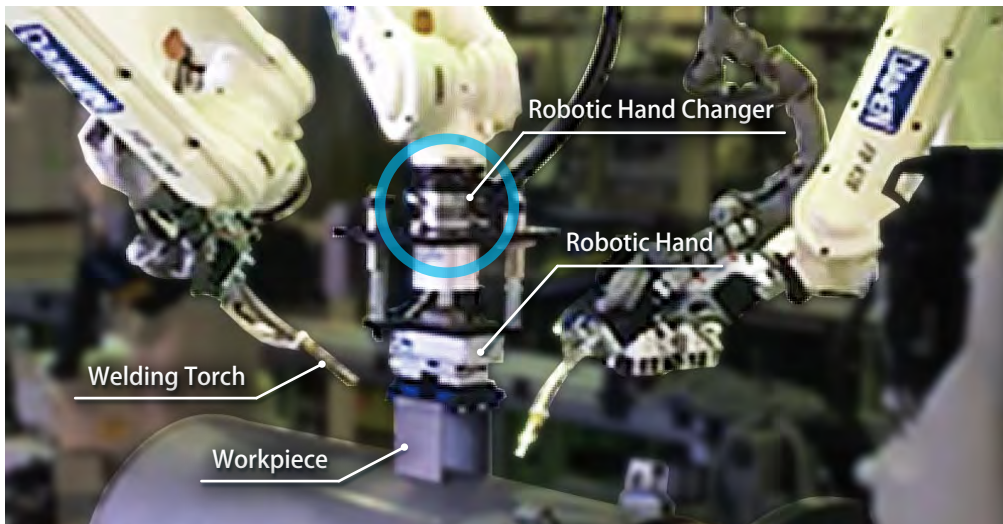
General Cautions

Welding Application Related Products

Die Change System for Press Machines

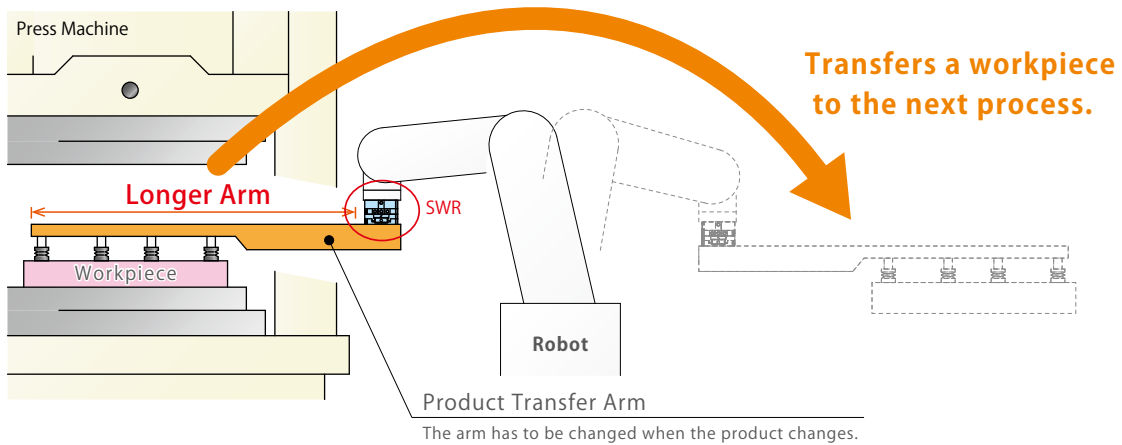
Company Profile Sales Offices

# Holds Welding Workpiece without Backlash

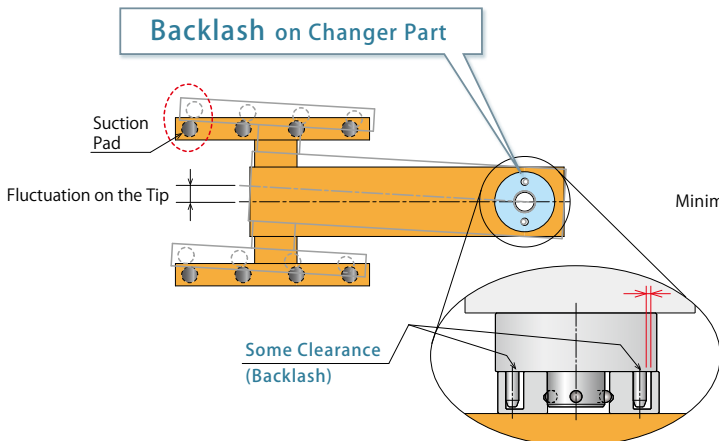


A case study of Robotic Hand Changer exchanging robotic hands which hold a welding workpiece. Kosmek non-backlash changer allows for stable product quality and appearance of arc welding.

