

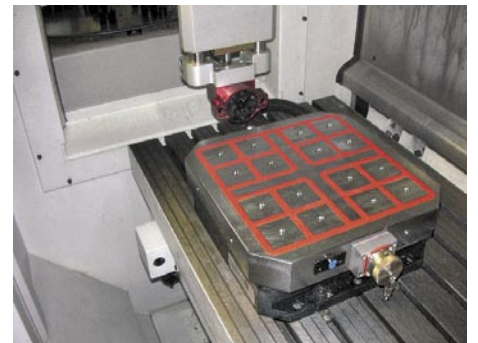
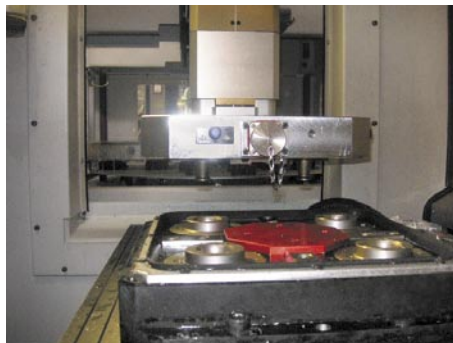
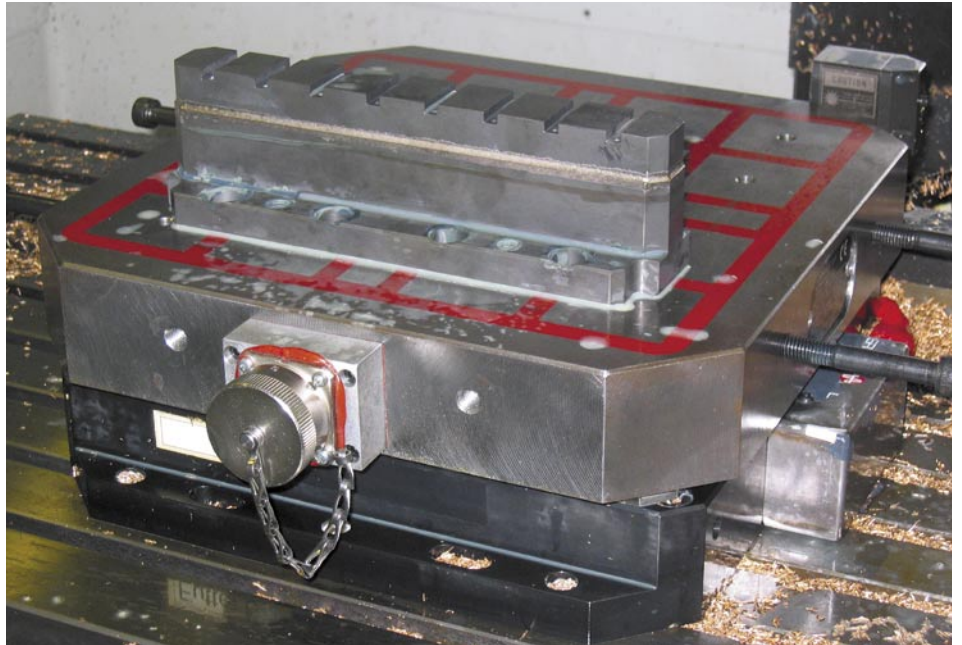
# PalMAG

Permanent electro magnetic pallets for "zero point" clamping systems.

PalMAG pallets utilize the permanent electro technology **Quadsystem patent**, able to generate a **great and concentrated holding force** generated by the high energy permanent magnets utilized into the magnetic circuit.

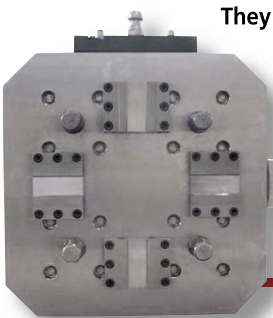
*The electric power is used only for the activation and deactivation of the system and no electric connection is required during the working session.*

The magnetic work holding makes it possible to **machine completely the five sides of the work piece** in just one set up, to obtain a **perfect uniformity and clamping stability** with less vibrations during the machining, better finishing, lower consumption of the tools and longer machine tool life.

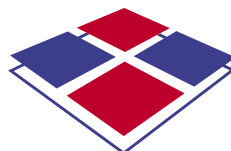
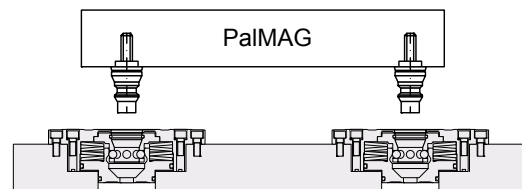


The entire surface of the pallet can be used for the work holding and sometimes for parts even bigger than the pallet itself maximizing the machining capability. Work pieces of different shape and size can be easily secured with high flexibility.

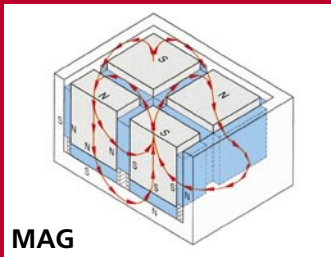
PalMAG pallet can be designed for manual or automatic "pallet change" in different size and configurations to match the specific applications and requirements.



