# 2015-2016 KOSMEK Quick Die Change Systems

## Complete Catalog INDEX

### Automatic Clamp

<table>
<thead>
<tr>
<th>Clamp Type</th>
<th>Description</th>
<th>Model</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA Piston Clamp</td>
<td>Slides in the T-slot and clamps the U-cut of the die.</td>
<td>Model GA</td>
<td>P.017</td>
</tr>
<tr>
<td>GD Piston Clamp</td>
<td>GA Clamp with an air cylinder that slides in the T-slot automatically.</td>
<td>Model GD</td>
<td>P.023</td>
</tr>
<tr>
<td>GN Piston Clamp</td>
<td>The clamp rod swings to avoid interfering with the die when loading/unloading the die.</td>
<td>Model GN</td>
<td>P.063</td>
</tr>
<tr>
<td>GBB Lever Clamp</td>
<td>Lever Clamp that slides in the T-slot. No U-cut is required on the die.</td>
<td>Model GBB</td>
<td>P.027</td>
</tr>
<tr>
<td>GBE Lever Clamp</td>
<td>GBE Clamp with an air cylinder that slides in the T-slot automatically.</td>
<td>Model GBE</td>
<td>P.033</td>
</tr>
<tr>
<td>GBP Lever Clamp</td>
<td>Fixed-Type Lever Clamp. No T-slot is required.</td>
<td>Model GBP</td>
<td>P.051</td>
</tr>
<tr>
<td>GBC Lever Clamp</td>
<td>GBB clamp with longer stroke for the variation in mold clamping thicknesses.</td>
<td>Model GBC</td>
<td>P.039</td>
</tr>
<tr>
<td>GBF Lever Clamp</td>
<td>GBE clamp with longer stroke for the variation in mold clamping thicknesses.</td>
<td>Model GBF</td>
<td>P.045</td>
</tr>
<tr>
<td>GBQ Lever Clamp</td>
<td>GBP clamp with longer stroke for the variation in mold clamping thicknesses.</td>
<td>Model GBQ</td>
<td>P.057</td>
</tr>
</tbody>
</table>

### Hydraulic Unit

<table>
<thead>
<tr>
<th>Unit Type</th>
<th>Description</th>
<th>Model</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydraulic Unit</td>
<td>Powered by compressed air.</td>
<td>Model CP/CB/CP/CB/CQ</td>
<td>P.071</td>
</tr>
<tr>
<td>Pump • Valve Unit</td>
<td>Separated into two pieces for flexibility in mounting.</td>
<td>Model CB/CD/CC-BC/BH-MV</td>
<td>P.083</td>
</tr>
</tbody>
</table>

### Operation Panel / Control Unit

<table>
<thead>
<tr>
<th>Unit Type</th>
<th>Description</th>
<th>Model YP/YA</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation Panel / Control Unit</td>
<td>Operates and controls the clamp system. Various models to match system specifications.</td>
<td>Model YP/YA</td>
<td>P.095</td>
</tr>
</tbody>
</table>

### Die Lifter Pre-Roller

<table>
<thead>
<tr>
<th>Lifter Type</th>
<th>Description</th>
<th>Model</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>RA Die Lifter</td>
<td>Rail of rollers set in the bolster slot. Uses hydraulic power to lift the die.</td>
<td>Model RA / RAF</td>
<td>P.099</td>
</tr>
<tr>
<td>RB Die Lifter</td>
<td>Rail of rollers set in the bolster slot. Springs lift the die.</td>
<td>Model RB</td>
<td>P.117</td>
</tr>
<tr>
<td>Pre-Roller</td>
<td>Allows the die to be brought in/out of the press for smooth die changes.</td>
<td>Model MR</td>
<td>P.123</td>
</tr>
</tbody>
</table>

### Options

<table>
<thead>
<tr>
<th>Option Type</th>
<th>Description</th>
<th>Model</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Press Load Monitor</td>
<td>Able to confirm the press load and prevent breakdown caused by overload.</td>
<td>Model YK</td>
<td>P.171</td>
</tr>
<tr>
<td>Accessories</td>
<td>Model JBA, Model JG, Model JX, Model PS</td>
<td>Model PS</td>
<td>P.173</td>
</tr>
</tbody>
</table>

