

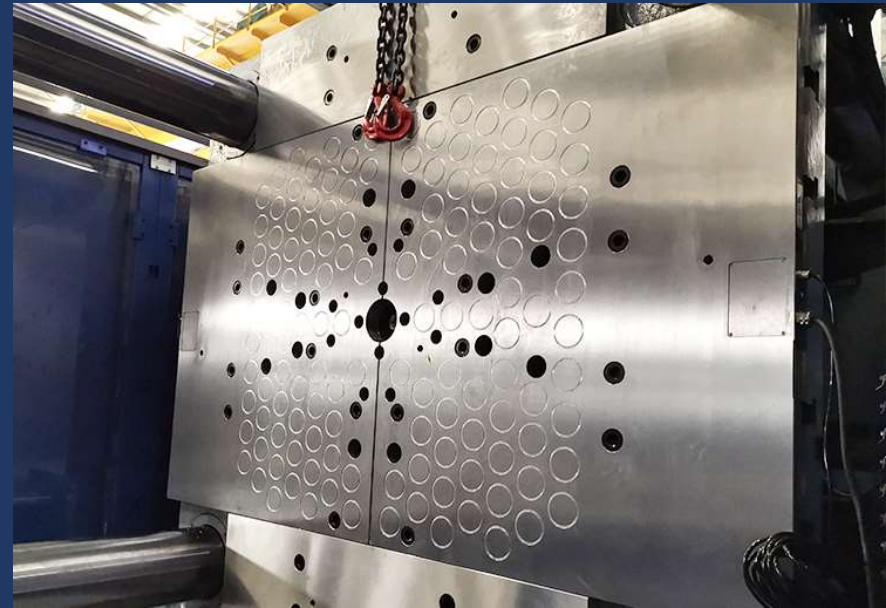
**HVR MAG**

**MAGBAT**  
EUROPE



**PoliMeFlu**  
polimerek szívének meglágyítása

## Electro Permanent Magnetic Quick Mold Change System for Injection Machines (QMC)



# HVR MAG

 **MAGBAT**  
EUROPE

## ABOUT US

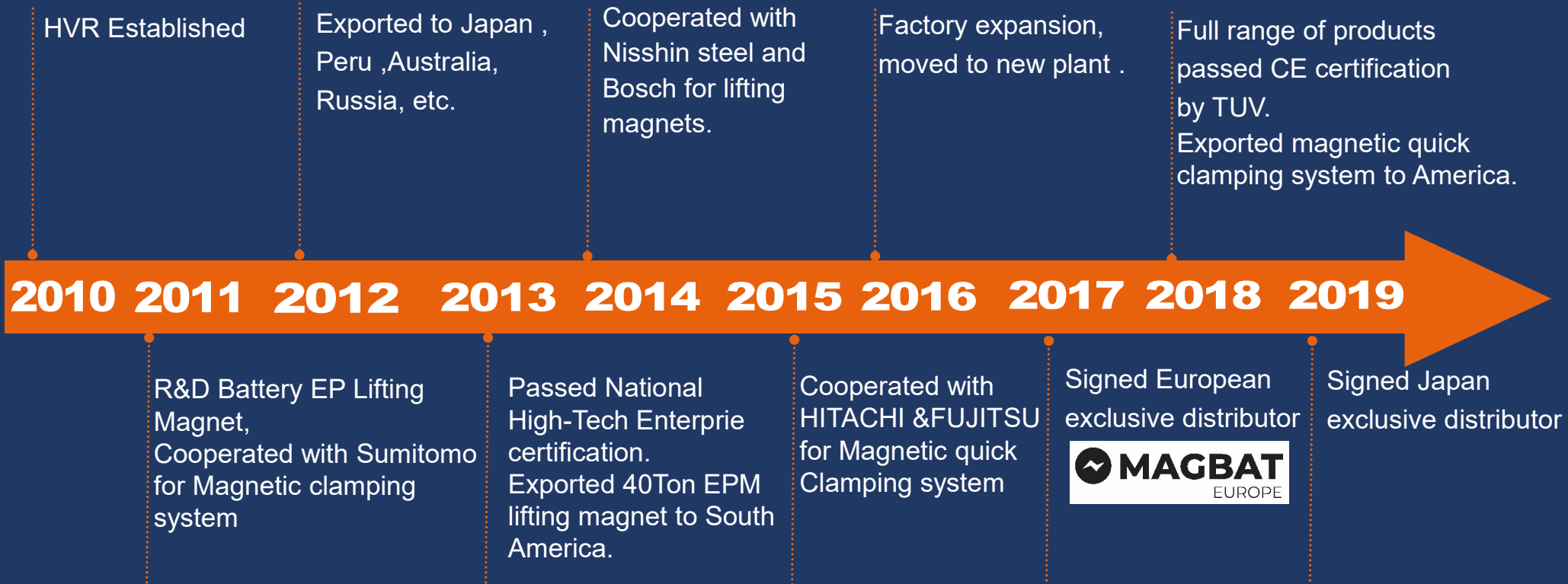


- 18 years experience
- 5 invention patents , 29 utility model patents
- Quality Insured by China Ping An Insurance Group
- CE & ISO 9001

# HVR MAG

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EUROPE

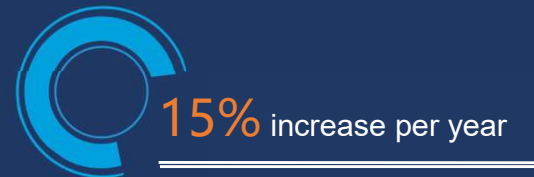
## HISTORY



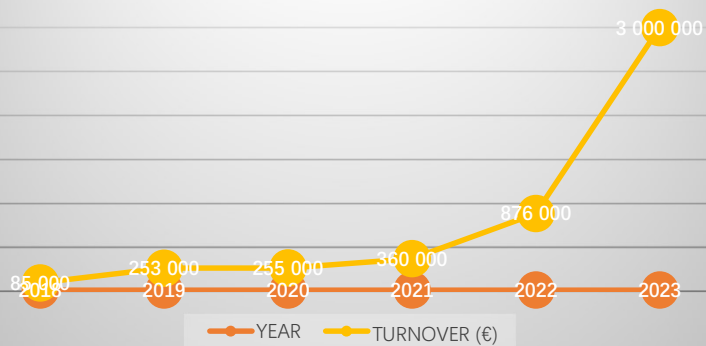


HVR MAG supplies  
