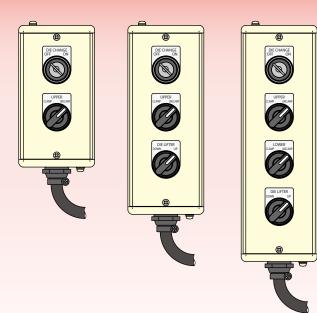
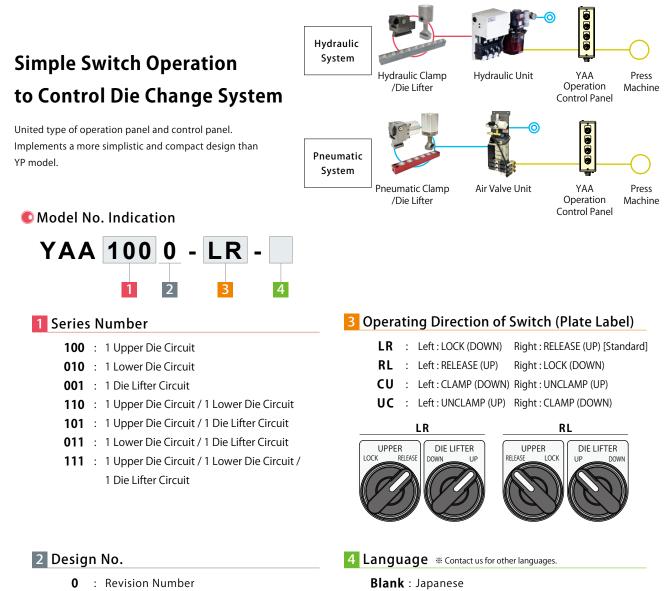
Operation Control Panel

Model YAA



Operation Control Panel with User-Friendly Controls Prevents misoperation with the interlock function.



C : Chinese

: English

Ν

Specifications

Model No.	YAA	
Туре	Operation and Control Panel United Type	
Die Change Selector Switch	Key Switch 90° - 2 Notch (Stop Manually at Each Position)	
Each Selector Switch	Selector Switch 90° - 2 Notch (Stop Manually at Each Position)	
Operating Temperature Range	-25 ~ 50 $^{\circ}$ C (No freezing allowed)	
Paint Color Munsell Number : 5Y7/1 (JEM Standard Panel Color)		

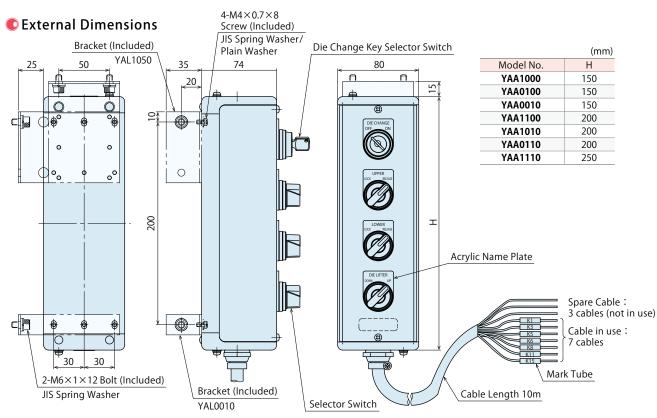
Notes: 1. When using YAA Operation Control Panel, electric remodeling on press side should be conducted by customer. 2. Please contact us for specifications that are not listed on the model no. indication and the specifications. 3. Please contact us for an automatic slide model.

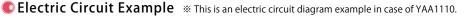
Interlock Input and Output

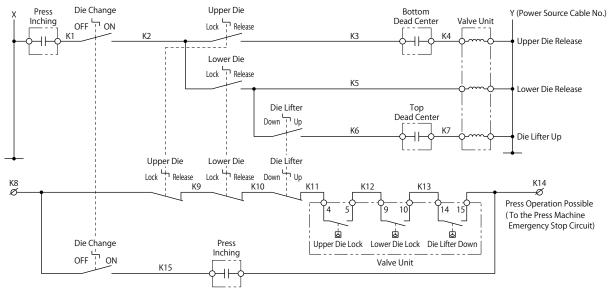
Press Machine Output	Content	
Bottom Dead Center	Confirms a bottom dead center signal to allow clamp operation.	
Top Dead Center	op Dead Center Confirms a top dead center signal to allow die lifter operation.	
Inching Confirms a press inching signal to allow die change.		

 Press Machine Input
 Content

 Emergency Stop
 Makes an emergency stop of a press machine in case hydraulic pressure for clamp is decreased.