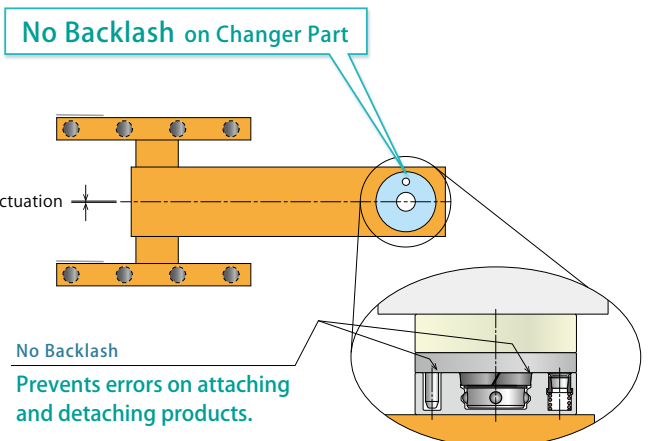
# High-Accuracy Change of Transfer Arms



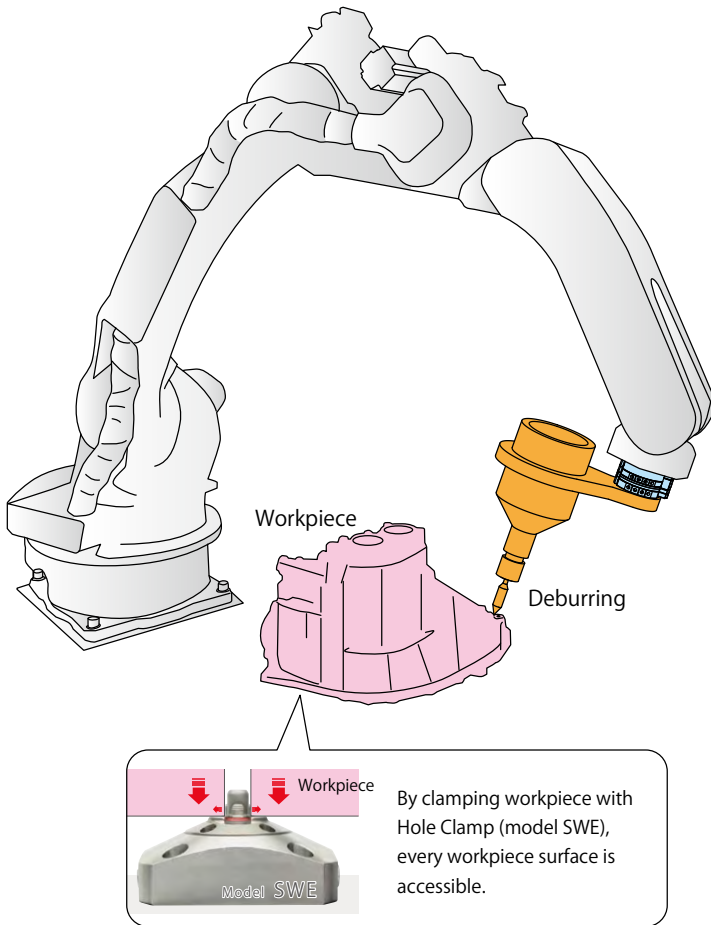
## General Changer



## Kosmek Robotic Hand Changer



# Change the Transfer Hand and Deburring Tool with High Rigidity



**Hand Change**



Locating Pin Clamp  
SWP

High-Power Welding Swing Clamp  
WHG

High-Power Welding Link Clamp  
WCG

Air Flow Control Valve  
BZW

Manifold Block  
WHZ-MD

General Cautions

Welding Application Related Products

Die Change System for Press Machines

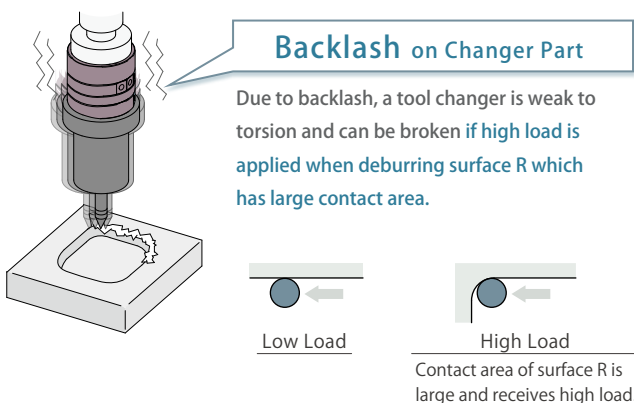
Company Profile Sales Offices

## Withstands Heavy Load with Non-Backlash Function

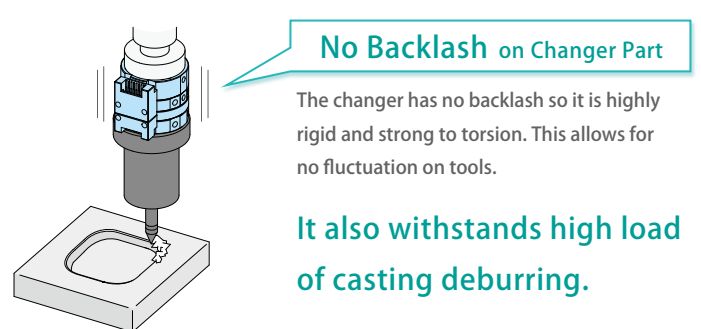
Strong to "bend" and "torsion" with high rigidity.

It ensures stable production even with offset transfer hand or heavy load deburring.

