

APPLIED MONOLITHIC TECHNOLOGY

INDUSTRY
4.0
READY



EMO
Hannover
Hall 4 – Stand A83

EXPERIENCE
INNOVATION
ENGINEERING



MillTec **GRIP**
FUNCTION

Permanent-electro magnetic
work holding systems for innovative milling

INTERNATIONAL
PATENT



TECNOMAGNETE[®]
safety through power



APPLIED MONOLITHIC TECHNOLOGY

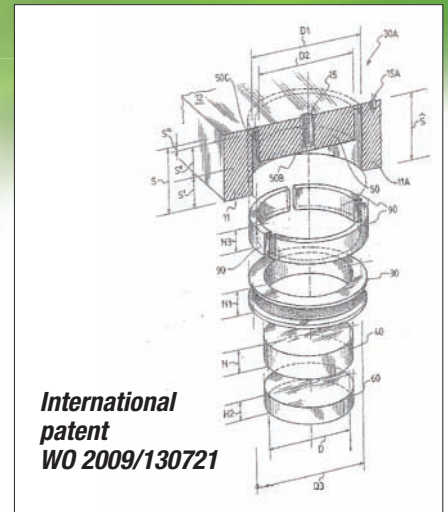
Permanent-electro magnetic work holding systems for innovative milling

Monolithic Technology

The MONOLITE patent has created a new generation of magnetic tools, without any part assembled, featuring exceptional durability and reliability. The homogeneous metallic surface (100% steel), insensitive to thermal expansion and swelling, ensures a constant flatness of the surface in contact with the workpiece.

The total absence of parts in contact with the mold subject to wear such as resin, gaskets, or brass inserts makes the surface of PressTec a full proof mechanical shield, permanently protecting the electric circuit and the permanent magnets inside.

The "honeycomb" monolithic mechanical structure provides rigidity and stability even under severe operating conditions, maintaining constant coefficients of mechanical resistance. The absence of moving parts prevents wear and makes the system maintenance-free, for total reliability over time.



The magnetic poles are integral and active parts of the frame, creating a seamless, homogeneous and impenetrable steel surface.

INTEGRAL METALLIC SURFACE

Flexibility

High accuracy machining on 5 sides of a large variety of parts in a single set up, with under edge machining, automatic self shimming and stress release.

Cost effective

The quick pay back, constant, high and predicable performances, long life, no consumption, no pollution, no maintenance, makes the MillTec the winner on the cost cut. And ... being ECO FRIENDLY too!



MillTec Grip Your best choice for the next generation clamping!



The safety of the Permanent electro (TM Patent)

The revolutionary work holding technology holding parts even without power supply at indefinite period of time.

The Power of the Quad System (TM Patent)

The checkerboard arrangement N/S poles of equal size to concentrate the total magnetic force with a limited magnetic depth only where is needed, i.e. on the work piece.

The Reliability of the Monolithic (TM Patent)

Modules are made with integral full metallic surface, low thickness, compact and lightweight

The Performances of the Round pole (TM Patent)

The carving operation allows to optimize the magnetic circuit, avoiding any assembling of the mechanical parts, with no inside air gaps and perfect stability over the time.

The Uniformity of the Grip effect (TM Patent)

The magnetic field toward the table of the machine grants the absolute uniformity of clamping between the work piece, the magnet and the machine, avoiding all vibrations.

The Efficiency of RPM pole extensions (TM Patent)

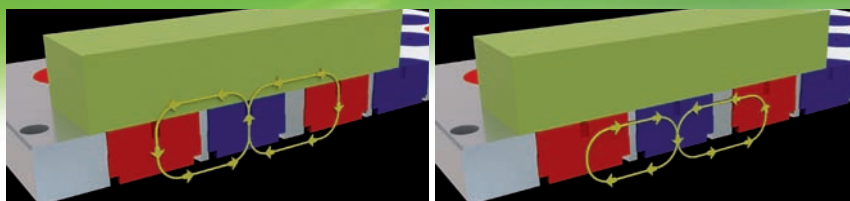
The built in self adjusting slant surfaces allows a quick and easy set up with no tools needed, avoid any mistakes during the positioning, prevents chips inside and make easy the cleaning of the working area.

The practical ERGON connector (TM original design)