---

1. **GA Piston Clamp**: Slides in the T-slot and clamps the U-cut of the die.
2. **GD Piston Clamp**: GA Clamp with an air cylinder that slides in the T-slot automatically.
3. **GN Piston Clamp**: The clamp rod swings to avoid interfering with the die when loading/unloading the die.
4. **GBB Lever Clamp**: Lever Clamp that slides in the T-slot. No U-cut is required on the die.
5. **GBE Lever Clamp**: GBE Clamp with an air cylinder that slides in the T-slot automatically.
6. **GBP Lever Clamp**: Fixed-Type Lever Clamp. No T-slot is required.
7. **GBC Lever Clamp**: GBB clamp with longer stroke for the variation in mold clamping thicknesses.
8. **GBF Lever Clamp**: GBE clamp with longer stroke for the variation in mold clamping thicknesses.
9. **GBQ Lever Clamp**: GBP clamp with longer stroke for the variation in mold clamping thicknesses.
10. **Hydraulic Unit**: Powered by compressed air.
11. **Pump • Valve Unit**: Separated into two pieces for flexibility in mounting.
12. **Operation Panel / Control Unit**: Operates and controls the clamp system. Various models to match system specifications.
13. **RA Die Lifter**: Rail of rollers set in the bolster slot. Uses hydraulic power to lift the die.
14. **RB Die Lifter**: Rail of rollers set in the bolster slot. Springs lift the die.
15. **Pre-Roller**: Allows the die to be brought in/out of the press for smooth die changes.
16. **Press Load Monitor**: Able to confirm the press load and prevent breakdown caused by overload.
Kosmek works to meet the needs of every customer, developing and producing innovative products.

http://www.kosmek.co.jp

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

Caution

P.177

Other Products

We offer a wide range of products for press machines not listed in this catalog.

Company Profile

P.181

P.191
Quick Die Change Systems

Kosmek QDCS can effectively reduce die change time for stamping presses.

Automatic clamping replaces labor-intensive bolt tightening.

Loading / Unloading dies is safe and easy with die lifters and pre-rollers.

The operation panel has user-friendly push-button controls.

Operator error is prevented by the interlock circuit, and makes your workplace safer.

Supplying Hydraulic Pressure

The Kosmek pump unit easily generates hydraulic pressure using factory compressed air.
Die Change Process

Load the die.
Load the die using a crane or forklift. The pre-rollers enable easy loading.

Transfer the die to the bolster.
Transfer the die to the bolster. With the pre-rollers and die lifters, minimal force is required to move the die. Die lifters are set in the T-/U- slots.
Die Lifter: Hydraulic Pressure ON

Set the die on the bolster.
With push-button operation, the die lifter releases and the die makes contact with the bolster.
Die Lifter: Hydraulic Pressure OFF

Set the automatic clamps.
Set the slide to the bottom dead center. Slide automatic clamps on the T-slot and bring them near the die.
Automatic Clamp: Hydraulic Pressure OFF

Lock the die.
With a button operation, automatic clamps lock the die. After safety confirmation, the pre-roller can be removed.
Automatic Clamp: Hydraulic Pressure ON

Die Change Completed

Unload the die.
With a button operation, automatic clamps release the die and it is easily unloaded.
Effects of Introducing QDCS

Introducing Automatic Clamping

**Before**
Manually-Tightened Clamp

Takes a long time to lock the die by tightening bolts.

Different operators, different tightening force.

Tightening bolts in a bad work condition can lead to an injury.

If a press machine is operated without tightening bolts securely, it causes a serious accident.

It is hard to tighten the die with bolts when the work condition is bad, or retightening is uncompleted. It causes deformation of the die.

**After**
Automatic Clamp

Lock the Die with Button Operation
With automatic clamps, only button operation is required to lock the die. Die change time would only take a few minutes, allowing a single die-setting.

Work Standardization
With automatic clamps, the die can be locked with the constant clamping force. With push-button operation, no skilled work is required.

