



MBR

ELECTRO-PERMANENT MAGNETIC CLAMPING SYSTEM FOR QUICK MOLD / DIE CHANGE

Applications

- Thermo set materials
- Rubber compression
- Aluminium injection
- Composite compression
- Rubber injection

Less Mold / Die wear

Due to the clamping force being distributed over the entire surface of the mold it will be held flatter reducing wear on mating surfaces.

More productivity due to less downtime to the main mold. Better heat transfer than perimeter clamping.



Powerful

The special magnetic circuit generates high power without leaving residual magnetism in the mold

Safe

The operator can clamp or unclamp the mold without ever touching it. Electro-perm technology requires no electrical energy during operation of the machine. Loss of electrical power does not change magnetic holding force.

Labor saving

A single operator can clamp or unclamp a mold in seconds without ever touching the mold

Quick

Mold changes takes just a few minutes reducing down time to a minimum maximizing uptime





Main features

- Quick mold and die change
- Flexibility to accommodate any size or shape mold/die
- Universal machine interface
- Service temp to 250°C/482°F
- Optional built in heating

Flexible

Molds of any sizes and weights can be easily clamped to the machine platens in a few seconds without any modification.

Reliable

No moving parts, solid frame construction full metallic surface = a long maintence free life

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Security measures

THERMAL SENSOR

Thermal sensor option can be integrated into e-stop circuit.

KEY SWITCH

Key switch is in each remote control. Without key, system will not operate.

MSD SENSOR

Checks the magnetic quality of the mold Checks the air gap which gives separate and redundant safety when combined with a proximity sensor. Double checks the current sensing system giving a separate and redundant safety to the CSS system as well.

CSS SENSOR

CSS sensor checks the current passage from the main discharge cables to the magnetic platen.

PROXIMITY SENSOR

An inductive proximity sensor located in the "neutral" area detects the presence of the mold to enable the activation of the magnetization cycle. The 0,3 mm (0.012 in) threshold value prevents any "open field magnetization" to grant the operator safety and it immediately halts the machine functions in case of mold detachment. The full safety for the operator is also granted.

BDC SENSOR

Bottom dead center interlock prevents de-mag unless press is closed.

MOLD CHANGE MODE

Only activated in Mold change mode/Die set mode







Easy to install

Fast and Easy

Safe and Uniform

Easy installation

Only a few bolts are needed to fix the magnets to the machine platens. The interface with the machine follows the international safety EUROMAP/SPI/JIS standards.

No die modifications

MBR can hold molds or dies of any size or shape. MBR creates cost saving by reducing engineering time compares to other clamping methods.

Applications





One operator, with no tools, can operate all the die-clamping procedures easily and in total safety, outside the press.