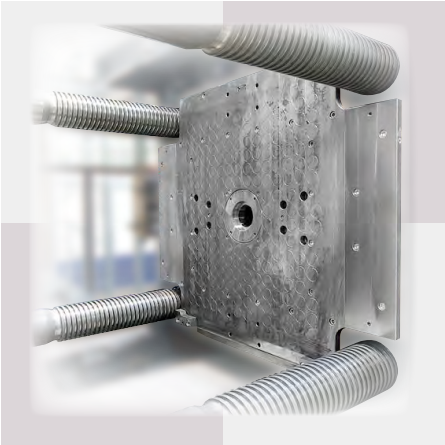
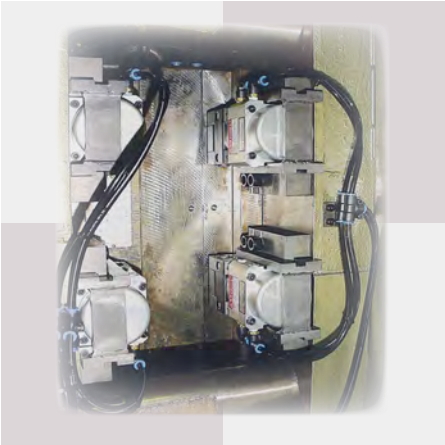
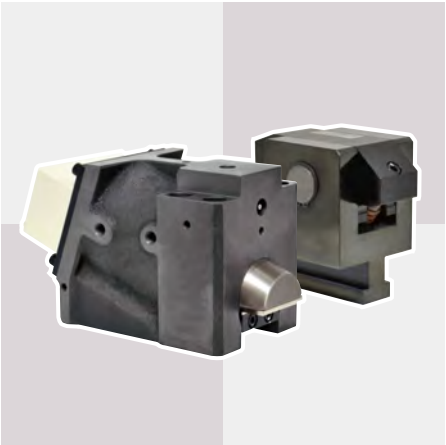
Hydraulic



Magnetic



Pneumatic



QMCS

QUICK MOLD CHANGE SYSTEMS

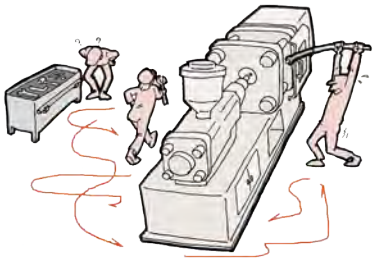
Product Line-up

KOSMEK

Harmony in Innovation

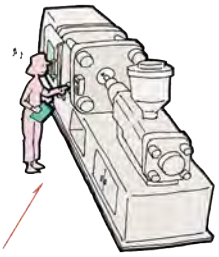
Advantages of Automatic Clamps

Mold Change Time Reduction



Manual Bolts

Searching, loosening and tightening make the work unstable, endanger the safety and reduce the productivity.



Automatic Clamps

Stable work anyone can do improves the work environment. A better morale enhances the productivity!

With automatic clamps,

mold change time is less than $\frac{1}{2}$!!

① With a manual clamping system, workers must loosen and tighten bolts one by one. However, with an automatic clamping system, a single operator can release the clamps holding the mold on both sides at once, reducing changing time.

② Reduction of mold changing time results in less time the crane spends waiting to put the mold in place, an important factor at plants where multiple molding machines are in operation.

③ When there is an urgent need to repair a mold, the automatic clamping system can reduce down time by allowing faster dismounting and remounting of the mold.

④ Reduction of mold changing time leads to **an overall improvement in productivity**.

Mold Change Time Comparison

Manual Bolts

Load a Mold with Crane

Align the Mold with the Locating Ring

Adjust Position/Close the Mold

Tighten the Operation Side

4 Bolts

Open the Safety Door ↓ Attach the Bolts/Fittings ↓ Tighten the Bolts ↓ Close the Safety Door

Go to the Non-Operation Side

Tighten the Non-Operation Side

4 Bolts

Open the Safety Door ↓ Attach the Bolts/Fittings ↓ Tighten the Bolts ↓ Close the Safety Door

Move to the Operation Side

Mold Setting Time
<4 minutes and 1 second>※

Automatic Clamps

Load a Mold with Crane

Rest the Mold on the Support Block

Adjust Position/Close the Mold

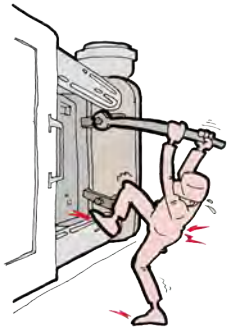
Turn on the Lock Switch for the Stationary Side

Turn on the Lock Switch for the Movable Side

Mold Setting Time
<1 minute and 59 seconds>※

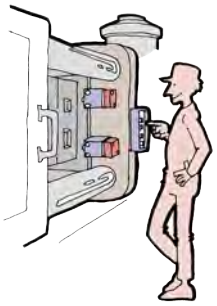
※ Actual recorded times for mold settings performed on a 180 ton Injection Molding Machine. The Automatic Mold Clamping System used was a KOSMEK Magnetic Clamp.

Improvement of Work Environment and Work Efficiency



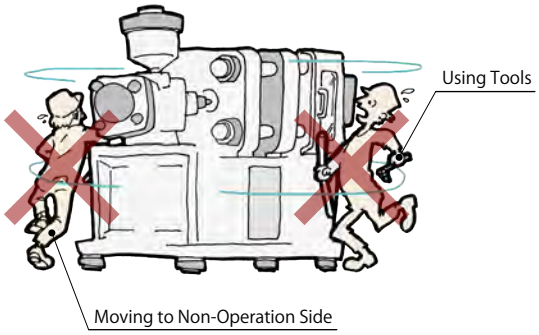
Manual Bolts

Unsafe・Unstable



Automatic Clamps

Safe・Stable



Automatic clamp system only requires a button operation for mold change.

No tools or operations at non-operation side are required.

① The mold change using bolts may be one of hard, dangerous, dirty works.
Application of the automatic mold clamp allows everyone to change molds with button operation, to prevent backache and sweat-caused slip and to improve work environment.

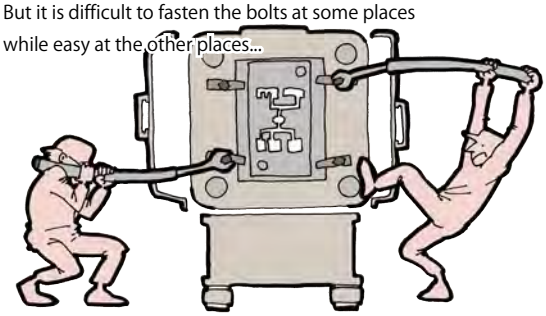
② The work without tools enhance productivity by saving time for searching tools.

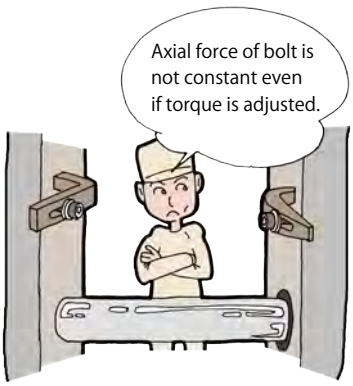
③ Stationary clamp and automatic slide clamp eliminate the work at the non-operation side to reduce the work time and improve productivity. In addition, mold change by one person is also possible.

④ The operation of the automatic mold clamp allows everyone to mount molds with the same clamping force which leads to work standardization.

Quality Improvement

I know equal and sequential fastening is needed.
But it is difficult to fasten the bolts at some places while easy at the other places...





Tighten the molds equally with automatic clamps.

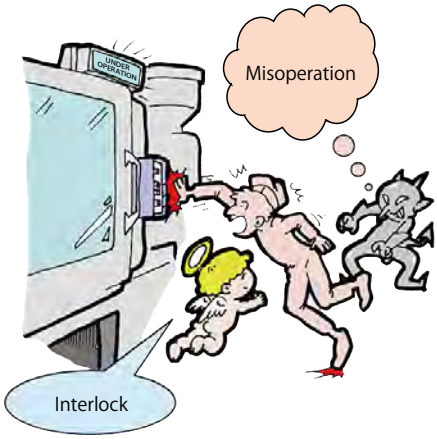
No Mold Deformation with Clamps

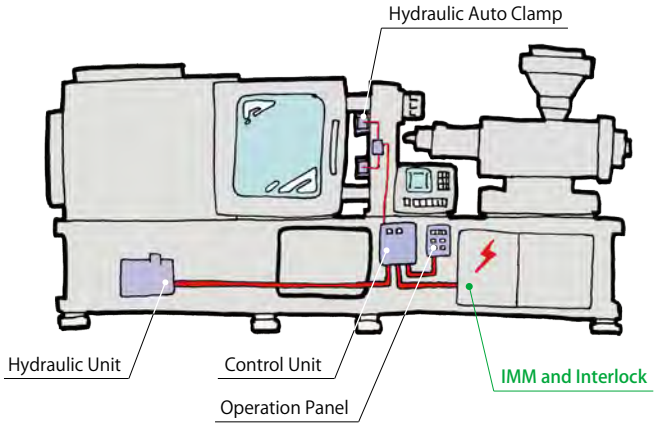
① It is difficult to tighten bolts equally because the mold is sometimes too narrow to handle the tool depending on the position of the bolt. And it is not efficient to retighten the bolts at the operation/non-operation sides after temporary tightening. Therefore the bolts are tightened one by one without temporary tightening.
Since tightening condition of bolts cannot be visually recognized, sometimes final tightening may be forgotten. This means the mold cannot be installed equally by manual tightening. Therefore burrs or deformation of products may occur on molded products due to mold deformation during molding. Automatic mold clamps enable to mount a mold evenly in a minute, leading to the reduction of defective products.

