

# Operation Control Panel

Model YP



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

Ensures safety with various intelock functions with press machine.

## Operating Condition of Press Machine

Die Change Key Switch	: "OFF"	
Upper Clamp	: Lock	(Signal of Pressure Switch)
Lower Clamp	: Lock	(Signal of Pressure Switch)
Air Cylinder for Clamp Automatic Slide	: Forward Limit	(Signal of Proximity Switch for Die Detection)
RA Die Lifter	: Down	(Signal of Pressure Switch)

Ready to Operate  
Press Machine

## Operating Condition of Upper Clamp

Die Change Key Switch	: "ON"	
Press Slide	: Bottom Dead Center	(Signal of Rotary Cam Switch)
RA Die Lifter	: Down	(Signal of Pressure Switch)

Ready to Operate  
Upper Clamp

## Operating Condition of Lower Clamp

Die Change Key Switch	: "ON"	
RA Die Lifter	: Down	(Signal of Pressure Switch)

Ready to Operate  
Lower Clamp

## Operating Condition of RA Die Lifter

Die Change Key Switch	: "ON"	
Press Slide	: Upper Dead Center	(Signal of Rotary Cam Switch)
Lower Clamp	: Release	(Signal of Pressure Switch)

Ready to Operate  
RA Die Lifter

## Model No. Indication

YP **105** **0** -   

1
2
3

### 1 Circuit Construction

Please refer to the circuit construction list.

### 2 Design No.

**0** : Revision Number

### 3 Special Symbol

Please contact us.

Possible to provide the name plate of operation button with another language and others.

## Specifications

Model No.	YP□
Type	Operation and Control Panel Separated Type
Power Supply Voltage	AC 100 V • 50 / 60 Hz
Power Supply Capacity	5 A
Operation Switch Power Supply	Circuit Protector (Inside Control Panel)
Die Change Selector Switch	Key Switch
Each Operation Switch	Lighted Type Push Button Switch
Standard Paint Color (Operation Panel • Control Panel) <sup>※1</sup>	Munsell Number : 5Y8.4/0.5

Notes:

※1. When specifying paint color, please indicate by Munsell number or sample color.

Special costs involved with non-standard color.

- When using YP operation panel / control unit, electric remodeling on press side should be conducted by customer.
- We provide name plate with other languages such as English. Please contact us for more information.

## Circuit Construction List

Model No.	Upper Clamp		Lower Clamp		Die Lifter	Hydraulic Unit Circuit Symbol	
	Front	Back	Front	Back		CP/CR	CP□/CQ□
YP1000	Clamp		Clamp		-	CC	2G
YP1010	Clamp		Clamp		Die Lifter	CCD	2GH
YP1020	Clamp	Clamp + Slider <sup>※2</sup>	Clamp		-	CC	2G
YP1030	Clamp	Clamp + Slider <sup>※2</sup>	Clamp		Die Lifter	CCD	2GH
YP1040	Clamp + Slider <sup>※2</sup>		Clamp		-	CC	2G
YP1050	Clamp + Slider <sup>※2</sup>		Clamp		Die Lifter	CCD	2GH
YP1060	Clamp	Clamp + Slider <sup>※2</sup>	Clamp	Clamp + Slider <sup>※2</sup>	-	CC	2G
YP1070	Clamp	Clamp + Slider <sup>※2</sup>	Clamp	Clamp + Slider <sup>※2</sup>	Die Lifter	CCD	2GH
YP1080	Clamp + Slider <sup>※2</sup>		Clamp		-	CC	2G
YP1090	Clamp + Slider <sup>※2</sup>		Clamp	Clamp + Slider <sup>※2</sup>	Die Lifter	CCD	2GH
YP1100	Clamp + Slider <sup>※2</sup>		Clamp + Slider <sup>※2</sup>		-	CC	2G
YP1110	Clamp + Slider <sup>※2</sup>		Clamp + Slider <sup>※2</sup>		Die Lifter	CCD	2GH

