Pre-cage assembling machine

Preform

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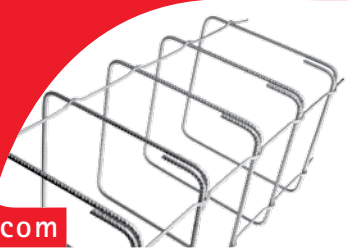
MEP

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.

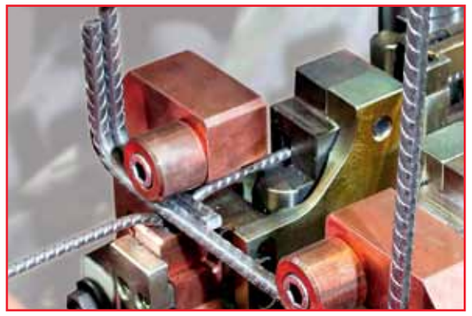
AN INGENIOUS SOLUTION

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

	WORKABLE DIAMETRES	**PREFORM C**	**PREFORM C 8**
	stirrups	from Ø 4 to Ø 16 mm	
		from # 2 to # 5	
	longitudinal wire	from Ø 4 to Ø 6 mm	from Ø 4 to Ø 8 mm
		from # 2 to # 2	from # 2 to # 2
	fy = 600 N/mm² - ft = 700 N/mm² (other loads upon request)		
	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)	
	circular stirrups — 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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