② Some users control the clamping force “by using the torque wrench”. In that case, however, what they do is actually torque control but not clamping force control. The application of the automatic mold clamp allows the same mounting result without relating to individual workers.

Advantages of Automatic Clamps

Improvement of Safety





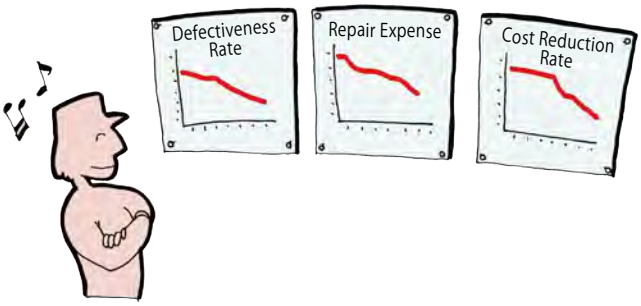
A variety of KOSMEK safety functions prevent molds from falling.

① The automatic mold clamp system is designed to assure safety by applying a non-leak valve, a back-up pump unit, and the built-in mechanical locking system to prevent mold dropping accidents.

② Although loose bolts are hard to find visually, the automatic mold clamp system is provided with various types of interlocking between the clamp and molding machine to provide safety measures such as shutting down the molding machine, thus assuring safety even if a trouble such as pressure drop occurs.

③ Operation and control panel manufactured by KOSMEK is designed considering **prevention of wrong operation** by workers as well as the interlocking with the molding machine.

Cost Reduction



Total Cost Reduction with Automatic Clamping System

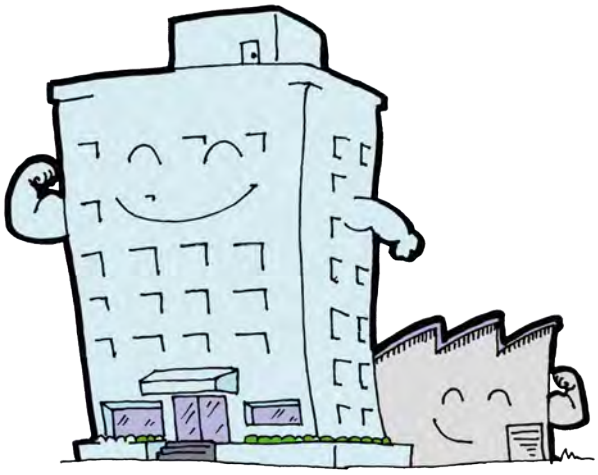
① Improvement in operational ease and productivity by reducing the mold change time leads to total cost reduction.

② Reliable mold mounting will reduce wear rate of a mold guide bush, failure of an ejector pin and so on, contributing to the mold repair cost reduction.

③ Reduction of the mold change time and the improvement of productivity give the workers time to do value added work, leading to reduction of total labor cost.

④ Standardized work leads to a stable molding process which by turn helps to reduce defective products, thus resulting in **the total cost reduction**.

Enhancement of Total Power of the Enterprise

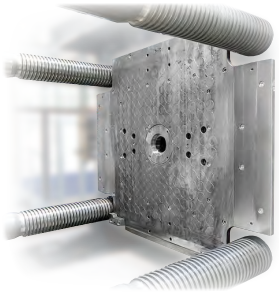


Total Business Power Improvement with Automatic Clamping System

Achievement of the above items enables to correspond to multi-item small lot production and short delivery time, and to create stable quality products at a low price.
And the improvement of work environment contributes to attracting able employees and keeping them committed and to the improvement of their work level, leading to **enhancement of total power of the enterprise**.

Quick Mold Change System

■ Magnet Clamping System



■ Hydraulic Clamping System

■ Pneumatic Clamping System

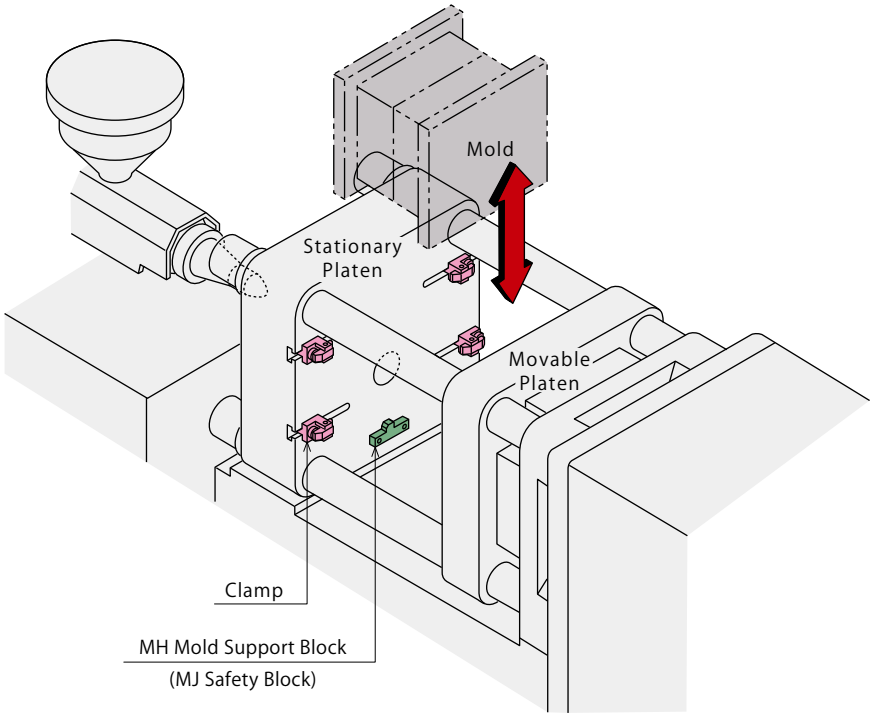
Single Minute Setups with Automatic Clamping System

Kosmek has many achievements with Quick Mold Change Systems. With our own technique by extensive experience, we have been producing various items for high-variety low-volume/stockless manufacturing. This enables "fast/safe/secure" mold change of IMM and "**single minute setups**".

Vertical Loading System

What is Vertical Loading System?

Vertical loading system is the system where by the mold is set from the top of the molding machine by crane and secured in I.M.M. with hydraulic clamps. Kosmek molding change system enables to select the most suitable system structure by the condition of molds and I.M.M.



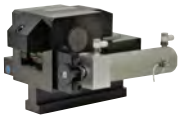
Clamp Variations

Magnet Clamping Systems

Magnet Clamp
Model
MEK/MEG

Hydraulic Clamping Systems

T-Slot Manual-Slide Clamp
Model
GBB/GBC



T-Slot Automatic-Slide Clamp
Model
GBE/GBF/GLA

Manual Block-Slide Clamp
Model
GBM/GBN

Fixed Clamp
Model
GWA

Pneumatic Clamping Systems

T-Slot Manual-Slide Clamp
Model
HB/QB

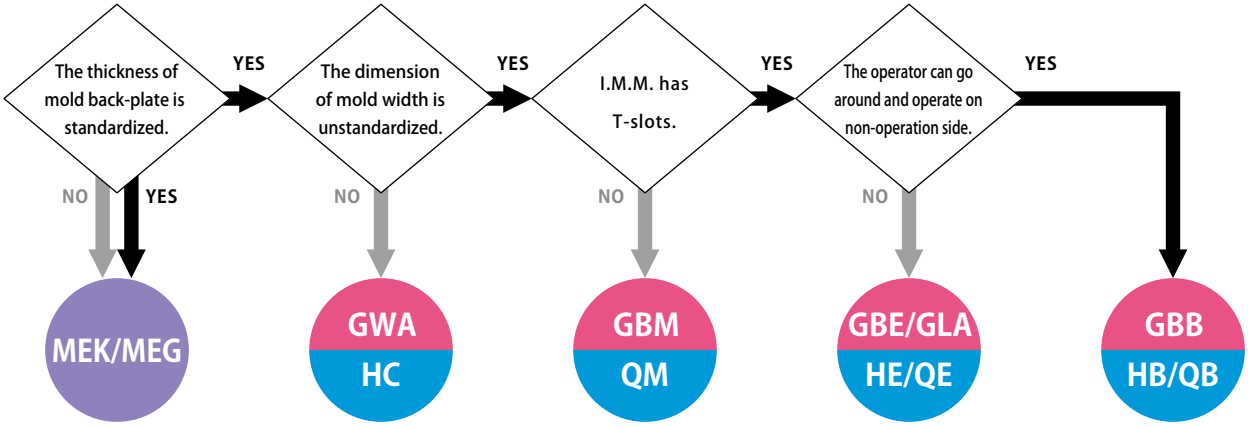
T-Slot Automatic-Slide Clamp
Model
HE/QE

