



Press Machine Related Products





QUICK DIE CHANGE SYSTEMS



1 ► P.05 Hydraulic Die Clamp



▶P.04 High-Power Pneumatic Die Clamp











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Overload Protector



Press Load Monitor



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Robotic Hand Changer





Welding Clamp

Pneumatic Ball Die Lifter



Newly added to the lineup. Best suitable for die lifter.

Lift and Move a Die with **Light Force**



LIFT DOWN AIR : OFF

The ball lifts down with the die weight by releasing air pressure.





The Ball Moves 360° Flexibly









Powerfully hold a die with air pressure + mechanical lock.

Hybrid system using air pressure and a mechanical lock



Improved Maintainability

Drastically reduces the running cost as valves and other control devices are available on the market and easily replaced in case of trouble.



Energy Saving • **Time Reduction**



Keeps Your Factory Clean. Also, since clamping action is faster than hydraulic, the die change time is drastically reduced.

Specifications

• Holding Force (Air Pressure at 0.4 ~ 0.8 MPa) : 10 kN / 25 kN / 40 kN / 63 kN

• Tightening Force (Air Pressure at 0.8 MPa) : 2.5 kN / 6.3 kN / 10 kN / 15.8 kN

• Operating Air Pressure : 0.4 ~ 0.8 MPa • Operating Temperature : 0 ~ 70℃ (High Temp. 0 ~ 120℃)

Die Change KAIZEN

Die Change with Clean • Energy Saving

All-Pneumatic System Low Running Cost





High-Power Pneumatic Die Clamp





Hydraulic Die Clamp Series

Best-Selling Series with a Wide Variety of Selections

T-Slot Manual-Slide



T-Slot Automatic-Slide



Model GBE Model GD

Swing Clamp Rod







Model GBP

Block-Fixed

Disassembly and Assembly Possible with Only Standard Tools

GBB model has the structure which is simple and easy to maintain. No special tools or skilled labor are required for maintenance. Since anyone can assemble and disassemble the clamp, only a seal kit is needed to perform on-site maintenance.



Long Stroke Models

Allows for Variation in Die Clamping Thicknesses

The die change system with longer stroke clamps enables to use non-standardized dies.





No U-Cuts Required (Allowable Variation 5mm : 0100 ~ 0400 models Allowable Variation 10mm : 0630 ~ 1000 models







(**GA-S1** : Stroke 12.5 mm

GA-S2: Stroke 20 mm



Specifications

MadelNa		GA0100 GA0160		GA0250		GA0400		GA0630		GA1000			
Model No.	Model No.		-S2	-S1	-S2	-S1	-S2	-S1	-S2	-S1	-S2	-S1	-S2
Clamping Force	kN	1	0	1	6	2	5	4	0	6	3	10	00
Operating Pressure	MPa						2	5					
Withstanding Pressure	MPa						3	7					
Full Stroke	mm	12.5	20	12.5	20	12.5	20	12.5	20	12.5	20	12.5	20
Clamp Stroke	mm	9.5	17	9.5	17	9.5	17	9.5	17	9.5	17	9.5	17
Extra Stroke	mm	3	3	3	3	3	3	3	3	3	3	3	3
Cylinder Capacity (at Full Stroke) cm ³	5.1	8	8.8	14	13	20	20	33	33	52	49	79
Operating Temperature	°C		0	~ 70 (V	: High	temper	ature o	ption is	availab	le for 0	~ 120°0	2)	
Use Frequency						20	cycles	or less /	Day				
Usable Fluid					Genera	l Hydra	ulic Oil	Equivale	ent to IS	60-VG-3	2		
* Offering other sizes up t	o clam	nnina fa	orce 25	0kN									



Interlock with Press Machine

Reduce the Die

for Safe Operation

Change Time









Specifications

		GBC0100	GBC0160	GBC0250	GBC0400	GBC0630	GBC1000	
	kN	10	16	25	40	63	100	
	MPa			2	5			
ire	MPa			3	7			
	mm	8	9	10	12	15	15.5	
	mm	0.5	1	1.5	3.5	1	1.5	
	mm	7.5	8	8.5	8.5	14	14	
Variation	mm	5	5	5	5	10	10	
ull Stroke)	cm ³	4	6	10	19	38	63	
ure	°C	0 ~ 70 (V: High temperature option is available for 0 ~ 120°C)						
		20 cycles or less / Day						
			General Hydraulic Oil Equivalent to ISO-VG-32					







Slide Rod Die Clamp for Easy Setup

Having a problem when moving die clamps?