No Dangerous Work
Since there is no need to tighten bolts by hand, there is no possibility of injury caused by the work in a bad condition.

No Insufficient Locking
There is no possibility of insufficient locking, since the interlock function prevents the press machine from working when clamps are in released condition.

Prevention of Die Deformation
Automatic clamps enable to lock the die with the constant clamping force, and prevent the die deformation which leads to defective products.
Introducing Pre-Roller / Die Lifter

**Before**
Without Pre-Roller / Die Lifter

- Hard and dangerous to load / unload the die.
- Hard work to move the die on the bolster.
- The die may be damaged if moving the die on the bolster.

**After**
With Pre-Roller / Die Lifter

- Improvement in Crane Operation
  By loading the die with pre-roller which is set in front of the press machine, crane operation would be easier.
- Less Hard Work
  The die can be set with minimal force by sliding on the pre-roller and die lifter.
- Prevention of Damage
  The die will not be damaged since it is slid on the pre-roller and die lifter.

Quick Die Change Systems Improve
Safety • Productivity • Quality

**Securing Safety by the Interlock**
When pressure decreases, the pressure switch detects abnormality and the press machine stops immediately. There are other interlock functions that ensure safety.

**Efficient Use of Press Machine**
Reduction in die change time improves the press machine operating time.

**Stockless Manufacturing**
Reduction in die change time enables stockless manufacturing which allows manufacturing the minimum required amount of products.

**Multi-Kind, Small-Quantity Production**
Reduction in die change time enables multi-kind and small-quantity production.

Total Business Power Improvement
Kosmek Quick Die Change Systems

Revolutionary Long Stroke Design Means

Die Variation Possible!!

Presenting the World's First Long Stroke Lever Clamp!

In the Past...

<table>
<thead>
<tr>
<th>Die</th>
<th>40 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bolster</td>
<td>50 mm</td>
</tr>
<tr>
<td></td>
<td>45 mm</td>
</tr>
</tbody>
</table>

Dies are not standardized...

Die standardization held back plans for converting to auto-clamping...

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

Milling of a Clamping Pocket

Addition of Spacer Plates in Clamping Area

dies had to be modified to accommodate the auto clamps.

The Future is Now!

With T-slot clamps, Die width variance is possible.

With the GBC clamp long stroke, Die clamping plate thickness variance is also possible!

Panel 1: For Customer Dies with Non-Standardized Dimensions

Panel 2: No Accidents Caused by Incorrect Spacer Thickness

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.

Since no special tools are required,

**no clamp-specific knowledge is required.**

Since anyone can assemble and disassemble the clamp,

**only a seal kit is needed to perform on-site maintenance.**

Disassembly and assembly of the lever and cylinder

**required special tools and jigs...**
Clamp Operation Time Reduction

Newly Developed Large Flow Air-Hydraulic Combination Pump

Reduces 50% of O.T. ※1 (In comparison with other Kosmek products.) ※1. O.T. = Operation Time
Reduced time varies depending on piping, etc.

Pump Performance Curve

High Performance and Compact!
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.

By changing the layout

Maintainance has been improved

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

The safety of die clamping systems will be ensured by KOSMEK safety functions.

- **Prevention of Hydraulic Pressure Reduction**
  When hydraulic pressure decreases, a balanced-type hydraulic and pneumatic pump immediately supplies additional hydraulic pressure.

- **Maintains Hydraulic Pressure**
  Even when air pressure is at zero, hydraulic pressure will be maintained by the non-leak valve.

- **Abnormal Detection by Pressure Switch**
  In case of accident such as breakage of hydraulic hose, the pressure switch detects the reduction of hydraulic pressure and immediately stops the press machine.

- **Safety Measure by Various Interlock Functions**
  Operation Panel / Control Unit has various interlock functions.