products to worldwide

Cooperation with ABB, MAERSK, BOSCH,  
CAMSO, JOY, GLOBAL, HITACHI, FUJISTU,  
FOXCONN, SUMITOMO, etc...



MAGBAT-Europe



MAGBAT-Europe  
Sales and service center

Warehouse 360 m<sup>2</sup>

**HVR MAG**



**General Manager**  
**Davisn Ren**

More than 20 years experience in electro permanent magnetic industry and export business.

**HVR MAG**



**Mechanical Engineer**  
**Mr. Ben**

Focus on mechanical engineering. In charge of R&D center for more than 18 years,

**HVR MAG**



**Electrical Engineer**  
**Mr. Huang**

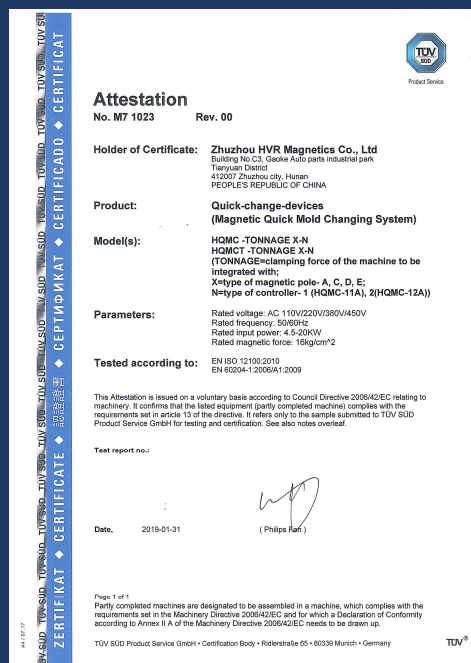
Focus on electrical engineering for more than 17 years.

