

TECNO-LIFT

Permanent electro magnetic
heavy duty lifting systems

The most intelligent way to move ferrous loads

Magnetism is the smartest way of handling ferrous loads. Tecnomagnete has continuously researched and developed permanent-electro magnets for 30 years, the only technology that combines safety, strenght, convenience and power savings.

Tecnolift systems can handle loads with extreme easiness in the minimum area. They are efficient because they always operate from the top without compressing or deforming the load. The floor space is optimized as no empty areas are required around or in between the loads to get access for their pick up.

No other solution can grant the same level of performances and practical use.

TECNO-LIFT is the ideal solution for steel structural works, distribution and storage, service centers, metalworkings, shipbuildings, surface treatment and for all modern industries interested in increasing the efficiency of production process.



Quadsystem technology. Power and safety to square.

Quadsystem permanent-electro circuit: the power of an electromagnet joined to the independance of the permanent magnet.

The technology of the double magnet uses electrical power only for few seconds in activation "MAG" and deactivation "DEMAG" cycles.

Tecnomagnete designed and patented this unique and totally innovative technology, where the clamping surface is composed by square poles in chess-board disposition, able to generate great power exactly and only where it is needed: into the load.

The patented "neutral crown" guarantees a perfect insulation of the permanent magnets, avoiding any power losses and interferences with other metallic objects nearby.

Permanent safety

A permanent electro system is intrinsically safe being not affected by any electrical power failure. No battery back up system is required. The high energy coming from the permanent magnets keeps the load safely clamped with constant force for indefinite period of time and it can be released only on the ground. The maximum safety level for the operator and for the machinery is granted, always!



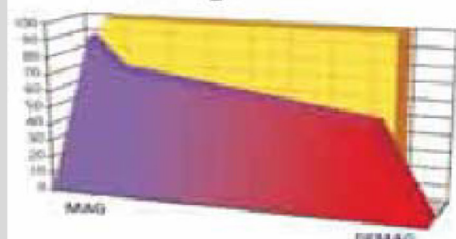
Easy to use and convenient

One single operator with a remote control can perform all picking-up, lifting, handling and releasing operations always staying at safe distance from the load.

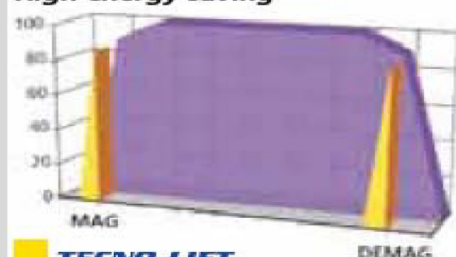
No other manpower is required near the load. No other safety tools, belts, chains need to be managed and maintained.

Advantages versus the traditional electro-magnetic technology

Constant strength



High energy saving



TECNO-LIFT
Electro magnet
Heating effect with electro magnet

Tecnolift permanent electro technology is a great leap ahead compared to the traditional electro magnetic lifters:

In performance: TECNO-LIFT is a cold system due to the absence of heat generation inside the magnets. The clamping force remains constant unlike the traditional electromagnets that are affected by the overheating of the coils in constant use.

In enerav savina: TECNO-LIFT

In operational costs:

The robust solid block construction of Tecnolift magnetic modules with no moving parts inside, no stress and no overheat in the magnet coils can grant a long reliability without specific maintenance. The expensive back up maintenance is also avoided.

In the production process:

TECNO-LIFT doesn't leave residual magnetism in the load. All problems caused normally by the residual magnetism on welding or precision machining operations are eliminated.

Flux concentration for a precise lifting

The Quadsystem technology allows to short circuit the magnetic flux within a very small depth making possible to lift one steel plate only even when limited thickness are involved.



Load stability and compactness.
The traditional wooden spacers

Tailored Solutions

Tecnolift systems are designed and built to be compact, light weight, powerful and reliable.

The vast array of standard models provides various characteristics of polar geometry and magnetic strength to achieve the correct performance with relation to the load type to be handled (plates, blocks, slabs, profiles, coils, etc...)

All standard Tecnolift systems grant a safety factor of 1:3 between the weight of the load at its operative air-gap and the relevant magnetic force of the lifter.

Certified Quality

The Tecnolift systems respect the most common international norms. (UNI-EN 13155:2004). Manufacturing quality control, operating safety and constant performances are tested and certified.