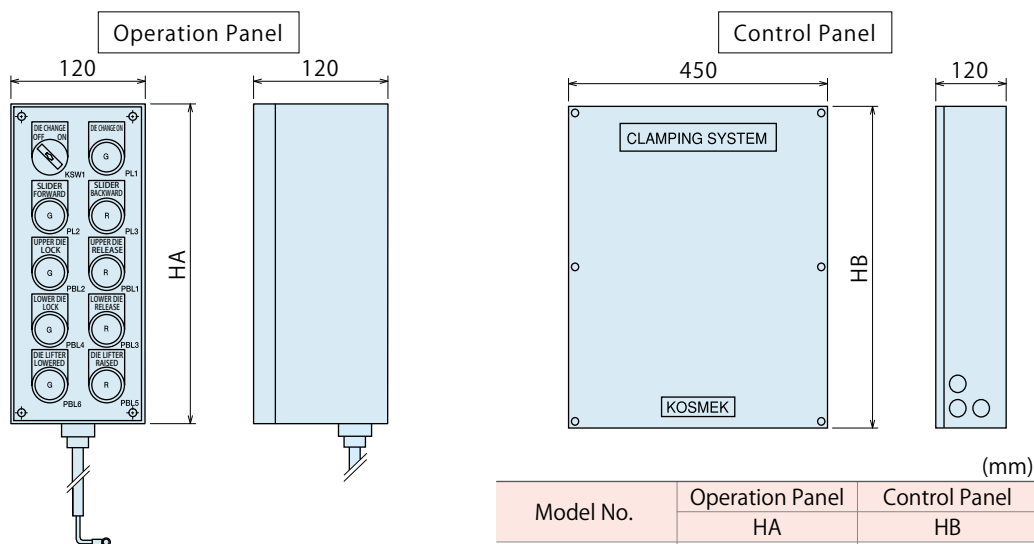
Notes:

※2. "Slider" indicates the air cylinder used for GD/GBE/GBF automatic slide clamp.

The number of sliders that standard operation panel / control unit can control is less than four for each upper and lower clamp.

Please contact us for controlling more than four sliders.

## External Dimensions



Model No.	Operation Panel	Control Panel
	HA	HB
YP1000	230	350
YP1010	230	350
YP1020	230	530
YP1030	280	530
YP1040	230	530
YP1050	280	530
YP1060	230	530
YP1070	280	530
YP1080	230	530
YP1090	280	530
YP1100	230	530
YP1110	280	530

Clamp  
Hydraulic Unit  
Operation Control Panel

Die Lifter  
Pre-Roller

Accessories

Cautions  
Company Profile

Clamp

GA

GD

GBB

GBE

GBC

GBF

GBP

GBQ

GN

Hydraulic Unit

CP

CR

CPB

CPD

CPC

CPE

CQC

CQE

Pump Unit

CB

CD

CC

Valve Unit

BC

BH

MV

Operational Control Panel

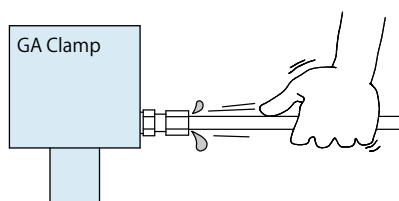
YP

YA

## Cautions

### Installation Notes (Cautions for Hydraulic Series)

- 1) Check the fluid to use
  - Please use the appropriate fluid by referring to the Hydraulic Fluid List.
  - If hydraulic oil with viscosity grade higher than ISO-VG-32 is used, action time would be longer.
  - If using it at low temperature, action time will be longer because the viscosity of hydraulic oil becomes higher.
- 2) Procedure before Piping
  - The pipeline, piping connector and fixture circuits should be cleaned by thorough flushing.
  - The 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 to prevent dust and cutting chips going into the hydraulic system and pipeline.
- 3) Applying Sealing Tape
  - Wrap with tape 1 to 2 times following the screwing direction.
  - Pieces of the sealing tape can lead to air leaks and malfunction.
  - In order to prevent a foreign substance from going into the product during piping, it should be carefully cleaned.
- 4) Air Bleeding in the Hydraulic Circuit
  - If the hydraulic circuit has excessive air, the action time may become very long.  
After installing the hydraulic circuit, or if the pump run out of oil, be sure to bleed air by the following step.
  - ① Reduce hydraulic supply pressure to less than 2MPa.
  - ② Please loosen the cap nut of pipe fitting that is closest to clamps • RA die lifters by one full turn.
  - ③ Wiggle the pipeline to loosen the outlet of pipeline fitting.  
The hydraulic fluid mixed with air comes out.



- ④ Tighten the cap nut after bleeding.
  - ⑤ It is more effective to bleed 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/nut may be tightened lightly.  
Check torque and re-tighten as required.

### Hydraulic Fluid List

ISO Viscosity Grade ISO-VG-32		
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 Hydro AW32	Cosmo New Mighty Super 32
ExxonMobil	Mobil DTE 24	Mobil DTE 24 Light
Matsumura Oil	Hydol AW-32	
Castrol	Hyspin AWS 32	

Note : As it may be difficult to purchase the products as shown in the table from overseas, please contact the respective manufacturer.