**MAGBAT-Europe**



**Managing Director**  
**Guy Petrens**

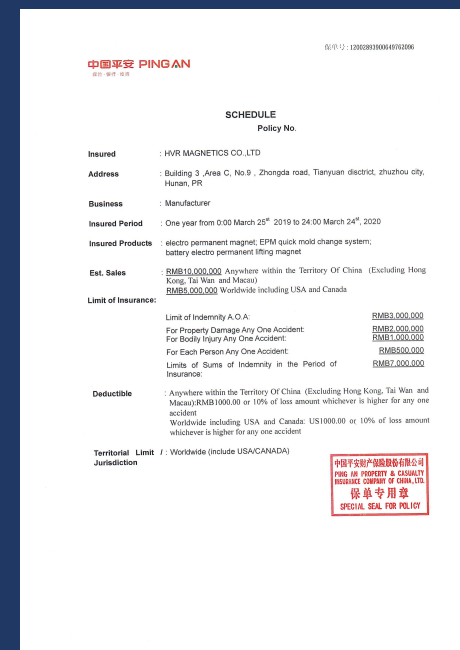
Coordination of sales and service for Europe, 20 Years experience in the field of electro permanent magnetism



CE CERTIFICATION (TUV)

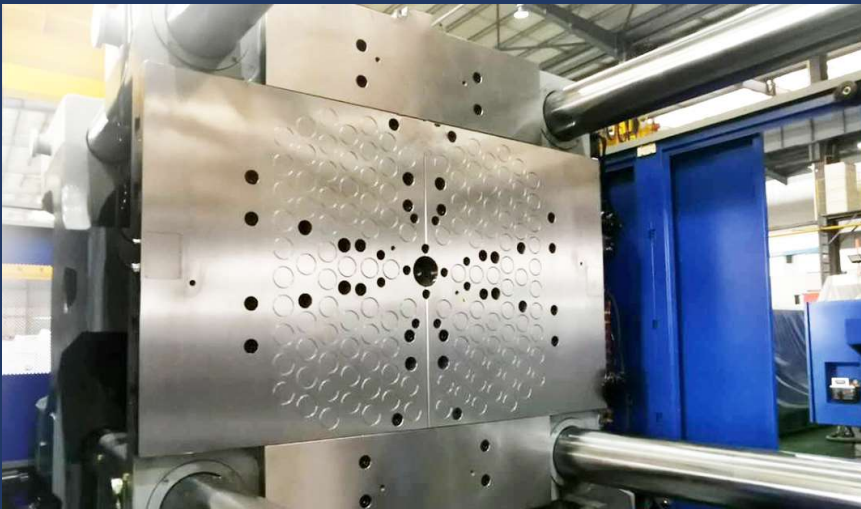


ISO 9001:2015



LIABLE INSURANCE

## Electro Permanent Magnetic Technology



← Mold Change



← Lifting Magnets



← Workholding



← Automation

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## The Evolution

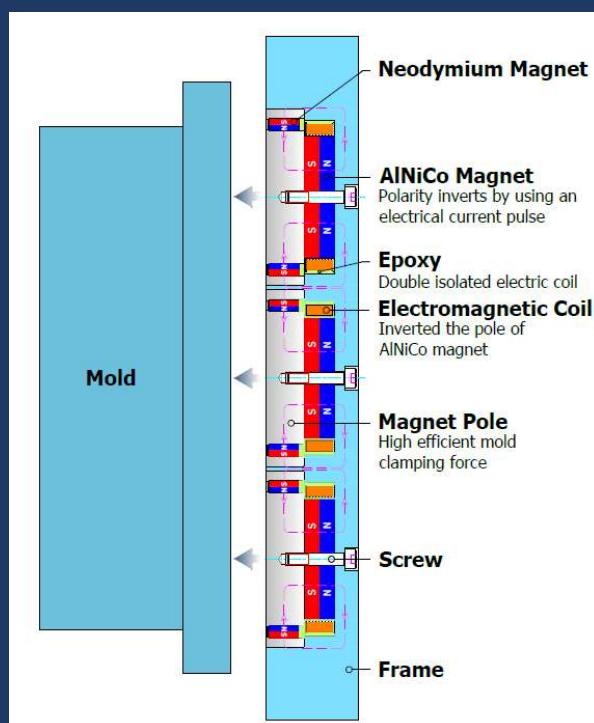
Electro Permanent Magnetic  
Quick Mold Change System



