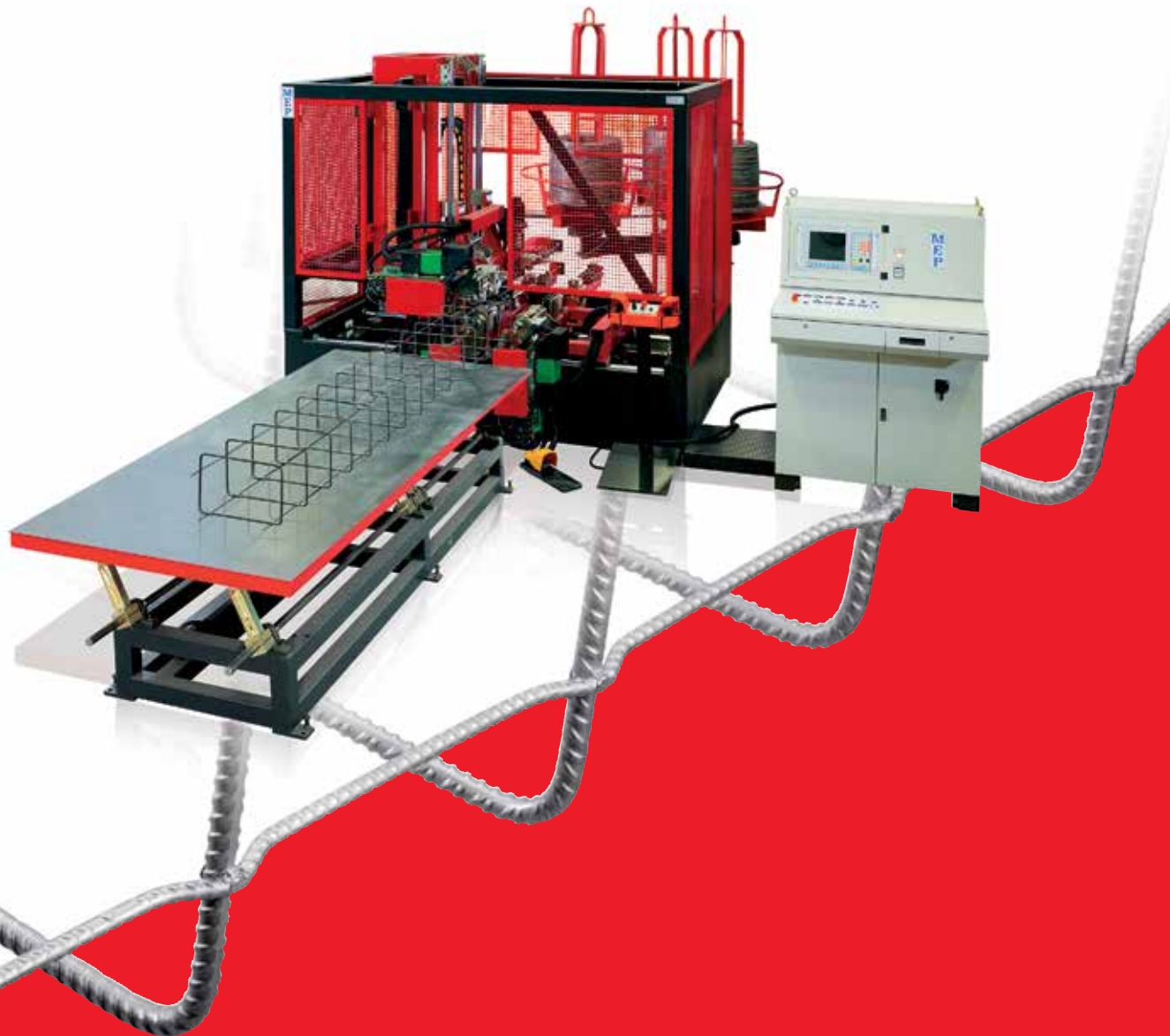




Pre-cage assembling machine

Preform

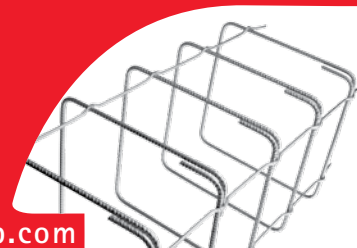
Pre-cage assembling machine



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Preform

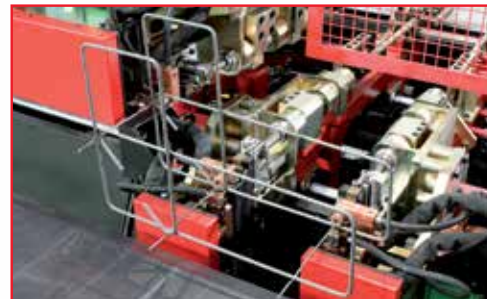
UNIVERSAL ASSEMBLY MACHINE

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.



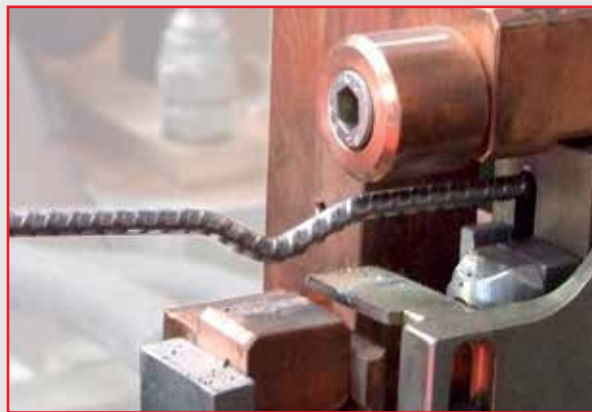
At the cutting edge
of solutions

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.

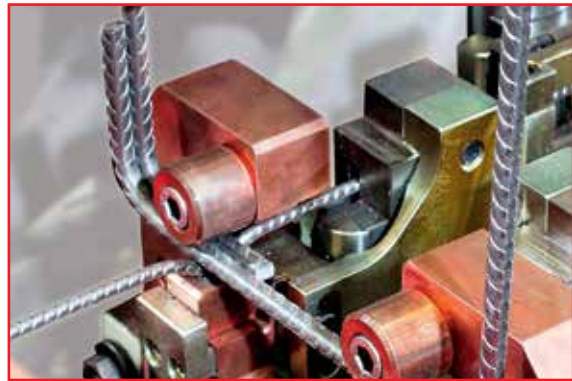
WELDING UNDER CONTROL

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 |
|--|--|---------------------|--|
| | WORKABLE DIAMETRES | 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 ² - ft = 700 N/mm ² (other loads upon request) | | from # 2 to # 2 | from # 2 to # 2 |
| PRE-CAGE DIMENSIONS (internal) | | | |
| | 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" |
| PROGRAMMABLE PITCH BETWEEN TWO PITCHES | | | |
| | minimum | 50 mm - 2" | |
| | maximum | 500 mm - 20" | |
| LENGTH OF THE LIFTER | | | |
| | standard (other dimensions upon request) | 4000 mm - 13'1" | |
| INSTALLED POWER | | | |
| | 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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