



PERMANENT

MAGNETISM

The Great Universal Power



TECNOMAGNETE[®]
Safety through power

The revolutionary idea that has changed the world of work holding: **Permanent-Electro Magnetism**

The universe and all that surrounds us is influenced and regulated by magnetism. Since the start of the industrial era human beings have sought to grasp this "secret magic", realising the enormous

potential available with this everlasting and friendly energy source.

The Electro-Magnetic System was first used in industrial applications even if operative limitations and poor safety level were immediately emphasised by this technology.

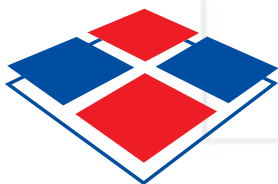
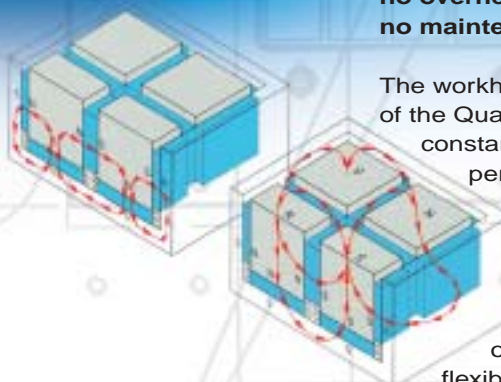
The intuition of Tecnomagnete back in the early '70's to develop a permanent magnetic system to be activated by an electric input, thus with an intrinsic safety, has become the revolutionary idea that has started a new era of magnetism within the industry, allowing Tecnomagnete to grow and develop a long running series of highly innovative products subjected to numerous international patents.

Fundamental step: the Quadsystem.

The invention of the **permanent-electro reversible double magnet circuit** managed by an electronic controller and composed by cube formed poles placed with a chess boarded geometry inside a neutral "crown" frame, is the patent that above all others has allowed to get enormous operative advantages. **Great strength concentrated and pre-determined, no flux dispersion, uniform clamping, negligible power consumption, no overheating, no maintenance and total safety.**

The workholding strength of the Quadsystem remains constant for an indefinite period of time and is not affected in any way by interruptions to the power supply.

The modularity of the circuit allows total flexibility on magnetic layout able to match a great variety of applications in several industrial fields.



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Research and design: Ongoing source of innovation

The ambition of the leadership "competing through innovation"

After having "invented" the permanent-electro field, Tecnomagnete has devoted continuous efforts for over 25 years to maintain and to grow with their worldwide leadership in technology and volumes produced with an export covering all industrialised Countries.

The unique know-how, the team of specialized engineers, the use of CAD/CAM systems for the design and the process, and the lab research are the guarantee to have the capacity to keep the Company mission **"to continue being in the forefront of the magnetism of the future"**.

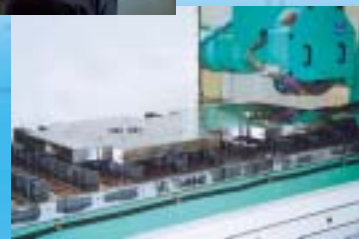
Continuous investments to improve production

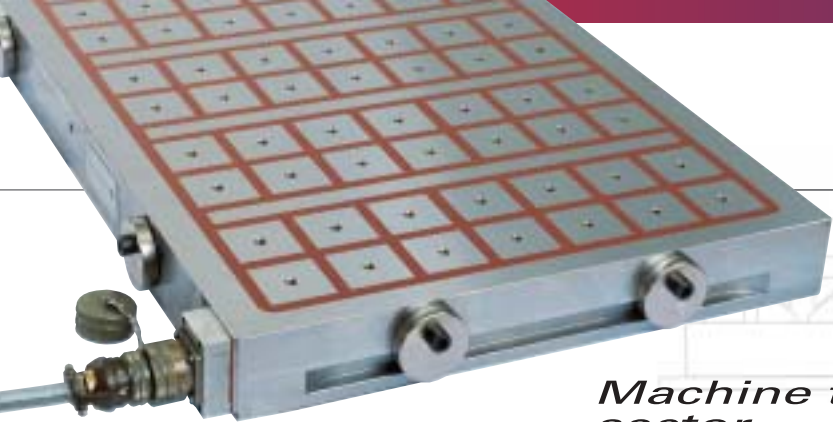
With Tecnomagnete's new solutions and new ideas come constant new investments.

Modern production facilities with the presence of the most innovative CNC machines and FMS systems, super powerful magnetisation units, laser machine for labelling the products, sophisticated measuring instruments, are the confirmation of the full commitment to the total quality.

Magnetism means respecting the quality parameters

In order to check the conformity of the products to the Company's standard, to the CE norms and to those international, a careful testing is done on all ongoing products and incoming parts. A consolidated collaboration with market leader suppliers from the steel to the magnets and to the electronic components is a further guarantee of reliability in the long run.





