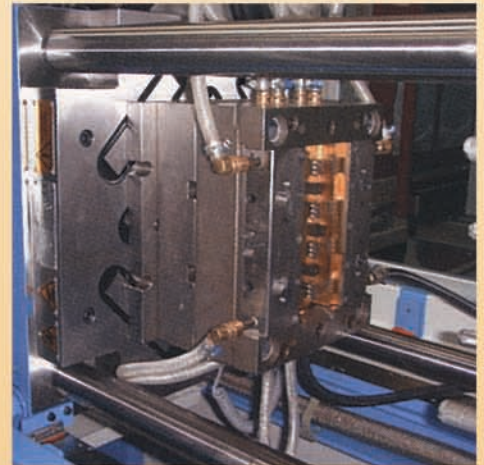
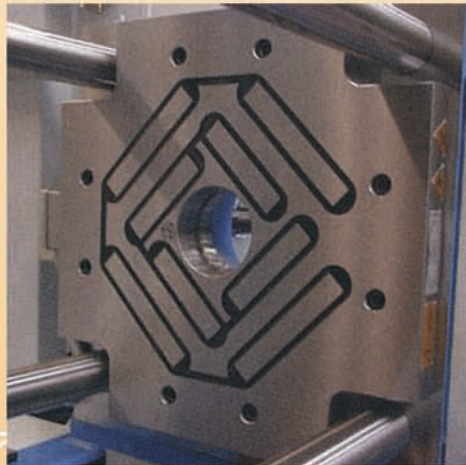
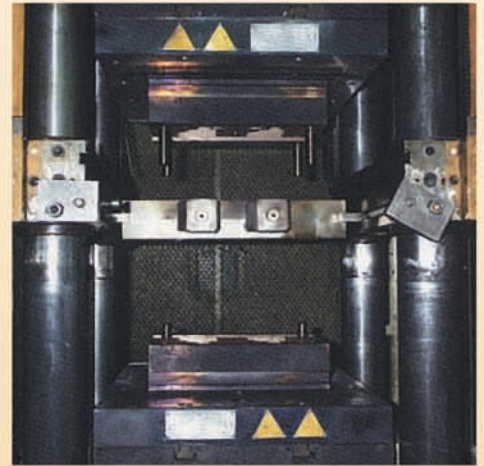


Magnetic Clamping Systems



Innovative quick change systems for plastic and rubber injection mold machines

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M-TECS

Quick Change Systems

Smaller lot sizes demand frequent tool changes. Hilma M-TECS clamping systems have distinct advantages that separate it from competition, i.e., reduced down-times, lower setup costs and thus higher productivity.

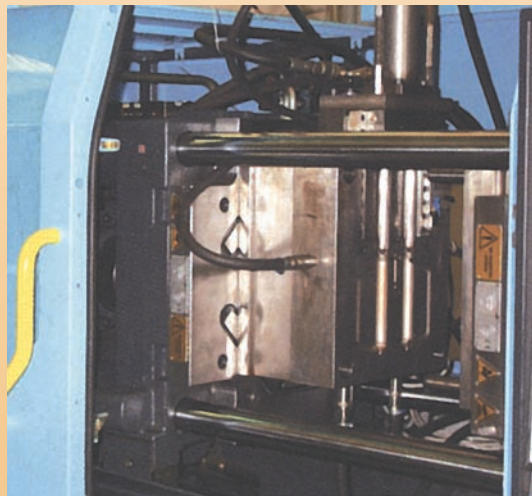
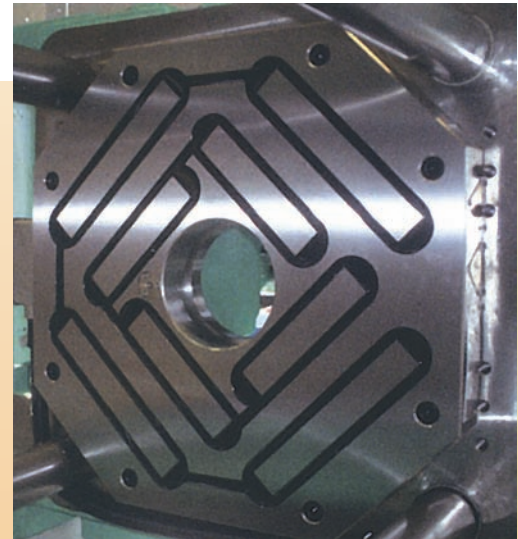
Hilma M-TECS stands for magnetic clamping technology and it sets new standards of magnetic quick change systems in the injection mold plastic production. The Hilma M-TECS 130 and 210 are based on electrical permanent magnetic technology. Special long pole technology offers higher levels of security, strength and reliability.

