

# HAR-1 Hydraulic Coil Spreading Machine

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<http://www.whitelegg.com/products/electric-motor/electric-motor-rewind-and-repair/har-1-hydraulic-coil-spreading-machine>

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**The HAR-1 Automatic coil spreading machine is really unique thanks to a perfect combination of technological sophistication, versatility and highly competitive pricing**

The HAR-1 has been designed for:

- Improving productivity
- Reducing production time and costs
- Allowing a quick component changeover
- Simplifying the machine maintenance



HAR-1 is a highly versatile machine specifically built for the automatic forming of a wide range of coils, with maximum length up to 3500 mm.

## Technical specifications

- Loop Length (L) min. 380mm – max. 3560mm
- Slot Length (L1) min. 280mm – max. 3250mm
- Coil section (C x B) min. 10 x 10mm - max. 30 x 60mm
- Spread (H) min. 0 – max. 1000mm
- Lift (H1) min. 0 – max. 400mm (for trapezoid coils 180mm)
- Active side angle (A°) min. 0° - max. 90° for each side
- Evolute angle (a°) min. 0° - max. 30°
- Evolute diameter (r) min. 16mm – max. 25 mm
- Very high precision machine

- Extremely strong mechanics powered by proportional hydraulic valves
- Very easy to set up and use

### Active side grippers/eyes:

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.

### Coil Forming:

The machine is equipped with 4 proportional hydraulic cylinders for coil forming, with manually adjustable supports (during the set up).

### Movements:

The movements that determine coils' form are characterized by proportional cylinders equipped with encoders/potentiometers for optimal positioning

The positioning will be carried out automatically according to the data entered into the control panel.

All moving components are equipped with linear steel guides, for a highly precise and repeatable positioning and for the best final outcome.

### Safety:

In order to guarantee the operator's safety, the machine is equipped with stop devices, security buttons, fixed barriers on the perimeter and optical fiber barriers on the machine's access.

### Control panel and programming:



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

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