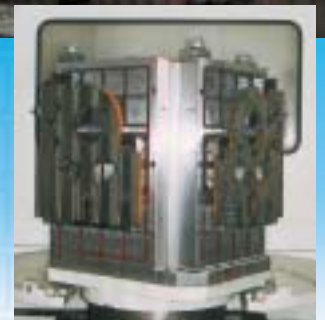
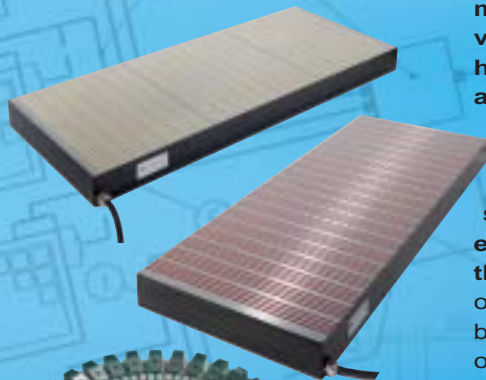
Machine tool sector

*Milling,
Grinding,
Turning,
Die-sinking EDM*

Tecnomagnete proposes the permanent-electro magnetism through magnetic systems built with solid block construction able to guarantee maximum strength, rigidity and durability over time.

Uniform clamping without machining vibrations, higher accuracies, easy and quick set-up of the workpiece with 5 sides free for full machining even on parts wider than the machine table, are some of the great advantages given by the large range of Tecnomagnete systems.

Tecnomagnete can provide the ideal solution for agile production and a real improvement of the efficiency and the productivity level on a large variety of machine tools, for vertical and horizontal machining of semi-finished or rough ferrous parts, in total safety.



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The "Universal" technology

For a word

of magnetic ideas and solutions



Heavy lifting sector

A great concentration of strength to handle plates, sheets, coils, billets, forgings and blooms of any weight and size with simplicity.

The Tecnomagnete permanent-electro magnetic lifting systems, based on the Quadsystem technology, are designed to match the requirements of handling ferrous loads in multiple industrial fields (ship building, steel industry, metalworking and fabrication, flame cutting and so on), allowing better space utilisation and the absolute integrity of the load. They can be operated with a remote control by one person only and a greater level of efficiency in the automation process is achieved with a safer working environment.



Light lifting sector

The innovative circuit and the monoblock structures coupled with high energy permanent magnets are the fundamental points of the new international patent that distinguishes the revolutionary range of the hand controlled "MaxX" lifters.

With safe lifting capacities ranging from 250 Kg (550 lbs) to 2000 Kg (4400 lbs) the MaxX series offers unmatched characteristics of **handiness, compactness, robustness, constant power and absolute reliability in time.**

MaxX lifters are indispensable tools for small and large industries to handle flat and round loads, either finished or rough, in a practical, convenient and safe way.



Permanent-electro battery lifters are also available for loads up to 3000 Kg (6600 lbs).

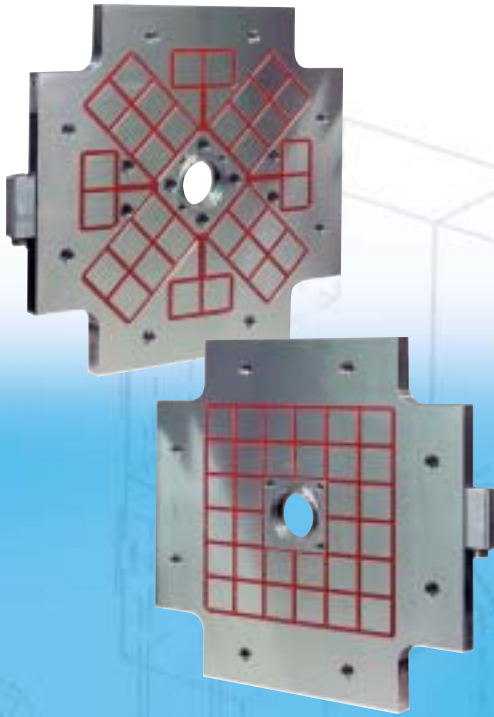
Moulding sector

Quad-Press is the “irresistible magnetic attraction” for clamping and quick mould change on all injection moulding and metal stamping machines.

The **total flexibility** for an easy and rapid positioning of any type of mould, without any particular modification, make it possible to achieve all targets of a “just in time” production.

The Quadsystem technology grants a uniform clamping all across the contact surface with the maximum constant strength.

Total operative safety is granted with any type of machine and big savings together with better quality of the production process can be obtained.



Side by Side
" To develop
new Markets"



Many tens of thousands of installations done all over the world, impose a Technical Service able to express the concept of "Customer Satisfaction" in a dynamic and precise way. Following the customer through



the pre and after-sales phases, means to have available a well trained team of engineers, equipped with "mobile units", able to make demonstrations, installations and eventually repairs on site, in a timely manner.

Just to be constantly close to the new technologies in use and to develop the most specific applications, Tecnomagnete has set-up a network of their own commercial subsidiaries located in the most strategic areas of Europe and the United States.

With the support of a qualified network of authorised distributors, commercial partners and the cooperation with prestigious OEMs, Tecnomagnete is ready to face the new millennium with the capacity to work side by side to the various realities of the world-wide industry and to accept the challenges of the ongoing globalisation.



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