Manual Block-Slide Clamp
Model
QM

Fixed Clamp
Model
HC

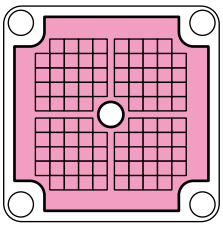
Selecting Method

Please refer to the chart below and select a clamping system for the most suitable manufacturing system from a variety of Kosmek products. ※ Not every product is shown here. Please contact us for detailed specifications.



Magnet Clamping Systems MEK/MEG

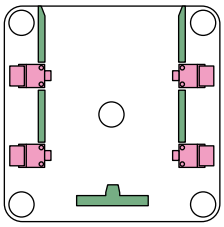
Free Method



- MEK/MEG Clamp
- Power Unit
- Remote Operation Unit
- Electricity

Hydraulic Clamping Systems GWA
Pneumatic Clamping Systems HC

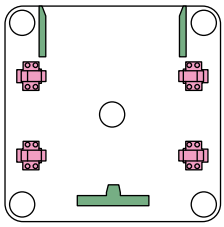
Stationary Method



- GWA Clamp HC Clamp
- MH Support Block or MJ Safety Block
- MG Guide Block
- Operation Control Panel
- Valve Unit (GWA Using IMM Hydraulic Source)
- Air Valve Unit (For HC Clamp)
- Electricity
- Pneumatic

Hydraulic Clamping Systems GBM
Pneumatic Clamping Systems QM

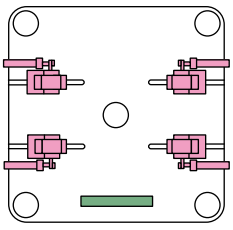
Manual Block-Slide Method



- GBM Clamp QM Clamp
- MH Support Block or MJ Safety Block
- MG Guide Block
- Operation Control Panel
- Hydraulic Unit (For GBM Clamp)
- Air Valve Unit (For QM Clamp)
- Electricity
- Pneumatic

Hydraulic Clamping Systems GBE/GLA
Pneumatic Clamping Systems HE/QE

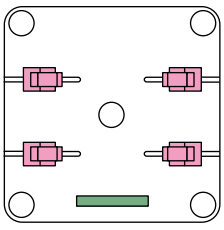
T-Slot Automatic-Slide Method



- GBE/GLA Clamp HE/QE Clamp
- MH Support Block or MJ Safety Block
- Operation Control Panel
- Hydraulic Unit (For GBE / GLA Clamp)
- Air Valve Unit (For HE/QE Clamp)
- Air Valve Unit for Slider (For GBE/GLA Clamp)
- Electricity
- Pneumatic

Hydraulic Clamping Systems GBB
Pneumatic Clamping Systems HB/QB

T-Slot Manual-Slide Method



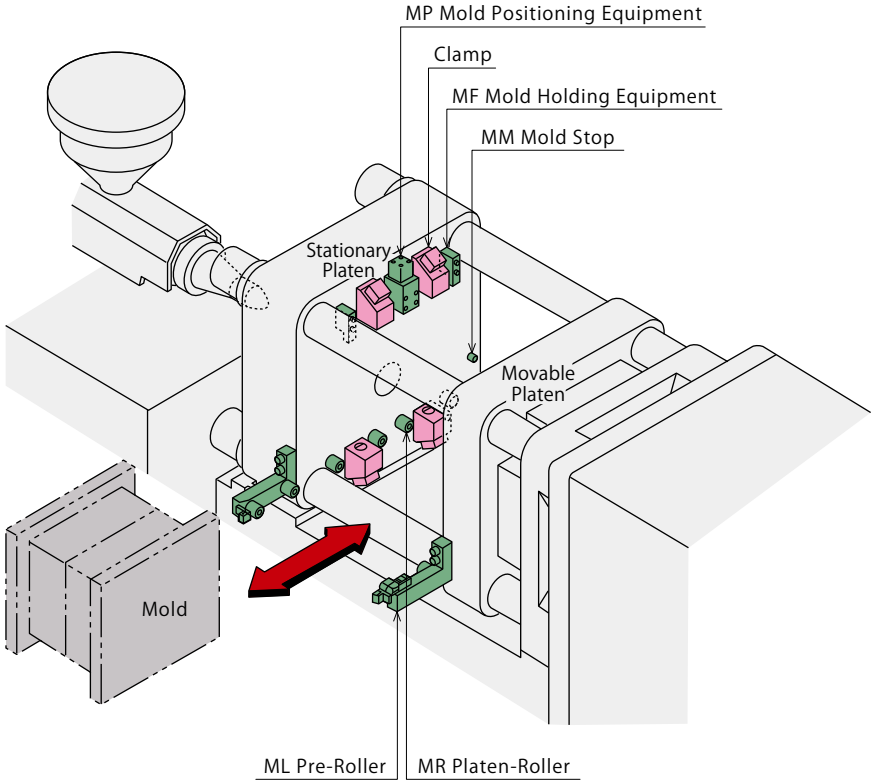
- GBB Clamp HB/QB Clamp
- MH Support Block or MJ Safety Block
- Operation Control Panel
- Hydraulic Unit (For GBB Clamp)
- Air Valve Unit (For HB/QB Clamp)
- Electricity
- Pneumatic

- Clamp Model No.
- Support Block Safety Device etc.
- Control Apparatus /Device
- Power Source

Horizontal Loading System

What is Horizontal Loading Mold Change System?

Horizontal loading system is the system where by the mold is set from either operation side or non-operation side using cart or table. You may choose the most suitable arrangement according to the frequency of mold change and layout of the factory.



Clamp Selections

Magnet Clamping Systems

Magnet Clamp

Model
MEK/MEG

Hydraulic Clamping Systems

Fixed Clamp

Model
GWA

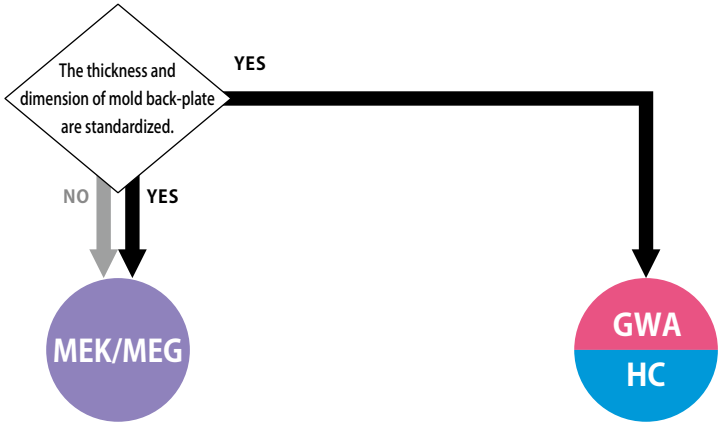
Pneumatic Clamping Systems

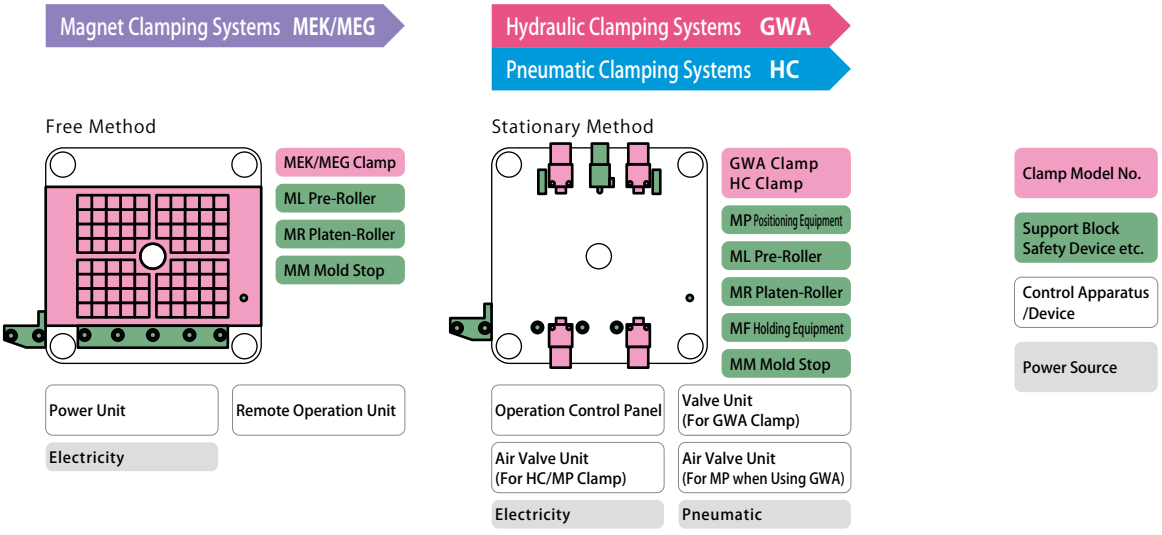
Fixed Clamp

Model
HC

Selecting Method

Please refer to the chart below and select a clamping system for the most suitable manufacturing system from a variety of Kosmek products. ※ Not every product is shown here. Please contact us for detailed specifications.