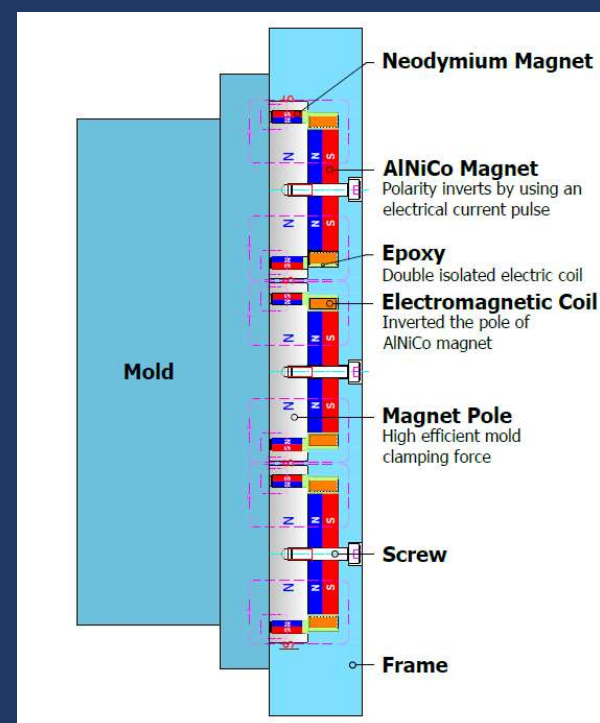
Mold change , **3** min.Done!

## ELECTRO PERMANENT MAGNETIC TECHNOLOGY

### Unclamp - Demagnetized



### Clamp - Magnetized



 All steel surface, Oil- & Waterproof

 20% and plus of magnetic force

 Extreme Reliability

 35/46 mm Thickness \*

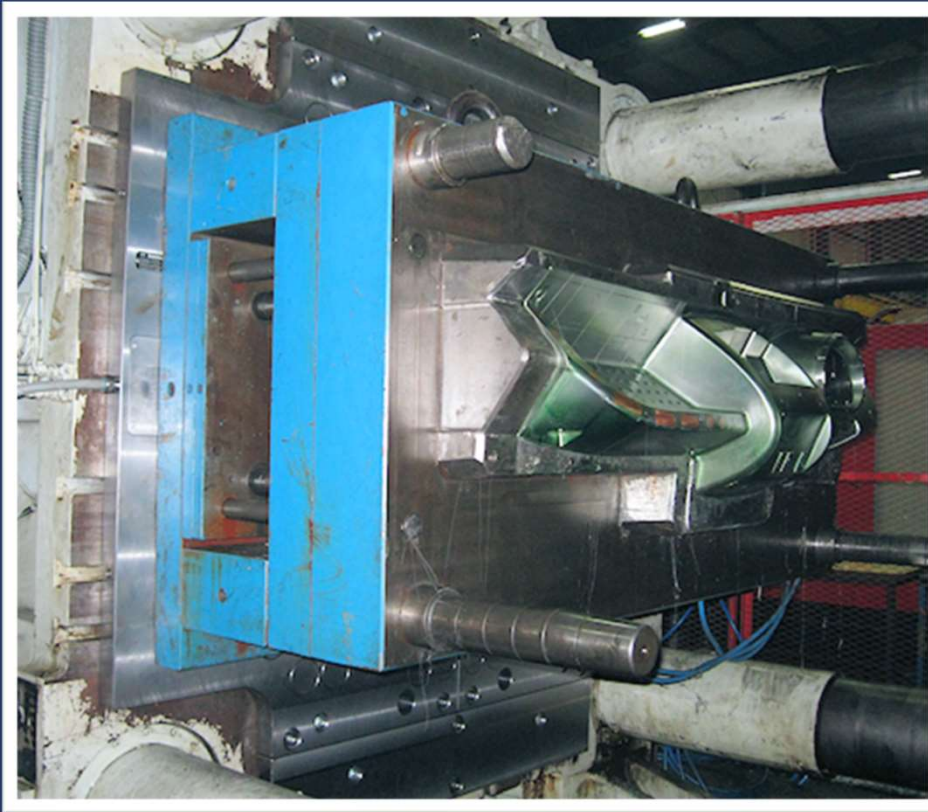
\* 35 mm – Magnetic Poles  $\varnothing$  44 mm  $\leq$  200 TON