### General Tool Changer

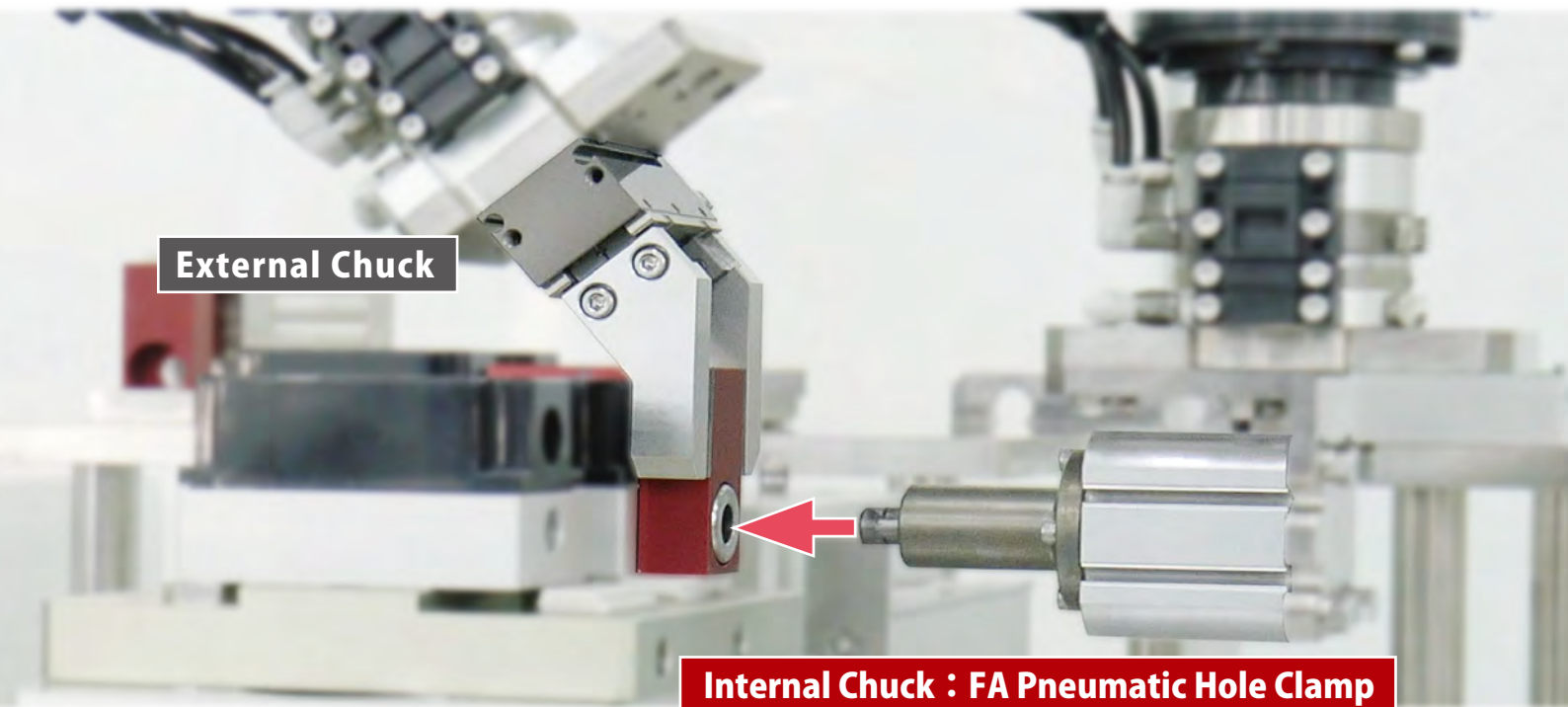


### Kosmek Robotic Hand Changer



**It also withstands high load of casting deburring.**

# Light and Compact Robotic Hand Series for Factory Automation



External Chuck

Internal Chuck : FA Pneumatic Hole Clamp

## Kosmek Exclusive Internal Chuck Series

### FA Pneumatic Hole Clamp

Model WKH

Gripper expands and pulls workpiece in.  
Light Body with Selectable Functions : Locating and Floating  
Workpiece Diameter  $\phi 6 \sim \phi 14$  in 0.5mm increments.



Air Lock / Air Release  
Self-Lock Function with Spring

### High-Power Pneumatic Hole Clamp

Model SWE

Can be used in machine tools. Gripper expands and pulls workpiece in.  
High Power with Contaminant Prevention for Machine Tools, etc.  
Workpiece Diameter  $\phi 6 \sim \phi 13$  in 0.5mm increments.



Air Lock / Air Release  
Self-Lock Function with Spring

### Ball Lock Cylinder

Model WKA

Secures/Transfers a pallet and prevents falling off with steel balls.  
Powerful, Light and Compact  
Pull-Out Load Capacity (Holding Force) : 50N / 70N / 100N / 150N / 200N



Spring Lock / Air Release



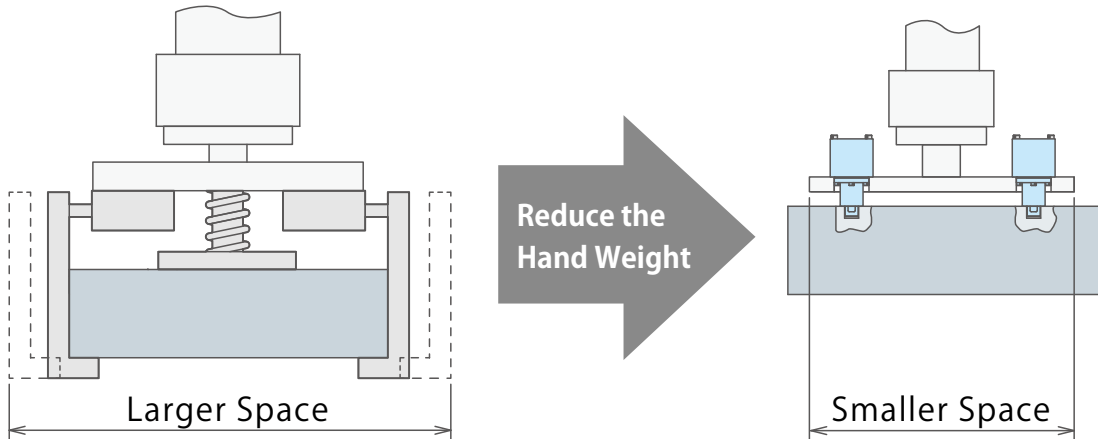
# Advantages of FA Pneumatic Hole Clamp

Model WKH FA Pneumatic Hole Clamp

- Locating Pin Clamp
  - SWP
- High-Power Welding Swing Clamp
  - WHG
- High-Power Welding Link Clamp
  - WCG
- Air Flow Control Valve
  - BZW
- Manifold Block
  - WHZ-MD
- General Cautions
- Welding Application Related Products
- Die Change System for Press Machines
- Company Profile Sales Offices

Chucking Inside of Workpiece Holes Allows for

## Compact and Light Applications

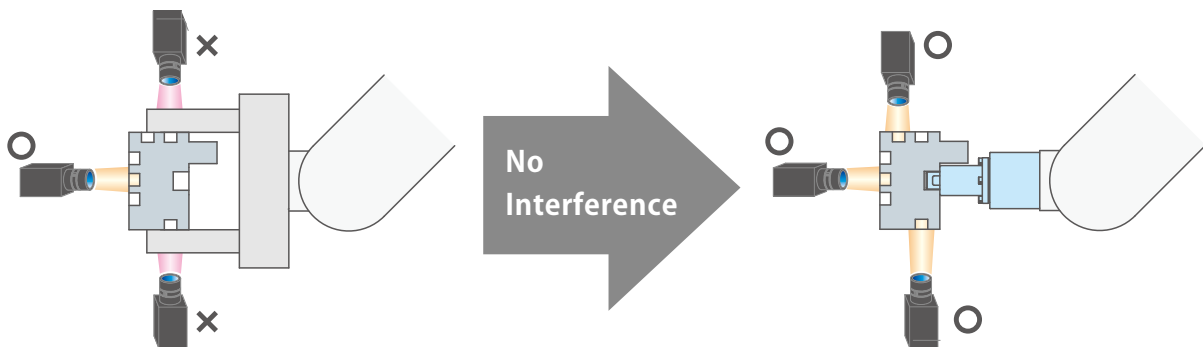


Loading/Lifting Hand with Parallel Hand/Linear Cylinder

Hole Clamp is Compact and Light with Powerful Gripping Force

Chucking Inside of Workpiece Holes Allows for

## Zero Interference and Minimum Setup



Interferes with the hand when holding a workpiece.

