



A quick die clamping system changes the entire production

process allowing for lean production and small batches. Quad Stamp is in the heart of this change with no hidden time to fix clamps, make adjustments or test between 2 production batches.

Made up of 2 magnetic modules, it's easy to install, and integrate into the existing machine and controls.

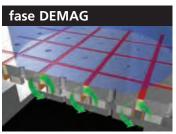






The Quadsystem, a safe and reliable magnetic circuit, was born from an ingenious idea in 1974. First used on machine tools, then material handling ferrous loads,

fase MAG



and to clamp molds in IMMs. The same, practical technology is used in metal stamping presses.



The patented double magnet circuit
Quadsystem is composed of square poles machined into a solid block of steel. Each pole generates a constant, uniform and predefined force regardless of who turns the system on. This force is proportional to the number of poles in contact with the die surface

Quad Stamp does not

magnetize the entire die, the magnetic flux penetrates the die only 0.78" deep. The die face and part cannot become magnetized, allowing for scrap removal, and proper die operation without interference. In a few seconds with the simple pressing of a button, it is possible to clamp or unclamp the die in complete safety. Even during a power failure, the system remains operative, with constant clamping force.





STAMP is in b

is easy to install: using bolts to mount

magnetic plates to existing T-slots or tapped holes.

Its modularity allows adaptability for any need.

No modifications to the press are required. Quad Stamp is made to fit your press.

The new reduced thickness of the modules allows to save daylight. Bigger dies can be used in smaller presses.



One operator, with no tools, can operate all the die-clamping easily and in total safety, while staying outside the press.

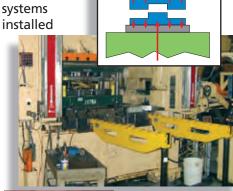
Load the die, close the press and press the button for the upper, then the lower.

Smart control It is only possible to demagnetize the upper when press is at BDC (150-210 degrees)



The Quadsystem technology is not affected by electrical breakdowns; the die will stay in position even without power supply, with the same strength indefinitely. This uniform clamping force allows repeatability and constant quality of the stamping process by eliminating any flexing of die shoe.

The system is "error-proof": all the safety systems installed





supervise all the operations and in case of failure stop the press.

- UCS current saturation control device

- FCS system for magnetic flux detection
- Proximity sensors to check die presence and its correct positioning on magnet





Easily adaptable on all presses

The fastest die setup

H&C

DIE SUPPLY, INC

High clamping force, always available

# **Completely customizable**

## No die modifications



\*\* 1500

Reference pins can be added to speed-up the positioning of the die.

The lower magnet can have a through hole for scrap removal.

The TS ("T-Slot") version is standard equipped with 2 T-Slots on lower module, to insert lifters.



The UR ("U-Rail") version is made in separate parts, for free and flexible positioning on the machine platen to insert "U channel lifters" of different sizes.

Magnets can be made of different thickness to accommodate shut height issues

Quad Stamp s suitable for any die of any shape and size, without modification.

Die standardization is not necessary, saving engineering time and overall cost. Quad Stamp control interface is small and installs easily The system uses several safety devices to avoid accidental mag or de-mag:

- The buttons must be activated simultaneously (SAFE function).
- The interlock key to prevent mag/demag by unauthorized personnel.
- Bottom dead center channel enable.





If the die is not magnetic or when the contact surface die/magnet is too small, the die can be equipped with a common steel backplate



Adaptable to a range of die sizes at no cost



On request Quad Stamp is supplied with IPC interactive power control push-button. Through a touch-screen it is possible to control all the system functions and display the actual force generated by the magnet on each different die.

Made to Order

User friendly

# Technical characteristics

Quad Stamp is available in 2 versions, QS50 and QS80. QS50 is designed for presses with closing force up to 299T, when QS80 is suitable for bigger dimensions which have no limit and have been used on 8000 ton presses.

The clamping forces generated by the systems are around 10% of the closing force of the

machine; this allows an unbeatable operative safety margin. With Quad Stamp is easy to achieve the maximum efficiency and a fast return on investment.

Tecnomagnete's commercial network and our experience are at your disposal for any comparison in terms of convenience and efficiency.

> H&O DIE SUPPLY, INC

Model

	QS50 TS	QS50 UR	QS80 TS	QS80 UR
Pole dimension	1.96"x1.96"	1.96"x1.96"	3.14"x3.14"	3.14"x3.14"
Force/pole	815 lbs	815 lbs	2200 lbs	2200 lbs
Upper module thickness	1.38"	1.38"	2.12"	2.12"
Lower module thickness	2.12"	1.38"	2.51"	2.12"
2 T-slots on lower module	standard	-	standard	-
Central hole for scrap removal on lower module	standard	standard	standard	standard
Clamping holes	standard	standard	standard	standard
Control Unit type	ST100P	ST100P	ST400	ST400
UCS saturation control system	standard	standard	standard	standard
Voltage	220V / 50-60 Hz	220V / 50-60 Hz	200-480V / 50-60 Hz	200-480V / 50-60 Hz
FCS flux detection system	-	-	standard	standard
Digital push-button for MAG/DEMAG cycles	built-in	built-in	remote	remote
Machine enable	standard	standard	standard	standard
IPC - touch screen control	-	-	on request	on request
Additional enable key DCM (Die Change Mode)	standard	standard	standard	standard
Control unit-modules connection,				
interface and power supply cables	standard	standard	standard	standard
Proximity sensors (1 each module)	standard	standard	standard	standard
Set of fixing bolts	standard	standard	standard	standard
Instruction book and CE certification	standard	standard	standard	standard