Solved by Slide Rod Die Clamp!

Slide Rod model enables to move the clamp on the non-operation side from the operation side.



Storable

The push-pull rod is rigid when it is straightened. It can be bended and stored when not in use.

Low Cost

Less expensive compared to the automatic-slide model.





Manual-Slide Model Automatic-Slide Model



Able to Solve the Following Problems

Traveling Distance

After loading a die, it is required to go around to the non-operation side when setting a clamp to a die. In case of a tandem line, traveling to the backside takes a lot of time.

Operating Space

In case the operating space on the backside is not enough, it is dangerous to operate in a narrow space..



* Please contact us for applicable clamping force.



Shorter Traveling

Tiredness and

Distance reduces Setup Time











Swing Rod Clamp for Upper Die

The swing rod retracts during die change.

Special Product

Swing Rod Clamp for Upper Die to Withstand Vibration of Press Machine

Withstands vibration even at released state

Sometimes a transfer press machine is operated with some clamps released depending on the number of processes. Kosmek Swing Rod Clamp is able to withstand the vibration of the press machine even at released state.





In case of Die 2, clamps may be released during production.



The rod is retracted during die change.





pulled up to clamp the die.



Compact Automatic-Slide Clamp

Protrusion from press slide is less than half of Air Cylinder Model or Roller Chain Model

Automatic-slide die clamp is compact due to its link mechanism. and avoids interference around the press machine.





① Release hydraulic pressure \Rightarrow Clamp is released by built-in spring force. (2) Supply air to the pull side \Rightarrow Clamp is moved backward.

③ Proximity switch detects that the clamp moved backward.



Withstands Vibration Swing Clamp

of Press Machine for Upper Die





Special Product



- ① Supply air to the push side. \Rightarrow The clamp moves forward until it touches the die.
- ② Proximity switch detects the seating of the die.
- ③ Supply hydraulic pressure. \Rightarrow The clamp locks the die (U-Cut).





Hydraulic Unit with Large Flow Pump

Large flow pump to increase operating speed of hydraulic clamps.

Newly-Developed Large-Flow Pump to Reduce 50%^{**} of Operation Time!

% It varies depending on conditions of piping path and others.

Pump Performance Curve





High Performance and Compact • ۲ ()**B** : AB7000-□ **D** : AD7300-**C** : AC7001-E : AE7300-

Easy to move a die to the bolster with rollers on the die lifter.



Die lifter lifts up by supplying hydraulic pressure to hydraulic port. The roller ascends above the bolster surface and the die can be smoothly moved due to the roller. Powerful lifting force to lift up the die.

Long Stroke Model

RA-S

Long Stroke Die Lifter

Lift-up Stroke : up to 10mm

Smooth loading/unloading is possible with Long-Stroke Die Lifter even when requiring extra clearance due to fit part or bumps between a bolster and a die.

	Die	
¥		
1		
	DOISTEI	
	LIFT DOWN	LIFT UP

Specifications

Model No.

Applicable Slot Width Applicable Slot Depth (In case I Lift-Up Stroke (In case F = 1 mm) Full Stroke Allowable Die Die Materia Weight per Roller Die Materia Lifting Force (per Cylinder) Cylinder Capacity (per Cylinde Hydraulic Port Operating Hydraulic Pressure Operating Temperature Use Frequency

% Please contact us for the long stroke model of RA0180 and RA0220.



Large Flow Air-Hydraulic **Drastic Reduction** of **Combination Pump for Operating Time**

Die lifter moves down by spring force when hydraulic pressure is released. The roller descends under the bolster surface and the die contacts the bolster



		RA0280		RAO	RA0500		800	
		-S1	-S2	-S1	-S2	-S1	-S2	
	mm	28	+0.25 +0.05	50	+0.25 +0.05	80	+0.25 +0.05	
⁼ = 1 mm)	mm	46.5 ^{+0.5}	52 ^{+0.5}	58 ^{+0.5}	65 ^{+0.5}	85 ^{+0.5}	91 ^{+0.5}	
	mm	4	9	4	9	5	9	
	mm	5	10	5	10	6	10	
al SS400	kg	80		200		500		
al S45C • FC250	kg	14	140		350		800	
	kΝ		5	11.3		25		
er)	cm ³	1	2	2.3	4.6	6.1	10.2	
		Rc1/8 Rc1/4						
	MPa	a 25						
	°C	0 ~ 70 (V : High Temperature 0 ~ 120 ℃)						
		20 Cycles or less / day						