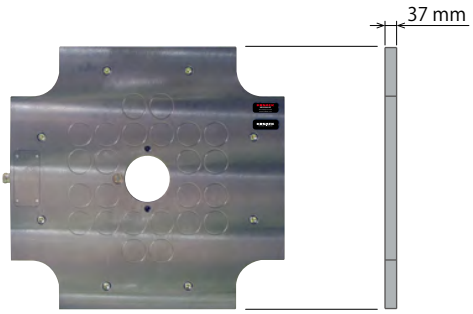


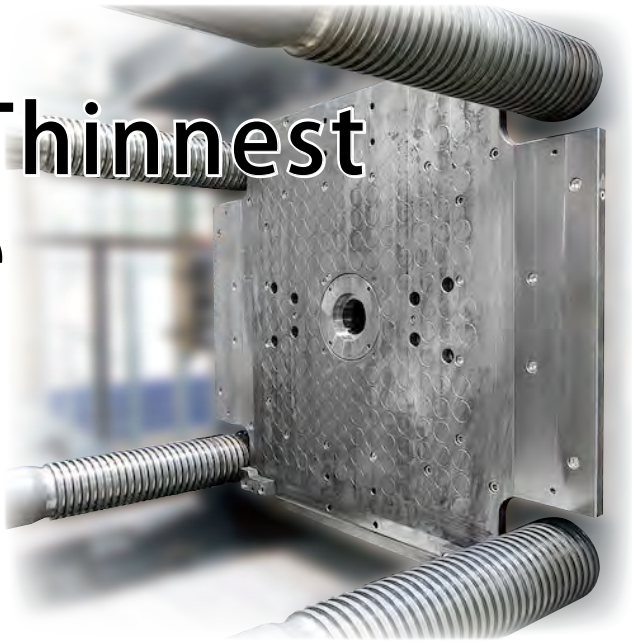
Magnet Clamping Systems

Model MEK/MEG

NEW PRODUCT

The World's Thinnest Magnet Plate



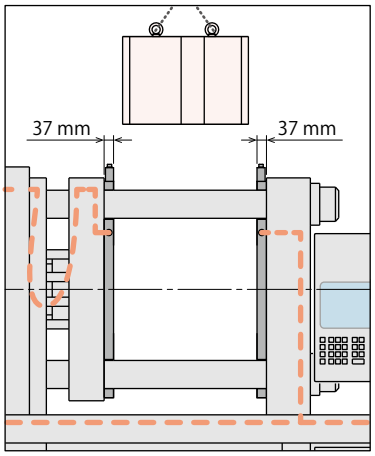


Specifications

• Magnetic Force (per Magnet Block)：6.27 kN • Magnet Block Diameter：ϕ70 mm • Magnetic Flux Height (Penetration Depth to the Mold Side)：20 mm
• Operating Voltage：Single Phase AC200~230 / 400 / 460~480 (50 / 60Hz) • Conduction Time：Activation 1.0 sec., Deactivation 0.5 sec. (per Discharge)
※ Please refer to the catalog or website for detail.

Features

High Versatility



The world's thinnest 37mm※ magnet plate allows for maximum daylight usage.

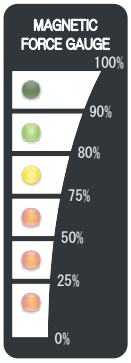
Almost every kind of mold can be used without the need to modify the mold backplate. The standard operating temperature is up to 120℃. The standard bolt-holes on the platens are used to mount the magnet plate on the molding machine, facilitating mounting it on the existing machine. Also, troublesome hydraulic or pneumatic piping installation is not required. No interference with U-clamps and hydraulic/pneumatic clamps provides substantial improvement in mold design freedom.
※ Thickness of Model MEG. The thickness of Model MEK is 46mm.

Energy Saving

Electricity is used for just a few seconds of operation.

Magnet clamps have no movable components so there is no wear.
This reduces the consumption of components, eliminating maintenance inside the magnet plate.

Superior Safety



Magnetic Force Indicator Display

Magnetic Force Display：
"Visualization" of the Magnetic Force

This six-level illuminated indicator makes the "invisible" magnetic force "visible". Located in the Operation Panel, it makes confirmation of sufficient force easily possible during operation. An alarm sounds when magnetic force falls below 75%.

The Operation Panel communicates with the IMM to prevent operational errors before they happen. The risk of a mold falling due to operational error is reduced.

High Quality

Plate Section

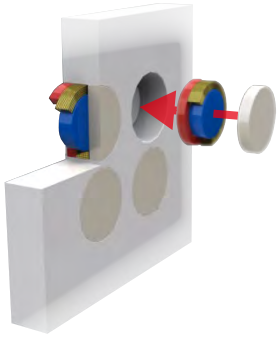


Plate Back Side

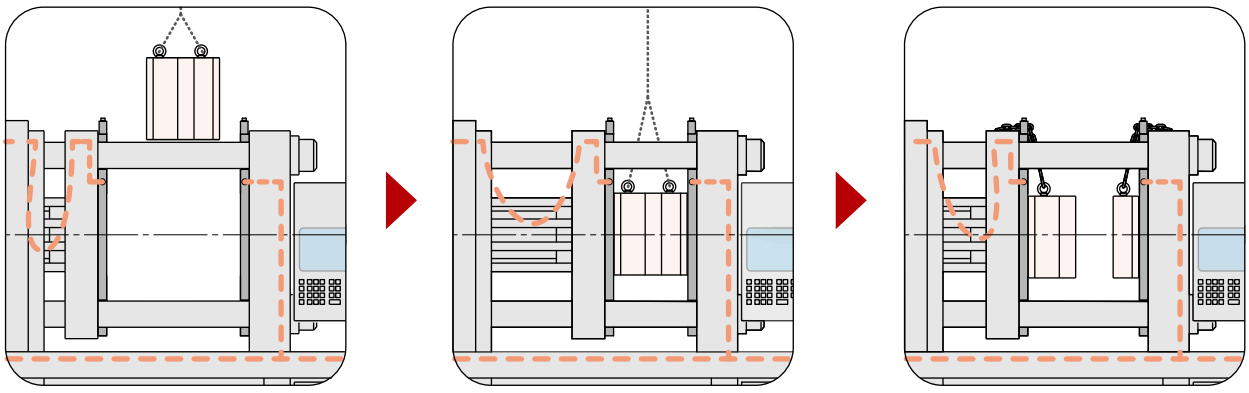
No Mold Distortion with Uniform Attraction to Mold Mounting Surface

It leads to higher product quality and longer mold life.

<Full Metal Face>
The solid plate feature of the front face has improved the flatness of the magnetic plate surface. This enhances the contact between the magnetic plate surface and the mold surface. Because the magnetic poles are located on the backside of the plate, they are protected from outside influences. The magnet poles are sealed after the magnet plate is installed on the IMM platen.

<High Rigidity of Plate>
The piston-type magnet pole layout increases the plate rigidity.

Action Description



Mold Delivery (Initial De-Magnetizing)

The magnetic force is balanced within the plate and is non-existent on the surface.

Start Magnetization after Closing Mold

The electric current reverses the polarity of the alnico magnet which is wrapped around the coil. This generates magnetic force on the surface of the magnet plate. Magnetic flux detection coil measures the magnetic force.

During Molding Production

The magnetic flux will be permanently maintained unless an electric current is supplied. During production, power is supplied only to the proximity switch, so there is almost no energy consumption.