### Control Example

**Operating Condition of Releasing the Die**
- Die Change Key Switch : “ON”
- Press Machine : Stop
- Press Slide : Bottom Dead Center

**Ready to Release the Die**

**Operating Condition of Press Machine**
- Die Change Key Switch : “OFF”
- Hydraulic Clamp : Lock
- RA Die Lifter : Down

**Ready to Start the Press Machine**

- During press operation, die change systems cannot be operated unless the key has been pulled put.
- Unlike manually tightened clamp, when automatic clamps are unlocked, the press does not start working.
Selecting Method

Select the Type of Clamps

Slides in the T-slot

Clamps the U-cut of the Die
- Manual Slide
  - GA Piston Clamp
    - Model GA
    - P.017
- Automatic Slide
  - GD Piston Clamp
    - Model GD
    - P.023

Without using T-slot

Fixed by Bolts
- GBP Lever Clamp
  - Model GBP
  - P.051
- GBQ Lever Clamp
  - Long Stroke Model
  - Model GBQ
  - P.057

Clamp without using the U-cut of the Die
- Manual Slide
  - GBB Lever Clamp
    - Model GBB
    - P.027
  - GBC Lever Clamp
    - Long Stroke Model
    - Model GBC
    - P.039
- Automatic Slide
  - GBE Lever Clamp
    - Model GBE
    - P.033
  - GBF Lever Clamp
    - Long Stroke Model
    - Model GBF
    - P.045

Select the Number of Clamps

Select the number of clamps considering the points below:
- Weight of the Die
- Size of the Die
- Shape of the Die
- The Number of Slots of the Bolster and Slide

Select the Size of Clamps

The total clamping force should be more than 10% of the press capacity of upper and lower die.

Clamping Force per Clamp × The Number of Clamps > Press Capacity × 0.1
Select the Hydraulic Unit

**United Model**

**Electric Control Model**

**Standard Flow Rate**
- CP Unit (2 φ Tank)
- CPB Unit (5 φ Tank)
- CR Unit (2 φ Tank)
- CPD Unit (5 φ Tank)
- CPC Unit (5 φ Tank)
- CQC Unit (10 φ Tank)
- CPE Unit (5 φ Tank)
- CQE Unit (10 φ Tank)

**Large Flow Rate**

Model CP/CR/CP□/CQ□

**Separated Model**

**Select the Pump Unit**

**Standard Flow Rate**
- CB Pump Unit
  - Model CB
  - P.083

**Large Flow Rate**
- CD/CC Pump Unit
  - Model CD/CC
  - P.083

**Select the Non-Leak Valve Unit**

**Electric Control Model**
- BC Valve Unit
  - Model BC
  - P.087

**Manual Control Model**
- BH Valve Unit
  - Model BH
  - P.091

Select the Number of Circuits and Circuit Symbols of the Hydraulic Unit

Select the number of circuits and circuit symbols considering specifications of die change system. The typical examples are shown below. There are various kinds of circuit symbols, and combination is freely selected. Contact us for more information.

<table>
<thead>
<tr>
<th>System Structure Example</th>
<th>Number of Circuits</th>
<th>Circuit Symbols</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control either upper clamps or lower clamps</td>
<td>1</td>
<td>G&lt;sup&gt;1&lt;/sup&gt; C&lt;sup&gt;2&lt;/sup&gt; (Normal Open: 1 Circuit)</td>
</tr>
<tr>
<td>Control RA die lifter only</td>
<td>1</td>
<td>H&lt;sup&gt;1&lt;/sup&gt; D&lt;sup&gt;2&lt;/sup&gt; (Normal Close: 1 Circuit)</td>
</tr>
<tr>
<td>Control upper clamps and lower clamps individually</td>
<td>2</td>
<td>2G&lt;sup&gt;1&lt;/sup&gt; CC&lt;sup&gt;2&lt;/sup&gt; (Normal Open: 2 Circuits)</td>
</tr>
<tr>
<td>Control either upper clamps or lower clamps (normal open), and control RA die lifter separately (normal close)</td>
<td>2</td>
<td>GH&lt;sup&gt;1&lt;/sup&gt; CD&lt;sup&gt;2&lt;/sup&gt; (Normal Open: 1 Circuit), (Normal Close: 1 Circuit)</td>
</tr>
<tr>
<td>Control upper clamps and lower clamps individually (normal open), and control RA die lifter separately (normal close)</td>
<td>3</td>
<td>2GH&lt;sup&gt;1&lt;/sup&gt; CCD&lt;sup&gt;2&lt;/sup&gt; (Normal Open: 2 Circuits), (Normal Close: 1 Circuit)</td>
</tr>
</tbody>
</table>

<sup>1</sup> When using CPB/CPD/CPC/CPE/CQC/CQE
<sup>2</sup> When using CP/CR/BC/BH
# Selecting Method

## Select the Die Lifter

Select either Hydraulic Die Lifter or Spring Die Lifter depending on the situation of the press capacity, die weight and locating accuracy of the die.

