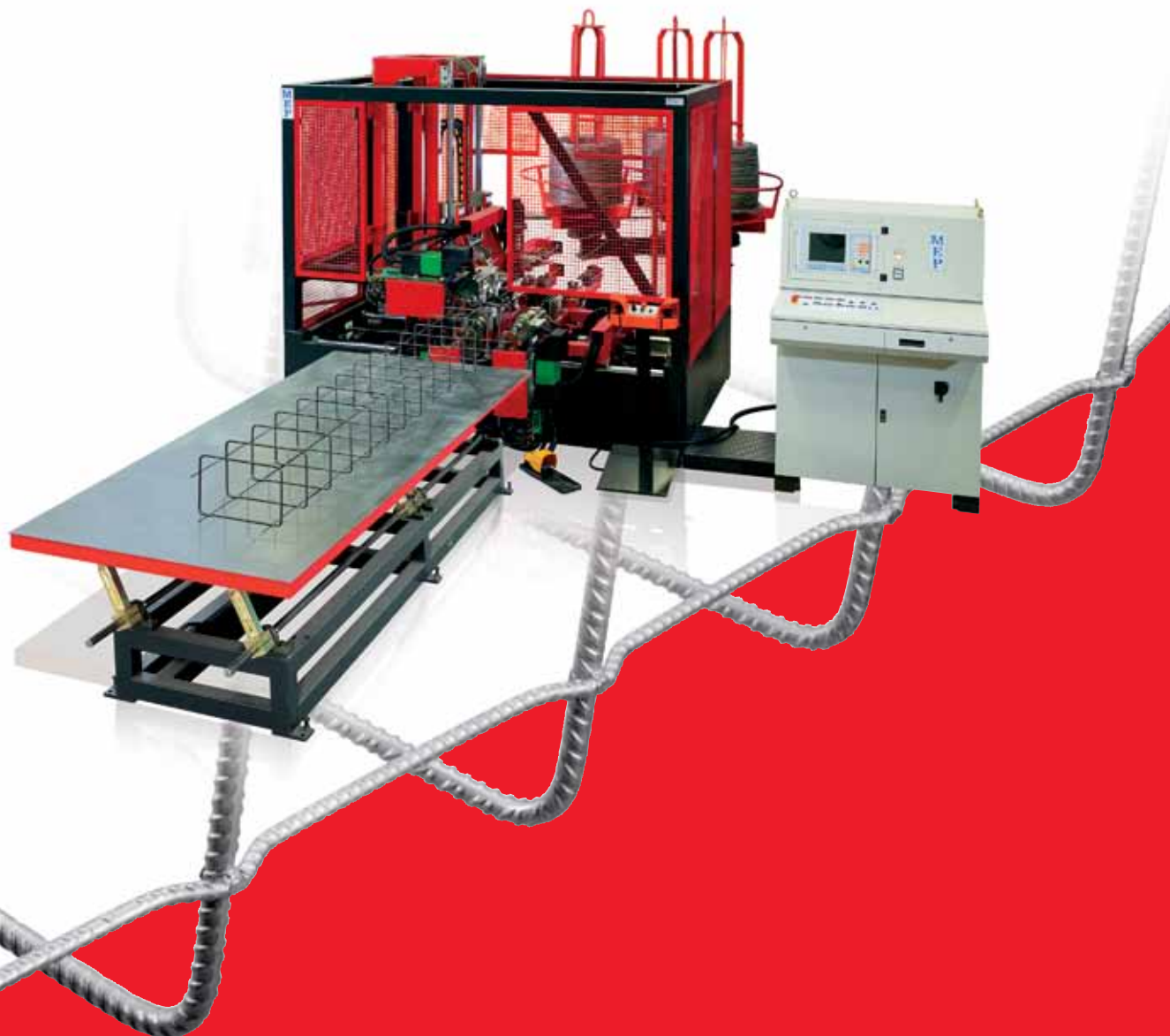




Pre-cage assembling machine

# Preform

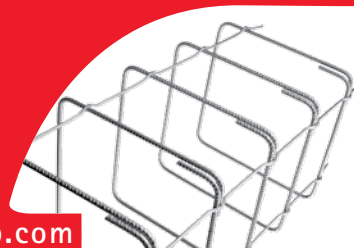
*Pre-cage assembling machine*



**MEP**  
the history of innovation



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# Preform

## UNIVERSAL ASSEMBLY MACHINE

**PREFORM** is the universal pre-cage machine able to weld automatically stirrups with two or three longitudinal wires. **Pre-cages** of many different configurations and dimensions are produced **reducing the final assembly times** and improving the quality of the finished product installed at construction site.



## EFFICIENCY SAVES COSTS

**PREFORM** allows to **automate the production process** saving the **costs** connected to the use of more than one **operator**. Its compact configuration allows to **optimize production areas** in relation to the length of the pre-cage to be produced.