\* 46 mm – Magnetic Poles  $\varnothing$  66 mm  $>$  200 TON



- Higher Productivity and Lower Inventory
- Flexibility and Versatility
- Ergonomic
- 100% Safe
- Higher Quality of Molded Parts
- Accessibility
- Maintenance Free
- Energy Saving

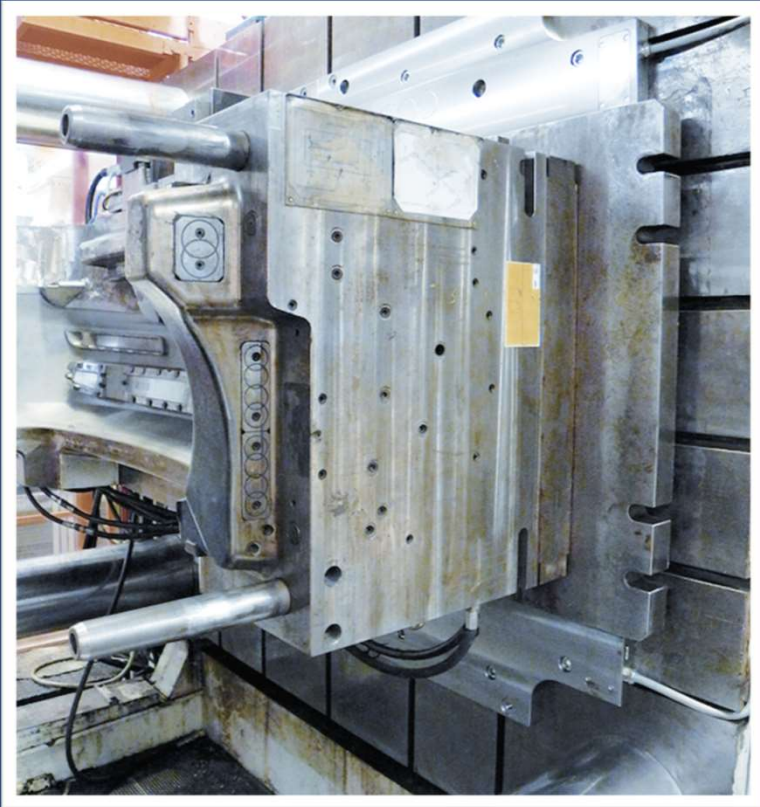




**HIGHER PRODUCTIVITY &  
LOWER INVENTORY**

Reduced down times in mold changes

Possibility to run shorter batches



## **FLEXIBILITY AND VERSATILITY**

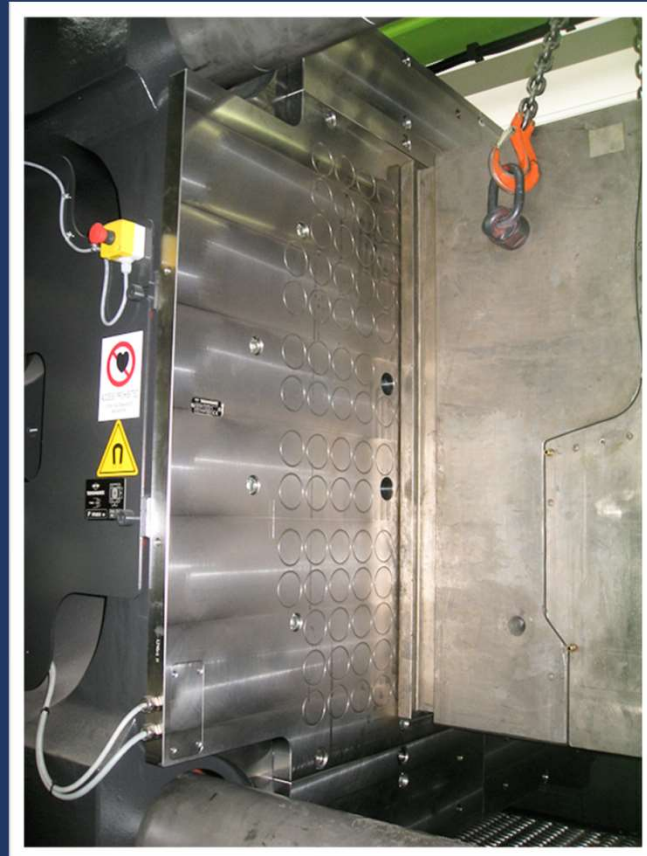
The entire magnetic working area allows any mold size.