Broad Line-up of Pre-Rollers

A Variety of **Storing Methods!**





Removable •

Vertical Folding



Horizontal Folding

Stand Available for **Longer Pre-Rollers!**

Applicable to a Long Block Used to Install/Remove **Pre-Rollers More Easily** and to Avoid Interference





Model MRJ/MRK

Horizontal Folding (with Stand)

Standard	
Requires long pre-rollers.	00



Long block available for shorter pre-rollers.

Long Block

KOSMEK offers a broad line-up of Pre-Rollers.





Die Travel Length up to 2m



In case of Short Pre-Roller

Using a folklift to load/unload a die This is inefficient because the folklift must enter into the soundproofing enclosure to load/unload the die.





Customer Satisfaction A Broad Lineup +

Improved! **Custom-Made**





Die Change KAIZEN with Longer Pre-Rollers : **For Press Machine with** Soundproofing Enclosure

KOSMEK offers Pre-Rollers with die travel length up to 2m as a standard lineup. With the use of soundproofing enclosure, operating range of a crane is limited. However, the longer pre-rollers enable the crane to transfer the die outside the soundproofing enclosure.

In case of Longer Pre-Roller

With a factory crane, it is able to set a die onto the pre-roller from the outside of the soundproofing enclosure. After setting the die to the press machine, the pre-roller can be removed, leading to space-saving and a more effective factory.

> The door of the soundproofing enclosure can be closed by detaching the pre-roller.



Overload Protector

For Unbalanced Loads with 2-point and 4-point Presses

Multi-Load Model

Model **PV** (Pneumatic) Model PW (Spring)

Standard Model Model PH (Pneumatic) Model PL (Spring)



What is an Overload Protector?

Overload protector detects sudden increases of hydraulic pressure in the overload cylinder within the press slide, releasing hydraulic oil instantly in order to protect the press machine and sends an emergency stop signal to the press machine.

Compact and Light

A Wide Variety Available for various size presses from small presses (200 kN) to large presses (20000 kN).

High Stability

Accuracy of a press machine is maintained by applying pre-load and minimizing compressive strain in hydraulic oil of overload cylinder during normal operation.

Malfunction Prevention Pressure regulating valve prevents malfunction caused by the rising temperature of hydraulic oil during press operation.

High Accuracy Even if the amount of overload increases, the operating accuracy of overload protector remains within 10% and repeatability is better than $\pm 3\%$.

Shock Tolerance Shock tolerance of the switch is more than 70G.

Simple Setting Pressure setting of overload is simple and accurate.

Easy to Recover

After removing a cause of an overload, hydraulic pressure will be charged in the overload cylinder by supplying air pressure and the overload protector starts again.

Task

Standard overload protector has slow response when a two-point press has an overload.

Previously



KOSMEK Multi-Load Model



Eccentric Condition

* Please contact us for the details about specifications and external dimensions.



Quick Response Prevents

to Overload Breakage





Problem

Under overload in an eccentric condition, the overload protector does not start working until hydraulic pressure of the overload cylinders on both sides increases.



Slow Response, **Unable to Prevent Eccentric Load**

Solution

Under overload in an eccentric condition, the overload protector activates when hydraulic pressure on one side increases, and releases the cylinders on both sides.



Fast Response,

Able to Prevent **Eccentric Load**





Press Load Monitor for Better Quality

Having a trouble with quality control of pressed products?

Press Load Digital Display!

Displays the press load digitally based on the pressure change of the overload cylinder.

Easy to Check Load after Die Change!

Able to check the load when press testing after die change. This enables setup time reduction and quick start of production with appropriate load.

Quality Control by Monitoring Changes!

Upper and lower load limits can be set freely. An emergency signal will be sent to the press machine immediately and stop the machine when exceeding the limits.

Also, when the setting range has a margin of load, it is able to stop the machine before the overload protector is activated.

* Measuring range is 20 ~ 100% of the press rated load.

Problems during Press Operation

- Workpiece with different thickness loaded...
- Piled-up workpieces loaded...
- Scratch on a die...



In case of changing to a die with different appropriate load





Solved by Load Monitor!

Load changes in case of an error.

Monitoring Errors Possible!!