Ideal for plastic injection molding and/or high temperature polymers and rubber.

Hilma M-TECS systems are suitable on all horizontal and vertical machines and can be easily installed.

A minimal investment, with an attractive return on investments, convince manufacturers in the plastic industry of M-TECS value where flexibility and quickness is required.

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M-TECS 130

A magnetic quick change system for plastics with temperatures up to 130° C (266° F).

Technology with convenient security

In principal the electric permanent magnetic clamping system is safe, even with a power failure. The magnetic force needs only 1-2 seconds to initially clamp the molds. After the initial clamping, the magnetic clamp system works without electrical power. The magnetic holding force is produced exclusively by the permanent magnets. Electricity is only required to demagnetize the clamping plate and release the mold. The integrated electronic control panel controls the magnetic field strength, the mold position, and also protects the system from overheating. Overall, the technology provides convenience and safety for the operator and equipment.

The Hilma M-TECS 130 will easily operate on a wide range of temperatures up to 130°C (266°F). The effective holding force of the magnetic platen is (5-12 kg/cm²) 71-171 lb/in².

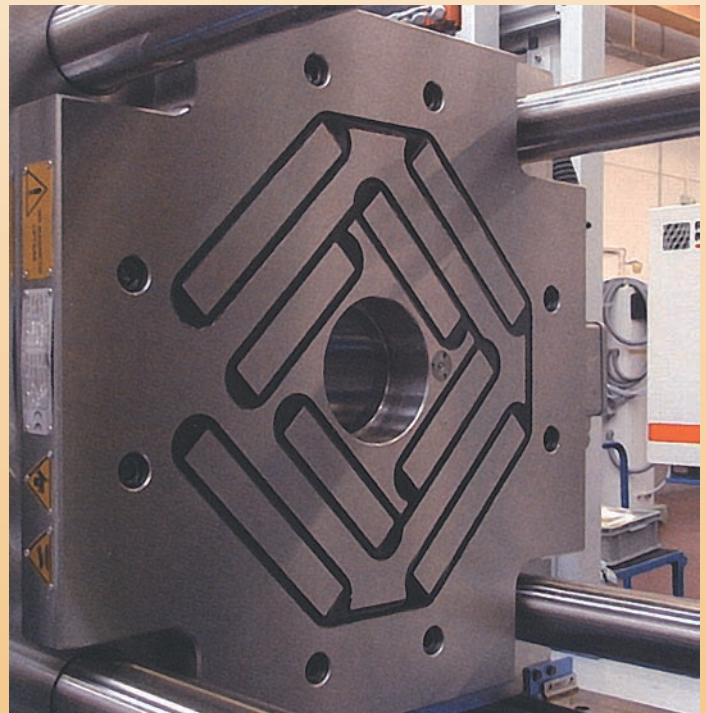
The special long pole technology provides a critical higher clamping force advantage for the Hilma M-TECS system.

Technical data M-TECS 130

Max. temperature	130°C	266°F
Spec. magnetic force	18 kg/cm ²	256 lb/in ²
Effective magnetic force	5-12 kg/cm ²	71-171 lb/in ²
Magnetic penetration depth	15-20 mm	.590-.787 in
Plate thickness	47 mm	1.85 in
Fastening	as per Euromap	

Available for machines of between
(300 kN and 50,000 kN) 33-5,500 US tons
Larger systems on request

Hilma M-TECS magnetic clamping systems offer critical advantages, ie, all molds can be changed quickly, problem free. The full surface magnetic hold leads to reduced wear on the molds and thereby reduced maintenance costs. The system contains no moving parts and is virtually maintenance free. The Hilma M-TECS magnetic system can be installed on all existing injection machines and/or built into new machines.



Hilma M-TECS 210

The Quick Change System for elastomers and thermosetting polymers. Temperature stability up to 240° C (464° F).

Improved preparation times
Greater temperature range
Quality production

The M-TECS 210 is for rubber processing and also for thermosetting polymer manufacturing. The mold changeover times can be reduced by hours, as it is not necessary to wait for long periods of time for the cooling and/or heating of the molds. With the help of magnet clamping technology, a quick mold change is possible in the hot condition since mold handling is minimized. This provides safety and security.

