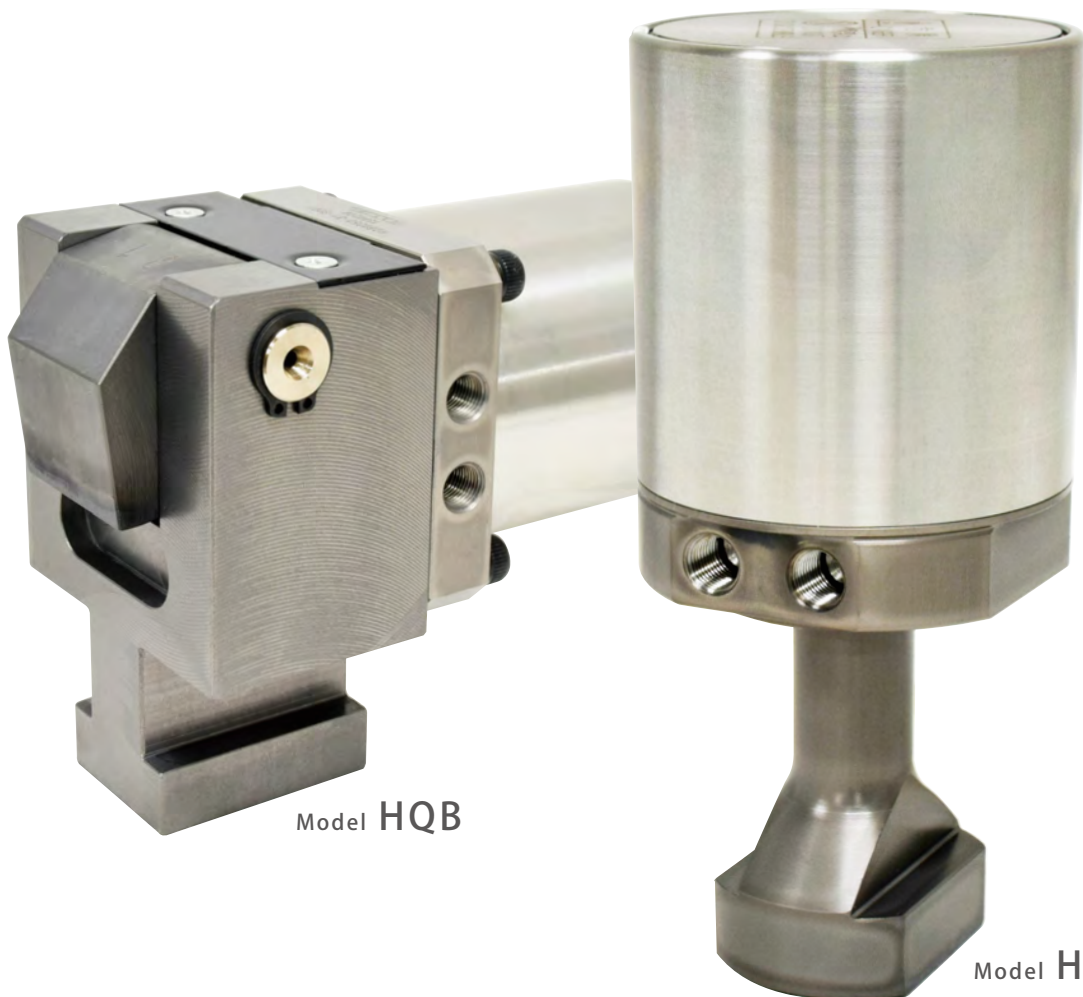


**New**

# High-Power Pneumatic Die Clamp

**Introducing the Automatic Die Clamp for  
Press Machine with No Hydraulic Use!**



Model HQB

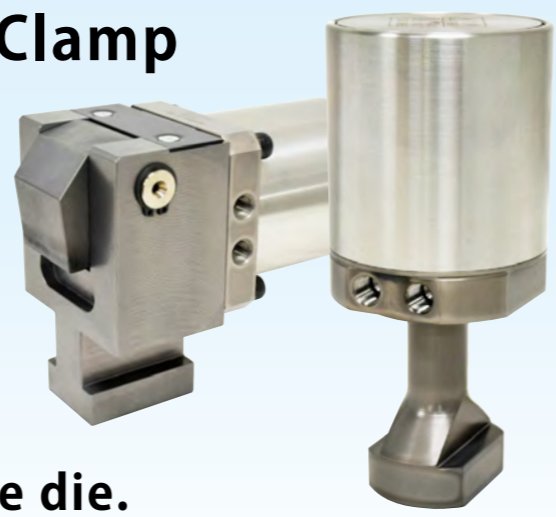
Model HQA

# High-Power Pneumatic Die Clamp

T-Slot Manual Slide

Model HQA

Model HQB

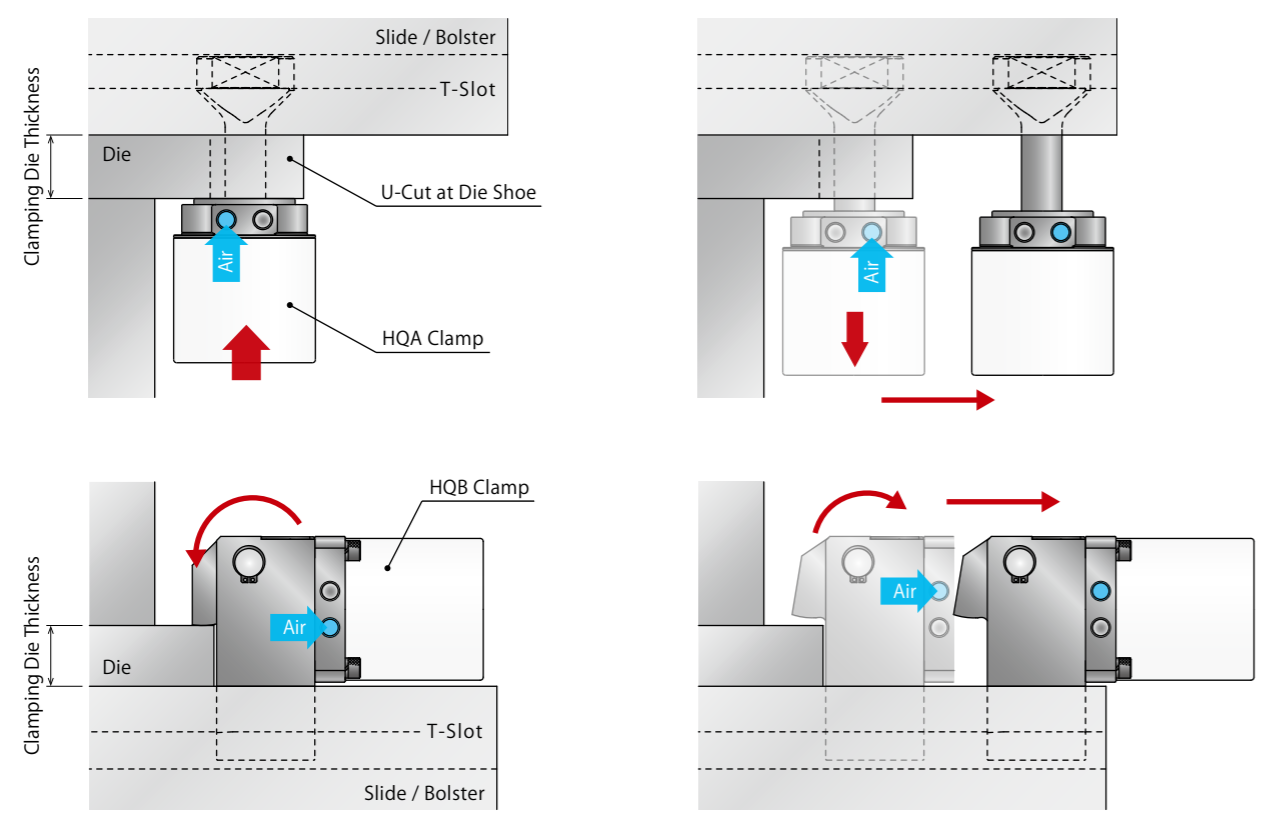


PAT.

Slides in the T-slot and clamps the die.

Compact Die Clamp without Hydraulic Pressure

## Action Description



### Lock Action

- ① Load the die.
- ② Slide the clamp forward in the T-slot.
- ③ By supplying lock air pressure, the clamp with mechanical lock secures the die.

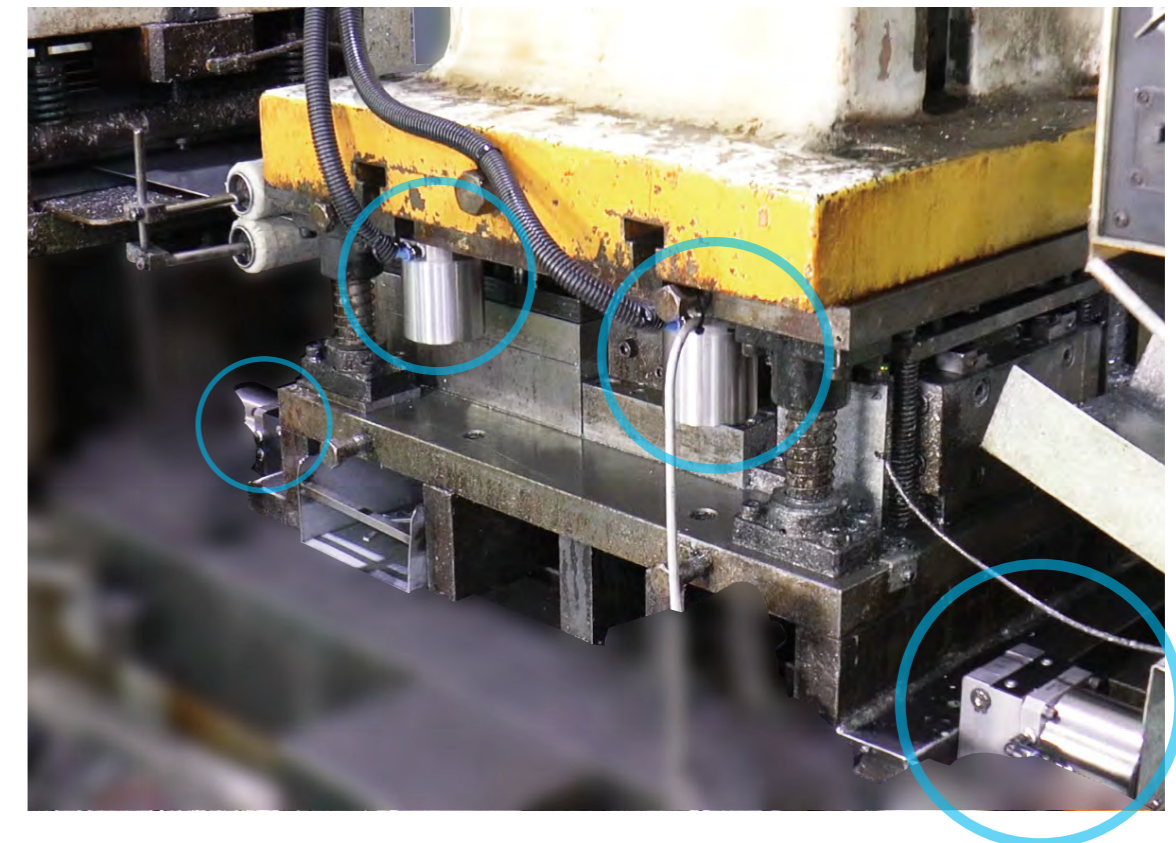
### Release Action

- ① The lever is released when the pressure is released.
- ② Slide the clamp backward in the T-slot.
- ③ Unload the die.

