

Clamping pieces in welding operations... is not a game!



with **Quad Block** it's easy.

QB is a flexible magnetic system  
for clamping complex pieces



**TECNOMAGNETE**  
La Sicurezza della Forza

# The common sense solution to clamp "unwieldy" pieces

Easy and safe

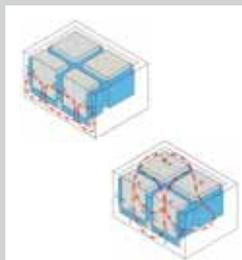


- Quad Block is designed to solve typical problems during welding operations: **hold parts in position and at the same time leave the area to be welded open.**

Clamps/Wises and other mechanical devices can solve the situation, but are not able to leave the entire area to be welded accessible; multiple set-ups are necessary to complete the weld.

- QB modules eliminate these limits: allow to hold the piece with power, directly through the piece/magnet contact surface and with 5 real accessible faces.

## Quadsystem technology



The patented circuit creates a concentrated clamping force directly into the piece to be clamped.

Permanent-electro magnets need power supply only during activation (MAG) and de-activation (DEMAG) phases; even in case of power failure or cut cables, the holding force does not change.

Permanent-electro technology provides a full and complete demagnetization: after the job is done the piece doesn't retain residual magnetism.



Less idle time



More productivity

## Modular and suitable for any piece



- QB system is composed by 4 permanent magnetic modules, independent and freely positionable to clamp pieces of any shape and size.
- Each module is supplied with 4 pole extensions; these extension can be machined and modified to better suit the piece to be welded. Also QB modules can be machined to insert reference pins/stops/reference points.
- QB is modular, i.e. can be expanded depending on your needs: is possible to join more QB systems to create denser "magnetic webs".

## Flexible and practical



- For welding operations QB module are positioned on machine table close to welded areas; it's easy to use common pins as reference for precise positioning of the modules. The extensions raise the piece from the magnetic surface, increasing the accessible area on the piece.
- QB can be fixed directly on machine bed with bolts, using the 2 fixturing holes on each module.

## Convenient: no maintenance required



- With a simple touch by the operator, standing away from the table, all the modules can be activated at the same time; in 2 seconds the piece is clamped in total safety.
- QB is convenient: the return of investment is very fast. Saving from reduced setup times, faster welding, phases and no need to replace damaged bolts/clamps. With no moving parts, QB is durable and maintenance free.

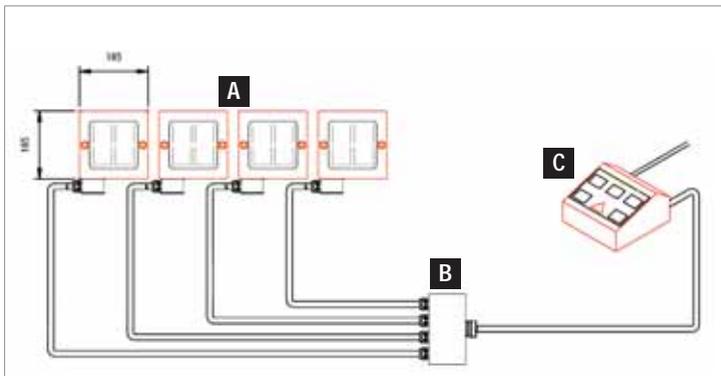


Optimizing setup phases



Increased flexibility

## Standard supply specifications



### A) Magnetic modules

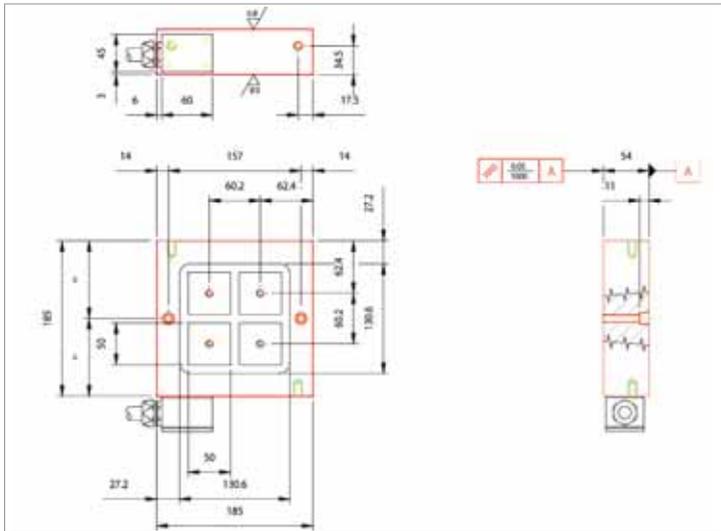
- n.4 permanent-electro magnetic modules, QB type - SQ50 /T configuration
- n.4 fixed pole extension PFR 50/32 for each module
- Fixing holes (n.2) on each module

### B) Junction box

- 1 junction box with water-proof fast connector to the controller
- n.4 wiring junction box-modules PVC cables with flexible zinc plated steel conduit (3m each)
- fixed connections

### C) Control unit

- Electronic control unit type ST100F 220V with UCS current detecting system and built-in digital push-button for MAG/DEMAG cycles
- Wiring junction box-controller PVC cable with flexible zinc plated steel conduit (3m)
- Power supply cable 2 m length (without connector)



## Technical characteristics

### Control unit

dimensions	135x135x75 mm
voltage	200-230V
assorbimento max	3KVA
weight	0,4 kg

### Polar extensions

fixed extension	diam. 50x32 mm
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