<table>
<thead>
<tr>
<th>For Middle or Large Size Press</th>
<th>For Small or Middle Size Press</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hydraulic Die Lifter</strong></td>
<td><strong>Spring Die Lifter</strong></td>
</tr>
<tr>
<td>RA Die Lifter</td>
<td>RB Die Lifter</td>
</tr>
<tr>
<td>Model RA</td>
<td>Model RB</td>
</tr>
<tr>
<td>P.099</td>
<td>P.117</td>
</tr>
</tbody>
</table>

## Select the Pre-Roller

Select the pre-roller from the five types of frame.

<table>
<thead>
<tr>
<th>Removable</th>
<th>Removable • Vertical Folding</th>
<th>Horizontal Folding</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRC Pre-Roller</td>
<td>MRD Pre-Roller</td>
<td>MRE/MRF Pre-Roller</td>
</tr>
<tr>
<td>Model MRC</td>
<td>Model MRD</td>
<td>Model MRE/MRF</td>
</tr>
<tr>
<td>P.125</td>
<td>P.135</td>
<td>P.145</td>
</tr>
</tbody>
</table>

## For Heavy Dies

<table>
<thead>
<tr>
<th>Removable with Stand</th>
<th>Horizontal Folding with Stand</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRG Pre-Roller</td>
<td>MRJ/MRK Pre-Roller</td>
</tr>
<tr>
<td>Model MRG</td>
<td>Model MRJ/ MRK</td>
</tr>
<tr>
<td>P.153</td>
<td>P.161</td>
</tr>
</tbody>
</table>
System Structure Example

The basic structure with GA / GBB / GBC clamps that slide manually in the T-slot. This system is able to control the upper die circuit, lower die circuit, and RA die lifter circuit individually by using 3-circuit type hydraulic unit.

Upper Clamp : GA Clamp
Lower Clamp : GBB / GBC Clamp
Loading / Unloading the Die : MR□ Pre-Roller + RA Die Lifter
Hydraulic Source : CP□ Unit / CQ□ Unit
System Structure Example ②

Auto-slide GD / GBE / GBF clamps enable to slide clamps and lock the die with button operation. The forward-end switch (proximity switch) detects that the die is locked securely, and the backward-end switch detects that the clamps are retracted. In case malfunction occurs in the air cylinder, even the proximity switch detects the die is in place, the press machine does not start working by interlock function unless the clamps conduct lock action. Most suitable when it is difficult to slide clamp manually, or for reduction of manual systems.

Upper Clamp : GD Clamp
Lower Clamp : GBE / GBF Clamp
Loading / Unloading the Die : MR □ Pre-Roller + RA Die Lifter
Hydraulic Source : CP □ Unit / CQ □ Unit
Quick Die Change Systems

FOR PRESS MACHINES

QDCS Exclusive and Additional Products

We offer a wide range of products for QDCS not listed in this catalog. Please visit our website (http://www.kosmek.co.jp) or view our brochure.

Hydraulic Clamp

T-Slot Automatic Slide
Model GY1090

Hydraulic Clamp that Slides Automatically on the T-slot
Protrusion from the Press Slide is Less than Half of the Standard Model

Hydraulic Clamp

Swing Lever
Model GY1310

Swing the Lever 90° by Hand
No Interference with the Die when Loading/Unloading

Hydraulic Clamp

Bolt Fastening
Model DY1700

Fasten the Die Mounting Bolts with Hydraulic Force
Suitable for Unreachable or Non-visible Places

Hydraulic Clamp

Swing Rod
Model GY1400

The Rod Automatically Swings 90° and Clamps the Die
The Die Clamps are Automated with the Proximity Switch