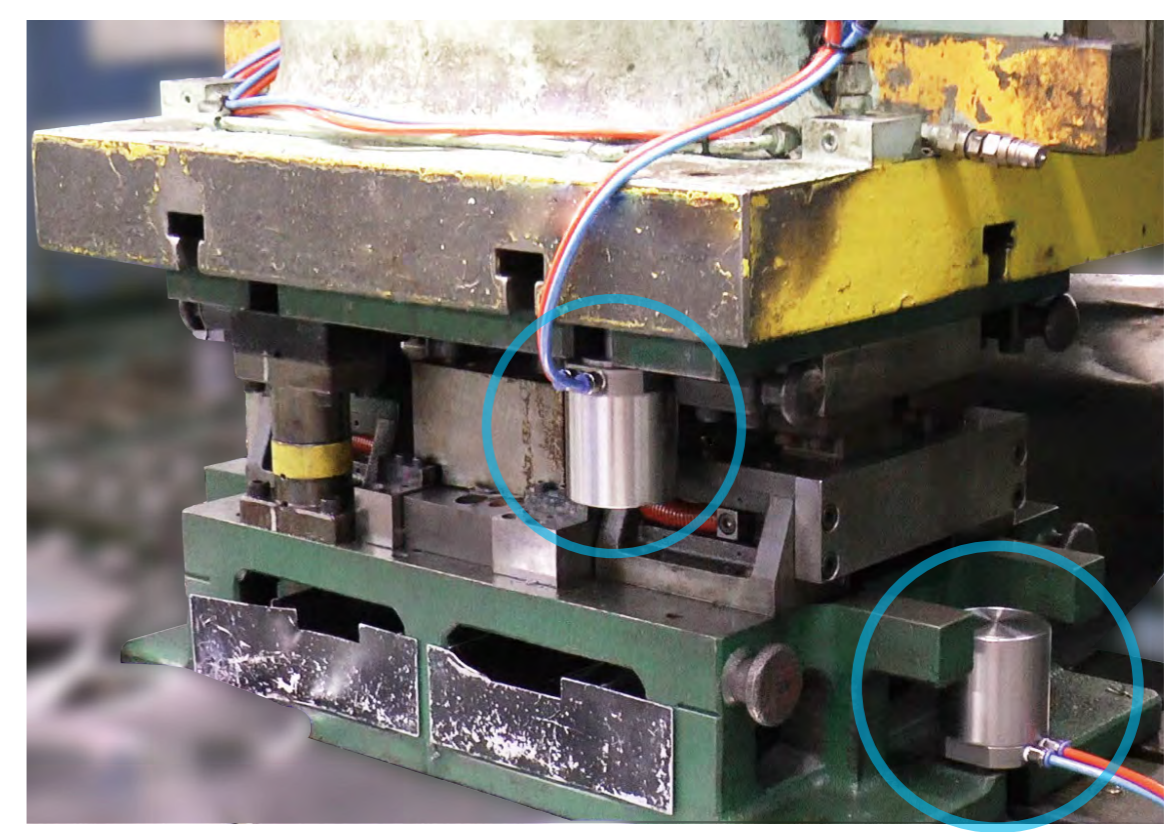
※ We provide HQA/HQB clamps according to the clamping die thickness and T-slot dimension. Please refer to the external dimensions for details.

## Application Examples

- Progressive Die Upper Die : HQA Clamp×4 / Lower Die : HQB Clamp×4



- Single Die Upper Die : HQA Clamp×2 / Lower Die : HQA Clamp×2



High-Power Pneumatic Die Clamp

HQA  
HQB

Air Valve Unit  
MV

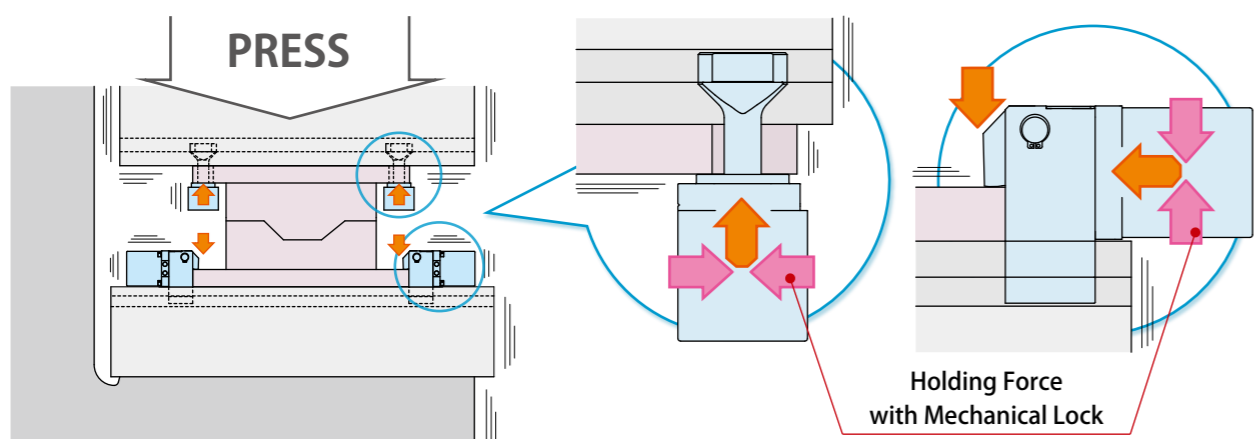
Related Products  
GBC  
SWR



The High-Power Pneumatic Die Clamp is

**HIGH-POWER**  
Pneumatic  
Series

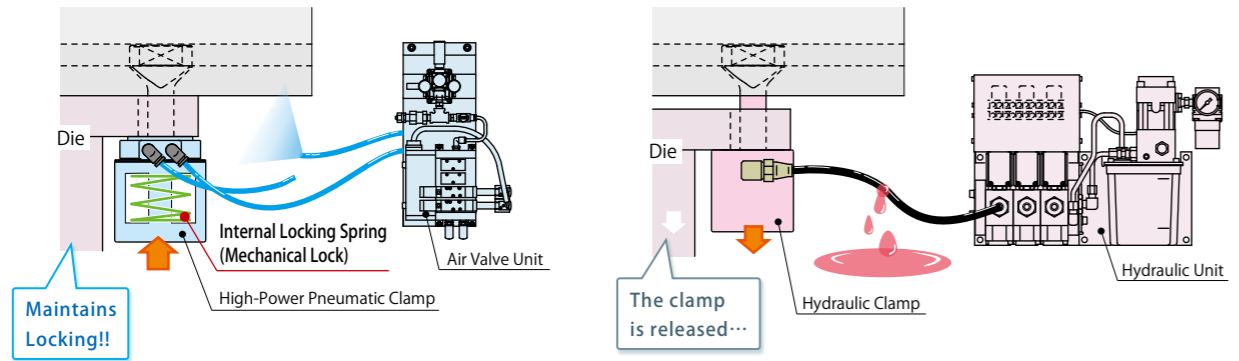
# a **HYBRID** system using air pressure and a mechanical lock.



**Advantages of High-Power Pneumatic Die Clamp**

## Self-Lock Function is built in the clamp.

Even when air pressure is cut off, 20% of holding force will prevent falling of the die.

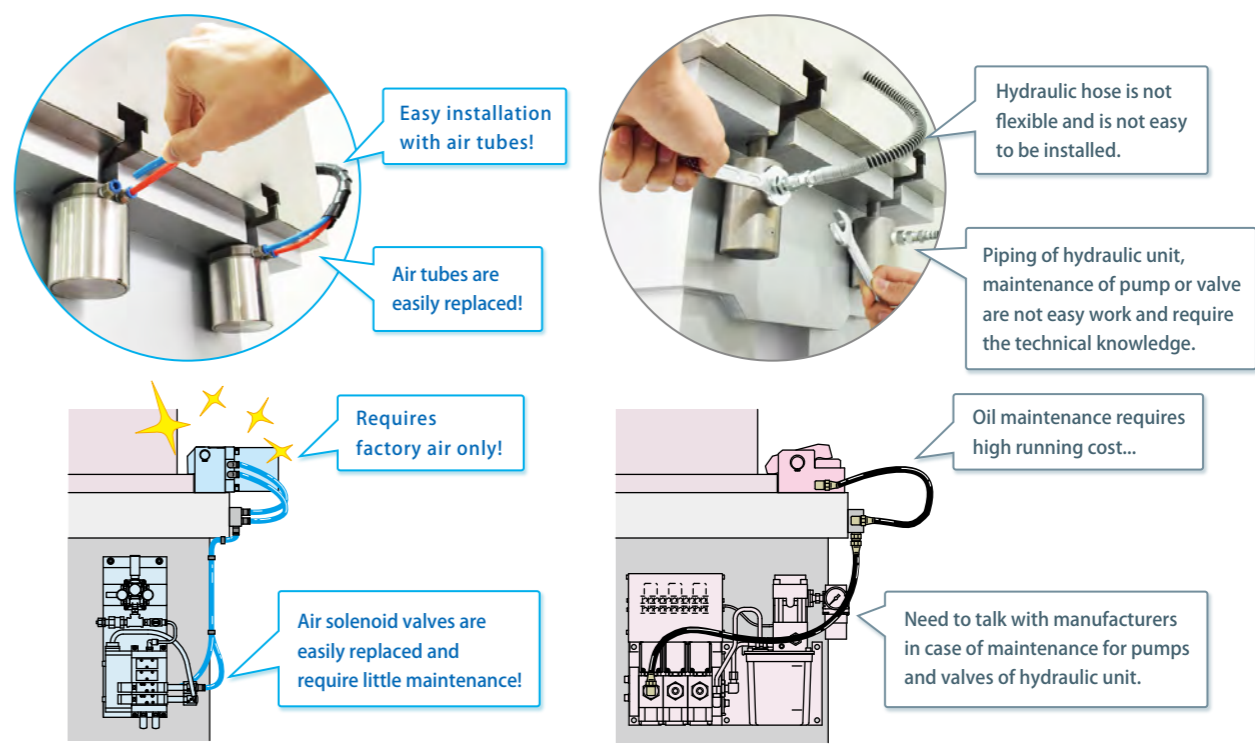


**High-Power Pneumatic Die Clamp**  
**With Self Lock Function**  
Even when air pressure leaks, the clamp will stay locked with the internal locking spring.

