



WORKHOLDING AND AUTOMATION

QMC - Mag

THE INNOVATIVE SOLUTION FOR TOOL CHANGE

Smaller batches, quicker delivery times and "Just in Time" delivery force the supplier to more frequent tool/mould change. Using the QMC-MAG system tool change times of just a few minutes can be achieved.

QUICKER - SIMPLER - SAFER

QMC - Mag High Performance

With its high energy magnets the QMC-Mag System ensures an absolute safe application in injection moulding machines due to a homogeneous and concentrated flux through the base plate of the mould.

QMC - Mag Tool control

Very precise control of the tool position and the air gap between back plate and magnetic platten. The inductive control system monitors the air gap between mould and magnet. The control ties in to the machine through a defined interface (Euromap 70). This makes the system safe without any further sensors.

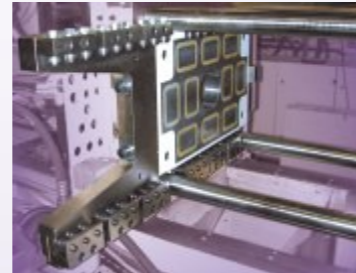
QMC - Mag Stable - Safe - Reliable

Electropermanent Magnetic System, utilising high energy magnets, will not be affected by electric power failures. Due to the monoblock-steel-construction the platten shows highest possible rigidity. Modular designed system with limited construction height. Electronic pole-reversing control unit with safety feature. Poles separated with brass, ensuring high wear resistance.

QMC - Mag The Control - SAV QMC - CE

This control is especially designed for the complete magnetizing and demagnetizing cycles of the magnetic platten. Also suitable for exchange of existing controls.

- Memorising of the plattens' magnetic characteristics
- Integrated interface with the machine
- Suitable for integration in Injection Moulding Machine control cabinet
- Monitoring of air gap between magnetic platten and mould



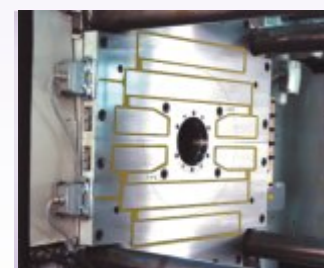
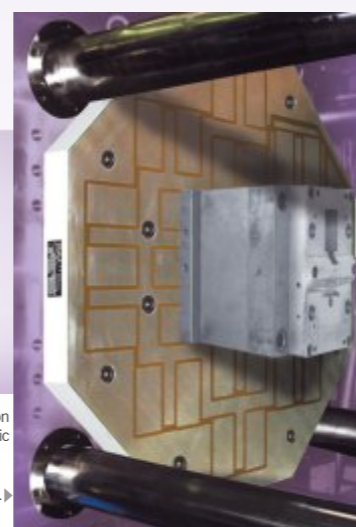
EP-QMC magnet on a 15 ton machine. With rolling system for tool change, including sliding table and preheating station. Drastic reduction of machine downtime due to preheating parallel to operation.



EP-QMC magnet on a 420 ton machine



High energy Electro permanent magnets for clamping of deep pulling tools, workpiece weight 8 ton. Including hydraulic rolling system for tool change.



EP-QMC magnet for 1600 ton machine in special execution with parallel poles



EP-QMC magnet with guiding ramp



EP-QMC magnet for 2300 tons machine in special execution with parallel poles. Prepared for rolling system for automatic tool change.

EP-QMC magnet on a 300 ton injection moulding machine.



Advantages for the plastic industry

Optimized system for Injection Moulding Machines

- Solid construction and mounting
- Low magnet height
- Centre ring hardened and exchangeable
- Due to modular pole design optional ejector preparation without loss of holding force
- Pole separation with brass ensuring slit free and wearing resistant surface
- Robust and safe air gap monitoring without additional sensors
- Modular magnet approach ensures optimal surface coverage; no "dead" zones
- Designed for maximum holding force (1600 daN per module)

Maximum flexibility

- Tool change in just a few minutes
- No modification on tool/mould required
- Universal clamping of different moulds
- Optimal utilization of clamping surface; no surface loss for mechanical or hydraulic clamping elements

Productivity

- Clear tool change savings and reduced machine down time
- Automatic tool change possible
- Reduced stocks
- Smaller batches

Quality

- Force distribution over total clamping surface
- Reduced stresses in moulds
- Improved product quality, reduced waste



THE COMPETENT PARTNER FOR WORKHOLDING IN THE PLASTIC INDUSTRY