Hydraulic Clamping Systems

Model GB□

NEW PRODUCT

Best Selling Products

Single Action Hydraulic Clamp Series

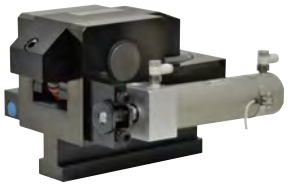
Newly Renovated

T-Slot Manual-Slide Clamp

Model **GBB**

Model **GBC** (Longer Stroke)

Clamping Force[kN] : 10 / 16 / 25 / 40 / 63 / 100 / 160 / 250 / 400 / 500



T-Slot Automatic-Slide Clamp

Model **GBE**

Model **GBF** (Longer Stroke)

Clamping Force[kN] : 25 / 40 / 63 / 100 / 160 / 250 / 400 / 500

T-Slot Manual Slide・Extreme Condition Clamp

Model **GKB**

Model **GKC** (Longer Stroke)

Clamping Force[kN] : 10 / 16 / 25 / 40 / 63 / 100 / 160 / 250 / 400 / 500

■The clamp is designed for use under severe conditions.

Block-Fixed Clamp

Model **GBP**

Model **GBQ** (Longer Stroke)

Clamping Force[kN] : 10 / 16 / 25 / 40 / 63 / 100 / 160 / 250

Manual Block-Slide Clamp

Model **GBM**

Model **GBN** (Longer Stroke)

Clamping Force[kN] : 25 / 40 / 63 / 100

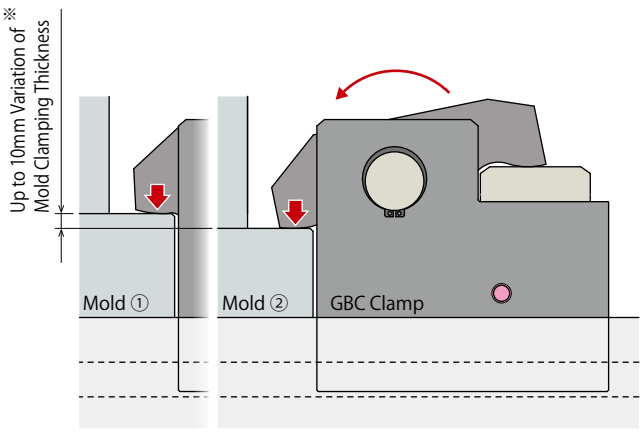
Specifications ＜Model GBB＞

• Operating Pressure：25MPa • Withstanding Pressure：37.5MPa • Full Stroke：6~8mm※ • Clamp Stroke：3~4mm※ • Operating Temperature：0~70℃

※ Depends on clamp size. Please refer to the catalog or website.

Features

Standardized Longer Stroke Model

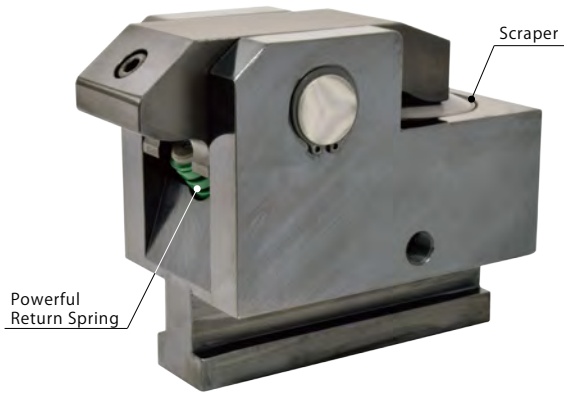


※ When using GBC1600.

Longer Stroke for Every Model

Longer stroke, which was used to be optional before, is now standard.
Suitable for molds with different back plate thicknesses.

Reliable and Durable

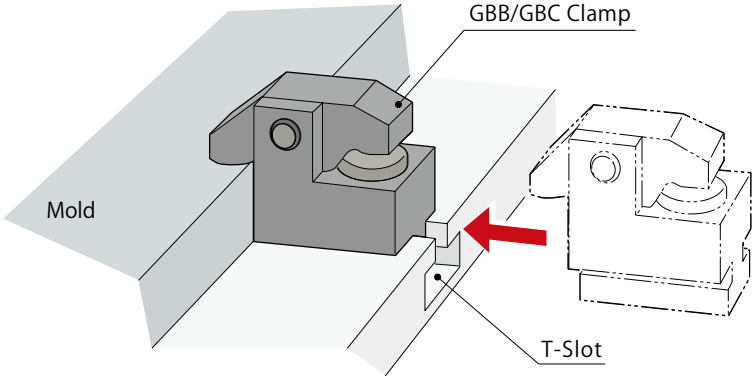


A More Durable And Renovated Model

<Powerful Return Spring>
The new model, with a larger and more powerful return spring than that of the previous model prevents release malfunction. Also, release time has been reduced.

<Scraper>
A scraper, which is equipped with every clamp, prevents foreign substances from entering into the clamp and allows for higher durability.

Action Description



<Action Description of GBB/GBC Clamp>

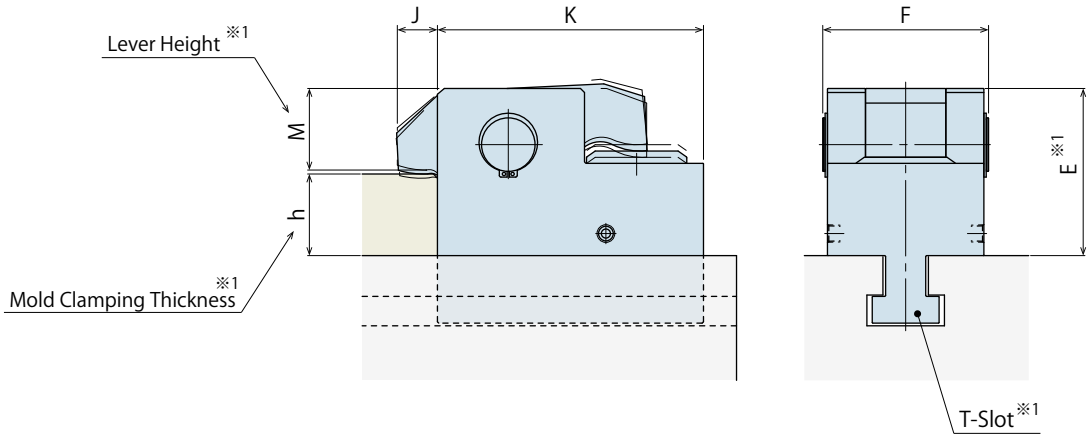
Lock Action

① Load a mold.
② Move the clamp forward in the T-slot.
③ Lock the mold with hydraulic pressure supply.

Release Action

① When hydraulic pressure is released, the internal spring returns the lever to allow the release of the mold.
② Move the clamp backward.
③ Unload the mold.

Additional Sizes



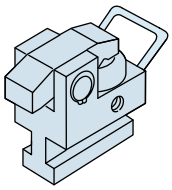
Model No.	Clamping Force [kN] (At 25 MPa)	IMM Capacity※2 [kN]	min.E ※1	F	J	K
GBB0100	10	～ 500	42.5	43	15	58
GBB0160	16	～ 750	49	53	17	70
GBB0250	25	～ 1500	58	63	19	84
GBB0400	40	～ 2500	66	73	22	105.5
GBB0630	63	～ 3500	81	93	25	130
GBB1000	100	～ 5500	105.5	103	30	159
GBB1600	160	～ 8500	122.5	124	30	199
GBB2500	250	～ 13000	144.5	152	30	240
GBB4000	400	～ 20000	177.5	175	35	300
GBB5000	500	～ 30000	202.5	200	37	340

Notes:

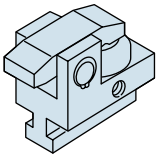
※1. The lever height (M dimension) and body height (E dimension) are determined according to the mold clamping thickness (h dimension). T-leg dimension is determined according to the T-slot of the IMM.

※2. Indicates when using four clamps each on both stationary and movable platen.

