

Operation Panel / Control Unit

Model YMB080



Clamping System Controls for All Mold Change Methods

Separated operation panel and control unit enables flexibility when selecting control and mounting methods.

Model No. Indication

YMB08 0 - V GE 10 -

1 2 3 4 5

1 Design No.

Revision Number

2 Mold Change Method

- V** : Vertical Mold Change System (Horizontal Molding Machine)
- H** : Horizontal Mold Change System (Horizontal Molding Machine)
- R** : Vertical Molding Machine ※¹

3 Applicable Clamp Model No. ※ See the Specification.

GB : GBB / GBC Clamp

Note : ※1. Please contact us for the control method of vertical molding machine.

4 Pressure Source ※ When using MV Air Valve Unit

- 10** : With Pressure Switch in the Clamp Circuit
- 00** : Without Pressure Switch in the Clamp Circuit

5 Option

- Blank** : Standard (Operation Panel in Japanese)
- E** : With Mold Confirmation Proximity Switch
- H** : With Mold Confirmation Proximity Switch (6-8 pcs. on each side)
- N** : Operation Panel in English
- C** : Operation Panel in Chinese

Notes :

1. Requested specifications other than those written will be treated as custom made.
2. Signals are sent and received via dry contacts.
3. The molding machine output contact should be for fine current (DC24V / 10mA).
4. The output contact of Operation Panel/Control Unit is DC24V/0.5A.
5. Molding machine terminology may differ depending on the manufacturer.

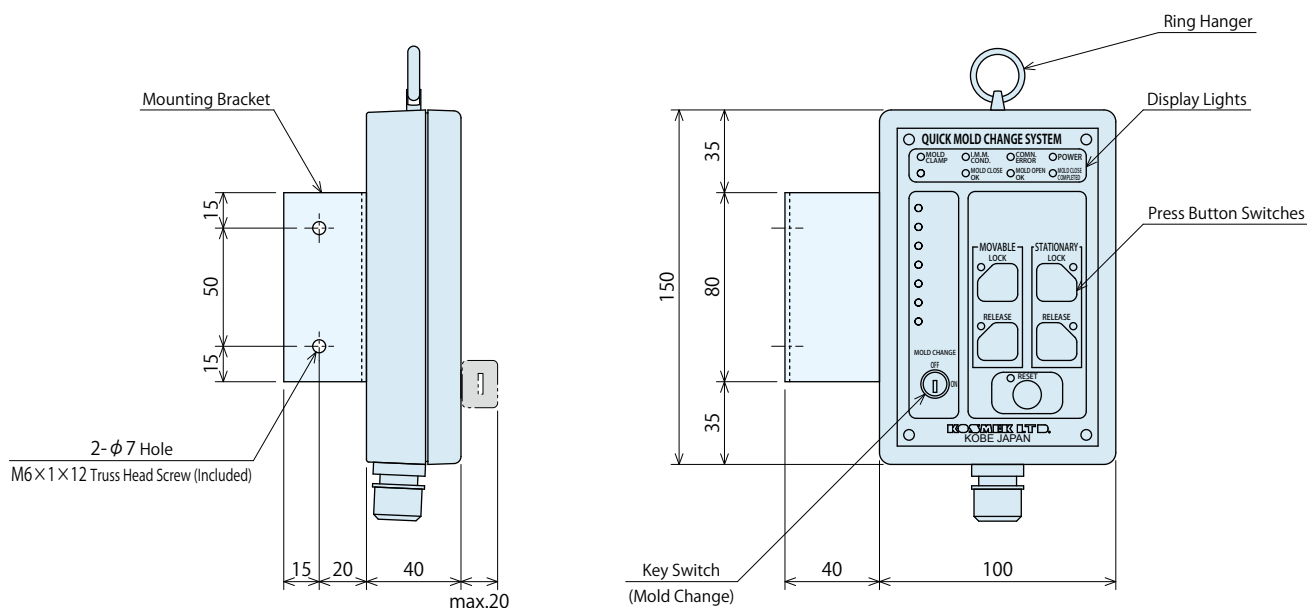
Specifications

| Model No. | YMB080-□□□10 | YMB080-□□□00 |
|-----------------------|--|-----------------------|
| Control Panel Voltage | DC24V (Supplied with the attached power supply.) | |
| Attached Power Supply | PS Pressure | AC100V~240V (50/60Hz) |
| | PS Capacity | 30W 100W |