No need to modify molds with expensive standardized back plates.

## ERGONOMIC

Molds can be easily changed by only one operator standing outside the machine

No need to “climb” the machine platens to tighten bolts





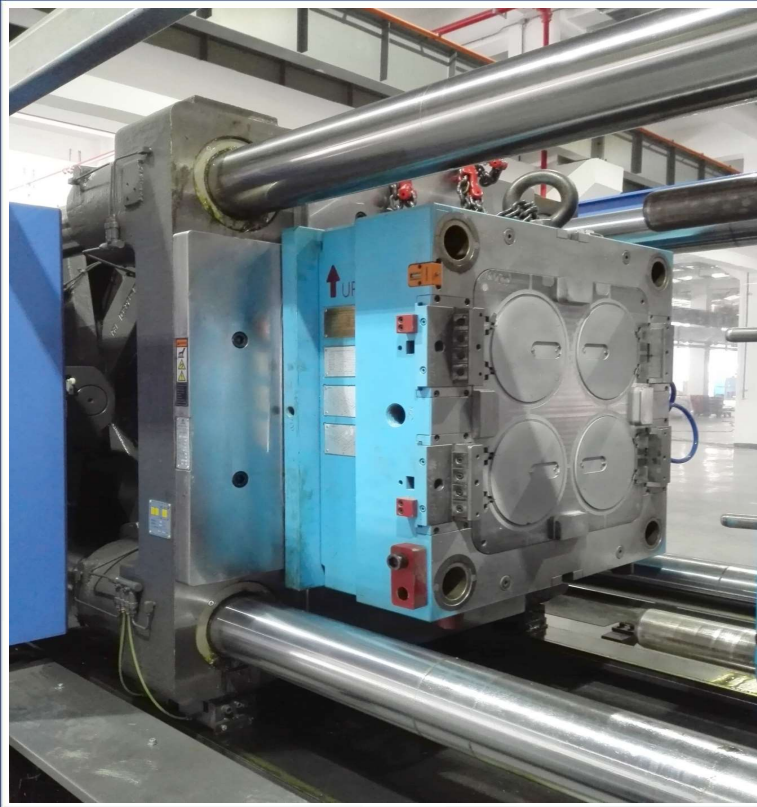
### 100 % SAFE

- Mold close detection
- Magnetic flux detection
- Temperature detection
- Magnetizing current intensity detection
- Die dislocation detection
- Distance detection
- Interlock control system
- Key Switch Control