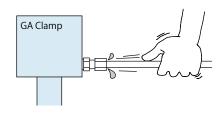






Cautions

- Installation Notes (Cautions for Hydraulic Series)
- 1) Check the Usable Fluid
- Please use the appropriate fluid by referring to the Hydraulic Fluid List.
- If viscosity grade of hydraulic oil is higher than ISO-VG-32, action time becomes longer.
- If using it at low temperature, action time will be longer because the viscosity of hydraulic oil becomes higher.
- 2) Procedure before Piping
- Pipelines, piping connectors and others should be cleaned by thorough flushing.
- Dust and cutting chips in the circuit may lead to fluid leakage and malfunction.
- Our products except some valves are not equipped with protective function that prevents contamination.
- 3) Applying Sealing Tape
- Wrap with tape 1 to 2 times following the screw direction.
- Pieces of the sealing tape can lead to fluid leakage and malfunction.
- Please implement piping construction in a clear environment to prevent anything getting in products.
- 4) Air Bleeding of the Hydraulic Circuit
- If the hydraulic circuit has excessive air, the action time may become very long. If air enters the circuit after connecting the hydraulic port or under the condition of no air in the oil tank, please perform the following steps.
- ① Reduce hydraulic pressure to less than 2MPa.
- ② Loosen the cap nut of pipe fitting closest to the clamp by one full turn.
- ③ Shake the pipeline to loosen the outlet of pipe fitting. Hydraulic fluid mixed with air comes out.



- ④ Tighten the cap nut after bleeding.
- ⑤ It is more effective to release air at the highest point inside the circuit or at the end of the circuit.
- 5) Checking Looseness and Retightening
- At the beginning of the machine installation, the bolt and nut may be tightened lightly. Check the looseness and re-tighten as required.

Hydraulic Fluid List

ISO Viscosity Grade ISO-VG-		
Maker	Anti-Wear Hydraulic Oil	Multi-Purpose Hydraulic Oil
Showa Shell Sekiyu	Tellus S2 M 32	Morlina S2 B 32
Idemitsu Kosan	Daphne Hydraulic Fluid 32	Daphne Super Multi Oil 32
JX Nippon Oil & Energy	Super Hyrando 32	Super Mulpus DX 32
Cosmo Oil	Cosmo Oil Cosmo Hydro AW32	
ExxonMobil	Mobil DTE 24	Mobil DTE 24 Light
Matsumura Oil Hydol AW-32		
Castrol	Hyspin AWS 32	

Note : Please contact manufacturers when customers require products in the list above.

Notes on Handling Mai



Clamp Hydraulic Unit Operation Control Panel

Die Lifter Pre-Roller

Accessories

Cautions Company Profile

Cautions		
	Installation Notes (For Hydraulic Series) Hydraulic Fluid List	
	Notes on Hydraulic Cylinder Speed Control Unit	
	Notes on Handling	
	Maintenance / Inspection	
	Warranty	

Company Profile

Company Profile Our Products History Sales Office

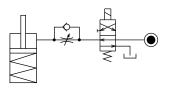
Notes on Hydraulic Cylinder Speed Control Unit

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Please pay attention to the cautions below. Design the hydraulic circuit for controlling the action speed of hydraulic cylinder. Improper circuit design may lead to malfunctions and damages. Please review the circuit design in advance.

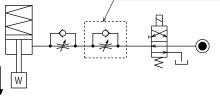
Flow Control Circuit for Single Acting Cylinder

For spring return single acting cylinders, restricting flow during release can extremely slow down or disrupt release action. The preferred method is to control the flow during the lock action using a valve that has free-flow in the release direction. It is also preferred to provide a flow control valve at each actuator.



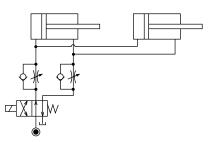
Accelerated clamping speed by excessive hydraulic flow to the cylinder may sustain damage. In this case add flow control to regulate flow.

Flow Control at the Release Side

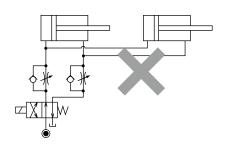


Flow Control Circuit for Double Acting Cylinder Flow control circuit for double acting cylinder should have meter-out circuits for both the lock and release sides. Meter-in control can have adverse effect by presence of air in the system.

[Meter-out Circuit]

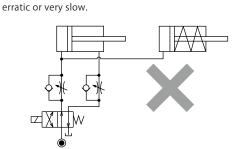


[Meter-in Circuit]

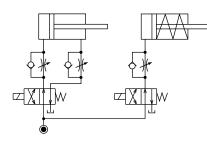


In the case of meter-out circuit, the hydraulic circuit should be designed with the following points.