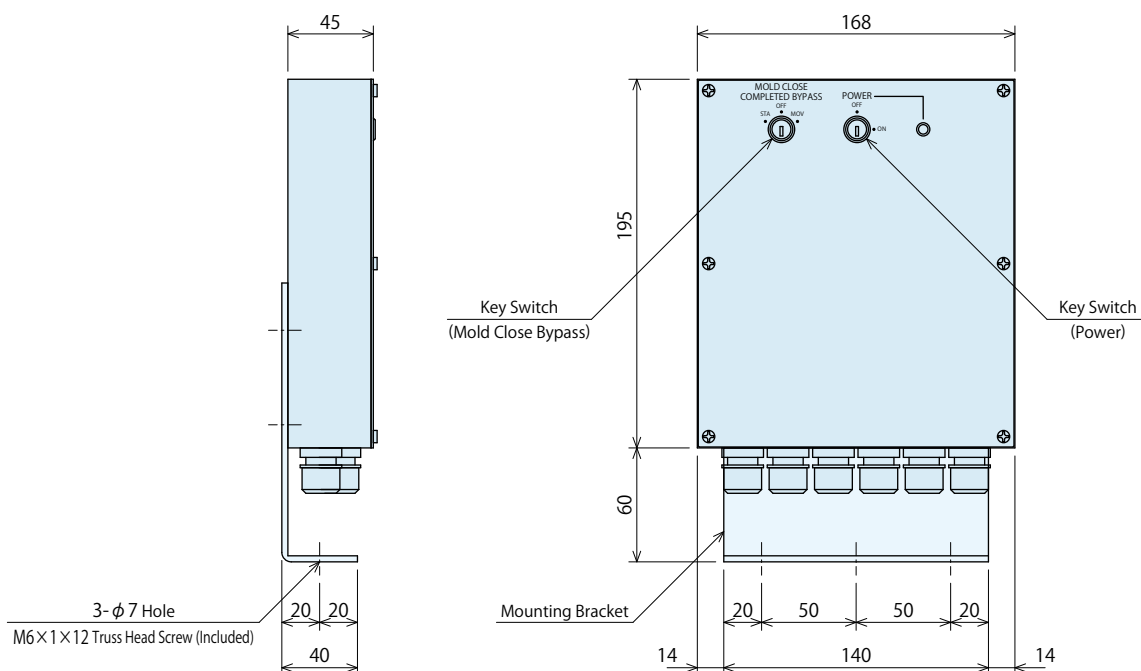
Hydraulic Clamp (G Series)

| Model No. | 2 Mold Change Method | 3 Applicable Clamp Model No. | 4 Pressure Source | 5 Available Option |
|--------------|---------------------------------|------------------------------|--------------------------|--------------------|
| YMB080-VGB10 | V Vertical Mold Change System | GB GBB / GBC / GBM | 10 Kosmek Hydraulic Unit | E / H / N / C |
| YMB080-VGE10 | | GE GBE / GBF / GBR | 10 Kosmek Hydraulic Unit | H / N / C |
| YMB080-VGW10 | | GW GWA | 10 Kosmek Hydraulic Unit | N / C |
| YMB080-VGW00 | | GW GWA | 00 IMM Hydraulic Source | N / C |
| YMB080-VGL10 | | GL GLA | 10 Kosmek Hydraulic Unit | N / C |
| YMB080-VGL00 | | GL GLA | 00 IMM Hydraulic Source | N / C |
| YMB080-HGW10 | H Horizontal Mold Change System | GW GWA | 10 Kosmek Hydraulic Unit | N / C |
| YMB080-HGW00 | | GW GWA | 00 IMM Hydraulic Source | N / C |

● External Dimensions : Operation Panel



● External Dimensions : Control Unit



Notes :

1. The bracket can be mounted in any direction.
2. The bracket is shipped mounted as shown in the drawings above.

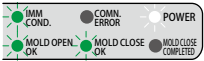

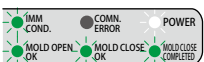
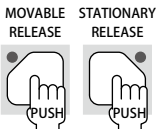

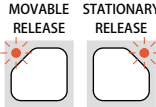
● Operation Procedure : For YMB080-VGE10 ※ Please contact us for the operation procedure for other models.

Clamp Operating Condition


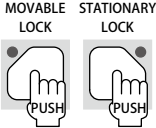

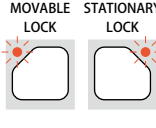

| Injection Molding Machine Condition | | | | Clamp Operation Panel |
|-------------------------------------|-------|-------------|--------------|-----------------------|
| Operation Mode : | Mold | Nozzle Back | Ejector Back | Mold Change "ON" |
| Mold Change | Close | (Option) | (Option) | |

Note: When the mold change switch is "ON", clamp error does not occur regardless of the condition of clamps during mold change.

