

APPLIED MONOLITHIC
TECHNOLOGY



TECNOMAGNETE®

Magnetic clamping system with Zero Point technology

MillTecZero



Modular magnetic system equipped with a precision grid, suitable for a quick and precise positioning of pre-machined parts, pallets and clamping equipment.

It comes from the synthesis between Tecnomagnete's magnetic technology and Gerardi's know-how in the production of zero point devices.

Flexible and practical, it presents a large clamping surface to adapt to workpieces of various shapes and sizes, ensuring precise alignment between piece, magnetic module and machine table.



- Permanent-electro magnetic circuit in monolithic construction with integral metallic surface
- Double-action round polar extensions for workpiece self-shimming
- Uniform clamping over the entire reference surface of the workpiece
- Precision grid in neutral areas, made by hardened bushings and plugs
- Adapters with tapered pins for zero point reference with 0.005 mm accuracy.
- Adapters and alignment turrets for the piece at same height of polar extensions
- Large flexible clamping area related on the morphology of the pieces

INTERNATIONAL
PATENTS



Made
in Italy



ZERO-POINT PERMANENT-ELECTRO MAGNETIC SYSTEM WITH INTEGRAL METALLIC SURFACE



ZTEC 09/18ENG

MillTecZero

EXCLUSIVE AND PATENTED TECHNOLOGY

The MillTec permanent-electro magnetic circuit is intrinsically safe: the magnetic force (up to 16 Kg/cm² in the polar area) is insensitive to any power supply breakdowns, allowing total autonomy in use on pallets.

The patented monolithic technology with integral poles makes MillTec modules robust, stable and long-lasting; their low weight allows to increase the load capacity of the machine, reducing inertia, consumption and wear.

The surface of the module has no inserts or resins: it is entirely made of steel. This guarantees reliability and durability, with constant performance in the absence of specific maintenance.

MillTec magnetic modules are fixed to the machine table



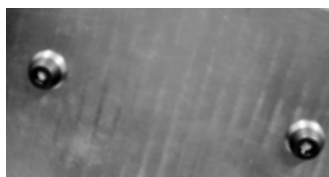
through dedicated holes and precisely aligned through side stops on the grinded shoulders or with precision pins.

QUICK AND PRECISE

The precision grid is made in the neutral area of the chuck by inserting hardened bushings. The GERARDI adapters



are designed for coupling with the precision tapered pins installed on the piece/pallet to be clamped.



The uniformity of clamping avoids any tension, compression and deformation of the pieces, ensuring the total absence of vibrations during machining operations.

MillTec Zero increases productivity, improves efficiency, reduces costs and allows a rapid return on investment, making the best contribution to all the needs of the modern 4.0 industry.

AUTOMATIC SHIMMING

The mobile RMP "double action" polar extensions (Tecnomagnete patent) are easy to position and fail-safe. They allow to realize a flexible magnetic bed, automatically adapting to the surface to be clamped and allowing the self-shimming and automatic stress release of the piece.



XT 200 CONTROL UNIT

It combines strength, lightness and compactness.

The reinforced ERGON 5 connector guarantees great reliability and easy maintenance.

The control unit is equipped with a rear hooking system for easy vertical positioning of the unit on the machine.

TOP PERFORMANCES

- Accurate positioning and easy repeatability
- No electricity consumption during processing
- Uniform clamping
- Minimized vibration
- 5 free faces in 1 setup
- Total use of machine strokes
- Rapid workpiece setup
- Automatic thickening
- Maintenance-free



XT200 Control Unit

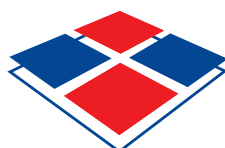


ERGON 5 Fast connector

Technical Characteristics

Model MTB***ZT	Dimensions mm	Weight kg	Poles n°	Min. thick. (mm)	Force /pole daN	Force Tons
MTB 404 ZT	400 x 400 x 51	90	9	17	615	5,8
MTB 505 ZT	500 x 500 x 51	120	16	17	615	10
MTB 606 ZT	600 x 600 x 51	155	25	17	615	16

We reserve the right to bring up any modification connected with the technological development



TECNOMAGNETE®
Leading the way in magnetism

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