

# CUBO TEC

**Permanent-electro  
magnetic tombstones  
for flexible workholding  
on horizontal  
machining centres and  
FMS systems**

**Worldwide News  
Patent Pending**



Unique characteristics of **stability, rigidity and robustness** are achieved by the solid block construction of the new line of magnetic tombstones CUBOTEC.

The compact dimensions allows an higher working daylight and the absence of any encumbrance on 5 sides of the workpiece makes the path of the tool more efficient and the machining cycle more agile.

The lightweight of CUBOTEC permits to load heavier workpieces and to optimise the handling and the machining speed with less burden for the mechanism of the machine.

The circular shaped base plate of CUBOTEC eases the fixing on any type of pallets with a uniform spread of the cutting stress.

Single or multiple workpieces get clamped ergonomically and easily by the operator outside the machining area.

The production flows will be more stream-lined with a strong impact on the productivity level.



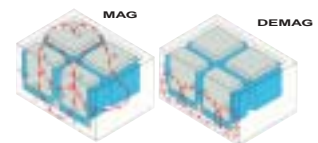
**Solid block  
structure with  
QUADSYSTEM  
SUPER-QUAD  
magnetic  
circuit built in**

## **QUADSYSTEM:**

### **COUNT THE FORCE**

The square poles of the patented QUADSYSTEM double-magnet circuit allow to obtain the highest concentration of force and a grid of flat and horizontal magnetic stickings able to safely hold any type of workpiece.

The patented "neutral crown system" leads the magnetic fluxes totally to the active surface of the chuck with a perfect insulation from any residual magnetism.



## **AN INTERNATIONAL STANDARD**

Each QUADSYSTEM square pole being of a standard dimension generates a constant and fixed force and thus is always possible to determine the clamping force in connection with the contact surface area.

## **THE FRIENDLY SAFETY**

An electro-permanent Technomagnete system doesn't overheat, doesn't deform, doesn't fear electrical breakdown because it doesn't need power supply during the working phase. Safety is thus always granted.



**TECNOMAGNETE®**  
Safety through power

# CUBO TEC

## Cost-effectiveness at third power

**CUBOTEC allows to achieve total flexibility to clamp workpieces of different shapes and sizes, even larger than the clamping area, with a single and powerful fixturing unit.**

**The full machine capacity is really exploited.**

The monoblock construction is made by machining a round solid steel block with modern FMS systems in a single set-up.

The subsequent integration of the magnetic circuit Super-Quad into the bee-hiving structure makes it possible to leave neutral zones for an easy positioning of reference pins and stops.

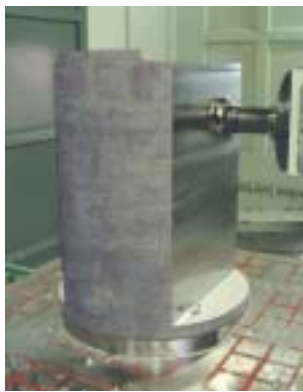
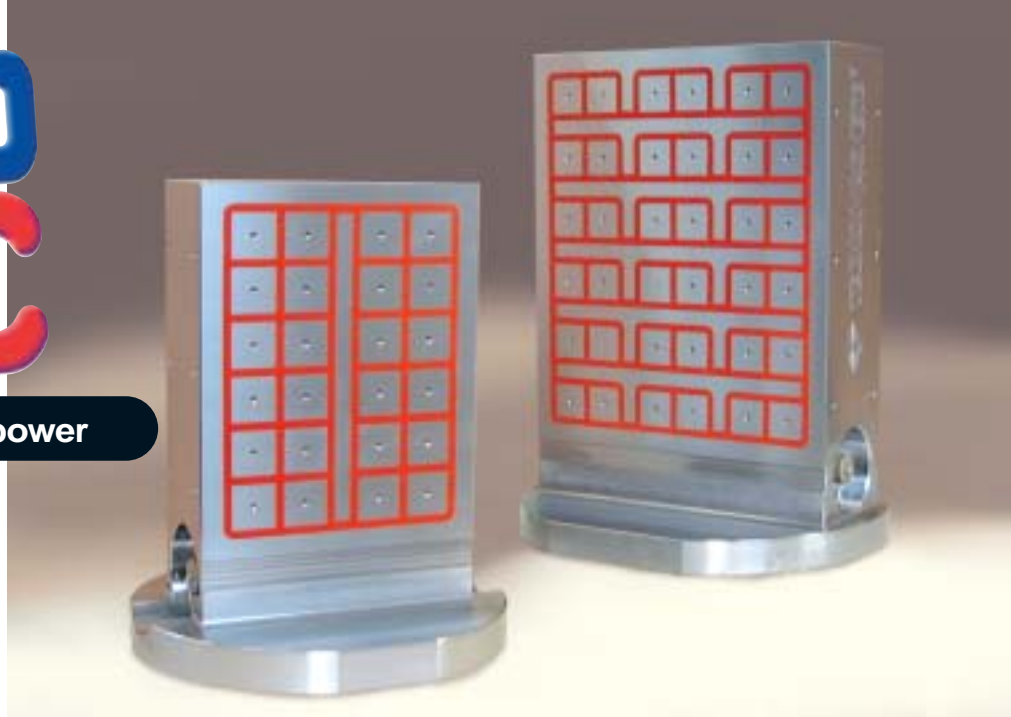
The best machining accuracies can be achieved through a perfect matching made by setting at zero the squareness and the parallelism tolerances on board with the machine itself.

### **AUTOMATIC SHIMMING**

Innovative sliding pole extensions allow to clamp and to support uniformly workpieces even with warped surfaces achieving high accuracies of planarity (up to 0.02 mm/m).

No compression or deformation is made on the workpiece and the absence of machining vibrations reduces the tools consumption and improves the finishing.

The workpiece can be conveniently set-up on a bed of fix pole extensions for contouring and through machining.

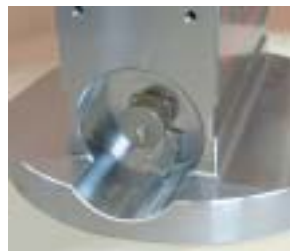


### **ELECTRONIC CONTROL**



Quick activation and deactivation cycles (MAG/DEMAG) are performed by a dedicated control unit equipped by a digital remote push-button. Advanced safety devices detect the magnetic flux and the interface with the machine.

Each CUBOTEC unit is standard equipped with a fast water-proof connector, built in a niche, for a quick connection with the electronic control unit.



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

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