**Hydraulic Clamp**  
**No Self Lock Function**  
When hydraulic pressure leaks, the clamp will be released due to the spring release function.

## Improved **Maintainability**

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



Pneumatic System

Hydraulic System

**Short Time • Low Cost Maintenance**

Damages on the piping are easily replaced!  
Valves are available on the market!  
Recovery of equipment in short time!

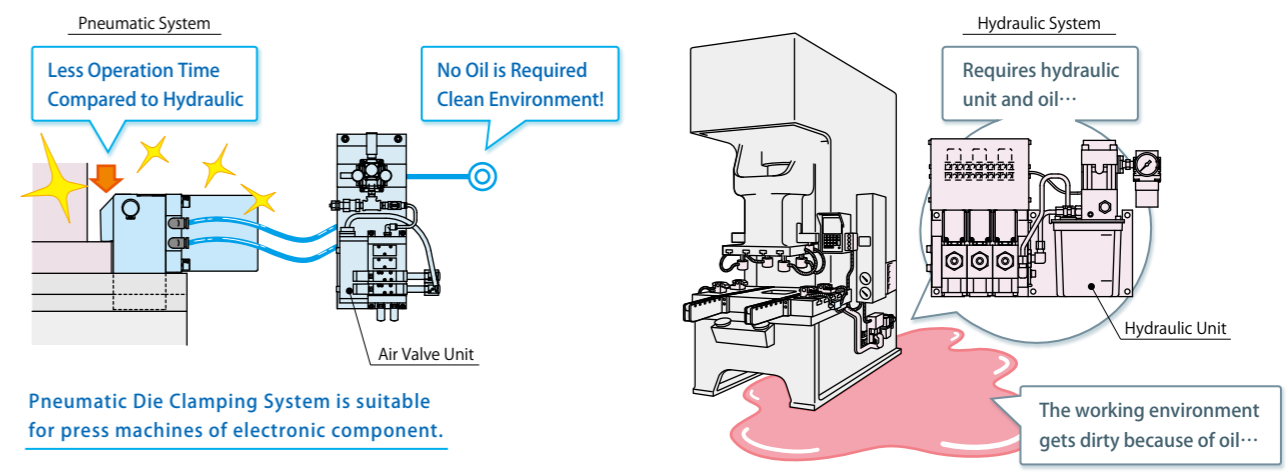
**Long Time • High Cost Maintenance**

Need to talk with manufacturers for replacement of hydraulic hose.  
Require expensive pumps and valves in stock.

## Energy Saving • Time Reduction

Keeps Your Factory Clean.

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



**Pneumatic Die Clamping System is suitable for press machines of electronic component.**

High-Power Pneumatic Die Clamp

- HQA
- HQB

Air Valve Unit

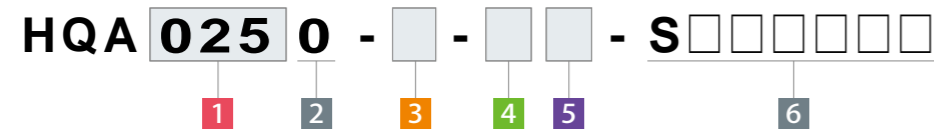
- MV

Related Products

- GBC
- SWR

Piston Clamp (Clamps at U-Cut of Die Shoe) : Model HQA

Model No. Indications



1 Clamping Force

010 : 10 kN	040 : 40 kN
025 : 25 kN	063 : 63 kN

2 Design No.

0 : Revision Number

3 Option

※ Please contact us for specifications, external dimensions, etc.

Blank : Standard

H : Extra Height Rod

N : NPT Port ※1

P : Die Confirmation Proximity Switch (1 040 or more) ※2

T : T-Slot Locking

V : High Temperature (0~120°C)

Note:

※1. Dimensions in the specification sheet and other documents are in inches.

4 Proximity Switch Load Voltage (Current)

※2. Only when P: Die Confirmation Proximity Switch is chosen.

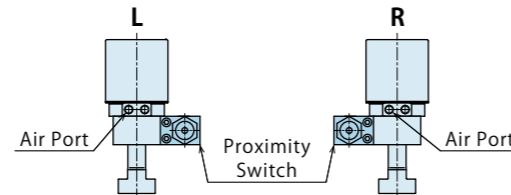
1 : AC100V	5 : DC24V (5~40mA)
2 : AC200V	

5 Proximity Switch Mounting Position

※2. Only when P: Die Confirmation Proximity Switch is chosen.

L : Right Side as Seen from Air Port

R : Left Side as Seen from Air Port



6 Production Number

※ This number represents the main specification of the clamp's T-slot stem and the clamping height. After the specification is confirmed, we will create a number.

Specifications

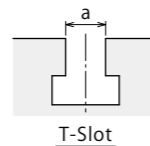
Model No.	HQA0100	HQA0250	HQA0400	HQA0630	
Clamp Capacity	Holding Air Pressure at 0.4~0.8 MPa				
	Force kN	10	25	40	63
	Air Pressure at 0 MPa				
	Clamping Force kN	2.5	6.3	10	15.8
		2.2	5.6	8.9	14
		2.0	4.9	7.8	12.3
		1.7	4.2	6.7	10.6
1.4		3.5	5.6	8.8	
Air Pressure at 0 MPa					
0.25	0.63	1.0	1.58		
Full Stroke	mm	4	4	6	6
Cylinder Capacity	cm <sup>3</sup>				
	Lock	29	77	188	279
Release	30	78	191	284	
Air Pressure	MPa	0.4~0.8			
Withstanding Pressure	MPa	1.0			
Usable Fluid		Dry Air			
Operating Temperature ※3	°C	0~70 (V High Temperature : 0~120)			
Use Frequency ※4		Less than 20 Cycles / Day			
Minimum T-Slot Width a (JIS) ※5	mm	8	12	16	18

Notes:

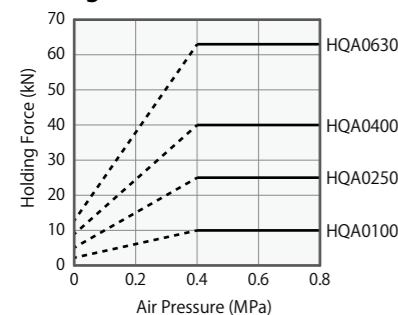
※3. Option V : High Temperature for operating temperature 0~120°C.

※4. Please contact us for more frequent use.

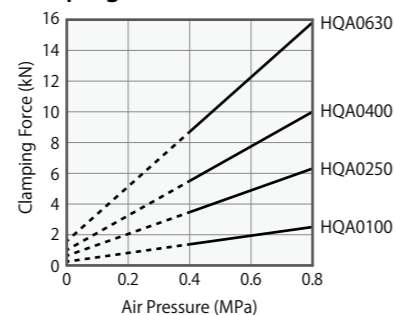
※5. It shows reference dimensions. The dimension may differ from specification depending on T-slot (T-leg) dimension.



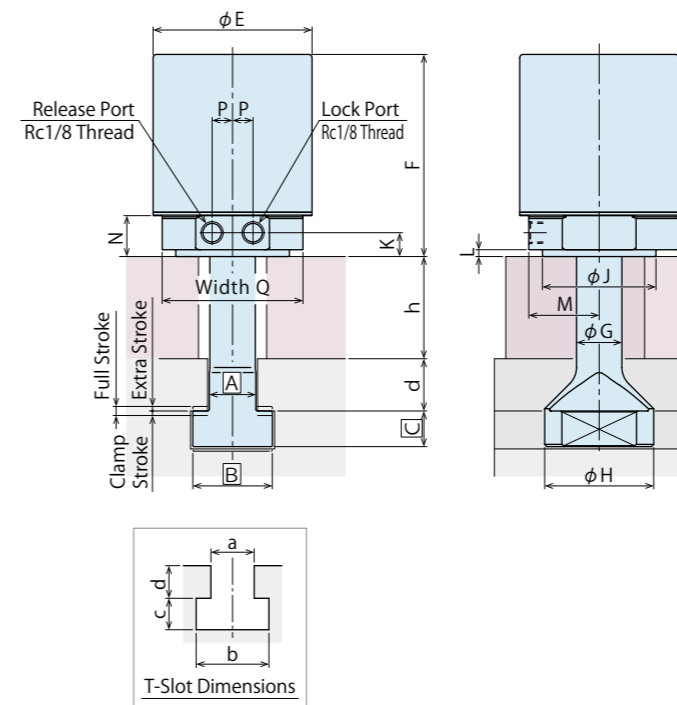
Holding Force Curve



Clamping Force Curve



External Dimensions

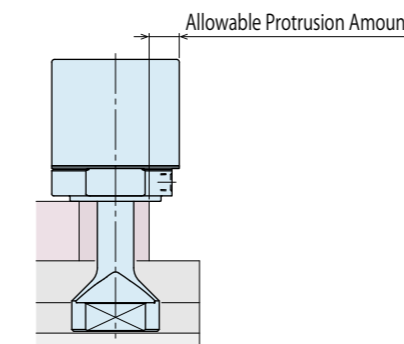


Model No.	HQA0100	HQA0250	HQA0400	HQA0630
Full Stroke	4	4	6	6
Clamp Stroke ※6	2	2	3	3
Extra Stroke ※6	2	2	3	3
E	50	70	90	108
F	77	89	126	128
G	15	20	25	30
H	30	48	58	68
J	38	50	60	78
K	9	10.5	10.5	10.5
L	2	3	3	3
M	20	31	39	48
N	16	18	18	18
P	8	9	15	16.5
Q	40	62	-	-
min.C	5	7	9.5	11
max.h+d	60	80	90	100

Notes:

- The drawing shows the clamped condition of 3 Option "Blank: Standard" in the model No. indication. Please contact us for external dimensions for options.
- A, B, C dimensions are determined by Kosmek according to the T-slot dimensions.
- When making an order, please indicate a, b, c, d dimensions of T-slot and h dimensions of die clamping thickness.
- Please indicate the dimensions of a, b, c, d and h in 0.1mm increments.
- When the dimension of h+d is higher than the standard, 3 Option H: Extra Height Rod should be chosen.
- Do not exceed the clamp's capacity.
- Specifications/Contents in this catalog are subject to change without prior notice. Ask for the approval drawing before deciding to purchase.
- If you would like to change the ratio of clamp stroke and extra stroke, please contact us separately.