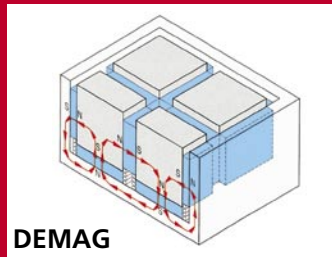
They can be adapted to any other system "Zero Point" available on the market. The solid steel block frame can be prearranged to house, underneath the pallet, the necessary coupling elements and match any different "Zero Point" systems. The best conditions of mechanical stability, structural strength and reliability are granted over the time.



**TECNOMAGNETE®**  
Safety Through Power



**MAG**

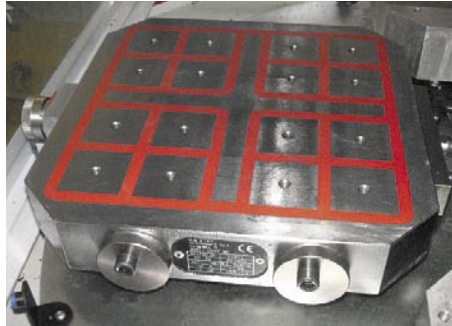


**DEMAG**

**PalMAG pallet with Quadsystem Technology**

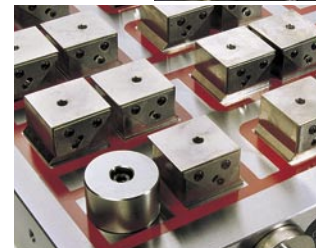
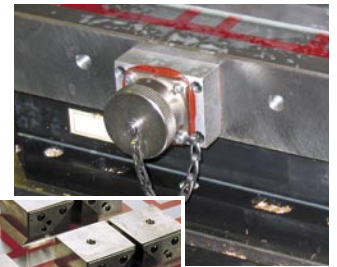
The technology of the magnetic circuit permanent electro with "double reversible" magnet Quadsystem, through the square pole geometry "chess board" generates a **constant and uniform holding force** without any magnetic dispersion. The electronic control unit utilizes the power supply only during the activation (MAG) and deactivation (DEMAG) cycles of the system.

The control unit **ST100** (220V) makes the **MAG/DEMAG** cycles in a fraction of seconds.



PalMAG pallets are equipped with **2 eccentric removable stops** on each side to align the work piece.

A water-proof fast connector makes possible to disconnect the cable discharge for the free movement of the pallet.

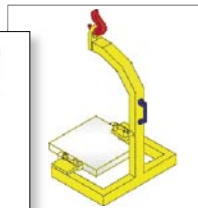
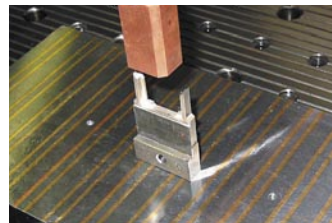


PalMAG pallets - besides the square pole SQ milling model - are also available in versions:

- PalMAG / QG type with square pole for grinding and with self-shimming.
- PalMAG / FP type with fine parallel pole pitch for grinding and EDM.

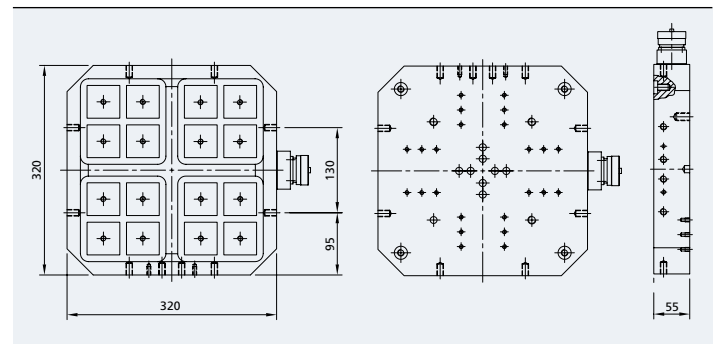
The square pole version can be equipped with a set of moving pole extensions for the **automatic shimming** of the work piece.

Proper washing channels are available for applications on die sinking machines.



For the horizontal loading the pallets PalMAG can be easily handled by simple manual mechanical devices. Dedicated pre-arrangement will be provided on the PalMAG pallets for interfacing with automatic loading.

**PM 3232/SQ - Dimensions**



**PM 3232/SQ - Technical features**

Size of the poles	50x50 mm
Holding force	350 DaN per pole
n. poles	16
Total holding force	5600 DaN
Short circuiting magnetic depth	20 mm
Thickness	55 mm
Weight	kg 45

We reserve the right to make changes connected with engineering progress.

Head office:  
**TECNOMAGNETE spa**  
 Via Nerviano 31 - 20020 Lainate (MI) Italia  
 Tel. +39-02.937.591, Fax +39-02.935.708.57  
 e-mail: info@tecnomagnete.it

[www.tecnomagnete.com](http://www.tecnomagnete.com)



**TECNOMAGNETE®**  
 Safety Through Power

Subsidiaries:  
 France: TECNOMAGNETE S.A.R.L.  
 Germany: TECNOMAGNETE GmbH  
 Japan: TECNOMAGNETE Ltd  
 P.R. China: TECNOMAGNETE R.O.  
 Singapore: TECNOMAGNETE R.O.  
 Sweden: TECNOMAGNETE AB  
 USA: TECNOMAGNETE Inc.

PalMAG-ING-31/09/05