Easy Installation!

Product Installation by KOSMEK!

Easy installation with the following two steps conducted by KOSMEK. Installation is possible for existing machines as well.

① Branch a hydraulic circuit for overload protector and install a pressure sensor connected to the load monitor.

2 Calibrate the data of the load monitor and the pressure sensor. (Only at first installation)

* Please prepare an installation port of the pressure sensor to the hydraulic circuit of the overload protector.

Comparison between Strain Gauge and Load Monitor

	Strain Gauge	Load Monitor
Cost Comparison	• High Cost	Comparably Low Cost
Spec Comparison	 Direct Measuring Method Check deformation of a frame. Able to select an option "with Strain Gauge" when ordering a new press machine. (Installed by press machine maker.) 	 Indirect Measuring Method Check the change in hydraulic pressure (within overload). 10% variation in machine capacity ex.) 200 ton × 10% = 20 ton variation

Appropriate Press Load Improves Quality! Longer Operating Life of Die! Load Limit Setting to Prevent Die Breakage!



Monitoring of Changes in **Accuracy Control**

Press Load Enables of Products











Printed Circuit Board Knockout Unit

Having a problem with punching droops and burrs of printed circuit board pin hole?

KOSMEK Piercing System KOPIS is the Solution!

Smooth Ejection with Hydraulic Knockout Pad!

Hydraulic knockout pad enables soft and smooth ejection in a vertical direction that is impossible for a mechanical model.



Ultra-Thin Plate to Make the Most Use of Die Height!

- Separating hydraulic cylinder from the knockout pad enables an ultra-thin plate.
- Hydraulic piston strokes vertically so that oil leakage is rare.
- Strong to eccentric load allowing for designing wide pads.
- Ultra-thin plate enables to make the most use of die height.



KOPIS is a standard sales product. Able to request a repair when needed.



Custom-Made Example

Simplified Fine Blanking

Installation Example

Press Capacity	:	3000 kN
Workpiece External Dimensions	:	140×50×6 mm
Material	:	SS400
Holder Force	:	100kN
Knockout Force	:	300kN
Knockout Pad Stroke	:	9mm

Application Example

High-accuracy stamping of soft material such as aluminum and brass is possible! Combining with a servo press allows for higher accuracy.



The workpiece is deformed due to knockout...





Even and Powerful

Prevents Droops

Knockout Force and Burrs



Knockout pad with longer stroke can be used for metal stamping as simplified fine blanking!



KOPIS can pierce thick metal plates with high accuracy. We have designed custom-made KOPIS for thicker workpieces. Please contact us for further information.







Fluid Supply to Moving Bolster

Automation of Fluid Circuit Connection

Special Product

Automatic Coupler Connection to Supply Fluid to the Moving Bolster





After seating of the moving bolster, the auto coupler is connected and fluid can be supplied.



Specifications

Model No.		JY	
Operating Pr	essure	MPa	max.1
Withstanding	g Pressure	MPa	1.5
Minimum Passage Area			380
Allowable Of	fset	mm	±1
Allowable Ar	ngle Error	0.3°	
Operating Temperature			0~70
Usable Fluid			Air
Deastion	Operating Pressure	1 MPa	3.35
Reaction Force kN		0.7 MPa	2.36
		P MPa	3.29×P+0.06

Notes

1. Do not connect or disconnect the auto coupler under pressure. 2 Do not connect the auto coupler when contaminants are adhered on each connecting surface





The built-in spring makes the packing and the bolster in close contact so that there is no air leakage

* The above is just one example of our custom-made products. External dimensions are determined according to the arrangement of each press machine. We also offer auto couplers for other fluids. Please contact us for further information





Customer Satisfaction Automate Fluid

Multi Coupler

Connect and Disconnect Multiple Couplers at Once

What is Multi Coupler ?

A Device to Connect **Multiple Couplers** in a Single Operation



Pilot air can be connected constantly because the couple connecting valve is opened/closed as JMC : with check valve is connected/disconnected. Check valve for opening/closing coupler connecting valve is not required.

Anti-Corrosion Material

Using stainless steel for the coupler and the gripper, and aluminum for the plate allows for anti-corrosion. Highly durable to air and process water.