Hydraulic Clamp

For Knockout Rod
Model PPK

Fasten the Knockout Rod with Hydraulic Force
Manual Fastening is not Required, Saving Time and Ensuring Safety

Multi-Load Model

Overload Protector
Model PV/PW

For Use on Unbalanced Loads of 2-point and 4-point Presses
Instant Response Prevents Damage to Presses or Dies
Robotic Hand Changer

Model SWR

For Changing Workpiece Transfer Arms in the Automatic Press Line
High Accuracy: Within 3 μm, High Rigidity: “0” Backlash, Long Life: A Million Cycles

Time Reduction in Changing Transfer Arm

Fluctuation is minimum even with longer arms.

● Productive
   Improves Work Efficiency
   No backlash on connected part is due to the dual surface mechanism with movable taper sleeve.

● Safe
   Prevents Arms from Falling Off
   Mechanical lock system maintains connected condition with built-in spring.

● Space Saving
   Compact and Light Weight
<table>
<thead>
<tr>
<th>Company Name</th>
<th>KOSMEK LTD.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Established</td>
<td>May 1986</td>
</tr>
<tr>
<td>Capital</td>
<td>¥99,000,000</td>
</tr>
<tr>
<td>Sales</td>
<td>60 billion yen (period ended March 2015)</td>
</tr>
<tr>
<td>Chairman</td>
<td>Keitaro Yonezawa</td>
</tr>
<tr>
<td>President</td>
<td>Tsutomu Shirakawa</td>
</tr>
<tr>
<td>Employee Count</td>
<td>230</td>
</tr>
<tr>
<td>Group Company</td>
<td>KOSMEK LTD.</td>
</tr>
<tr>
<td></td>
<td>KOSMEK ENGINEERING LTD.</td>
</tr>
<tr>
<td></td>
<td>KOSMEK (USA) LTD.</td>
</tr>
<tr>
<td></td>
<td>KOSMEK EUROPE GmbH</td>
</tr>
<tr>
<td></td>
<td>KOSMEK (CHINA) LTD.</td>
</tr>
<tr>
<td></td>
<td>KOSMEK LTD. - INDIA</td>
</tr>
<tr>
<td>Business Fields</td>
<td>Design, production and sales of precision products, and hydraulic and pneumatic equipment</td>
</tr>
<tr>
<td>Customers</td>
<td>Manufacturers of automobiles, industrial machinery, semiconductors and electric appliances</td>
</tr>
<tr>
<td>Banks</td>
<td>Resona bank, Tokyo-Mitsubishi bank, Ikeda bank</td>
</tr>
</tbody>
</table>

**Major Machine Tool Devices (As of March 2015)**
- Lathe machine devices etc. : Composite CNC lathe etc. (57 units)
- Machining center devices etc. : Horizontal Machining center etc. (18 units)
- Grinding machine : Internal and external cylindrical NC grinding machine etc. (6 units)
- Other machine tools : Honing machine etc. (24 units)
- Measuring instruments : Precision 3D CMM etc. (9 units)
- Heat treatment etc. : Nitriding furnace etc. (5 units)

**Major Industrial Property Rights**
(Including patent right and patent pending as of March 2015)
- Domestic : 110
- International : 250 (USA, EU, Taiwan, South Korea, China, India, Brazil, Mexico, Thailand, Indonesia)
Our Products

Die Change System for Press Machine

QUICK DIE CHANGE SYSTEMS

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.

Mold Change System for Injection Molding Machine

QUICK MOLD CHANGE SYSTEMS

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 different clamping options, including hydraulically powered clamps, pneumatic clamps with a force multiplying mechanism, and magnetic clamping systems.

Die Cast Clamping System

DIECAST CLAMPING SYSTEMS

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.

