A quick die clamping system changes the entire production process, allowing for lean production and small batches. StampTEC is at the heart of this change with no hidden time for fixing clamps, making adjustments or conducting tests between 2 production batches.
**Easily adaptable on all presses**

Consisting of 2 magnetic modules, it’s easy to install and integrate into the existing machine and controls. Its modularity allows adaptability for any need. No modification to the press is required.

StampTEC is made to fit your press. The new 37mm reduced thickness of the modules enables the full working height to be utilized. Bigger dies can be used in smaller presses.

**User friendly**

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

**Uniform clamping**

The uniform clamping force allows repeatability and constant quality of the stamping process by eliminating any flexing of die shoe.

**No die modifications**

StampTEC is suitable for dies of any shape and size, with no modification. Die standardization is unnecessary: reduced engineering time and overall costs. If the die is not magnetic or when the die/magnet contact surface is too small, the die can be equipped with a common steel backplate. The die face and part are not magnetized, allowing scrap removal without interference.
**Exclusive technology**

Initially applied on machine tools, then for the handling of ferrous loads and to clamp molds in IMMs, the Quadsystem technology is now available for metal stamping presses.

The patented Quadsystem double magnet circuit is composed of poles in a chessboard configuration machined into a solid block of steel. Each pole generates a constant, uniform and predefined force proportional to the number of poles in contact with the die surface.

The Quadsystem technology is not affected by electrical breakdowns; even without a power supply, the dies stay in position with the same strength indefinitely. Even during a power failure, the system remains operative with constant clamping force.

**An impenetrable shield**

The Quadsystem MONOLITE technology allows the creation of magnetic modules with a full-metallic clamping surface, without any sealing resin or any filling part. This surface acts as a mechanical shield which is impossible to penetrate, enabling maximum durability without maintenance.

**GRIP Function**

The Grip function allows the self clamping of the system to the machine platens. The innovative magnetic circuit generates a powerful clamping force toward the die and the machine platens thus allowing to exploit the full machine performances. Die, magnetic system and machine platens become a single block, magnetically clamped, with absolute rigidity, avoiding any vibration and deflections of the die thus granting higher precision and quality.

**Completely customizable**

Reference pins can be added to speed-up the positioning of the die. The lower magnet can be provided with a through hole for scrap removal. The system is prearranged for “U” slots for the insertion of rollers on the machine platen. StampTEC can match the T-slots of the machine table.
“Error-proof” system

The ST400 control unit is designed according to the EMC (Electro Magnetic Compatibility) norms; it monitors all operations and in case of failure stops the press.

Several safety devices are designed for the avoidance of accidental MAG or DEMAG:
- Buttons must be activated simultaneously (SAFE function).
- Interlock key to prevent MAG / DEMAG by unauthorized personnel.
- Bottom dead center channel enable
- UCS current detecting system
- FCS system for magnetic flux detection
- Proximity sensors to check die presence and its correct positioning on magnet.

With StampTEC it’s easy to achieve 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.

Technical data - STG StampTec GRIP

- Magnetic force on polar area: up to 16 kg/cm²
- Magnetic force on die contact area: up to 90 tons/m²
- Upper module thickness: 37 mm (ST: 46mm)
- Lower module thickness: 37 mm (ST: 46mm)
- "U" roller prearrangement on lower module: standard
- Central hole for scrap removal on lower module: standard
- Clamping holes: standard
- Electronic control Unit type: ST400
- UCS current detecting system: standard
- Voltage: 200-480V / 50-60 Hz
- FCS flux detection system: standard
- Digital pushbutton for MAG/DEMAG cycles: remote
- Machine enable: standard
- IPC - touch screen control with force reading system: standard
- Additional enable key DCM (Die Change Mode): on request
- Control unit-modules connection, interface and power supply cables: standard
- Proximity sensors (1 for each module): standard
- Set of fixing bolts: standard
- Instruction manual and CE certification: standard

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