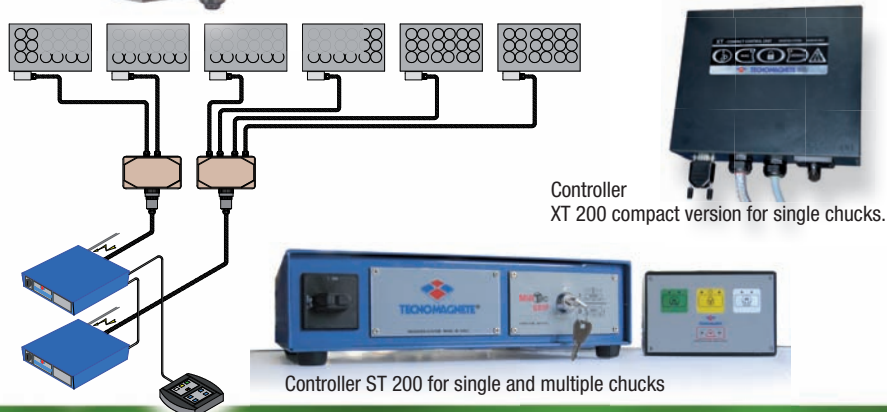
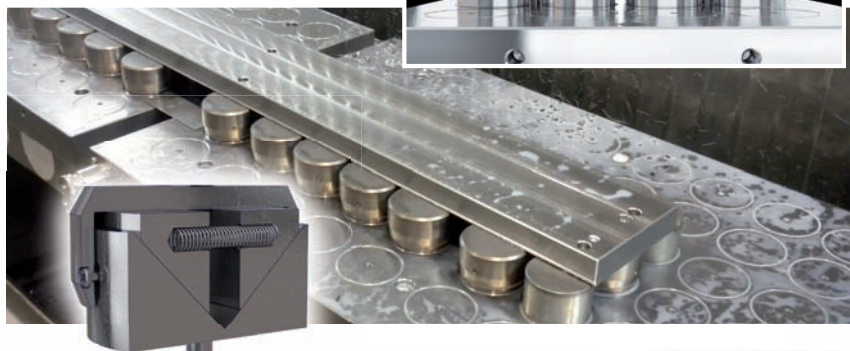
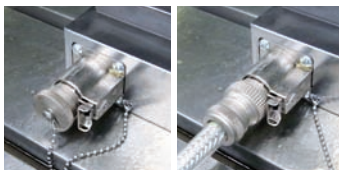
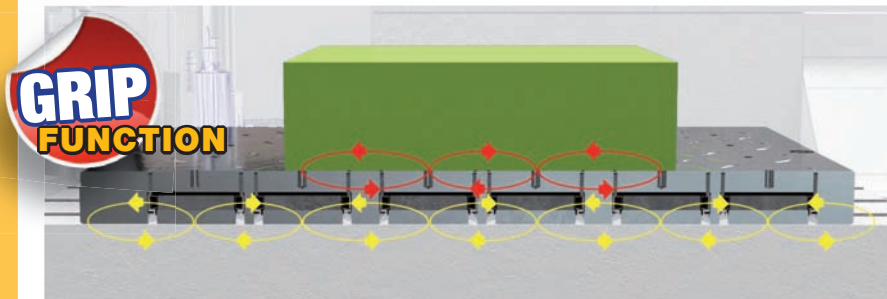
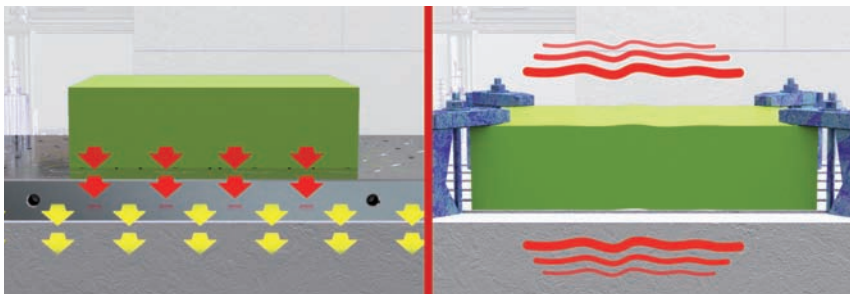
The push and pull operation allows the rapid connection of the magnetic modules with no rotation and twist of the cables.

The industry 4.0 ready controllers (TM original design)

The electronic control unit ST and XT with the cross checked detecting signals of the status makes them ready for the integration into the modern manufacturing process.



from Mag to Demag



Controller XT 200 compact version for single chucks.

Controller ST 200 for single and multiple chucks



TECNOMAGNETE®

all the magnetism of the leader

TECNOMAGNETE spa

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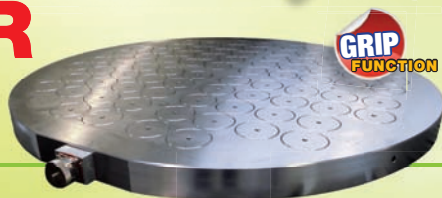
MillTec/G

With GRIP function
thickness 42mm



MillTec/R

Round version optimized
for 5-axis machines



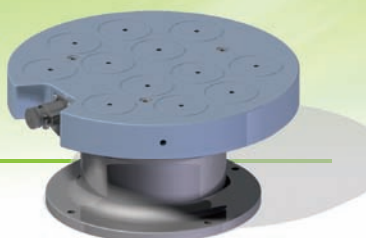
MillTec/B

Standard version
thickness 51mm



MillTecDuo

MTB with raiser
for under-edge machining



MillTecCubo

Solutions for horizontal
spindle machines



MillTecPallet

For palletized machines

