

HAR-1 AUTOMATIC HYDRAULIC COIL FORMING MACHINE



Highly versatile machine specifically built for the automatic forming of a wide range of coils, with maximum length up to 3500 mm. Thanks to its hydraulic cylinders, this machine proves to be highly powerful and suitable for the mass production of various kinds of big-size coils.

Main features

The coil forming operation is carried out by means of 24 PLC- controlled proportional hydraulic cylinders equipped with encoders and potentiometers for the most precise detection of the forming parameters.

It guarantees high-precision forming: the processed coils are perfectly shaped and ready to be mounted.

- The positioning of the coil supports will be carried out automatically according to the parameters set up on the operator panel
- All moving components are equipped with steel slide and heavy duty bearings. This gives very precise movements and ensures a long working lifetime.
- Jaws for coil-holding are coated to prevent insulation damage
- In order to guarantee the operator's safety, the machine is equipped with fixed and optical barriers.
- Easy to use, it has an extremely intuitive operator interface. After just a couple of hours of training, any operator is able to produce top-quality and consistent results.
- The machine guarantees an optimal quality-price ratio, by producing high-quality coils at a very low price.

Active coil holding jaws



Equipped with hydraulic cylinders for retaining the copper bar with the possibility of varying the locking position depending on the section of the coil that has to be formed.

The jaws are positioned supports which are automatically positioned by the PLC

Control and programming



The control panel is composed of: push-button panel, latest generation CPU.

The HMI (Human Machine Interface), for the programming and set up of all forming parameters is equipped with touch screen operator panel connected to the main control panel

Specification	HAR-1
Loop length	380-3560mm
Slot length	238-3250mm
Coil cross section	Min. 10 x 10mm Max. 30 x 60mm
Lift	Max. 400mm (for trapezoidal coils max. 180mm)
Spread	Max. 1000mm
Side angle	0°- 90° for each side
Evolute angle	0° - 30°
Evolute diameter	Min. 16mm Max. 25mm
Dimensions	5800 x 2500 x 1800mm 2,500kg
Supply	400V 3 phase + E +N (others on request)