5 Faces Accessible with No Interference

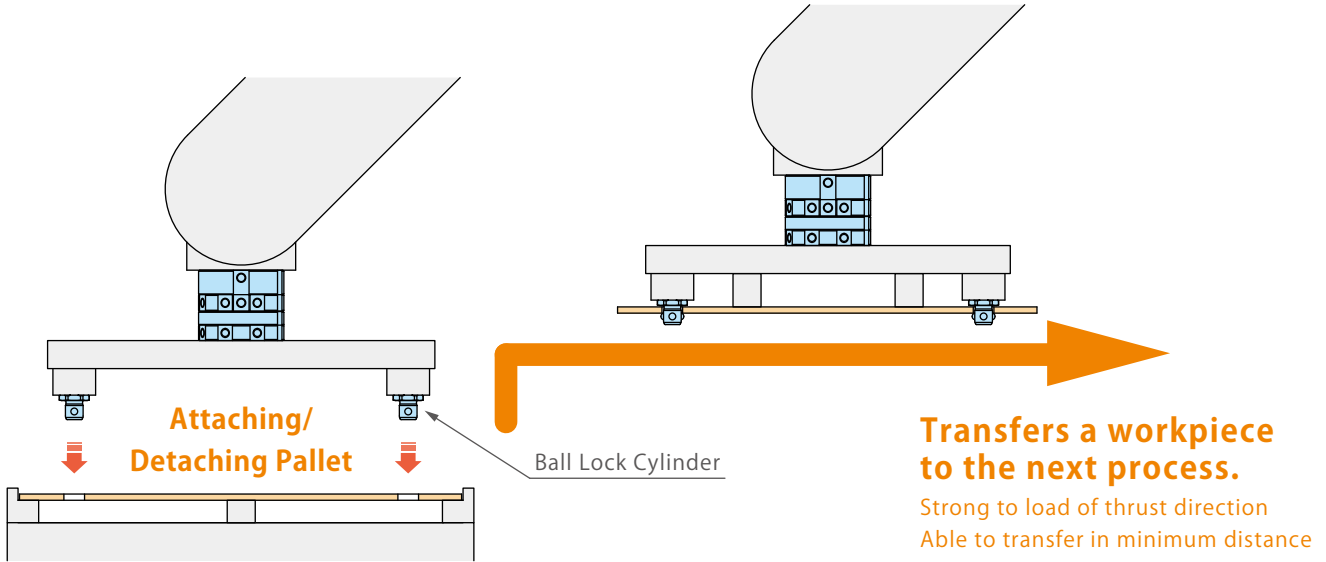
## External Chuck Series

High-Power Parallel Gripper	Compact Parallel Gripper	Wide Angular Gripper	Parallel Gripper	Compact Parallel Gripper	Angular Gripper	Three-Jaw Chuck	Two-Jaw Chuck	Parallel Hand with Auto-Grip Changer
Model WPS	Model WPA	Model WPE	Model WPF	Model WPH	Model WPJ	Model WPP	Model WPQ	Model WPW



# For Faster and More Accurate Pallet Transfer

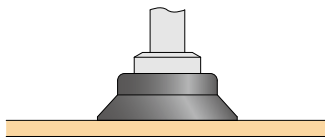
Model WKA Ball Lock Cylinder



Current Method

Suction Pad

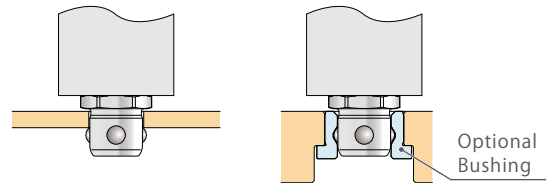
Limited Speed  
Low Suction Force



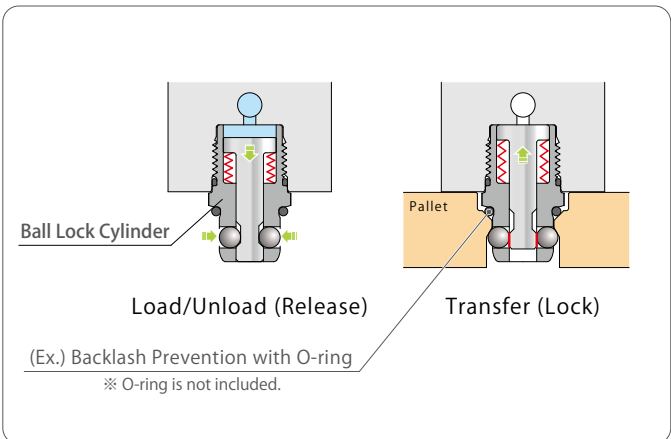
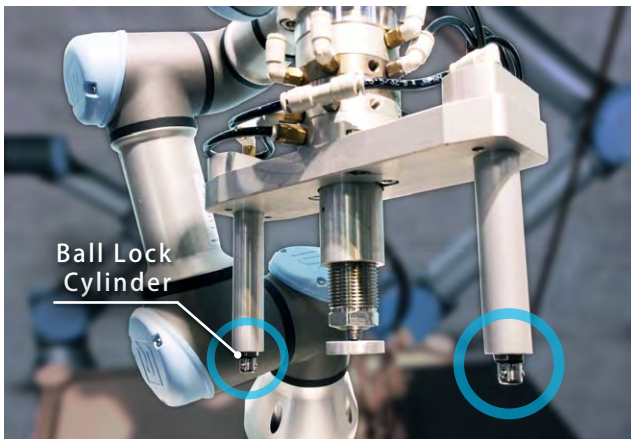
Suction Pad has critical weight limits and speed limits due to low suction force. Also, the suction force is affected by the roughness of surface and is decreased due to deterioration and friction.