Misconnection Prevention

Misconnection Prevention Pin prevents connection failure



Improved! **Circuit Connection**











Model JMC (with Check Valve)



ModelJMD (without check Valve)



Robotic Hand Changer

The World's Only Hand Changer with No Backlash

Transfer Arm Change with High Accuracy

Zero-Backlash Robotic Hand Changer prevents fluctuation on the arm tip and maintains high accuracy even when transferring a longer arm.





Standard Tool Changer

KOSMEK Robotic Hand Changer



Hand Change for **Gantry Loader**

Transfer hand needs to be changed after die change. With 3 μ m repeatability of Robotic Hand Changer, its approaching point does not shift after hand change. This reduces setup time becuase position adjustment is not required.

Transfer Hand Change for Welding Workpieces

The robot itself changes transfer hands to transfer different workpieces. For robot standardization.

Changing of Welding Torch and Welding Vision Camera

Robotic Hand Changer is used for changing welding torch and welding vision camera.

Clamping of Welding Workpiece

Robotic Hand Changer is used for changing robotic hands that hold a welding workpiece. KOSMEK non-backlash changer enables stable product quality and appearance of arc welding



Transfer KAIZEN

Zero-Backlash **Transfer Arm Change**

Hand Changer with High Accuracy

















KOSMEK Exclusive Non-Backlash Mechanism











Standard Tool Changer

Backlash of a Tool Changer Causes Electrode Errors

Noise and Continuity Failure due to Friction of Contact Probe







Dual Contact to Connect with Zero Backlash

Kosmek hand changer with no backlash prevents electrode errors. \Rightarrow No noise occurs.



Secures the Aimed Position

Repeatability when Connected : $3 \mu m$

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

% Repeatability is 5 µm for SWR0010 (0.5kg ~ 1kg payload model)

24-Hour Continuous Operation is Possible with **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 μ m repeatability even after 1 million cycles.

A Broad Lineup of Robotic Hand Changers



from 0.5kg Pavload									
nom olong i ujiouu									
Applicable Payload	0.5 ~ 1 kg	1 ~ 3 kg	3 ~ 7 kg	7 ~ 12 kg					
Recommended Payload	0.5kg	3kg	7kg	12kg					
Model No.	SWR0010	SWR0030	SWR0070	SWR0120					

A Variety of Electrode/Air Joint Options



Only **No Backlash**



The World's **Changer with**







to 360kg Payload 25 ~ 50 kg 50 ~ 75 kg 75 ~ 120 kg | 120 ~ 360 kg 12 ~ 25 kg 50kg 230kg 25kg 75kg 120kg SWR0750 SWR0250 SWR0500 SWR1200 SWR2300



Light & Compact Robotic Hands

KOSMEK Exclusive Internal Chuck Series



Internal Chuck Series (Air Lock / Air Release)

Locating Pin Clamp

FA Pneumatic

Clamp and locate a workpiece hole from above.

Hole Clamp The gripper expands and pulls a workpiece in.

Workpiece Hole Diameter $\phi 10 \sim \phi 20 (9 \text{ sizes})$ Locating Repeatability : $50 \,\mu$ m

Workpiece Hole Diameter ϕ 6 ~ ϕ 14 (in 0.5mm increments) Locating Repeatability : 30 µ m





Expansion Locating Pin enables high-accuracy locating.

Both smooth loading/unloading and high-accuracy locating possible. KOSMEK expansion locating pin allows for stable automation by absorbing variations of reference hole diameter and hole distance and locating with high accuracy.

Locating Repeatability : 10 µ m

High-Accuracy model with Locating Repeatability : $3 \mu m$ is also available. Model VWM



External Chuck Series (Air Lock / Air Release)

High-Power Parallel Hand Parallel Hand

Model WPS

Compact **Parallel Hand**





Model WPA

Compact

Model WPH



KOSMEK Exclusive Much Faster and

Internal Chucks for More Secure Transfe



High-Power Pneumatic Hole Clamp

Used in a machining device. The gripper expands and pulls a workpiece in.

Workpiece Hole Diameter ϕ 6 ~ ϕ 13 (in 0.5mm increments) Repeatability : N/A

Large Expansion Locating Pin

High-accurcy locating pin with large expansion stroke.

Workpiece Hole Diameter : $\phi 9 \sim \phi 15$ (in 1mm increments) Locating Repeatability : $10 \,\mu$ m





Three-Jaw Chuck Two-Jaw Chuck



Model WPP



Model WPQ

Parallel Hand with Auto-Grip Changer



Model WPW



Welding Locating Pin Clamp

Locates and clamps simultaneously using workpiece holes.