Allowable Protrusion Amount when Locking

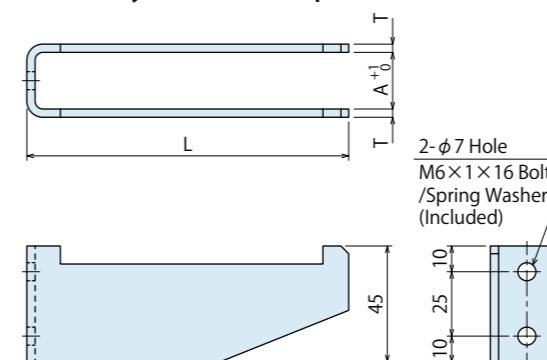


Model No.	Allowable Protrusion Amount (mm)
HQA0100	18
HQA0250	25.5
HQA0400	34
HQA0630	41

Note:

- The dimensions on the list are for reference. The dimensions may differ from specification depending on T-slot (T-leg) dimension or body material.

Accessory : HQAH Clamp Hook

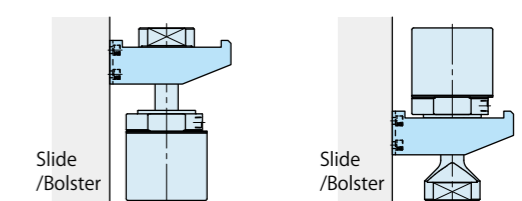


Note:

- Please do not operate the press machine continuously with clamp suspended from clamp hook. Clamp hook should be used only during the die change.

Model No.	HQAH220	HQAH280
a (T-Slot)	20~22	24~28
A	22	28
L	125	125
T	3.2	3.2

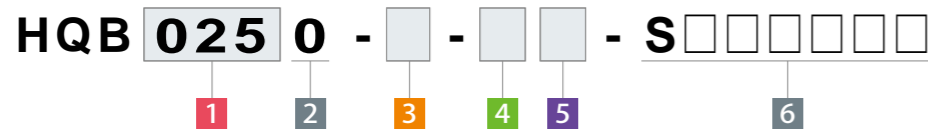
Application Examples



High-Power Pneumatic Die Clamp
HQA
HQB
Air Valve Unit
MV
Related Products
GBC
SWR

Lever Clamp (No U-Cuts Required) : Model HQB

Model No. Indications



1 Clamping Force

010 : 10 kN	040 : 40 kN
025 : 25 kN	063 : 63 kN

2 Design No.

0 : Revision Number

3 Option

※ Please contact us for specifications, external dimensions, etc.

Blank : Standard

H : Extra Height Body

J : Low Lever

N : NPT Port ※1

P : Die Confirmation Proximity Switch (1 040 or more) ※2

V : High Temperature (0~120°C)

Note:

※1. Dimensions in the specification sheet and other documents are in inches.

4 Proximity Switch Load Voltage (Current)

※2. Only when P: Die Confirmation Proximity Switch is chosen.

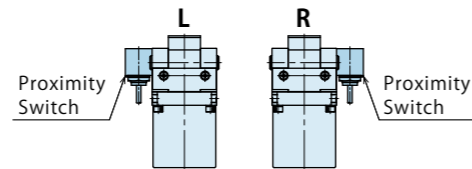
1 : AC100V	5 : DC24V (5~40mA)
2 : AC200V	

5 Proximity Switch Mounting Position

※2. Only when P: Die Confirmation Proximity Switch is chosen.

L : Left Side as Seen from Clamp Back Side

R : Right Side as Seen from Clamp Back Side



6 Production Number

※ This number represents the main specification of the clamp's T-slot stem and the clamping height. After the specification is confirmed, we will create a number.

Specifications

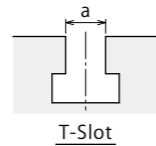
Model No.	HQB0100	HQB0250	HQB0400	HQB0630	
Clamp Capacity	Holding Air Pressure at 0.4~0.8 MPa				
	Force kN Air Pressure at 0 MPa				
	Air Pressure at 0.8 MPa				
	Air Pressure at 0.7 MPa				
	Air Pressure at 0.6 MPa				
	Air Pressure at 0.5 MPa				
	Air Pressure at 0.4 MPa				
Air Pressure at 0 MPa					
Full Stroke	mm	4	4	6	6
Cylinder Capacity	cm <sup>3</sup>				
	Lock	29	77	188	279
	Release	30	78	191	284
Air Pressure	MPa	0.4~0.8			
Withstanding Pressure	MPa	1.0			
Usable Fluid		Dry Air			
Operating Temperature ※3	°C	0~70 (V High Temperature : 0~120)			
Use Frequency ※4		Less than 20 Cycles / Day			
Minimum T-Slot Width a (JIS) ※5	mm	10	14	18	22

Notes:

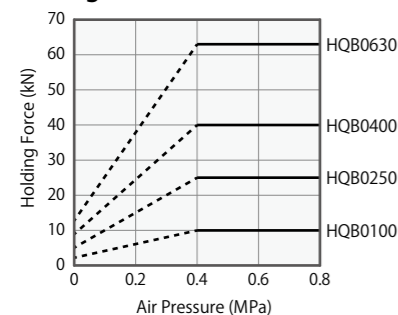
※3. Option V : High Temperature for operating temperature 0~120°C.

※4. Please contact us for more frequent use.

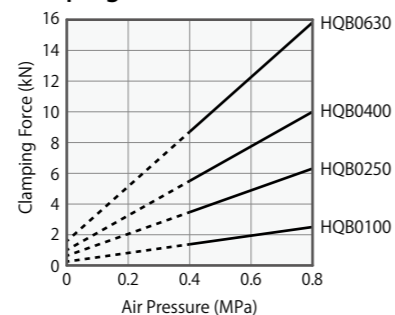
※5. It shows reference dimensions. The dimension may differ from specification depending on T-slot (T-leg) dimension.



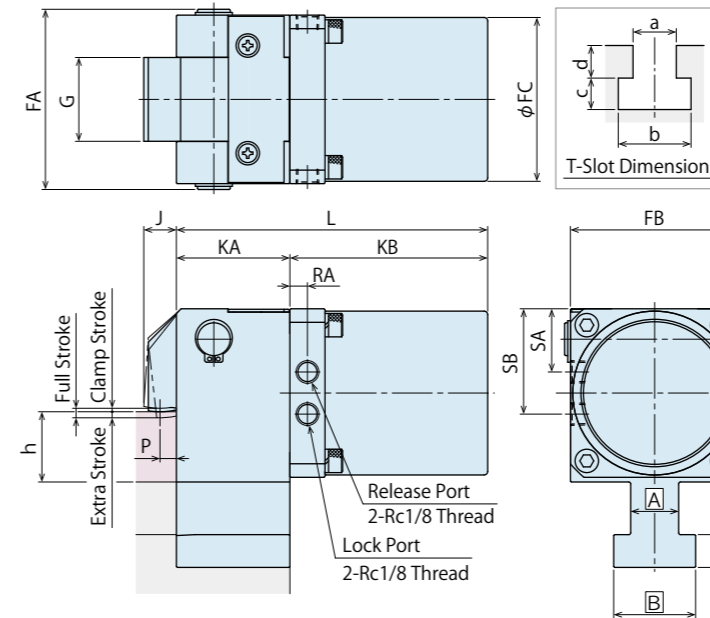
Holding Force Curve



Clamping Force Curve



External Dimensions

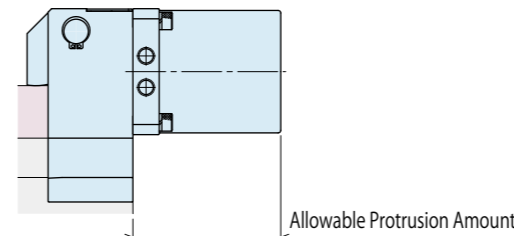


Model No.	HQB0100	HQB0250	HQB0400	HQB0630
Full Stroke	4	4	6	6
Clamp Stroke ※6	1.5	1.5	2	2
Extra Stroke ※6	2.5	2.5	4	4
min.E	53	74	93	115.5
FA	55	77	95	117
FB	50	72	90	112
FC	50	70	90	108
G	24.8	35.8	44.8	55.8
max.J	14	15	22	24
KA	35	48.5	59	71
KB	75	84.5	123	125
L	110	133	182	196
P	6	7	7.5	9
RA	7.5	7.5	7.5	7.5
SA	17	27	30	41
SB	33	45	60	74
min.h	15	20	25	30
max.h	30	40	50	60
min.h (of B J)	10	15	20	25

Notes:

- The drawing shows the clamped condition of 3 Option "Blank: Standard" in the model No. indication. Please contact us for external dimensions for options.
- A B C D dimensions are determined by Kosmek according to the T-slot dimensions.
- When making an order, please indicate a, b, c, d dimensions of T-slot and h dimensions of die clamping thickness.
- Please indicate the dimensions of a, b, c, d and h in 0.1mm increments.
- When it is lower than the min. h, 3 Option J : Low Lever should be chosen. When it is higher than the max. h, 3 Option H : Extra Height Body should be chosen.
- Do not exceed the clamp's capacity.
- Specifications/Contents in this catalog are subject to change without prior notice. Ask for the approval drawing before deciding to purchase.
- If you would like to change the ratio of clamp stroke and extra stroke, please contact us separately.