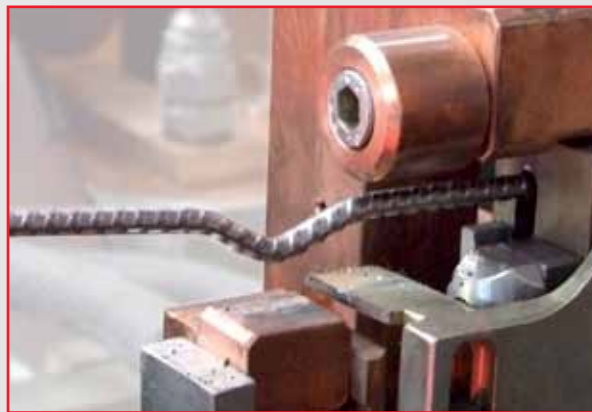
At the cutting edge  
of solutions

### ALL ROUND MOBILITY



The **lateral positioning** of the stirrups on the welding heads allows a **simple, fast and safe** loading. The three welding heads allow the maximum freedom in positioning the electrodes, between stirrups and longitudinal wires. It is possible to use **stirrups of different diameter wire**, arranged automatically with **fix or variable pitch**.

### AN INGENIOUS SOLUTION



The "V" shape of the **longitudinal wires** (patented system) allow to keep them **inside the stirrup structure**. The obtained **pre-cage** therefore **complies with the designed standards** and is much more **rigid**, then the following handling will not deform the structure.

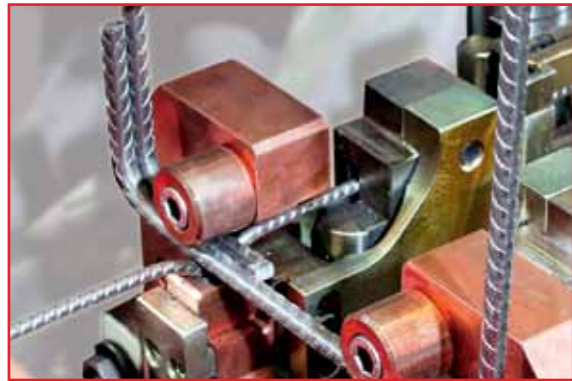
### WELDING UNDER CONTROL

The usage of this welding technology, applied on equipment for electrowelded mesh (controlled current profiles) **prevents alterations of the mechanical characteristics of steel**, guaranteeing a **reduced power consumption**.

Each single welding head can be independently set up in relation to diameters, hook position and welding sequence.



## CUT THE WASTE



The cutting units (patented system) allow cut to length the longitudinal wires, **eliminating manual operations and the relative waste.**

## REDUCED SET UP TIMES



The sustaining longitudinal wires are **straightened and driven** by groups of independent **rollers**, guaranteeing a **continuous cycle** and **eliminating downtime** between a cage and the other.

## WORLD SYSTEM: TOTAL CONTROL



- **MEP Industrial P.L.C. operator control panel is comprised of:**
  - LCD Touch Screen for the user friendly graphical visualization of all data.
  - Compact ("embedded") microcontroller with low power consumption.
  - Input /Output and control axes electronic card with protection against short circuit and overload.
- **The custom software developed by MEP allows:**
  - Data input with graphic visualization of programmed and pre-memorized cages.
  - Memorization of 200 positions.
  - Control of all parameters of the machinery with the possibility of selecting two different welding programs for each head.
  - Possibility of excluding one or more heads during the process.
  - Saving and archiving of data relative to work cycles and generation of daily production statistics (number of welded brackets and metres of cages produced).
  - "Active diagnostic" system for a constant efficiency check of all machine devices.

## ACCESSORIES



- **Clamps:** the "V" shape device is available on the Preform C model. (OPTIONAL)



- Set up for the connection of an **optical reader** (e.g. for a bi-dimensional bar code) through RS 232.



- **Triple decoiler.** (OPTIONAL)



- Adjustable **modular support table**, in order to facilitate the production of all the cages, allowing a higher production flexibility.

## TECHNICAL AND PRODUCTION CHARACTERISTICS

		PREFORM C	PREFORM C 8
	<b>WORKABLE DIAMETRES</b>	from Ø 4 to Ø 16 mm	
	stirrups	from # 2 to # 5	
	longitudinal wire	from Ø 4 to Ø 6 mm	from Ø 4 to Ø 8 mm
fy = 600 N/mm <sup>2</sup> - ft = 700 N/mm <sup>2</sup> (other loads upon request)		from # 2 to # 2	from # 2 to # 2
<b>PRE-CAGE DIMENSIONS (internal)</b>			
	rectangular stirrups	minimum side	150 x 150 mm - 6"x 6" (other measures upon request)
	triangular stirrups	minimum side	200 mm - 8" (with 3 longitudinal wires) 150 mm - 6" (with 2 longitudinal wires)
	circular stirrups	minimum diameter	200 mm - 8" (with 3 longitudinal wires) 150 mm - 6" (with 2 longitudinal wires)
		maximum diameter	1300 mm - 4-3"
<b>PROGRAMMABLE PITCH BETWEEN TWO PITCHES</b>			
		minimum	50 mm - 2"
		maximum	500 mm - 20"
<b>LENGTH OF THE LIFTER</b>			
		standard (other dimensions upon request)	4000 mm - 13'1"
<b>INSTALLED POWER</b>			
		absorbed peak power	35 kVA - 46.9 hp
		medium consumption	5,5 kVA - 6 hp

THE PLANT DOES NOT REQUIRE COMPRESSED AIR.

fy: max. unit yield point - ft: max. tensile strength

Note: #2 = 1/4" = w4 ; #5 = 5/8"

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