Ball Lock Cylinder

Powerful • Light • Compact with Mechanical Lock  
Single Circuit for Positive Pressure Only



Requires Hole Machining  
Optional bush simplifies hole machining.





# Automation Products

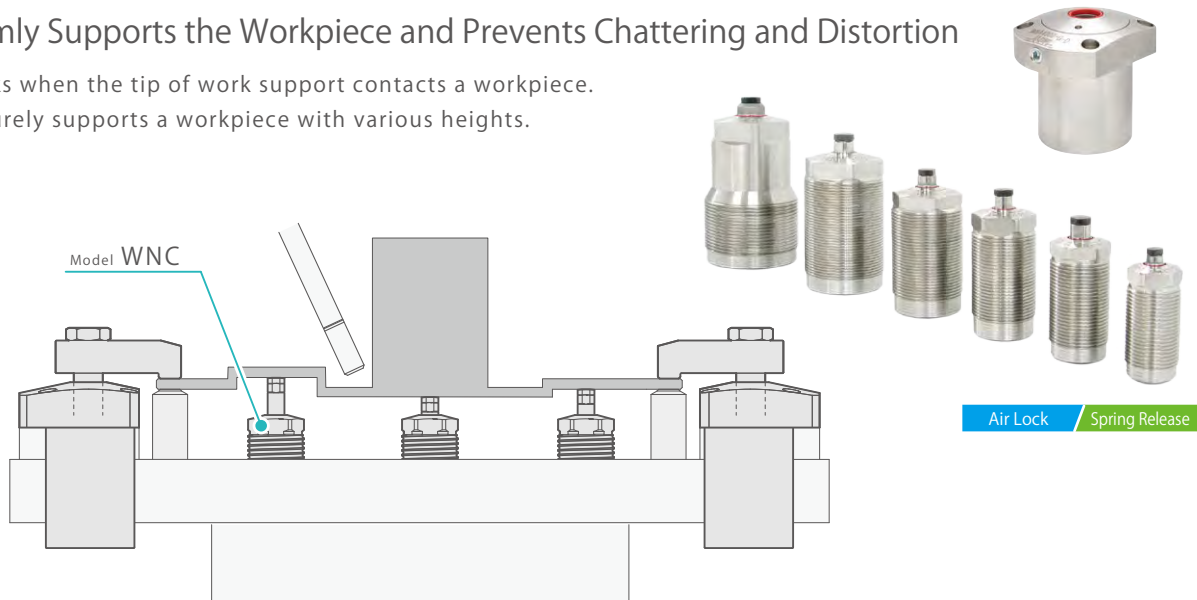
## Powerful Support for Unstable Parts

High-Power Pneumatic Work Support (Standard / Rodless Hollow)

Model WNC / WNA

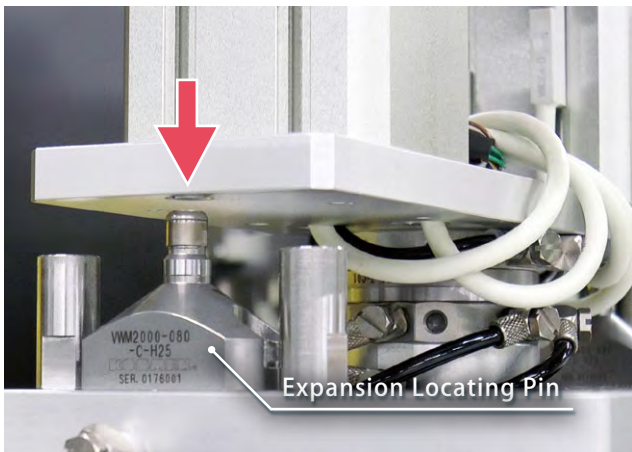
Firmly Supports the Workpiece and Prevents Chattering and Distortion

Locks when the tip of work support contacts a workpiece.  
Securely supports a workpiece with various heights.



- Locating Pin Clamp
  - SWP
- High-Power Welding Swing Clamp
  - WHG
- High-Power Welding Link Clamp
  - WCG
- Air Flow Control Valve
  - BZW
- Manifold Block
  - WHZ-MD
- General Cautions
- Welding Related Products
- Quick Die Change Systems
- Company Profile
- Sales Offices