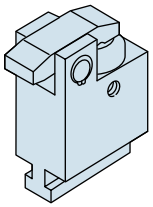
A Wider Variety of Options



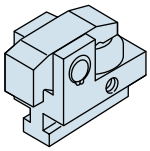
With Handle (GBB0630 or larger)
Model **GBB-D**



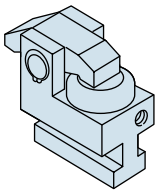
Reinforced Body
Model **GBB-E**



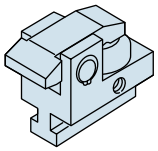
Extra Height Body
Model **GBB-H**



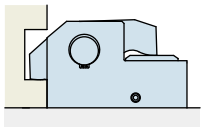
Low Lever
Model **GBB-J**



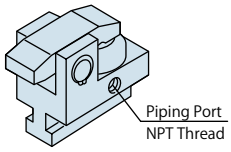
Rear Port
Model **GBB-K**



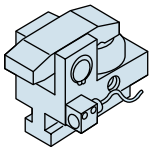
Wide Lever (For U-Cut of Mold)
Model **GBB-L**



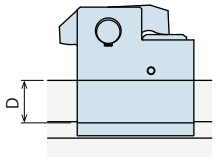
For Mold with Notch
Model **GBB-M**



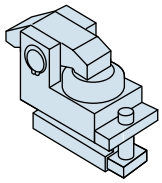
NPT Port
Model **GBB-N**



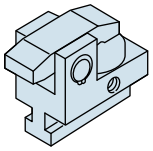
With Mold Confirmation
Proximity Switch
Model **GBB-P**



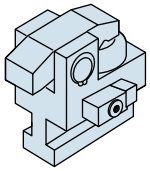
Longer D-Dimension of T-Leg
Model **GBB-R**



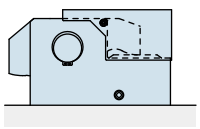
T-Slot Locking
Model **GBB-T**



High Temperature 0～120℃
Model **GBB-V**



With Check Valve (GBB1000 or larger)
Model **GBB-W**



With Cover
Model **GBB-X**

With Lock Confirmation
Proximity Switch
Model **GBB-C**

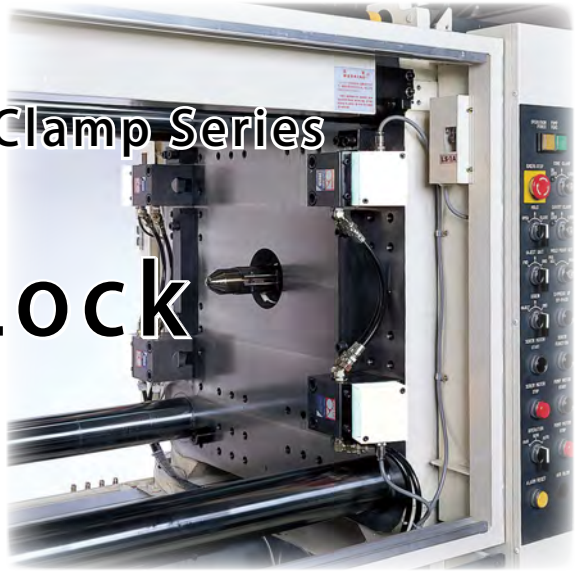
With Grease Nipple
Model **GBB-U**

Hydraulic Clamping Systems

Model GWA/GLA

Best Selling Products

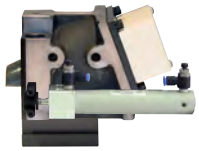
Double Action Hydraulic Clamp Series



Mechanical Lock For Safety

Fixed Clamp

Model GWA



T-Slot Manual-Slide Clamp

Model GLA

Specifications ＜Model GWA＞

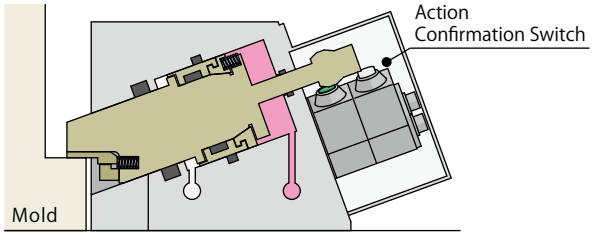
• Clamping Force：10 kN/ 16 kN/ 25 kN/ 40 kN/ 63 kN/ 100 kN/ 160 kN/ 250 kN/ 400 kN/ 500 kN • Operating Pressure：14 MPa

• Operating Temperature：0～70 ℃

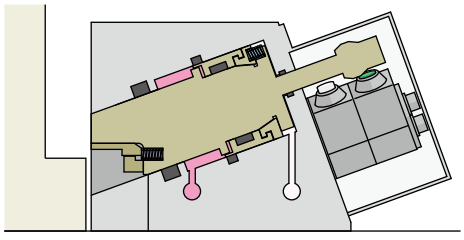
Features

■ Action Confirmation Switch

＜Locked State＞ Lock Action Confirmation Switch ON



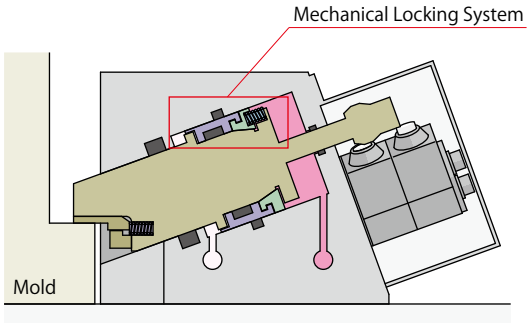
＜Released State＞ Release Action Confirmation Switch ON



Action Confirmation Switch Interlock Function

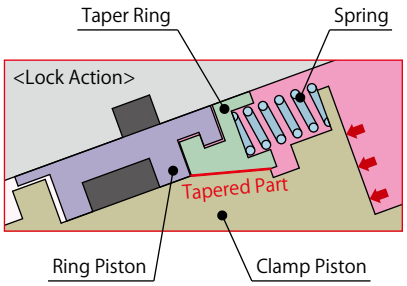
Equipped with a lock/release action confirmation switch.
When a malfunction occurs, the interlock stops the IMM operation.

Mechanical Locking System



The mechanical locking system prevents a mold from falling.

The built-in mechanical lock holds the mold with a powerful holding force even when the locking pressure drops to zero in case of piping damage etc.

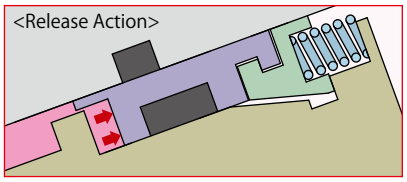


<Lock Action>

The taper ring expands to the tapered part of the clamp piston by the lock hydraulic pressure and spring force. (Mechanical Locking).
Oil bath structure prevents the taper ring from sticking to the clamp piston.

<Lock Hydraulic Pressure at 0MPa>

The clamp piston maintains the locked state with the holding pressure created by the mechanical locking system.

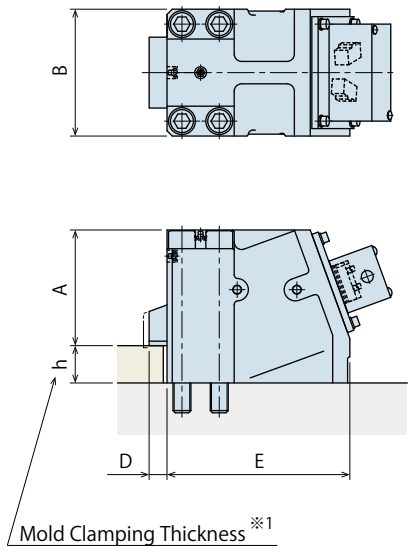


<Release Action>

With the release pressure, the ring piton pushes up the taper ring to perform a smooth release action.

Dimensions <Model GWA>

For Small to Extra-Large IMMs



Model No.	Clamping Force [kN] (At 14 MPa)	IMM Capacity※2 [kN]	A	B	D	E
GWA0100	10	～ 500	41	48	8	81
GWA0160	16	～ 750	48	58	9	93
GWA0250	25	～ 1500	56	72	10	107
GWA0400	40	～ 2500	69	90	12	123
GWA0630	63	～ 3500	82	110	14	140
GWA1000	100	～ 5500	98	135	17	152
GWA1600	160	～ 8500	128	138	20	205
GWA2500	250	～13000	155	170	24	245
GWA4000	400	～20000	195	215	28	305
GWA5000	500	～30000	195	215	28	305

Notes:

※1. We provide GWA clamp according to the mold clamping thickness (h dimension). Please contact us for further information.

※2. It indicates when using four clamps each on both stationary and movable platen.