Work Clamping System for Machine Tool

KOSMEK WORK CLAMPING SYSTEMS

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).
## Sales Offices

### Sales Offices across the World

<table>
<thead>
<tr>
<th>Country</th>
<th>Contact Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>TEL. +81-78-991-5162  FAX. +81-78-991-8787</td>
</tr>
<tr>
<td>Overseas Sales</td>
<td></td>
</tr>
<tr>
<td>USA</td>
<td>TEL. +1-630-241-3465  FAX. +1-630-241-3834</td>
</tr>
<tr>
<td>KOSMEK (USA) LTD.</td>
<td>1441 Branding Avenue, Suite 110, Downers Grove, IL 60515 USA</td>
</tr>
<tr>
<td>EUROPE</td>
<td>TEL. +43-063-287587-11  FAX. +43-463-287587-20</td>
</tr>
<tr>
<td>KOSMEK EUROPE GmbH</td>
<td>Schleppenplatz 2 9020 Klagenfurt am Wörthersee Austria</td>
</tr>
<tr>
<td>China</td>
<td>TEL. +86-21-54253000  FAX. +86-21-54253709</td>
</tr>
<tr>
<td>KOSMEK (CHINA) LTD.</td>
<td>21/F, Orient International Technology Building, No.58, Xiangchen Rd, Pudong Shanghai 200122, P.R.China</td>
</tr>
<tr>
<td>India</td>
<td>TEL. +81-80-3565-7481</td>
</tr>
<tr>
<td>KOSMEK LTD - INDIA</td>
<td>F 203, Level-2, First Floor, Prestige Center Point, Cunningham Road, Bangalore -560052 India</td>
</tr>
<tr>
<td>Thailand</td>
<td>TEL. +66-2-715-3450  FAX. +66-2-715-3453</td>
</tr>
<tr>
<td>Thailand Representative Office</td>
<td>67 Soi 58, RAMA 9 Rd., Suanluang, Suanluang, Bangkok 10250, Thailand</td>
</tr>
<tr>
<td>Mexico</td>
<td>TEL. +52-442-161-2347</td>
</tr>
<tr>
<td>KOSMEK USA Mexico Office</td>
<td>Blvd Jurica la Campana 1040, B Colonia Punta Juriquilla</td>
</tr>
<tr>
<td>Taiwan (Taiwan Exclusive Distributor)</td>
<td>TEL. +886-2-82261860  FAX. +886-2-82261890</td>
</tr>
<tr>
<td>Full Life Trading Co., Ltd.</td>
<td>16F-4, No.2, Jian Ba Rd., Zhonghe District, New Taipei City Taiwan 23511</td>
</tr>
<tr>
<td>Philippines (Philippines Exclusive Distributor)</td>
<td>TEL. +63-2-310-7286  FAX. +63-2-310-7286</td>
</tr>
<tr>
<td>G.E.T. Inc. Phil.</td>
<td>Victoria Wave Special Economic Zone Mt. Apo Building, Brgy. 186, North Caloocan City, Metro Manila, Philippines 1427</td>
</tr>
<tr>
<td>Indonesia (Indonesia Exclusive Distributor)</td>
<td>TEL. +62-21-5818632  FAX. +62-21-5814857</td>
</tr>
<tr>
<td>P.T PANDU HYDRO PNEUMATICS</td>
<td>Ruko Green Garden Blok Z-Ⅱ No.51 Rt.005 Rw.008 Kedoya Utara-Kebon Jeruk Jakarta Barat 11520 Indonesia</td>
</tr>
</tbody>
</table>

### Sales Offices in Japan

<table>
<thead>
<tr>
<th>City</th>
<th>Contact Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head Office</td>
<td>TEL.078-991-5115  FAX.078-991-8787</td>
</tr>
<tr>
<td>Osaka Sales Office</td>
<td></td>
</tr>
<tr>
<td>Overseas Sales</td>
<td></td>
</tr>
<tr>
<td>Tokyo Sales Office</td>
<td>TEL.048-652-8839  FAX.048-652-8828</td>
</tr>
<tr>
<td>Nagoya Sales Office</td>
<td>TEL.0566-74-8778  FAX.0566-74-8808</td>
</tr>
<tr>
<td>Fukuoka Sales Office</td>
<td>TEL.092-433-0424  FAX.092-433-0426</td>
</tr>
</tbody>
</table>

*TEL. and FAX. are numbers with country code.*
Global Network

Asia Detailed Map

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