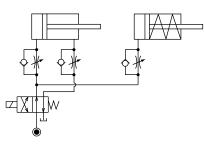
 ① Single acting components should not be used in the same flow control circuit as the double acting components.
 The release action of the single acting cylinders may become



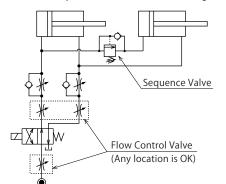
Refer to the following circuit when both the single acting cylinder and double acting cylinder are used together. O Separate the control circuit.



Reduce the influence of double acting cylinder control unit.
 However, due to the back pressure in tank line, single action cylinder is activated after double action cylinder works.



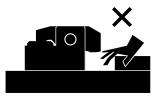
② In the case of meter-out circuit, the inner circuit pressure may increase during the cylinder action because of the fluid supply. The increase of the inner circuit pressure can be prevented by reducing the supplied fluid beforehand via the flow control valve. Especially when using sequence valve or pressure switches for clamping detection. If the back pressure is more than the set pressure then the system will not work as it is designed to.



Cautions

Notes on Handling

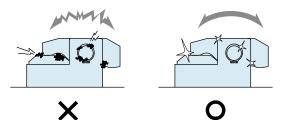
- 1) It should be operated by qualified personnel.
- Hydraulic products, machines and devices should be operated and maintained by qualified personnel.
- 2) Do not operate or remove the product unless the safety protocols are ensured.
- ① The machine and equipment can only be inspected or prepared when it is confirmed that the safety devices are in place.
- ② Before the product is removed, 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 hydraulic and air circuits.
- ③ After stopping the product, do not remove until the temperature drops.
- ④ Make sure there is no abnormality in the bolts and respective parts before restarting the machine or equipment.
- Do not touch a 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 • Inspection

- 1) Removal of the Product and Shut-off of Pressure Source
- Before removing the product, make sure that safety 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 product.
- If it is used when the surface is contaminated with dirt, it may lead to packing seal damage, malfunctioning and fluid leakage.



- If disconnecting by couplers, air bleeding should be carried out on a regular basis to avoid air mixed in the circuit.
- 4) Regularly tighten bolts, pipe line, mounting bolt, nut, snap ring, cylinder and others to ensure proper use.
- 5) Make sure the hydraulic fluid has not deteriorated.
- 6) 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.
- 7) The products should be stored in the cool and dark place without direct sunshine or moisture.
- 8) Please contact us for overhaul and repair.

Warranty



Clamp Hydraulic Unit **Operation Control Panel**

Die Lifter Pre-Roller

Accessories

Cautions **Company Profile**

Installation Notes (For Hydraulic Series) Hydraulic Fluid List Notes on Hydraulic Cylinder Speed Control Unit Notes on Handling Maintenance / Inspe Warranty

Company Profile

Company Profile Our Products History Sales Office

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 operated in an 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.
- $\ensuremath{\textcircled{}}$ 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.





Sales Offices across the World

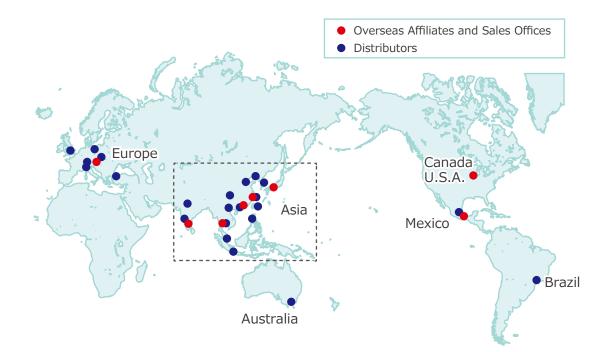
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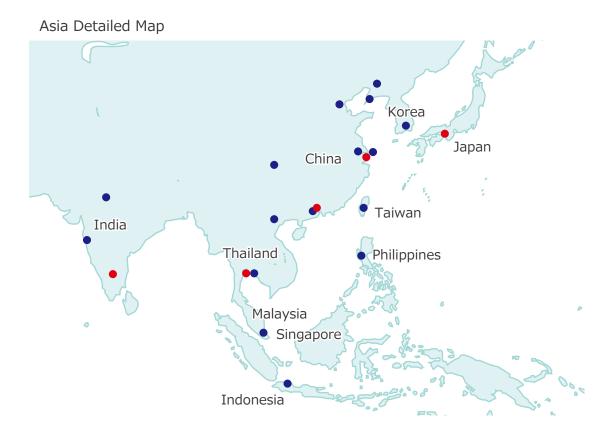
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