Allowable Protrusion Amount when Locking

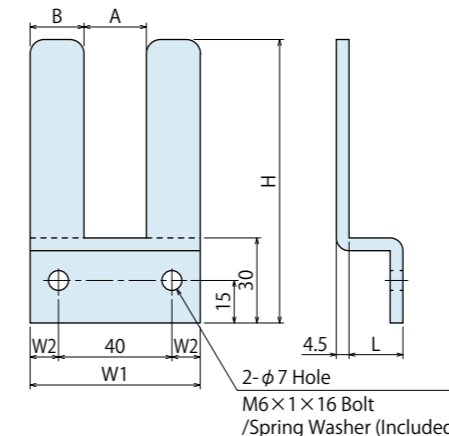


Model No.	Allowable Protrusion Amount (mm)
HQB0100	75
HQB0250	84.5
HQB0400	123
HQB0630	125

Note :

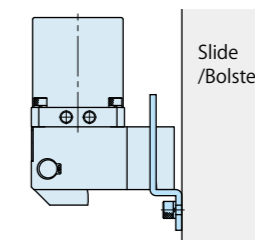
- The dimensions on the list are for reference. The dimensions may differ from specification depending on T-slot (T-leg) dimension or body material.

Accessory : HQBH Clamp Hook



Model No.	HQBH180	HQBH220	HQBH280
A	18	22	28
B	21	19	21
H	100	100	110
L	19	19	25
W1	60	60	70
W2	10	10	15

Application Examples



Note:

- Please do not operate the press machine continuously with clamp suspended from clamp hook. Clamp hook should be used only during the die change.



# Air Valve Unit

Model MV90



## Automatic Control Air Valve Unit

With Booster Valve, Suitable for Control of High-Power Pneumatic Die Clamp

### Model No.

**MV901** **2** - **GG** - **1** - **4** - **5**

### 1 Design No.

**2** : Revision Number

### 2 Circuit Symbol <sup>※1</sup>

**G** : One Clamp Circuit  
**GG** : Two Clamp Circuits

Note:

※1. Please contact us for die lifter circuit.

### 3 Control Voltage

**1** : AC100V      **5** : DC24V  
**2** : AC200V

### Specifications

Model No.	MV9012
Valve	Metal Seal / Five-Port Pilot Operated
Position · Number of Solenoid	Two-Position Single Solenoid
Piping Port Size	Rc1/4
Min. Passage Area	mm <sup>2</sup> 15
Usable Fluid	Dry Air
Clamp Max. Operating Pressure	MPa 0.8
Incoming Supply Air Pressure	MPa 0.3 ~ 0.4
Fluid Temperature	°C -10 ~ 60
Oil Supply	No Oil Supply
Protection	Dust-Proof

### 4 Operating Air Pressure

**3** : 0.3 MPa  
**4** : 0.4 MPa

### 5 Option

**Blank** : Standard  
**N** : NPT Port <sup>※2</sup>

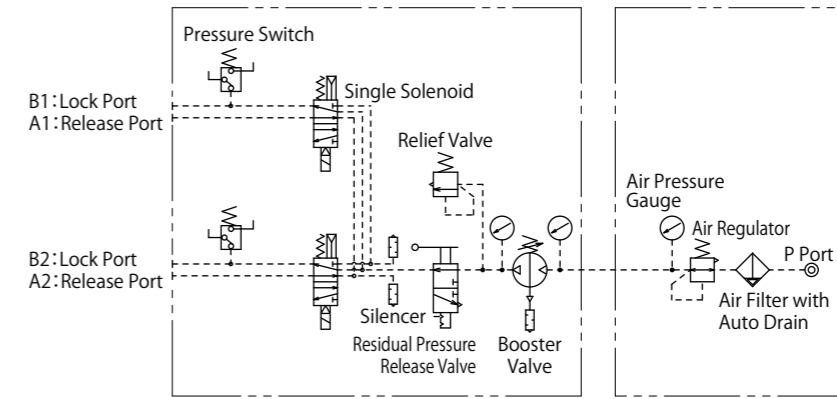
Note:

※2. When selecting **5 N**:NPT Port, the dimensions in the specification sheet and other documents are in inches.

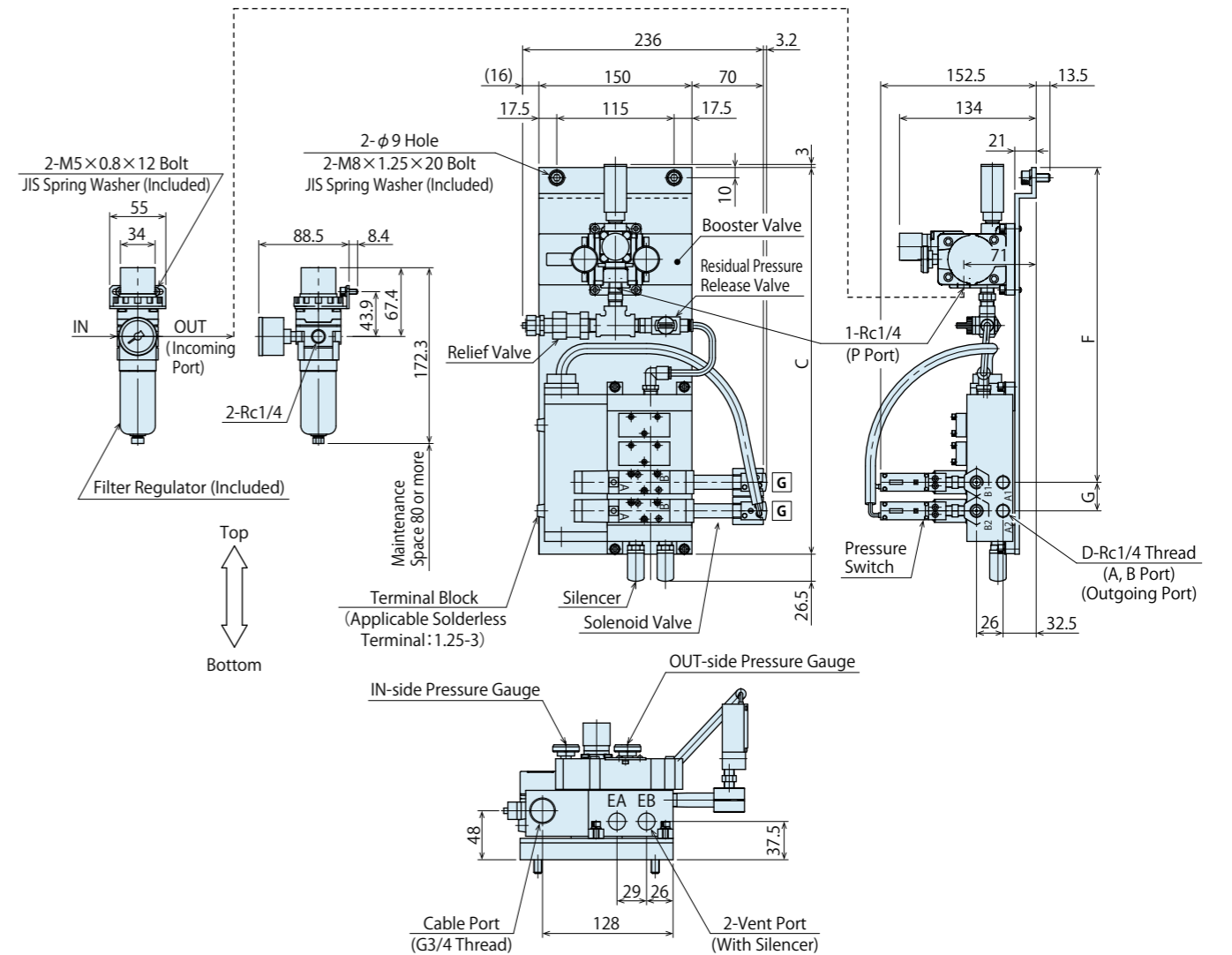
Notes:

- Each pressure is set as shown below before shipment.  
When selecting **4 3**:0.3MPa  
Incoming Pressure (Filter Regulator):0.3MPa  
Outgoing Pressure (Boosting Valve):0.6MPa  
Pressure Switch:0.4MPa  
Relief Valve:0.65MPa  
When selecting **4 4**:0.4MPa  
Incoming Pressure (Filter Regulator):0.4MPa  
Outgoing Pressure (Boosting Valve):0.8MPa  
Pressure Switch:0.5MPa  
Relief Valve:0.85MPa  
Before use, check with the pressure gauge of boosting valve that the incoming/outgoing pressure is set as shown above.
- Use a residual pressure release valve when bleeding outgoing pressure for maintenance, etc. (When operating a clamp, the residual pressure release valve must be closed.)

### Circuit Symbol <sup>※</sup> This shows when selecting Circuit Symbol:GG.



### External Dimensions <sup>※</sup> This drawing shows MV9011-GG.



### External Dimensions

Circuit Symbol	C	D	F	G
<b>G</b>	323	2	280.5	-
<b>GG</b>	379	4	308.5	28

### Components

Equipment Name	Model No.	Maker
Filter Regulator	AW20-02BCG-A	SMC
Booster Valve	VBA10A-02GN	SMC
Relief Valve	NSV-302K10	TACO
Residual Pressure Release Valve	HV02-6	PISCO
Manifold with Terminal Block	VV5F52-01T1-041-02	SMC
Solenoid Valve	VF52100-□F	SMC
Silencer	AN20-02	SMC
Pressure Switch	APS-6D-W	CKD

- Notes :
- Follow the top and bottom directions when mounting.
  - Piping, etc. to connect the filter regulator and booster valve is prepared by customer.
  - Use a stainless steel pipe or nylon tube/hose, etc. for air piping to prevent rust.