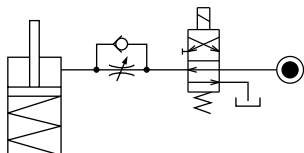
## Notes on Hydraulic Cylinder Speed Control Unit



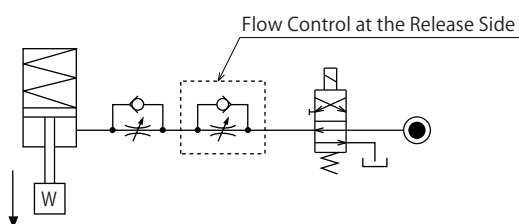
Please pay attention to the cautions below. Design the hydraulic circuit for controlling the action speed of hydraulic cylinder. Improper circuit design may lead to malfunctions and damages. Please review the circuit design in advance.

### 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.



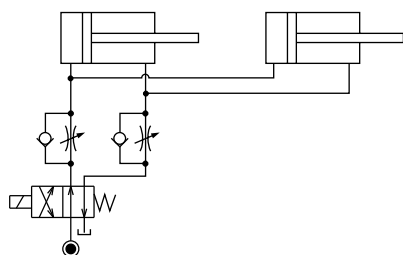
Accelerated clamping speed by excessive hydraulic flow to the cylinder may sustain damage. In this case add flow control to regulate flow.



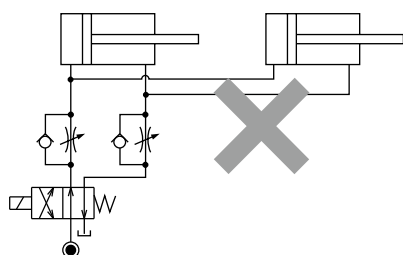
### Flow Control Circuit for Double Acting Cylinder

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】

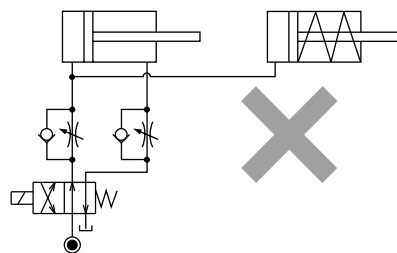


#### 【Meter-in Circuit】



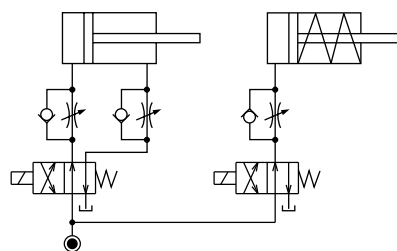
In the case of meter-out circuit, the hydraulic circuit should be designed with the following points.

- 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 erratic or very slow.

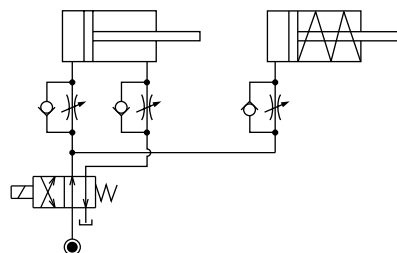


Refer to the following circuit when both the single acting cylinder and double acting cylinder are used together.

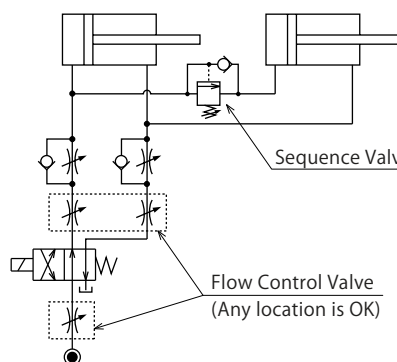
- Separate the control circuit.



- 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.



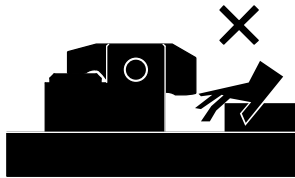
- ② In the case of meter-out circuit, the inner circuit pressure may increase during the cylinder action because of the fluid supply. The increase of the inner circuit pressure can be prevented by reducing the supplied fluid beforehand via the flow control valve. Especially when using sequence valve 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

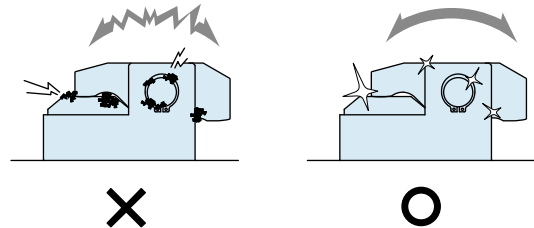
- 1) It should be handled by qualified personnel.
- The hydraulic machine / air compressor should be handled and maintained by qualified personnel.
- 2) Do not handle or remove the machine unless the safety protocols are ensured.
  - ① The machine and equipment can only be inspected or prepared when it is confirmed that the preventive devices are in place.
  - ② Before the machine is removed, make sure that the above-mentioned safety measures are in place. Shut off the air of hydraulic source and make sure no pressure exists in the hydraulic and air circuit.
  - ③ After stopping the machine, do not remove until the temperature cools down.
  - ④ Make sure there is no abnormality in the bolts and respective parts before restarting the machine or equipment.
- 3) Do not touch clamps (cylinders) while they are working. Otherwise, your hands may be injured.