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Advantages



## QUALITY OF MOULDED PARTS

No mold deflections while opening

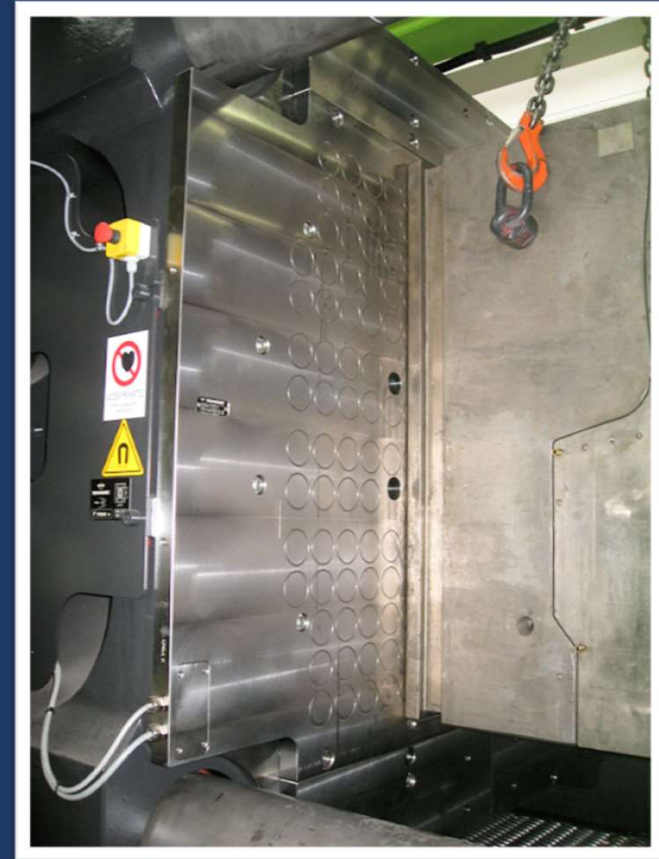


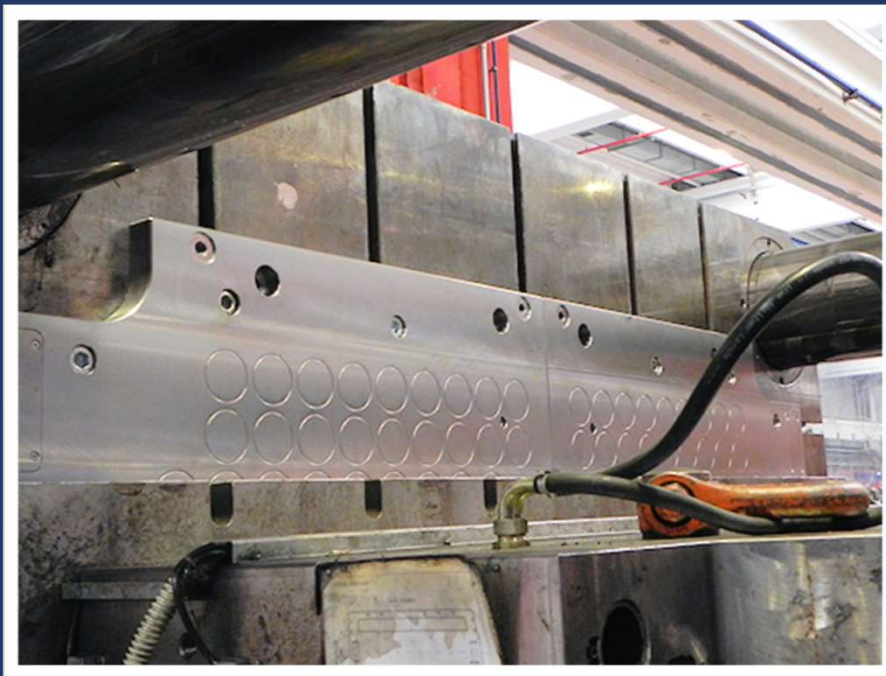
Quality and Repeatability of Moulded Parts

## ACCESSIBILITY

Easy access to side peripherals  
(water- and oil connections)