Pneumatic Clamping Systems

Model H□/Q□

Pioneer of Pneumatic Clamp

Pneumatic Clamp Series

The Same Force as a Hydraulic Clamp, Even with Air Pressure

H Series

For Small to Extra-Large IMMs・With Action Confirmation Switch

Fixed Clamp

Model HC

T-Slot Manual-Slide Clamp

Model HB

T-Slot Automatic-Slide Clamp

Model HE

Q Series

Compact Size Clamps for Small IMMs

Manual Block-Slide Clamp

Model QM

T-Slot Manual-Slide Clamp

Model QB

T-Slot Automatic-Slide Clamp

Model QE

Specifications

＜Model HC＞

• Clamping Force：9.8 kN/ 15.7 kN/ 24.5 kN/ 39.2 kN/ 61.7 kN/ 98 kN/ 157 kN/ 245 kN/ 392 kN/ 490 kN • Operating Pressure：0.49 MPa

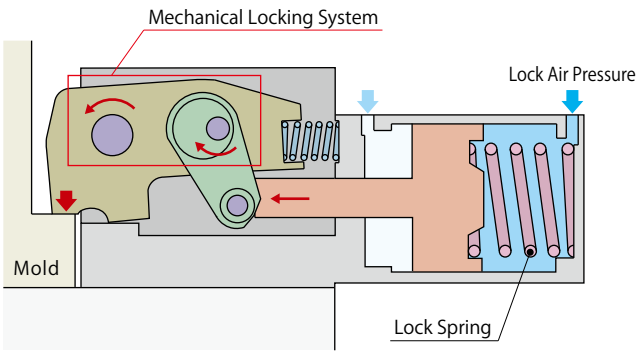
• Operating Temperature：0～70 ℃

＜Model QM＞

• Clamping Force：10 kN/ 16 kN/ 25 kN/ 40 kN/ 63 kN • Maximum Operating Pressure：1.0 MPa • Operating Temperature：0～70 ℃

Features ＜Model HC＞

Clamping Force and Holding Force at 0MPa Air Pressure



The same force as a hydraulic clamp.

<Clamping Force>
Exert the same force as a hydraulic clamp, but with the use of air, spring force and a mechanical locking system.

<Holding Force at 0MPa Air Pressure>
The spring force maintains the mold locked even when air pressure drops to 0MPa.

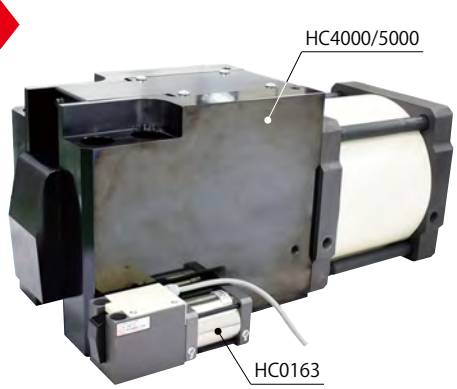
Action Confirmation Switch

Action Confirmation Switch Interlock Function

H series clamps are equipped with a lock/release action confirmation switch.

Larger Sizes Have Been Introduced

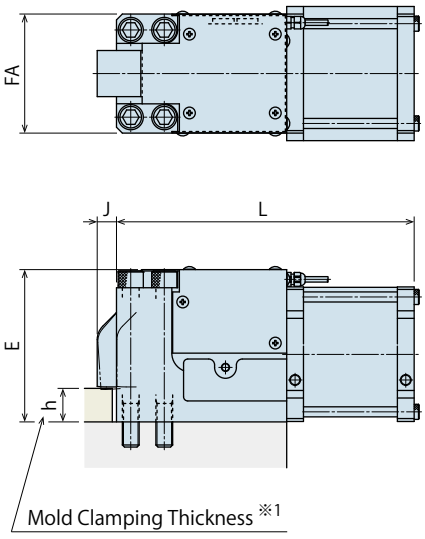
NEW PRODUCT



Pneumatic Clamp Capable of 3000 ton IMM

Larger Sizes with Clamping Force：392kN / 490kN
(Model HC4000 / 5000)
These clamps are available for extra-large 3000 ton IMMs.

External Dimensions ＜Model HC＞



Model No.	Holding Force [kN] (At 0.39 MPa)	IMM Capacity※2 [kN]	E	FA	J	L
HC0103	9.8	～ 500	66	50	10.5	159
HC0163	15.7	～ 750	76	60	12	174
HC0254	24.5	～ 1500	85.5	72	13	195
HC0404	39.2	～ 2500	104.5	90	15.5	217
HC0634	61.7	～ 3500	128	110	17.5	254
HC1004	98	～ 5500	150	135	20	287
HC1604	157	～ 8500	182	142	23	355
HC2504	245	～13000	227	170	26	435
HC4000	392	～20000	275	215	30	563.5
HC5000	490	～30000	275	215	30	563.5

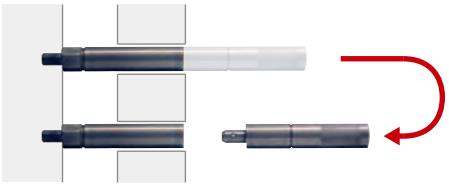
Notes:
※1. We provide HC clamp according to the mold clamping thickness (h dimension). Please contact us for further information.
※2. It indicates when using four clamps each on both stationary and movable platen.

Quick Ejector Rod

Model **PME**

NEW PRODUCT

Ejector Rod Exchange in 10 Seconds



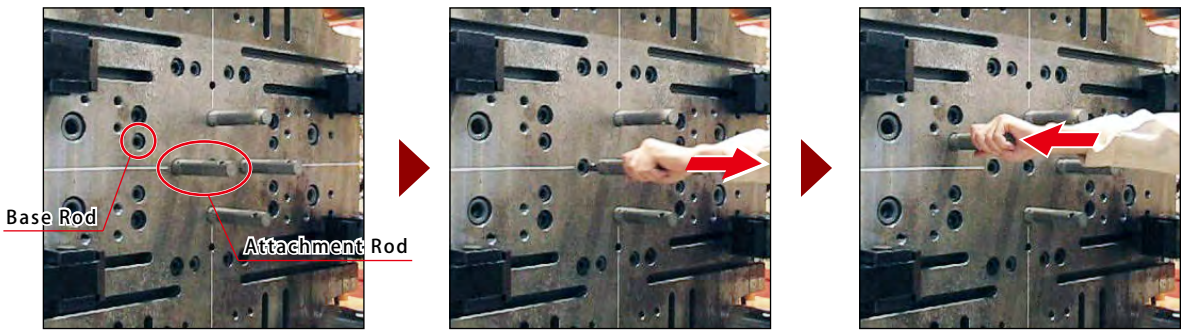
Specifications

- Rod Diameter：ϕ25 mm/ϕ30 mm/ϕ45 mm

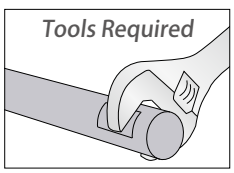
※ Quick ejector rod is produced according to an IMM and mold. Please contact us for further information.

Features

Just "pull out" and "insert" to exchange the ejector rods!!

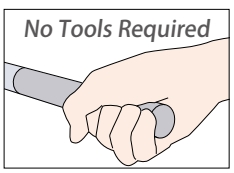


Improvement Effects



Before using quick ejector rods

Change time for threaded ejector rods is **240** secs.
4 threaded ejector rods x 60 secs. per rod.



After using quick ejector rods

Change time for Quick Ejector Rods is **10** secs.
4 Quick Ejector Rods x 2.5 secs. per rod.

※ Reference of 300 ton IMM

Hydraulic Unit

Model CP□/CW□

NEW PRODUCT

Best Selling Products

Newly Renovated

Suitable for Kosmek Hydraulic Clamps

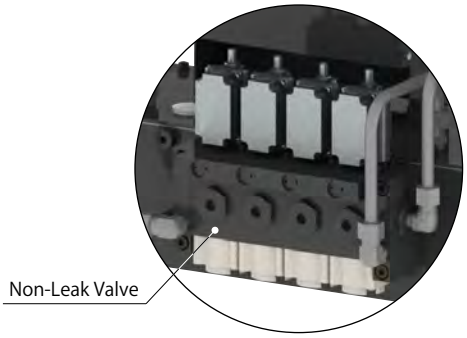
Specifications

- Main Components：Pump/Non-Leak Valve/Pressure Switch/Pressure Relief Valve
- Operating Pressure：25 MPa (For GB□ Series) / 14 MPa (For G□A Series) • Operating Temperature：0~70℃

※ Please contact us for further information.

Features

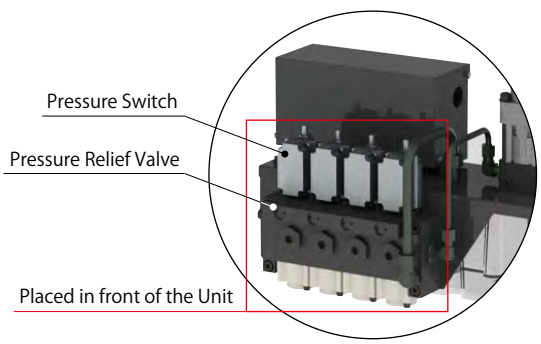
Larger Flow Rate



Larger Flow Rate
Higher Clamp Speed

The Kosmek non-leak valve has been thoroughly revised.
With a wider oil path, it has larger flow rate.
Faster action speed reduces mold change time.

Easy Maintenance



Maintainance has been improved by changing the layout.