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

### ● 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 air of hydraulic source and make sure no pressure exists in the hydraulic and air circuit.
  - Make sure there is no abnormality in the bolts and respective parts before restarting.
- 2) Regularly clean the area around the equipment.
  - If it is used when the surface is contaminated with dirt, it may lead to packing seal damage, malfunctioning, fluid leakage and air leaks.



- 3) If disconnecting by couplers on a regular basis, air bleeding should be carried out daily to avoid air mixed in the circuit.
- 4) Regularly tighten bolts and pipe line, mounting bolts, nuts, circlips and cylinders to ensure proper use.
- 5) Make sure the hydraulic fluid has not deteriorated.
- 6) Make sure there is smooth action and no abnormal 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.

## 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

## ● 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 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.

# Sales Offices

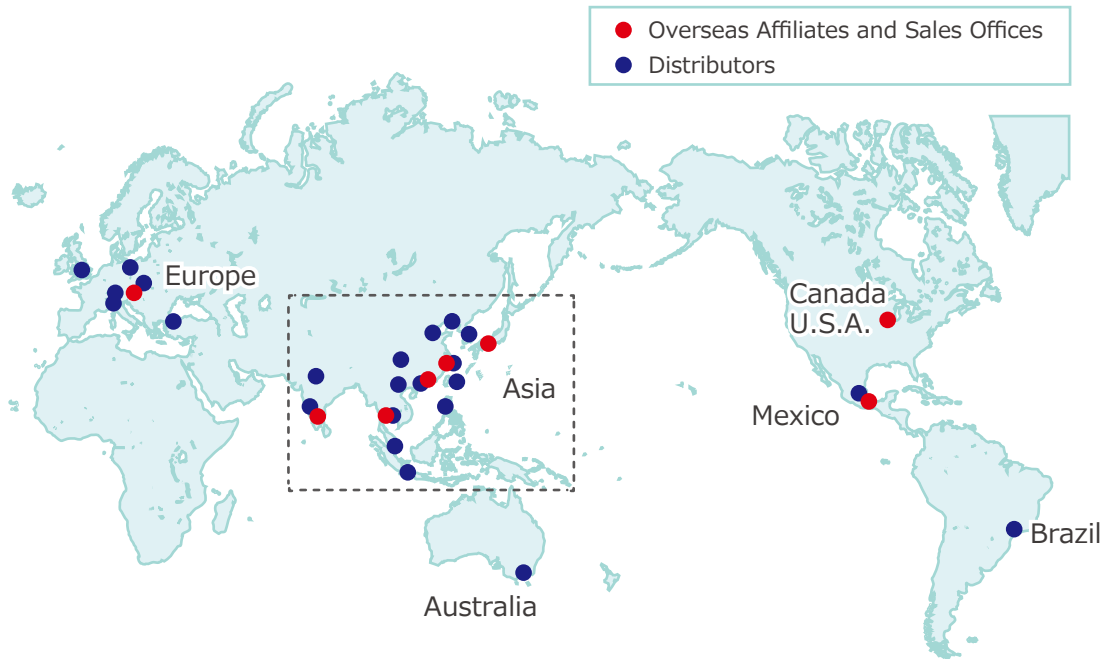
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KOSMEK USA Mexico Office	Blvd Jurica la Campana 1040, B Colonia Punta Juriquilla Queretaro, QRO 76230 Mexico	
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KOSMEK EUROPE GmbH	Schleppeplatz 2 9020 Klagenfurt am Wörthersee Austria	
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	〒331-0815 埼玉県さいたま市北区大成町4丁目81番地	
Nagoya Sales Office	<b>TEL. 0566-74-8778</b>	<b>FAX. 0566-74-8808</b>
	〒446-0076 愛知県安城市美園町2丁目10番地1	
Fukuoka Sales Office	<b>TEL. 092-433-0424</b>	<b>FAX. 092-433-0426</b>
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# Global Network



Asia Detailed Map



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Harmony in Innovation

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