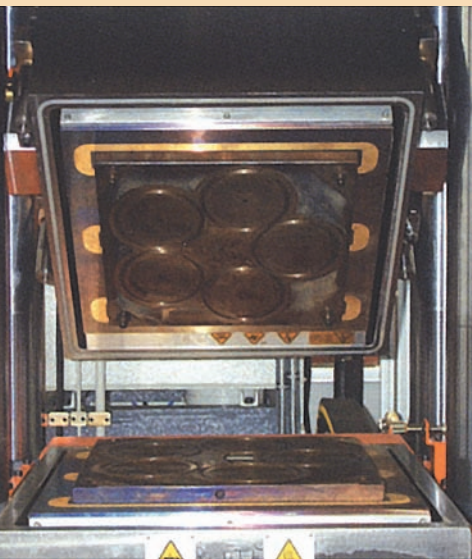
The magnetic plates have a solid metal surface. The absence of T-Slots between heating and the molds creates a more consistent temperature within the mold, which has a very positive effect on production quality. Also the magnetic plate is available on the M-TECS 210 with an integrated heater. The system is available with and without heating for presses, injection molding machines and for vacuum applications.

Technical data M-TECS 210

Max. temperature	210°C (240°C on request)	410°F (464°F)
Spec. magnetic force	18 kg/cm ²	256 lb/in ²
Effective magnetic force	single: 2-7 kg/cm ²	28-100 lb/in ²
	double: 5-12 kg/cm ²	71-171 lb/in ²
Magnetic penetration depth	15-20 mm	.590-.787 in
Plate thickness	47-85 mm	1.85-3.346 in
	the thicker platen is with heaters	

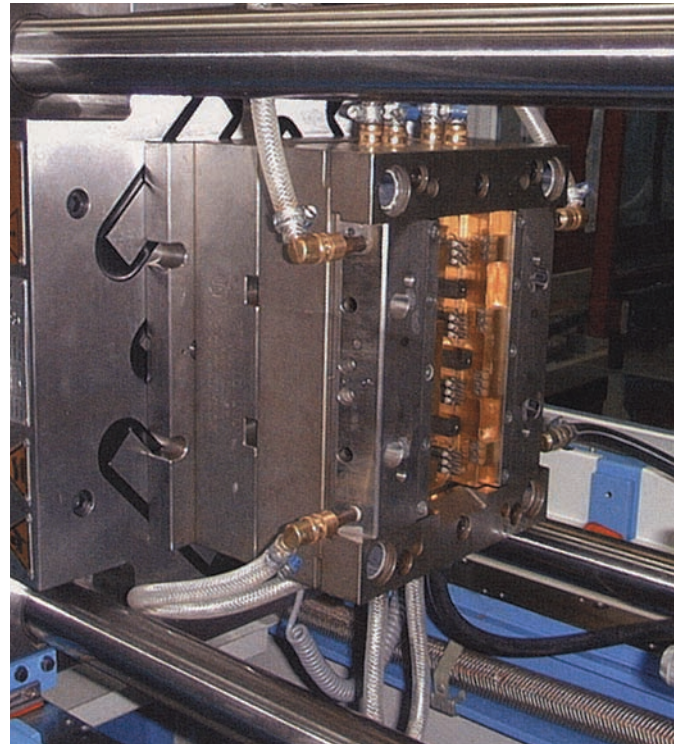
For presses and injection molding presses of any size, vertical or horizontal, with and without heating.

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Optimal starting conditions allow for good production runs

The Hilma M-TECS magnetic disks have a special concentration effect. The magnetic forces in the long pole technology that are not covered by the molds are guided to the mold surface where they are utilized as straight forces with the mold. This is a genuine advantage with small and medium size molds. Mold changes can be made in machines of all sizes within a few minutes. The solid construction between the long pole elements create special rigidity in the construction. This has a positive effect on the quality of production and also reduces wear and/or maintenance of the molds.



Summary of the M-TECS system features:

- perfect technology
- shortest down times
- reduced setup costs
- higher productivity
- small investment
- short amortization
- improved production quality
- reduced manpower requirements

Leaders by innovative technology



Hilma M-TECS Proven Background

Hilma M-TECS clamping systems originated from applications in the ceramic industry. The magnetic clamping systems have been used for over 30 years under substantially harder conditions than normally found in the plastic industry. This has been proven with a large number of parts in very demanding applications.

Hilma M-TECS 130 and M-TECS 210 are the industry leaders in holding force, safety and reliability. The entire handling and logic of the system is very flexible and user friendly. The Hilma M-TECS products are manufactured by RIVI Magnetics in Italy, which has over 30 years of success in magnet clamping systems. Our magnetic quick change systems, in the rubber industry and thermoplastic processing manufacturing, are the leaders in the industry.

The development of innovative techniques, coupled with excellent know how, has positioned Hilma RIVI as the technology leader in the market.

With the RIVI company as a partner, special innovations are also possible. We can offer to you reliable and competent advice on all questions relating to your individual tool change requirements. Decide on Hilma M-TECS and win with versatility, quality and improved productivity.

Hilma M-TECS is simply the best

For further information such as technical data and return on investment computations, we will gladly furnish sample calculations relating to your specific application.



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M-TECS

Quick
Change
Systems

powered by

RIVI MAGNETICS