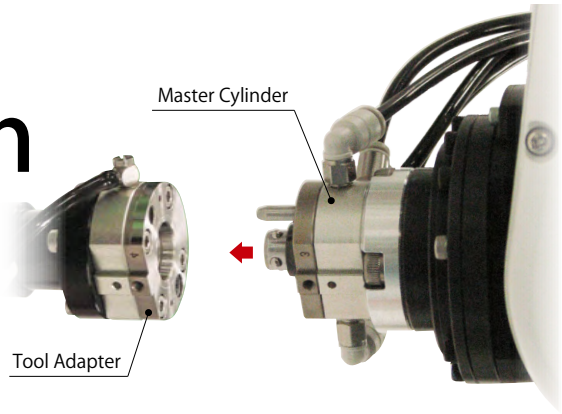
Placing the non-leak valve, pressure switch and pressure relief valve in front of the unit allows for easy mounting and dismounting.

Robotic Hand Changer

Model SWR

Zero Backlash

The World's Only Robotic Hand Changer

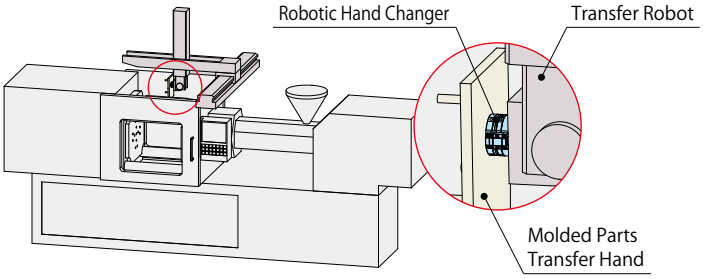


Specifications

- Allowable Weight (At Air Pressure 0.5MPa)：3 kg/ 7 kg/ 12 kg/ 25 kg/ 50 kg/ 75 kg/ 120 kg • Maximum Operating Pressure：1.0 MPa
- Locating Repeatability：3 μm • Operating Temperature：0 ～ 70 ℃

※ Please refer to the catalog or website for further information.

Features

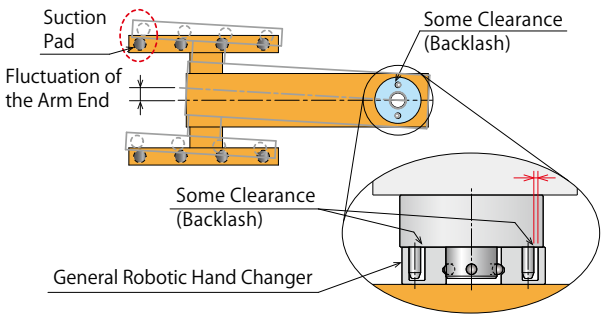


Best Used for Transfer Hand Change

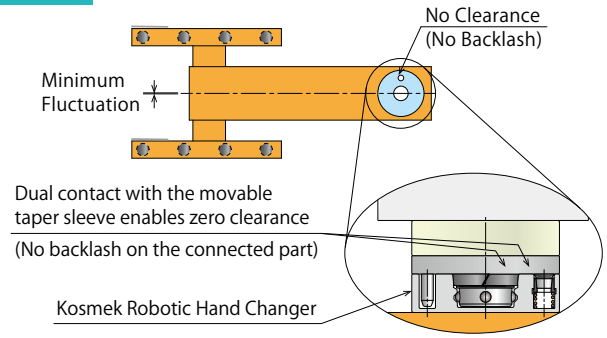
Even without air supply, a built-in spring maintains the coupled state. This prevents the hand from falling.

Improvement Effects

Before



After



Kosmek robotic hand changer minimizes fluctuation of the longer arm.

<General Robotic Hand Changer>

With low locating accuracy, fluctuation of the arm end becomes larger. Clearance on the hand changing part may result in gap due to the moment of robot movement. When suction pad is off-position, the pad may not adsorb products, or it cannot place products properly after transferring them.

<Kosmek Robotic Hand Changer>

With high locating accuracy (3 μm), fluctuation of the arm end is minimal. Since there is no clearance or backlash, the moment of robot movement does not affect attaching and detaching products. Prevent errors on attaching and detaching with high accuracy locating.

Company Profile

KOSMEK LTD. Head Office

Company Name	KOSMEK LTD.
Established	May 1986
Capital	¥99,000,000
Sales	60 billion yen (period ended March 2015)
Chairman	Keitaro Yonezawa
President	Tsutomu Shirakawa
Employee Count	230
Group Company	KOSMEK LTD.　KOSMEK ENGINEERING LTD. KOSMEK (USA) LTD.　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

Sales Offices

Sales Offices across the World

Japan Overseas Sales	**TEL. +81-78-991-5162**	FAX. +81-78-991-8787 KOSMEK LTD. 1-5, 2-chome, Murotani, Nishi-ku, Kobe-city, Hyogo, Japan 651-2241 〒651-2241　兵庫県神戸市西区室谷2丁目1番5号
USA KOSMEK（USA）LTD.	**TEL. +1-630-241-3465**	FAX. +1-630-241-3834 1441 Branding Avenue, Suite 110, Downers Grove, IL 60515 USA
China KOSMEK（CHINA）LTD. 考世美(上海)貿易有限公司	**TEL.+86-21-54253000**	FAX.+86-21-54253709 21/F, Orient International Technology Building, No.58, Xiangchen Rd, Pudong Shanghai 200122., P.R.China 中国上海市浦东新区向城路58号东方国际科技大厦21F室 200122
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Thailand Thailand Representative Office	**TEL. +66-2-715-3450**	FAX. +66-2-715-3453 67 Soi 58, RAMA 9 Rd., Suanluang, Suanluang, Bangkok 10250, Thailand
Taiwan (Taiwan Exclusive Distributor) Full Life Trading Co., Ltd. 盈生貿易有限公司	**TEL. +886-2-82261860**	FAX. +886-2-82261890 16F-4, No.2, Jian Ba Rd., Zhonghe District, New Taipei City Taiwan 23511 台湾新北市中和區建八路2號 16F－4（遠東世紀廣場）
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Indonesia (Indonesia Exclusive Distributor) P.T PANDU HYDRO PNEUMATICS	**TEL. +62-21-5818632**	FAX. +62-21-5814857 Ruko Green Garden Blok Z-Ⅱ No.51 Rt.005 Rw.008 Kedoya Utara-Kebon Jeruk Jakarta Barat 11520 Indonesia

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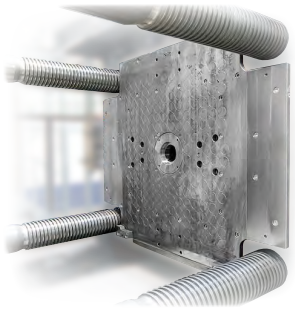
Nagoya Sales Office	**TEL.0566-74-8778**	FAX.0566-74-8808 〒446-0076　愛知県安城市美園町2丁目10番地1
Fukuoka Sales Office	**TEL.092-433-0424**	FAX.092-433-0426 〒812-0006　福岡県福岡市博多区上牟田1丁目8-10-101

Our Products

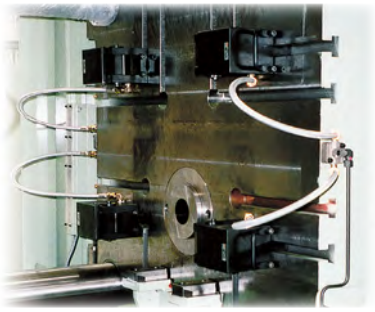
We have various types of hydraulic and pneumatic products. Please contact us for further information.



■QUICK MOLD CHANGE SYSTEMS

FOR INJECTION MOLDING MACHINES

Automatic clamping systems have reduced mold change times and increased production efficiency for plastics manufacturers in a multitude of industries. We offer a variety of clamping options including hydraulically powered clamps, pneumatic clamps with a force multiplying mechanism, and magnetic clamping systems.



■DIECAST CLAMPING SYSTEMS

FOR DIECAST MACHINES

Kosmek Diecast Clamping Systems (KDCS) enable stable die clamping for die casting and magnesium molding machines that are subjected to severe conditions caused by exposure to mold release agents and high temperature.

■QUICK DIE CHANGE SYSTEMS

FOR PRESS MACHINES

Kosmek Quick Die Change Systems are a cost effective way to improve the working environment, allow diversified and small-lot production, and reduce press down time. Available for a wide range of machines from large size transfer-presses to smaller high speed presses.

■KOSMEK WORK CLAMPING SYSTEMS

MACHINE TOOL RELATED PRODUCTS

Our clamping system enables boltless automation making loading and unloading workpieces easier. The non-leak valve enables the use of hydraulic source and fixtures in a disconnected condition after locking (clamping action).

KOSMEK
Harmony in Innovation

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- FOR FURTHER INFORMATION ON UNLISTED SPECIFICATIONS AND SIZES, PLEASE CALL US.
- SPECIFICATIONS IN THIS LEAFLET ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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