Work Efficiency Reduce the Risk Released of Machine Stop Gripper The retracted gripper makes Unable to pull out the workpiece enough clearance to unload because of welding distortion. the workpiece smoothly. General Pin Clamp **KOSMEK Locating Pin Clamp** Stable Clamping **Stable Production** Locked Clearance needs to be large for smooth Zero clearance with gripper loading/unloading, but large clearance expansion. Reduce defects leads to poor locating accuracy... with high accuracy locating!



Lifting device may be required to pull out the stuck workpiece due to welding distortion. General Pin Clamp KOSMEK Locating Pin Clamp **Action Description** Release Air OFF elease Air ON Release Lock Lock Air OFF Workpiece Loading/Unloading 1 Locating Action Gripper expands to locate the workpiece. Gripper is retracted. Workpiece can be smoothly installed due to an adequate space between the workpiece hole and pin. High-Accuracy Locating 0.05mm Locating Repeatability Light • Compact **Safety Function** Built-in locking spring maintains locked state SWP0501 SWP1001 and prevents a workpiece fall even when air pressure is cut off. 135 mm (When released) Air Cutoff E E E 108 Locking Spring **Remains Locked** 380 g 700 g

Lower Fixture Cost



General Pin Clamp

For Sheet Metal

Locates + Clamps

Workpiece

with High Accura







Lock Air ON



Strong to Spatter Non-clearance prevents spatter from entering.

KOSMEK

2 Locking Action

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



Product Description Video

Product description video is available on our website













Welding High-Power Pneumatic Clamp

High-Power Pneumatic Clamp is a hybrid system using air pressure and a mechanical lock.

Welding without Hydraulic Use

No hydraulic pressure is required for the welding fixture system with high-power pneumatic clamps exerting equivalent force to hydraulic clamps.

Triple Protective Structure for **Anti-Contamination**

Spatter-Resistant Structure

Compared to dual link plate design (model WCE), the link mechanism of Welding Clamp is designed to be spatter resistant with single link plate.

High Durability Case Study

The rod operates without failure even after exposed to spatter for a long time.

Locking Operation Released State (Swing Stroke + Vertical Stroke 2mm) $(\widehat{)}\$ The piston rod rotates while it descends The piston rod ascends to along the cam ② After swing completion, the piston rod descends vertically until the lever clamps the workpiece Special Rod Surface Finishing Spatter-Resistant coating protects body surface from weld spatter. Coil Scraper Removes weld spatter. \odot Oi Soft Wiper \bigcirc Dust Seal





r-Old Clam

Boosting Pistor

Piston Rod



Standard Pneumatic Clamp Standard Model WHA0400 0.36kN Output force depends on the cylinder area

Powerful Clamping Force with Mechanical Lock

With mechanical lock and air pressure, it exerts approximately 3 times higher clamping force than the same size comparison cylinder.



Holding Force with Wedge Mechanism

Holding force is not the pressing force but the withstanding force to the reaction force. The powerful holding force enables high-load machining and high-accuracy machining

Holding Force as Equal to Hydraulic Clamp





High-Power Pneumatic Welding without

Clamp Enables Hydraulic Use





% Comparison of Cylinders with Piston Diameter $\phi\,40$ (Air Pressure 0.4MPa, Lever Length 60mm)







Pneumatic Location Clamp

Simultaneously locates and clamps the fixture on the positioner.

Locating Repeatability 3μ m



Fixture Setup on the Positioner





Pneumatic Location Clamp Series

Compact Pneumatic Location Clamp

Pneumatic Location Clamp

Compact model Suitable for setup change of small pallets and light fixtures.

With Contaminant Prevention Prevents cutting fluid and





Air Blow and Seating Check





Contaminants are removed by air blow. Seating surface is provided with the air hole. seating check is possible with a gap sensor.

Self-Locking Spring

Even when air supply is cut off at locked state due to blackout, it will stay locked by self-locking spring. * More than the minimum operating air pressure is required for locating.

Leakless Coupler

Air Pressure Maintained even after Detaching Fixture

Auto coupler automates air supply to a pallet on a positioner. Leakless coupler enables air clamp to remain air pressure on the pallet side by detaching under pressure.





For Welding Fixture Reduce Setup Time

and Pallet Change

to Improve Productiv



KOSMEK





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, Tokyo-Mitsubishi bank, Ikeda bank

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