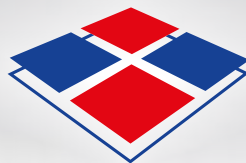




PERMANENT MAGNETISM

The Great Universal Power

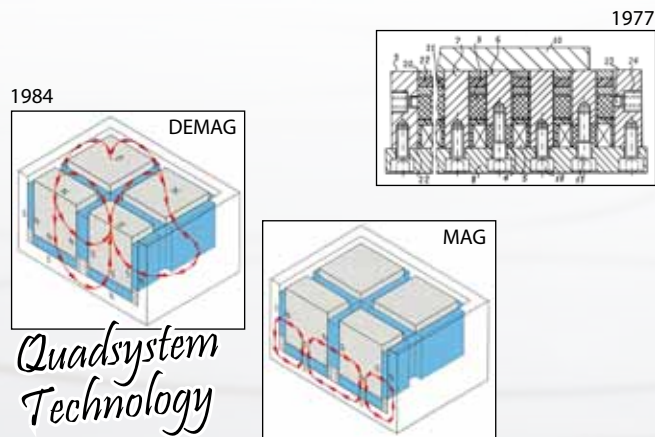


**TECNOMAGNETE**<sup>®</sup>

Safety through power

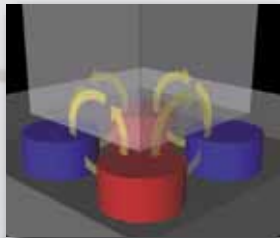
# *The idea that revolutionized the world The permanent-electro Magnetism*

The universe and all that surrounds us is influenced and regulated by the magnetism. Since the start of the industrial era human beings have sought to grasp this “magic secret”, realising the enormous potential available with this everlasting and friendly energy source.



*Quadsystem  
Technology*

Operational flexibility, concentrated force, strength, practicality and reliability make this technology ideal for a variety of applications in clamping and in lifting ferrous parts.



The work surface entirely of integral steel is perfectly uniform, stable, without sealing resin and able to act as a shield for the magnets and for the internal electrical connections.



*Monolithic  
Technology*

The activity of Tecnomagnete begins at early 70s searching for magnetic innovative solutions for industry.

Numerous technological steps have allowed us to make a revolution in the workholding field and steel handling.

The first innovation was the permanent-electro magnetic circuit, patented in 1977, able to use electricity only during activation and deactivation phases.

The typical characteristics like intrinsic safety, low energy consumption, absence of heating phenomena awarded an immediate success.

In the early 80s another essential step was the **QUADSYSTEM** patent: the Permanent-Electro reversible double magnet circuit, made of poles arranged in a chessboard within a “Neutral Crown” structure.

In 2011 the patent of the “**Monolithic Technology**” allows the construction of a new generation of magnetic tools with honeycomb structure, made from solid block, without assembled mechanical parts.

The innovative **GRIP effect** applied to the “monolithic technology” is able to ensure perfect uniformity of clamping between the machine table, the magnetic equipment and the workpiece.

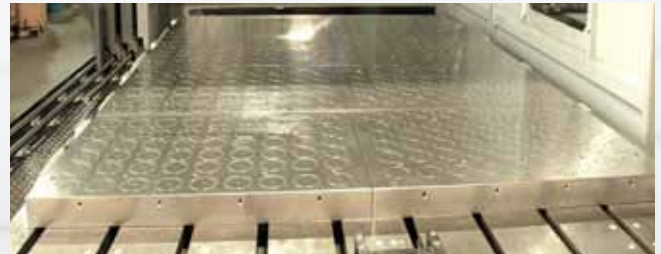
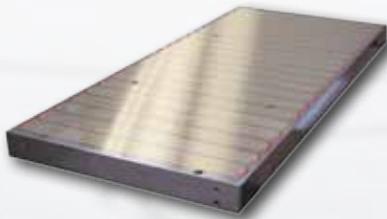
All this, together with numerous other patents, makes the unequalled superiority of the technological features of Tecnomagnete.

# Machine Tools Sector

Milling,  
Grinding  
Turning  
EDM spark erosion



The different types of machine tools can be equipped with a wide range of innovative magnetic systems. Standardized magnetic modules as well with tailor-made solutions are able to operate with concentrated, constant and predetermined force.



The integral construction of the polar area, machined from solid block, ensures maximum strength, excellent performances and long term reliability.



**GRIP**

The electronic control units allow rapid cycles of activation and control of the machine interface.



Uniform clamping, vibration free machining, less tool consumption, high precision, quick set-up and the ability to work on the 5-sided with pieces even bigger than the table are just some of the great benefits.

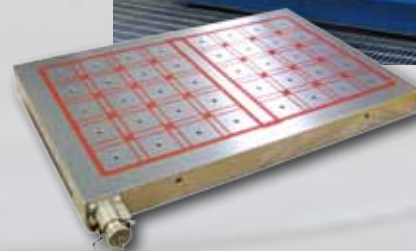
**RADIAL POLE**



**FLEX MAG**



**QUAD EXTRA**



## Injection Moulding Sector



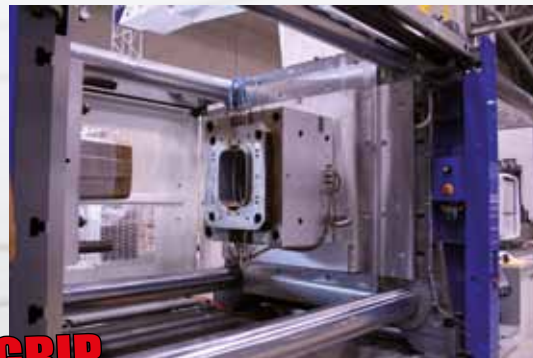
### PressTec

The "Monolithic" technology allows to obtain low thickness models, with integral steel surface with no resin, capable of ensuring structural stability and constant performance over time, in absolute reliability.