High-Power  
Pneumatic Die Clamp

HQA

HQB

Air Valve Unit

MV

Related Products

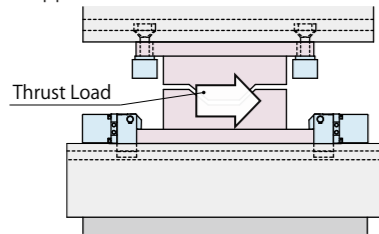
GBC

SWR

**Cautions**

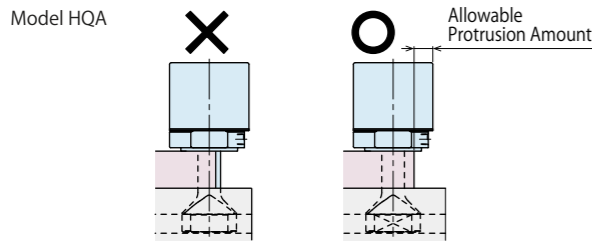
Notes for Design

- Check specifications.
  - Please use each product according to the specifications.
  - Do not exceed the specified operating pressure. Falling down of the die due to the damage on clamps leads to injury. In order to reduce clamping force, use them with lower operating pressure.
  - The ambient operating temperature of clamp should be 70°C or less. (For High Temperature Model, it should be 120°C or less.)
  - When selecting the clamping force, consider the thrust load which is applied on the die.

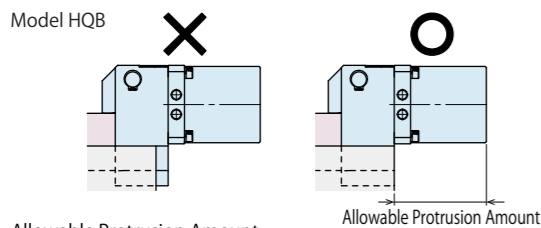


- Check clamping die thickness.
  - Please check the clamping die thickness. If using dies other than specified, clamps cannot conduct locking action normally leading to injury.
- Check T-slot dimensions.
  - Please check the T-slot dimensions. If T-slot dimensions are different from the specification, clamps cannot conduct locking action normally leading to injury.

- When the clamp cylinder sticks out of U-slot or T-slot, please use it within the allowable protrusion amount. Otherwise, excessive force is applied to the clamp and it deforms the clamp or damages mounting bolt resulting in falling off of the clamp and injury.
  - Sticks out from the U-cut of the die. . . . Model HQA
  - Sticks out from T-slot of the slider / bolster. . . . Model HQB



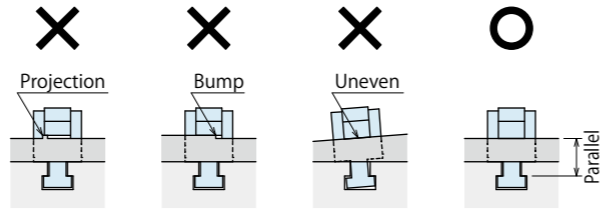
Model No.	Allowable Protrusion Amount (mm)
HQA0100	18
HQA0250	25.5
HQA0400	34
HQA0630	41



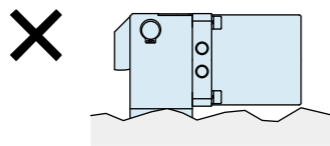
Model No.	Allowable Protrusion Amount (mm)
HQB0100	75
HQB0250	84.5
HQB0400	123
HQB0630	125

※. The dimensions on the list are for reference. The dimensions may differ from specification depending on T-slot (T-leg) dimension or body material.

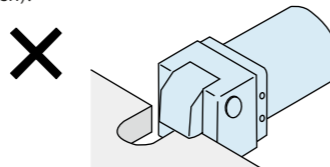
- The clamp surface and T-slot must be parallel to mounting surface of the die.
  - If clamp surface is not even or parallel, excessive force is applied to the clamp and it deforms main body and lever of the clamp resulting in falling off of the clamp and injury.



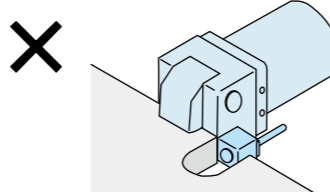
- When Using HQB Clamp
  - The clamp sliding surface must be smooth (without any bumps). Otherwise the clamp does not slide properly.



- Make sure there is no notch such as U-cut on the clamping part of the die. Otherwise, clamps cannot conduct locking action normally leading to injury. Please contact us for clamping a die with U-cut (notch).



- When Using HQB-P Clamp (with Die Confirmation Proximity Switch)
  - Make sure there is no notch such as U-cut on the die surface where the die confirmation proximity switch contacts. Otherwise the die confirmation proximity switch does not operate properly.

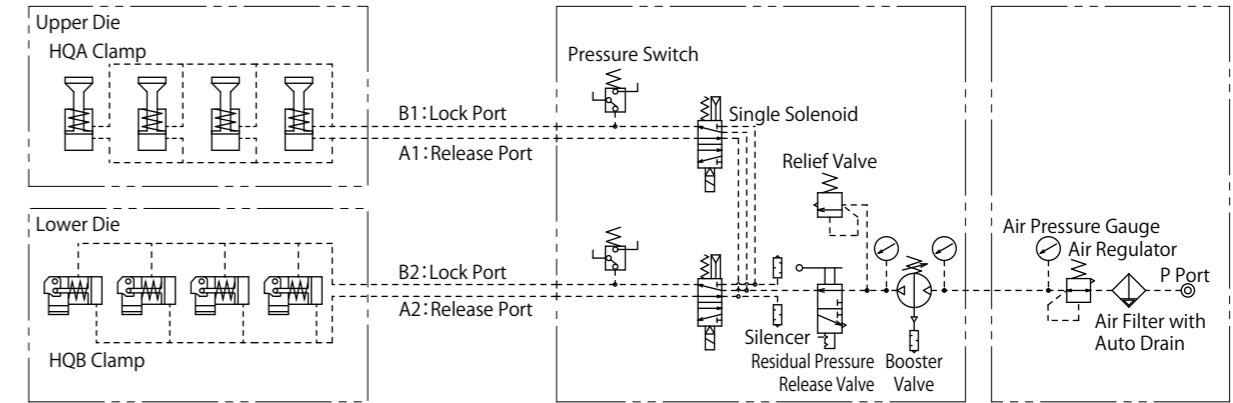


- When using with Die Lifter
  - Do not lift up the die lifter while in clamp locked state.
  - When unloading the die, lift up the die lifter after setting the clamp aside.

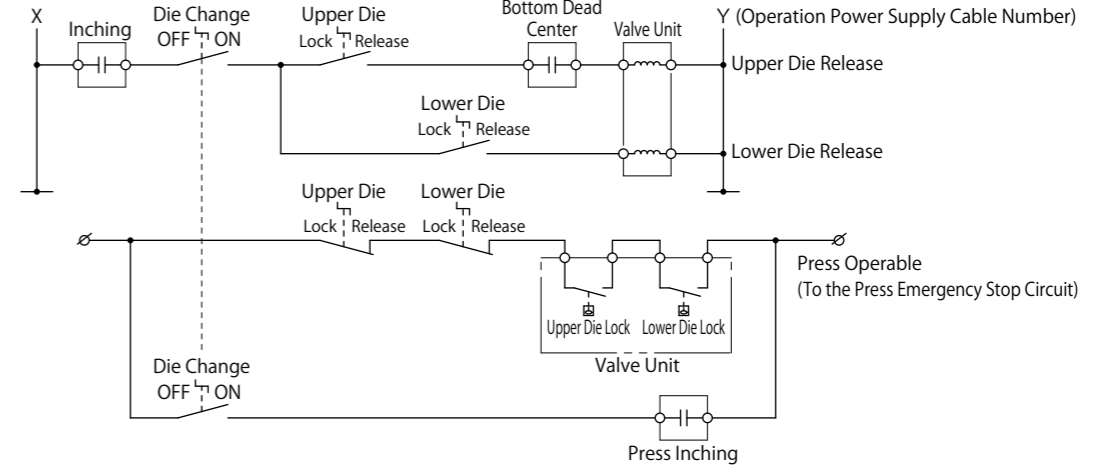
- Do not use with spring die lifter.
  - Clamp cannot be locked properly due to the lifting force of the spring die lifter.

- Notes for Circuit Design
  - Be careful with the circuit design. Please design the air · electric circuit properly and review the circuit design in advance in order to avoid malfunction or breakage of the device.
  - Refer to the circuit diagram below for designing by customer.

【Air Circuit Example】

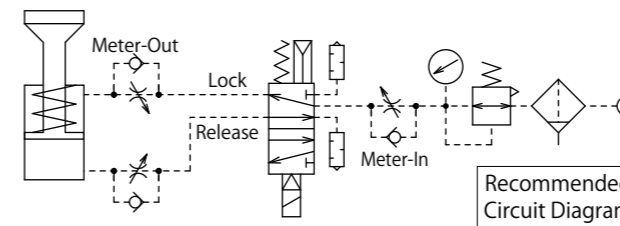


【Electric Circuit Example】



Installation Notes

- Check the fluid to use.
  - Please supply filtered clean dry compressed air. (Install the drain removing device such as an aftercooler and air dryer, etc.) Since the initial lubricant is applied, oil supply with a lubricator etc. is unnecessary. If oil is supplied with a lubricator, the product ability decreases and the pin operation may be unstable due to the loss of the initial lubricant.
- Operating Speed Adjustment
  - Install a speed control valve (meter-out) and gradually control the flow rate from the low-speed side (small flow) to the designated speed. Controlling from the high-speed side (large flow) causes excessive surge pressure or overload to the clamp leading to damage of a machine or device.
- Clamp Fall Prevention
  - Make sure the clamp does not fall from T-slot. Falling of the clamp leads to injury.
- Procedure before Piping
  - The pipeline, piping connector and fixture circuits should be cleaned and flushed thoroughly. The dust and cutting chips in the circuit may lead to fluid leakage and malfunction. (There is no filter provided with this product for prevention of contaminants in the air circuit.)
- Applying Sealing Tape
  - Wrap with tape 1 to 2 times following the screwing direction. When piping, be careful that contaminants such as sealing tape do not enter in products. Pieces of the sealing tape can lead to air leaks and malfunction.
- Piping and Wiring
  - For piping and wiring, make sure not to damage air tubes and electric wires when a clamp moves forward and backward.
- When supplying air pressure with coupler, it is better to change the color of tube or coupler type in order not to connect lock air and release air opposite to each other.