Mold perimeter totally accessible





## MAINTENANCE FREE

No moving parts



No Maintenance Needed



## ENERGY SAVING

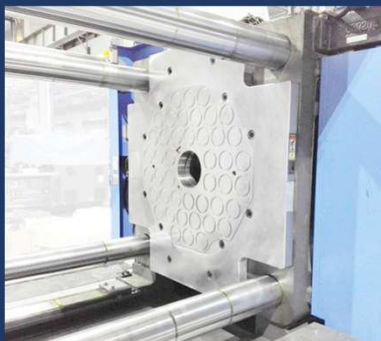
- No energy consumption during production



| Dimension (mm)                          | Ø44                           | Ø66 |
|-----------------------------------------|-------------------------------|-----|
| Magnetic force/ Pole (Kg)               | 350                           | 900 |
| Plate Thickness (mm)                    | 35                            | 46  |
| Max. operating temperature (°C)         | 120/150/180                   |     |
| Magnetic flux depth(mm)                 | 20                            |     |
| Mold proximity sensor range(mm)         | 0.2                           |     |
| Standard voltage                        | AC220V/380V/415V/440V,50/60Hz |     |
| model of Injection molding machine (KN) | 500-40000                     |     |

| No. | Item                                          | Configuration                       | Qty                                           |
|-----|-----------------------------------------------|-------------------------------------|-----------------------------------------------|
| 1   | Magnetic Plate (fixed side)                   | <input checked="" type="checkbox"/> | 1                                             |
| 2   | Magnetic plate (movable side)                 | <input checked="" type="checkbox"/> | 1                                             |
| 3   | locating ring                                 | <input checked="" type="checkbox"/> | 1                                             |
| 4   | Main control cabinet                          | <input checked="" type="checkbox"/> | 1                                             |
| 5   | Control Panel (HMI)                           | <input checked="" type="checkbox"/> | 1                                             |
| 6   | IPC interactive touch screen operation system | <input type="checkbox"/>            | 1                                             |
| 7   | Mold mismatch detection device                | <input checked="" type="checkbox"/> |                                               |
| 8   | magnetic flux detection device                | <input checked="" type="checkbox"/> | 1 Pc.Installed on the fixed and movable plate |
| 9   | displacement sensor                           | <input checked="" type="checkbox"/> | 1 Pc.Installed on the fixed and movable plate |
| 10  | temperature sensor                            | <input checked="" type="checkbox"/> | 1 Pc.Installed on fixed Plate side            |
| 11  | Mounting Bolts                                | <input checked="" type="checkbox"/> | According to the technical specification      |
| 12  | Connecting Cables                             | <input checked="" type="checkbox"/> | 1 Set                                         |
| 13  | Operation and maintenance Manual              | <input checked="" type="checkbox"/> | 1                                             |

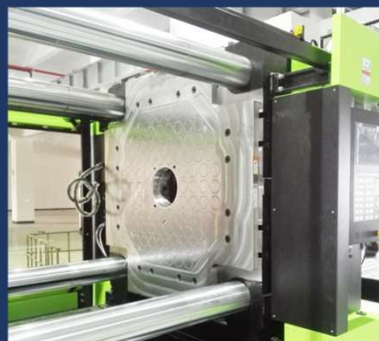
NOTE: ☒ Standard configuration    ☐ Optional configuration



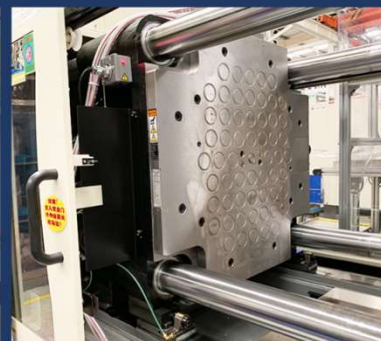
01 Haitian 200T



02 NISSEI 200T



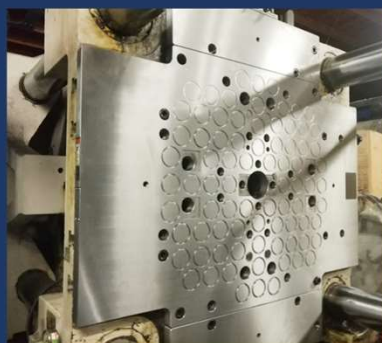
03 YIZUMI 360T



04 NISSEI 460T



05 Arburg 180T



06 TEDERIC 800T



07 MILACRON 110T



08 TEDERIC 1500T





# Thanks

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