PressTec can be easily installed on any type of machine, according to international standards EUROMAP / SPI / JIS.

Advanced electronic control units allow interfacing with the machine safeties and keep the constant control of the operating parameters of the magnetic system.

The immediate increase in productivity provided by the quick mould change procedure, by improving the quality of moulded parts due to the perfect uniformity of clamping and the absence of bending of the mold, allow a rapid return on investment make it possible to achieve all targets of a "Just In Time" production. PressTec is also available with reduced thickness, in GRIP configuration.

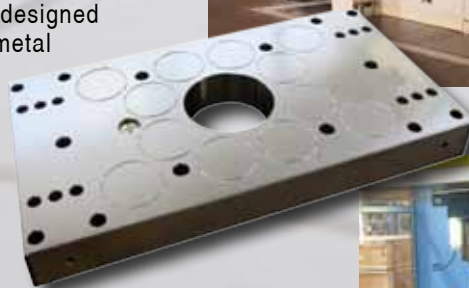


**GRIP**

## Metal Stamping Sector

### StampTec

A complete line of systems with a magnetic configurations designed for die clamping on all metal stamping and blanking machines.



**IPC**  
Interactive power control

# The "Universal" technology for a world of magnetic ideas and solutions

## Heavy lifting Sector

### **TECNO-LIFT**

proposes a wide range of standardized systems and dedicated solutions for the handling of any type of ferrous load like plates, sheets, slabs, billets, coils and rough or finished blocks.

Compact, powerful, robust, reliable are the ideal solution for a variety of industries, including iron and steel, shipbuilding, metal construction, mechanical workshops and logistics in general.

A single operator is able to easily operate at a safe distance, optimizing all storage spaces, ensuring the perfect integrity of the load and a higher level of efficiency and automation of the entire process.

The increase in productivity together with the energy savings and the absence of maintenance ensures the great convenience of the investment.



## Light Lifting Sector



# MaxX



The monoblock structure and the innovative circuit made with high-energy permanent magnets are the main characteristics of the international patent relevant to the revolutionary range of hand controlled MaxX lifters.

With capacities from 250kg to 2000kg offer features unmatched ergonomics, compactness, robustness, power and absolute reliability.

MaxX are indispensable for the handling of flat and round loads, finished and raw, in small and large industry, in total safety, with practical use and great convenience.



# BAT GRIP

permanent-electro rechargeable lifters, suitable for flat loads up to 3000kg. The battery ensures long operating time in absence of power supply.

# Research and design: ongoing source of innovation

*The ambition of the leadership.  
"Competiting through innovation"*

After having "invented" the permanent-electro field, Tecnomagnete has been able to maintain and increase the worldwide leadership in technology and in volumes produced and exported in all industrialized countries.

With over thirty years of know-how, internal R&D departments and the cooperation with prestigious universities, the company is able to develop customized solutions and to act as a reliable partner in the development of the most update equipments.

*Continuous investments  
for a better production*

New solutions, new ideas and therefore continuous investments are a constant.

Production department equipped with high-tech machines and constant cooperation with leading companies in their fields are the confirmation of the full commitment to the best competitive edge.

*Certified Quality  
and environmentally friendly*

Tecnomagnete has always been involved in the development and manufacture of products with high performance and great environmental considerations.

The ISO 9001:2008 certification of a quality management system targeted to improving the effectiveness and efficiency of the organization and to the full customer satisfaction.



## *Side by side to develop new markets*



Where steel is, it needs magnetism.

Tecnomagnete is always there!

Faithful to the mission of proposing innovative, high-performance, cost-effective magnetic solutions,



Tecnomagnete offers different equipments for any requirement of the the modern industry.

The wide international customers base can count on the presence in the major markets of an extensive network of direct offices, qualified distributors and technical centers which, together with the active collaboration of leading machine builders, are able to ensure the highest level of professionalism and service efficiency.



# **TECNOMAGNETE®**

ITALY Headquarters  
Tecnomagnete S.p.A.  
via Nerviano, 31 20020 Lainate (MI)  
Tel.: +39 02 937591 - Fax +39 02 935 708 57  
E-mail: [info@tecnomagnete.it](mailto:info@tecnomagnete.it)

GERMANY  
Tecnomagnete GmbH  
OhmstraBe 4 D - 63225 Langen  
Tel: +49 61 03 750 730 - Fax: +49 61 03 750 7311  
E-mail: [kontakt@tecnomagnete.com](mailto:kontakt@tecnomagnete.com)

FRANCE  
Tecnomagnete S.A.R.L.  
52 avenue Saint-Exupéry  
01200 Bellegarde-sur-Valserine  
Tel. +33 (0)4.50.56.06.00 - Fax +33 (0)4.50.56.06.10  
E-mail: [contact@tecnomagnete.com](mailto:contact@tecnomagnete.com)

USA  
TECNOMAGNETE Inc.  
6655 Allar Drive, Sterling Hts, MI 48312  
Tel.: +1 586 276 6001 - Fax: +1 586 276 6003  
E-mail: [infousa@tecnomagnete.com](mailto:infousa@tecnomagnete.com)

CHINA  
Tecnomagnete China Liaison office  
Room 1003, Hua Rui Building,  
18 Jiang Chang Yi Rd, 200436 Shanghai  
Tel. +86 139 17968802  
E-mail: [info@tecnomagnete.com.cn](mailto:info@tecnomagnete.com.cn)