## High Accuracy Locating of Workpiece • Pallet



### Expansion Locating Pin

No Gap with High Accuracy Locating Pin

**High-Accuracy Model**



Model VWM

Locating Repeatability  
3 μm

Workpiece Hole Diameter :  
φ8 ~ φ30

**Large-Expansion Model**



Model VWH

Locating Repeatability  
10 μm

Workpiece Hole Diameter :  
φ9 ~ φ15

**Manual-Operating Model**

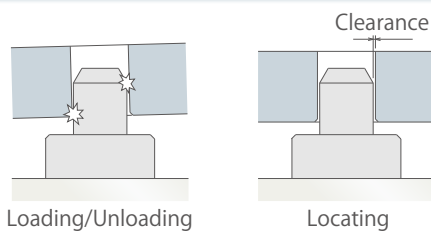


Model VX

Locating Repeatability  
5 μm

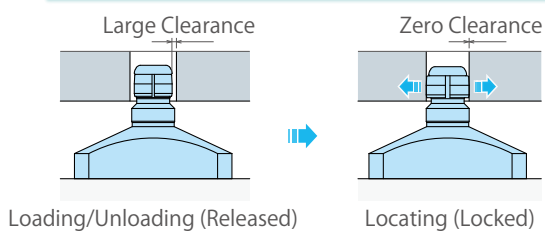
Workpiece Hole Diameter :  
φ8 ~ φ20

### Fixed Pin



**Difficult to Load/Unload**  
**Some Clearance**

### Expansion Locating Pin



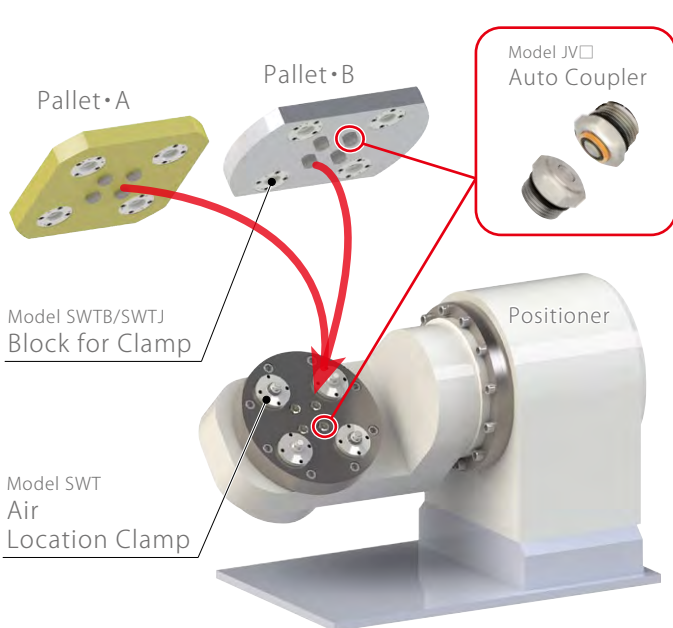
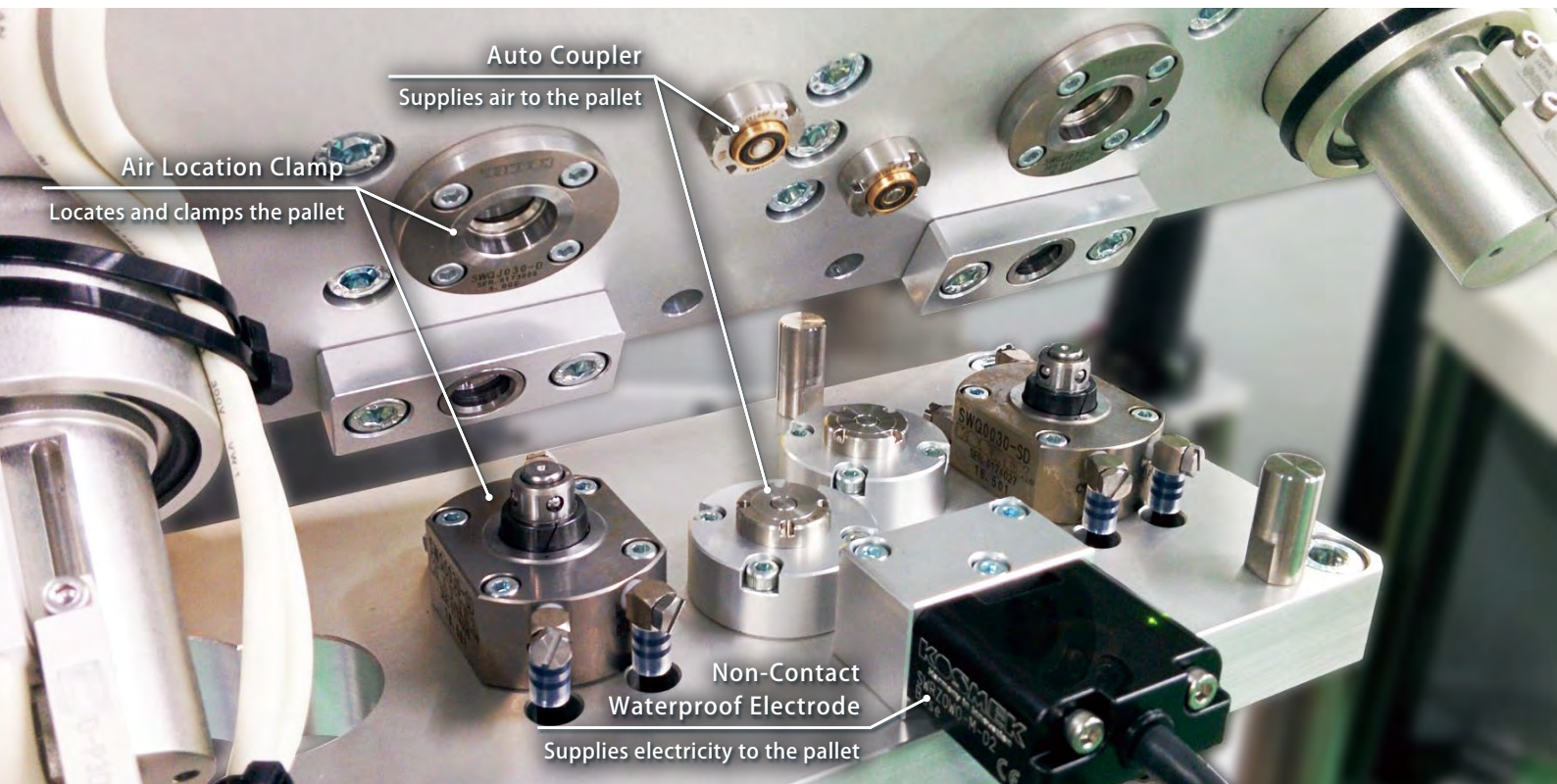
**Easy to Load/Unload**  
**Zero Clearance and High Accuracy**

# High Speed and High Accuracy Fixture Setup

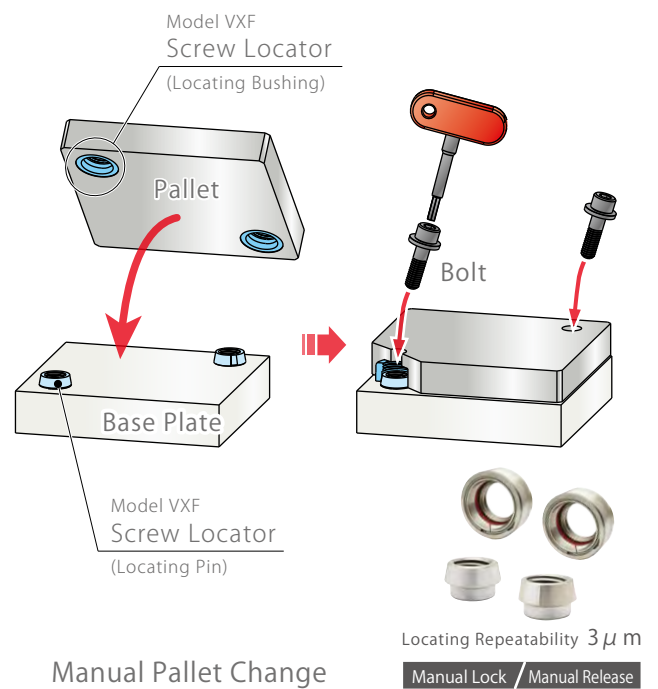
## Air Location Clamp

Locates and clamps a fixture on a positioner simultaneously.