High-Power  
Pneumatic Die Clamp  
HQA  
HQB

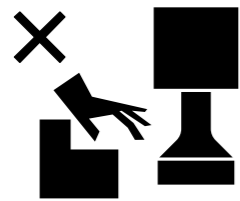
Air Valve Unit  
MV

Related Products  
GBC  
SWR

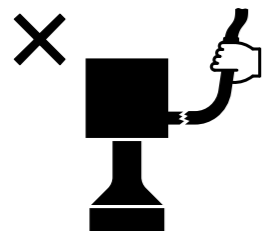
**Cautions**

● Notes on Handling

- 1) Shutting down of the machine should be done without load applied to the clamp.
  - This can result in the dropping of a mold / die.
  - When using it with a press machine, make sure to stop the slide at bottom dead point.
- 2) It should be handled by qualified personnel.
  - The pneumatic equipment should be handled and maintained by qualified personnel.
- 3) Do not handle 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 preventive devices are in place.
  - ② Before the product is removed, make sure that the above-mentioned safety measures are in place. Shut off the air and power supply and make sure no pressure exists in the air circuit.
  - ③ After stopping the machine, do not remove until the product cools down.
  - ④ Make sure there is no abnormality in the bolts and respective parts before restarting the machine or equipment.
- 4) Do not touch clamps while they are working.
  - Otherwise, your hands may be injured.



- 5) When changing the width of the die, make sure to check the allowable protrusion amount.
  - If using it with beyond allowable protrusion amount, excessive force is applied to the clamp which deforms or damages the clamp resulting in falling off of the die and accident or injury. Please refer to "Notes for design No.4 (P.11)" for the allowable protrusion amount.
- 6) Please hold the main body of the clamp when moving or removing it.
  - If pulling on air tube, the clamp will fall off leading to injury. Also, rivet part of the hose will be loosened leading to air leakage.



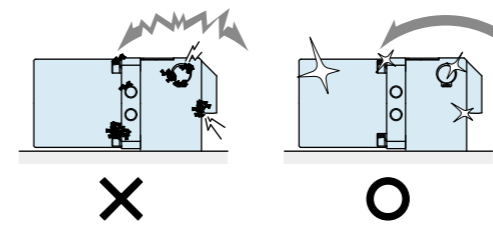
- 7) Do not disassemble or modify it.
  - If the equipment is taken apart or modified, the warranty will be voided even within the warranty period.
- 8) Please do not pour water / oil over the product.
  - It may lead to malfunction or deterioration of the product and cause an accident.



- 9) Make sure not to connect lock air and release air opposite to each other when supplying air pressure by connecting/disconnecting the coupler.
  - Operate lock/release action after connecting/disconnecting the coupler to make sure that the clamp operates properly.
- 10) Do not apply load on the clamp when air pressure is at 0MPa.
  - In case of air source trouble the clamp has holding force with mechanical lock even when air pressure is at 0MPa. However, do not apply load on the clamp at this state.
- 11) Do not supply lock air and release air simultaneously.
  - It leads to damage and decline of the clamp capacity.

● Maintenance/Inspection

- 1) Removal of the Machine and Shut-off of Pressure Source
  - Before the machine is removed, make sure that the above-mentioned safety measures are in place. Shut off the pressure source and make sure no pressure exists in the air circuit.
  - Make sure there is no abnormality in the bolts and respective parts before restarting.
- 2) Regularly clean the area around the product.
  - 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, bolts, snap rings, etc. to ensure proper use.
- 4) Make sure to supply filtered clean dry air.
- 5) Make sure there is smooth action and no air leaks.
  - Especially when it is restarted after being left unused for a long period, make sure it can be operated properly.
- 6) The products should be stored in the cool and dark place without direct sunshine or moisture.
- 7) 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 If the product is used while it is not suitable for use based on the operator's judgment, resulting in defect.
      - ③ If it is used or handled in inappropriately 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 damages 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.



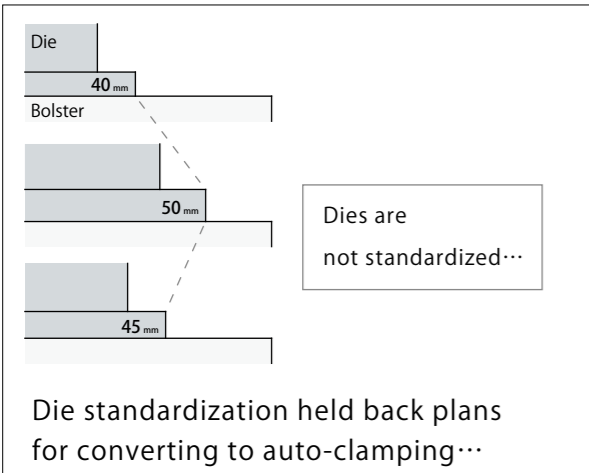
Revolutionary Long Stroke Design Means

# Die Variation Possible!!

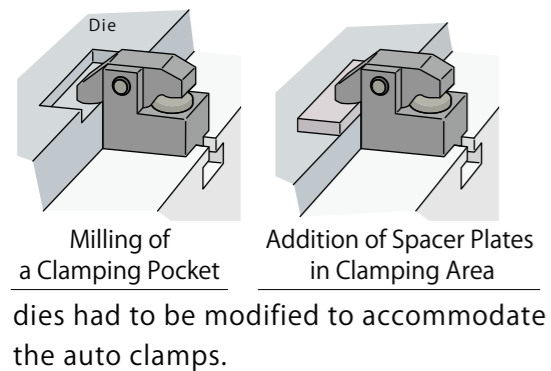
Presenting the World's First Long **Stroke Lever Clamp!**



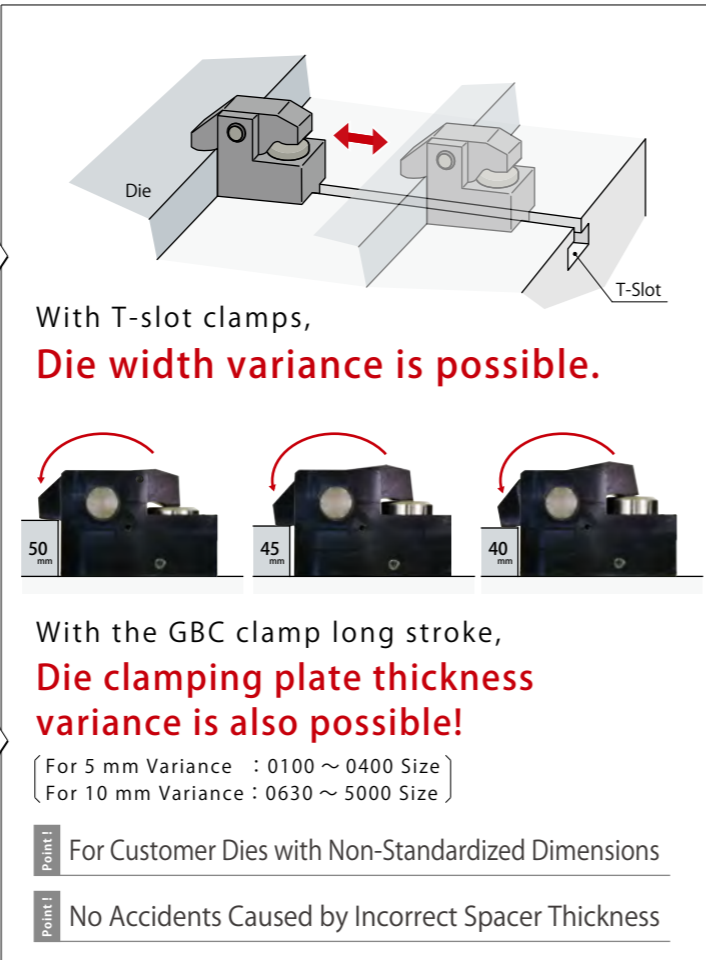
## In the Past...



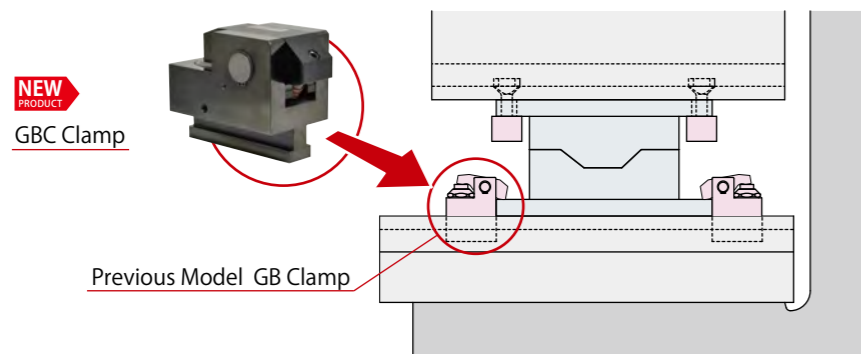
To introduce auto clamping when plates were not standardized...



## The Future is Now!

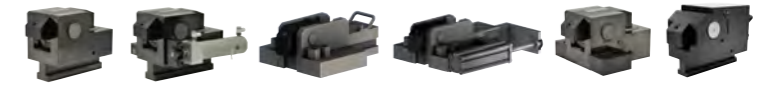


An existing system can be converted to a long stroke system by replacing only the clamps.



Announcing, for Kosmek's basic hydraulic clamp line,

# A Full Model Change!!



Disassembly and assembly possible **with only standard tools!**

Redesigned from the ground up with ease of maintenance in mind.