Unloading a Mold

| Operation Procedure | Confirmation Items | Cautions |
|---|--|---|
| Prepare for mold change. | | |
| Switch the IMM condition to "Nozzle Back" / "Ejector Back" etc. (Input Options) | | |
| Support the mold with the crane. | | Confirm the mold is securely hung and cables are not loose. |
| Switch the IMM to Mold Change Mode. | "IMM COND." light ON.  | |
| Turn ON the "Mold Change" switch of the clamp operation panel.  | | The clamping system controller keys should be carefully controlled by the person in charge. |
| Close the platens. | "MOLD CLOSE COMPLETED" light ON.  | |
| Press the [Stationary] and [Movable] "Release" buttons of the clamp operation panel.  | "STA. BWD END" "MOV. BWD END" lights ON.  "RELEASE" lights ON.  | |
| | "MOLD OPEN OK" light ON. | |
| Open the platens. | | Operate with low speed or inching. |
| Unload the mold. | | Make sure there is no abnormality on clamps and other devices in the platen after unloading the mold. |

Loading a Mold

| Operation Procedure | Confirmation Items | Cautions |
|---|---|--|
| Load the mold with the crane. | | Confirm specifications of the mold before loading. |
| Close the platens. | "MOLD CLOSE COMPLETED" light ON.  | |
| Press the [Stationary] and [Movable] "Lock" buttons of the clamp operation panel.  | "STA. FWD END" "MOV. FWD END" lights ON.  "LOCK" lights ON.  | |
| Turn OFF the "Mold Change" switch of the clamp operation panel.  | "Mold Open OK" "Mold Close OK" lights ON. | |
| Release the mold from crane. | | Make sure there is no abnormality on clamps and other devices in the platen. |

● Interlock Input and Output ※ Please contact us for unlisted input/output signals (special order unit).

| I. M. M. Output | Contents |
|---------------------------|---|
| Mold Change Mode | A signal that ensures the IMM is in low-speed Mold Change Mode. |
| Mold Closed (Pressurized) | A signal that ensures the mold is completely closed. Required for clamp lock / release to prevent the mold from falling. |
| Nozzle Back | A signal that ensures the nozzle / injection unit is fully back to prevent damage to the nozzle / injection unit when changing molds. |
| Ejector Back | A signal that ensures the ejector plate is in the back position to prevent damage to the ejector rods during mold removal. |
| I. M. M. Input | Contents |
| Mold Open OK | A signal that indicates the clamping system is ready for mold opening. |
| Mold Close OK | A signal that indicates the clamping system is ready for mold closing. |
| Mold Change "ON" | A signal that indicates the clamp system is in "Mold Change Mode". |
| Clamp Error | When an error in the clamp circuit occurs, this signal is sent to make an emergency stop of the machine. |
| Pressure Request | This signal requests additional hydraulic pressure when necessary to lock or release the clamps in Mold Change Mode. |

Sales Offices

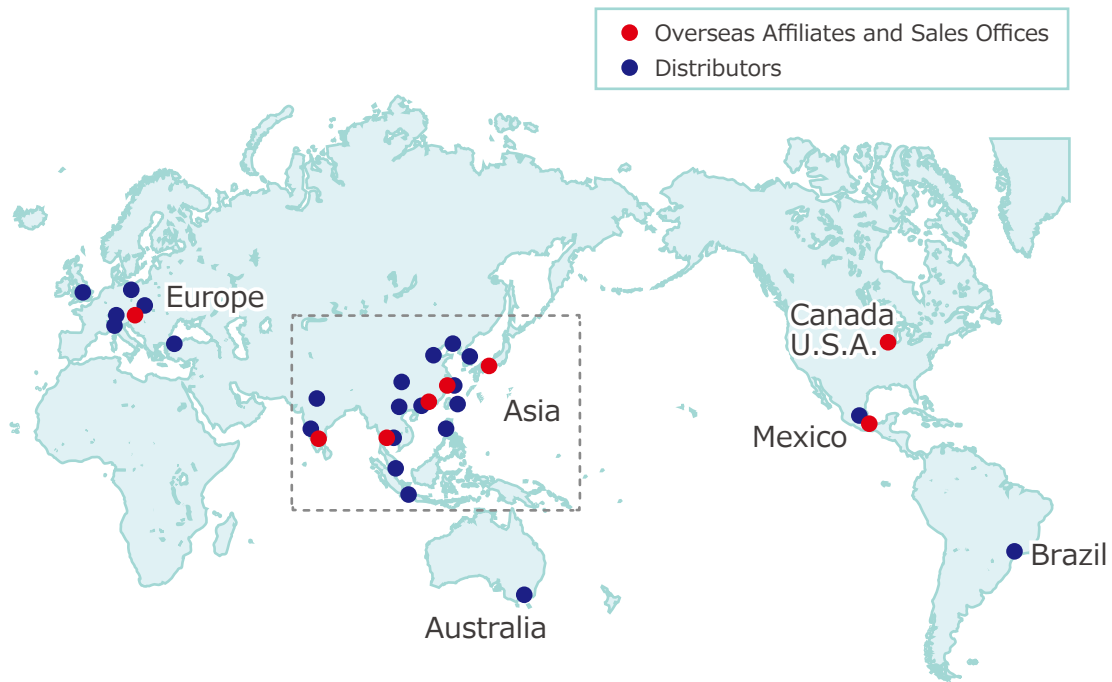
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