**Enables setup time reduction and productivity improvement.**



Fixture Setup of the Positioner



Manual Pallet Change

# Pneumatic Location Clamp Series

## FA Pneumatic Pallet Clamp

Model **WVG**

Suitable for setup of welding fixtures and pallet transfer.

Locating Repeatability : 0.08mm



## Compact Air Location Clamp

Model **SWQ**

Compact model. Suitable for setup of compact/light pallets/fixtures.

Locating Repeatability : 3 μm



## Air Location Clamp

Model **SWT**

Equipped with Contamination Prevention

Locating Repeatability : 3 μm



## High-Power Pneumatic Pallet Clamp

Model **WVS**

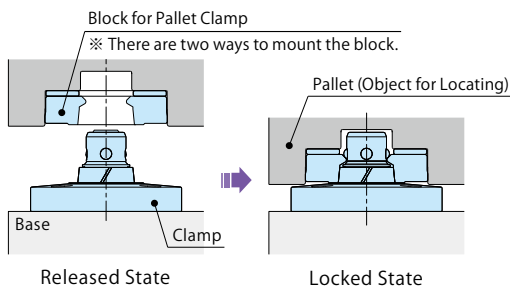
Exerts equivalent clamping force with hydraulic clamps.

Locating Repeatability : 3 μm

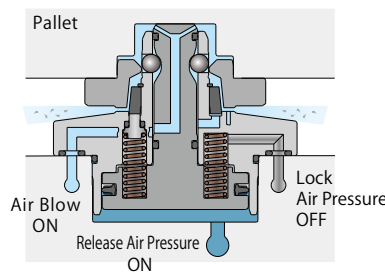


- Locating Pin Clamp
- SWP
- High-Power Welding Swing Clamp
- WHG
- High-Power Welding Link Clamp
- WCG
- Air Flow Control Valve
- BZW
- Manifold Block
- WHZ-MD
- General Cautions
- Welding Related Products**
- Quick Die Change Systems
- Company Profile
- Sales Offices

### Action Description



### Air Blow and Seating Check

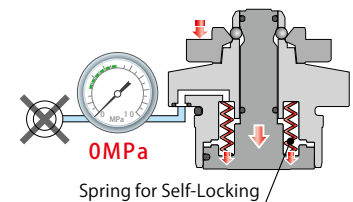


Contaminants can be removed by air blow.  
Seating surface is provided with the air hole.  
Use the gap sensor for seating check.

### Self-Locking (Safety) Function

(Holding Force at 0MPa Air Pressure)

**Maintains clamped state.**



Even if air pressure is at zero, it will stay locked with the self-locking spring.  
※ More than the minimum operating air pressure is required for locating.

# Automatic Air Supply to a Pallet on a Positioner

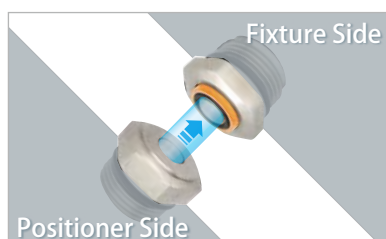
## Auto Coupler

Model JT□ JV□



## Compact Coupler to Connect Hydraulic/Pneumatic/Coolant Circuits

Connection Stroke : 1mm Commonly Used with Screw Locator and Pneumatic Location Clamp



# Company Profile



KOSMEK LTD. Head Office

Company Name	KOSMEK LTD.
Established	May 1986
Capital	¥99,000,000
President	Tsutomu Shirakawa
Employee Count	270
Group Company	KOSMEK LTD. KOSMEK ENGINEERING LTD. KOSMEK (USA) LTD. KOSMEK EUROPE GmbH KOSMEK (CHINA) LTD. KOSMEK LTD. - INDIA
Business Fields	Design, production and sales of precision products, and hydraulic and pneumatic equipment
Customers	Manufacturers of automobiles, industrial machinery, semiconductors and electric appliances
Banks	Resona Bank, MUFG Bank, The Senshu Ikeda Bank

## Sales Offices

### Sales Offices across the World

JAPAN  
HEAD OFFICE  
Overseas Sales

TEL. +81-78-991-5162 FAX. +81-78-991-8787  
KOSMEK LTD. 1-5, 2-chome, Murotani, Nishi-ku, Kobe-city, Hyogo, Japan 651-2241  
〒651-2241 兵庫県神戸市西区室谷2丁目1番5号

United States of America  
SUBSIDIARY  
KOSMEK (USA) LTD.

TEL. +1-630-620-7650 FAX. +1-630-620-9015  
650 Springer Drive, Lombard, IL 60148 USA

MEXICO  
REPRESENTATIVE OFFICE  
KOSMEK USA Mexico Off



illa, Queretaro, QRO, 76230, Mexico

EUROPE  
SUBSIDIARY  
KOSMEK EUROPE GmbH

WAHLTEC GmbH  
Ravensburger Str. 14  
88361 Altshausen  
T: +49 (7584) 9238883  
F: +49 (7584) 9238887

FAX. +43-463-287587-20  
ersee Austria

CHINA  
KOSMEK (CHINA) LTD.  
考世美(上海)貿易有限公司

FAX. +86-21-54253709  
?1, Pusan Rd, Pudong Shanghai 200125, China  
601室 200125

INDIA  
BRANCH OFFICE  
KOSMEK LTD. - INDIA

www.wahltec.de

oint, Cunningham Road, Bangalore -560052 India

THAILAND  
REPRESENTATIVE OFFICE  
KOSMEK Thailand Representation Office

TEL. +66-2-300-5132 FAX. +66-2-300-5133  
67 Soi 58, RAMA 9 Rd., Phatthanakan, Suanluang, Bangkok 10250, Thailand

TAIWAN  
(Taiwan Exclusive Distributor)  
Full Life Trading Co., Ltd.  
盈生貿易有限公司

TEL. +886-2-82261860 FAX. +886-2-82261890  
16F-4, No.2, Jian Ba Rd., Zhonghe District, New Taipei City Taiwan 23511  
台湾新北市中和區建八路2號 16F-4 (遠東世紀廣場)

PHILIPPINES  
(Philippines Exclusive Distributor)  
G.E.T. Inc, Phil.