**NEW  
MODEL**

**Point 1** Since no special tools are required,  
**no clamp-specific knowledge is required.**

**Point 1** Since anyone can assemble and disassemble the clamp,  
**only a seal kit is needed to perform on-site maintenance.**

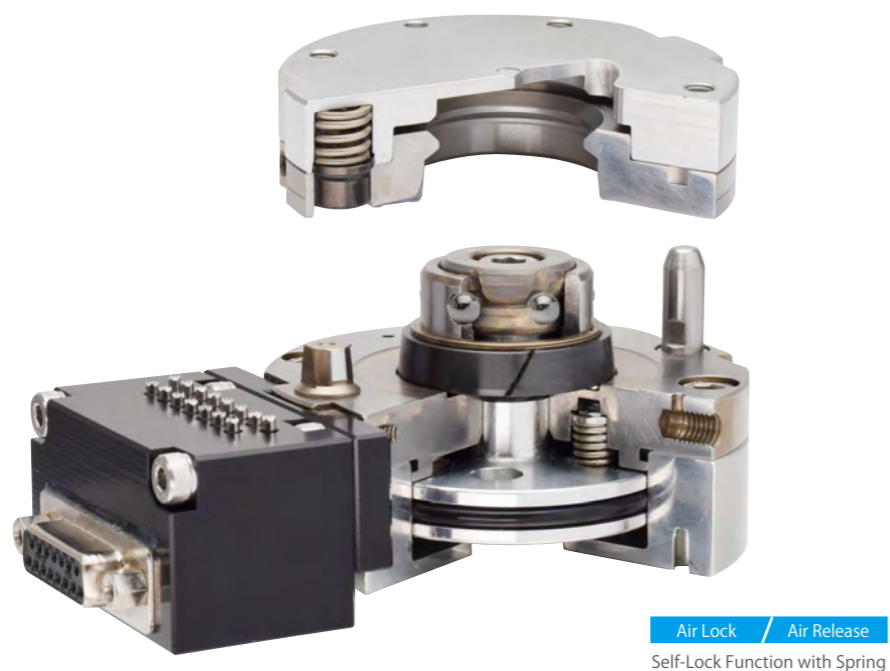
**PREVIOUS  
MODEL**

Disassembly and assembly of the lever and cylinder **required special tools and jigs...**

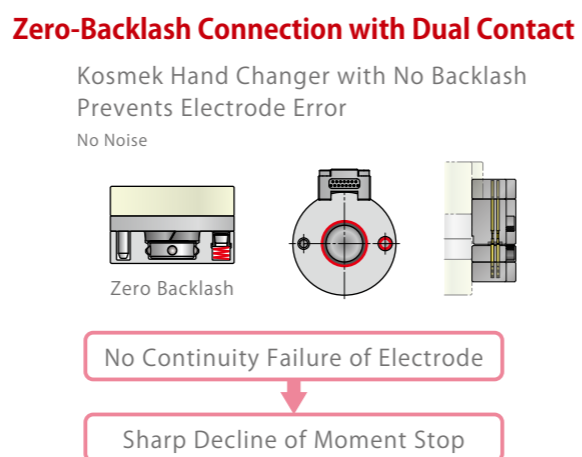
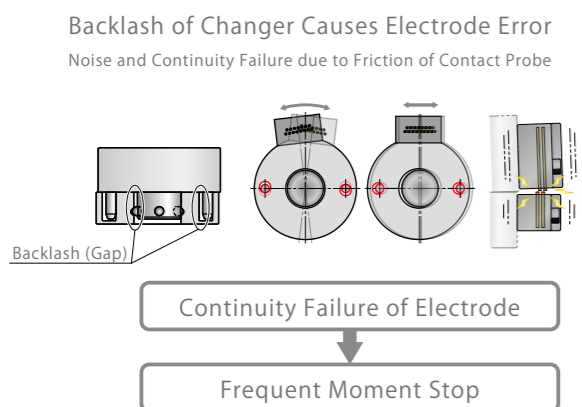
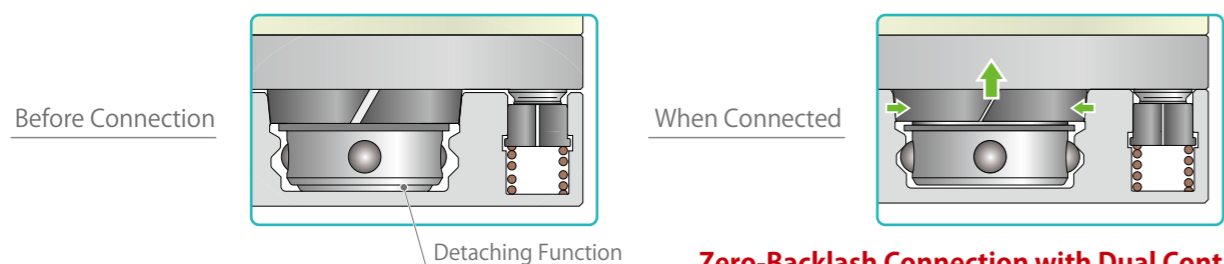
For Hand Change of Transfer Robots!

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

Model SWR



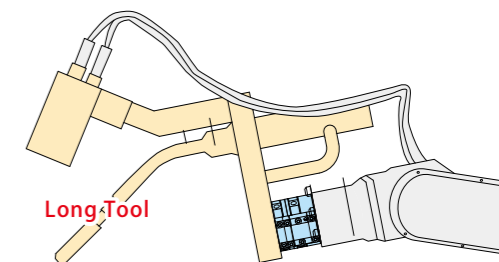
## KOSMEK Exclusive Non-Backlash Mechanism



## Secures the Aimed Position

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

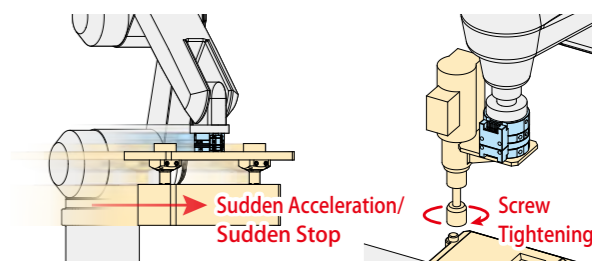
Even with long tools or hands, fluctuation of the edge is extremely small. It secures high accuracy processing even after tool change.



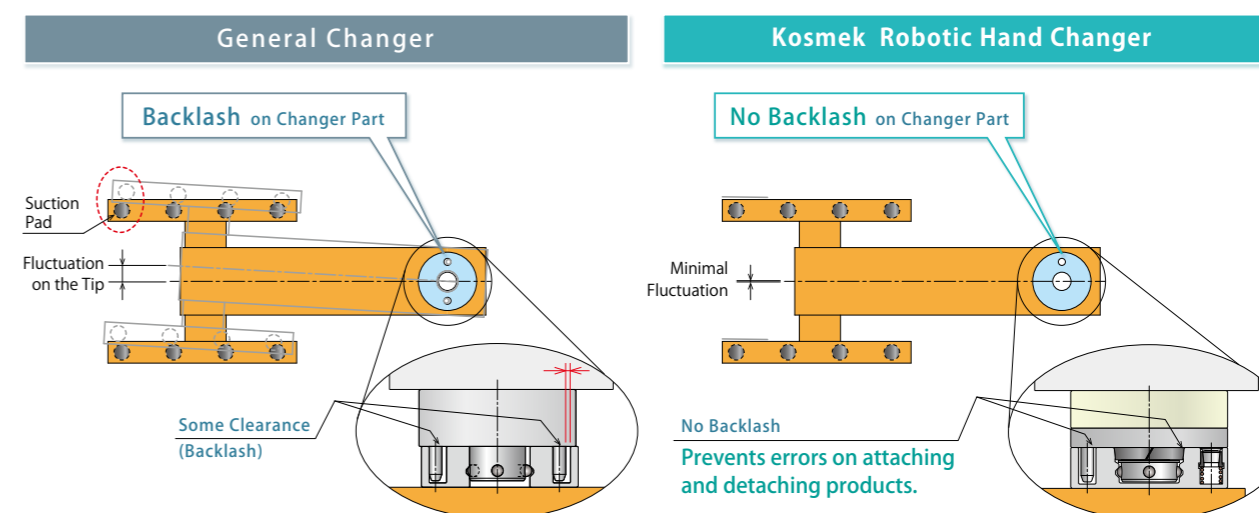
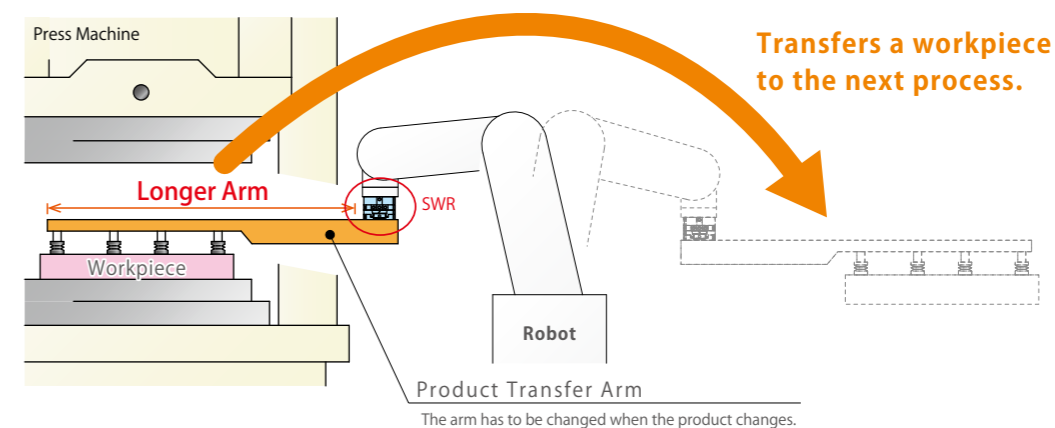
## 24-Hour Continuous Operation is Possible

Unequaled **Rigidity** and **Durability**

Strong to "bending" 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 tool so that it ensures high durability and 3 μm locating repeatability even after 1 million use.



## High Accuracy Exchange of Transfer Arm



- High-Power Pneumatic Die Clamp
- HQA
- HQB
- Air Valve Unit
- MV
- Related Products
- GBC
- SWR**

# Product Line-up

We have various types of hydraulic and pneumatic products. Please let us know your requirements, and we will make it happen.



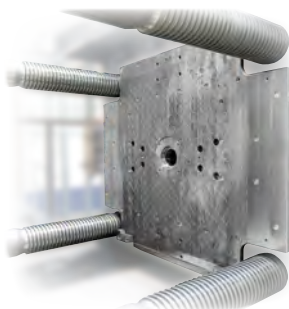
## ■ QUICK DIE CHANGE SYSTEMS

FOR PRESS MACHINES



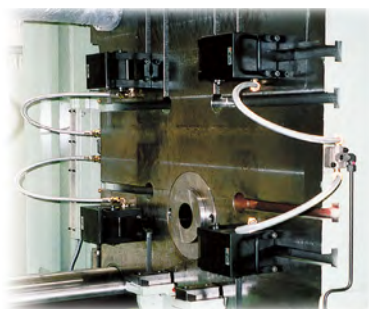
## ■ FA • ROBOTIC AUTOMATION PRODUCTS

FOR FACTORY AUTOMATION



## ■ QUICK MOLD CHANGE SYSTEMS

FOR INJECTION MOLDING MACHINES



## ■ DIECAST CLAMPING SYSTEMS

FOR DIECAST MACHINES



## ■ KOSMEK WORK CLAMPING SYSTEMS

MACHINE TOOL RELATED PRODUCTS

# KOSMEK

Harmony in Innovation

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