TEL. +63-2-310-7286 FAX. +63-2-310-7286  
Victoria Wave Special Economic Zone Mt. Apo Building, Brgy. 186, North Caloocan City, Metro Manila, Philippines 1427

INDONESIA  
(Indonesia Exclusive Distributor)  
PT. Yamata Machinery

TEL. +62-21-29628607 FAX. +62-21-29628608  
Delta Commercial Park I, Jl. Kenari Raya B-08, Desa Jayamukti, Kec. Cikarang Pusat Kab. Bekasi 17530 Indonesia

### Sales Offices in Japan

Head Office  
Osaka Sales Office  
Overseas Sales

TEL. 078-991-5162 FAX. 078-991-8787  
〒651-2241 兵庫県神戸市西区室谷2丁目1番5号

Tokyo Sales Office

TEL. 048-652-8839 FAX. 048-652-8828  
〒331-0815 埼玉県さいたま市北区大成町4丁目81番地

Nagoya Sales Office

TEL. 0566-74-8778 FAX. 0566-74-8808  
〒446-0076 愛知県安城市美園町2丁目10番地1

Fukuoka Sales Office

TEL. 092-433-0424 FAX. 092-433-0426  
〒812-0006 福岡県福岡市博多区上牟田1丁目8-10-101

# Product Line-up



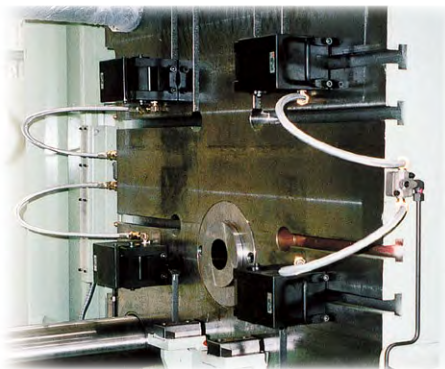
## ■ Quick Die Change Systems

FOR PRESS MACHINES



## ■ Kosmek Factory Automation Systems

FACTORY AUTOMATION INDUSTRIAL ROBOT RELATED PRODUCTS



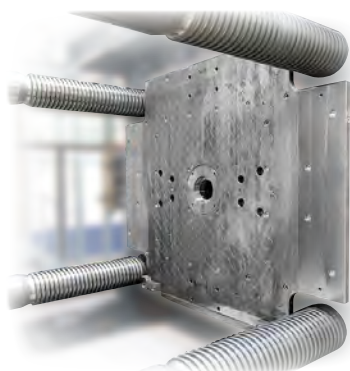
## ■ Diecast Clamping Systems

FOR DIECAST MACHINES



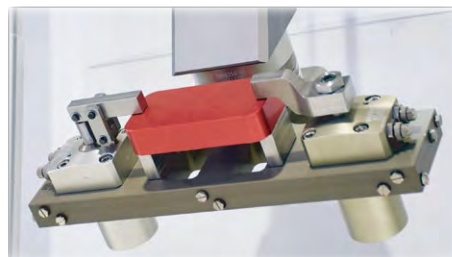
## ■ Kosmek Work Clamping Systems

MACHINE TOOL RELATED PRODUCTS



## ■ Quick Mold Change Systems

FOR INJECTION MOLDING MACHINES



## ■ Washing Application Products

KOSMEK PRODUCTS FOR WASHING APPLICATION

Locating  
Pin Clamp

SWP

High-Power  
Welding  
Swing Clamp

WHG

High-Power  
Welding  
Link Clamp

WCG

Air Flow  
Control Valve

BZW

Manifold Block

WHZ-MD

General Cautions

Welding Application  
Related Products

Die Change System  
for Press Machines

Company Profile  
Sales Offices



## KOSMEK LTD.

▶ <http://www.kosmek.com/>

HEAD OFFICE 1-5, 2-chome, Murotani, Nishi-ku, Kobe-city, Hyogo, Japan 651-2241  
TEL.+81-78-991-5162 FAX.+81-78-991-8787

United States of America SUBSIDIARY	KOSMEK (USA) LTD. 650 Springer Drive, Lombard, IL 60148 USA TEL. +1-630-620-7650 FAX. +1-630-620-9015
MEXICO REPRESENTATIVE OFFICE	KOSMEK USA Mexico Office Av. Santa Fe 103, Int. 59, col. Santa Fe Juriquilla, Queretaro, QRO, 76230, Mexico TEL. +52-1-55-3044-9983
EUROPE SUBSIDIARY	KOSMEK EUROPE GmbH Schleppeplatz 2 9020 Klagenfurt am Wörthersee Austria TEL. +43-463-287587 FAX. +43-463-287587-20
CHINA SUBSIDIARY	KOSMEK (CHINA) LTD. Room601, RIVERSIDE PYRAMID No.55, Lane21, Pusan Rd, Pudong Shanghai 200125, China TEL. +86-21-54253000
INDIA BRANCH OFFICE	KOSMEK LTD. - INDIA F 203, Level-2, First Floor, Prestige Center Point, Cunningham Road, Bangalore -560052 India TEL.+91-9880561695
THAILAND REPRESENTATIVE OFFICE	KOSMEK Thailand Representation Office 67 Soi 58, RAMA 9 Rd., Phatthanakan, Suanluang, Bangkok 10250, Thailand TEL. +66-2-300-5132 FAX. +66-2-300-5133



WAHLTEC GmbH  
Ravensburger Str. 14  
88361 Altshausen  
T: +49 (7584) 9238883  
F: +49 (7584) 9238887

[www.wahltec.de](http://www.wahltec.de)

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



JQA-QMA10823  
KOSMEK HEAD OFFICE