



Stirrup bending machine

# Focus 14-16

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# MEP

the history of innovation



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## A NEW GENERATION

The **FOCUS 14-16** are the ideal solution in the field of automatic coil stirrup benders for its ease of use and high performance.

**Flexibility, productivity** and product **quality** are always guaranteed.



## FLEXIBILITY

Small or large **stirrups**, **straightened** or **bent bars**, as well as **circles** and **spirals** are fabricated thanks to a complete array of accessories, able to satisfy the widest range of productive requirements.





## QUALITY AND PRODUCTIVITY

The **FOCUS 14-16** are a user friendly automatic stirrup bender that provides superior quality of finished products.

The combined action of an exclusive series of patented devices minimizes the time for setup adjustments and reduces drastically the amount of discarded products.

A drive and control system, based on the latest generation technology, grants to reach unparalleled levels of productivity per hour.



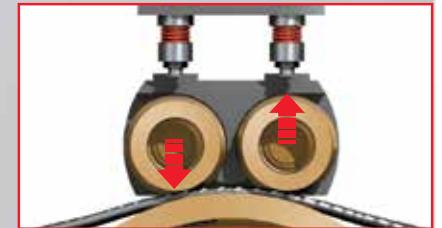
The twisting of the wire during the pulling phase creates open stirrups.

patented

## AN INNOVATIVE SOLUTION

The **AFS** is a straightening system that eliminates the effect of the wire rotation on its own axis. Therefore, closed stirrups and straight bars can always be produced. The independent control of the traction on two wires, as well as the increased surface of contact with the large infeed wheel, eliminates any difference in length between the two wires.

Thanks to this design and to the consequent lower pressure applied on the steel material, the coil ribs are far less deformed by the straightening process. The lifetime of the infeed roller themselves is about 8 times longer than in case of traditional straightening methods.

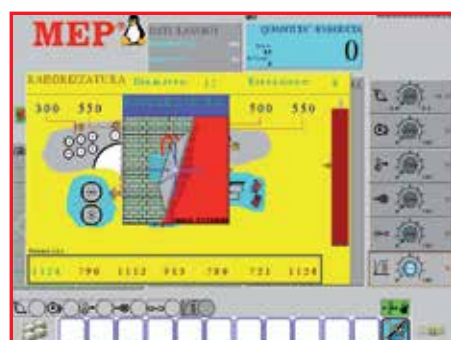


± 1 mm



## CONTROLLED STRAIGHTENING

The combined functions of the **AFS** system and the dynamic visualization of infeed rollers, allows a simple management of two wires single straightening.





## SAFETY AND ERGONOMICS



With the **AFS** system it is **always** granted to obtain **closed stirrups**, thus **eliminating** the typical and dangerous **manual operation** during the bending process by operator.

## WORLD SYSTEM: TOTAL CONTROL



- **MEP Industrial PC "World System" operator control panel is comprised of:**
  - LCD "Touch Screen" for the user friendly graphical visualization of all data.
  - Compact, "embedded" microprocessor with low power consumption and a compact flash disk with no moving parts (diskless).
  - Linux operating system.
  - Automatic backup saving system in case of accidental power interruption for safeguarding files and memory support integrity.
- **The custom software developed by MEP allows:**
  - Data input with graphic visualization of programmed and pre-memorized shapes with feasibility checks via a "dynamic simulation".
  - Control of all speed parameters in execution via a potentiometer.
  - Saving and archiving of data relative to work cycles and generation of daily production statistics (positions, diameters, times, weights, etc.).
  - "Active diagnostic" system for a constant efficiency check of all machine devices.
  - Automatic activation of the scheduled maintenance program.
  - Interface compatible with optical bar code reader through RS 232 port.
  - USB connection port
  - Possible to connect to Company Network through RJ45 Ethernet port (LAN port) or RS 232 port.
  - VPN Connection-ready for remote assistance via Internet (through Company Network).

## QUALITY DECOILING



- **Decoilers** equipped with an automatic braking system monitored by the control panel according to the work cycle.



- **Spacer** for the use of spooled or rewound coils. (OPTIONAL)

## ACCESSORIES



- **Motorized pre-feeding roller, for the insertion of the wires.**



- **Winch equipped with clamping device for the wire end to be pulled.** (OPTIONAL)





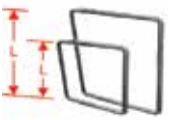







- **Supporting and collecting unit** for the production of straight bars and bars bent at one end. (OPTIONAL)



- **Bender supplied with central bending tools in compliance to the international standards.**  
Exclusive MEP design, designed to facilitate the overlapping and the guiding of the external wire with respect to the internal one during the bending phase. This means that complex or even very small stirrup can be realized with two wires simultaneously.

## TECHNICAL AND PRODUCTION CHARACTERISTICS

		
	FOCUS 14	FOCUS 16
	<b>SINGLE STRAND PROCESSING WIRE DIAMETER</b>	
	cold drawn, hot rolled, smooth or ribbed wire fy = 600 N/mm <sup>2</sup> - ft = 700 N/mm <sup>2</sup> (other loads upon request)	
	<b>DOUBLE STRAND PROCESSING WIRE DIAMETER</b>	
	cold drawn, hot rolled, smooth or ribbed wire fy = 600 N/mm <sup>2</sup> - ft = 700 N/mm <sup>2</sup> (other loads upon request)	
	<b>SQUARE STIRRUP DIMENSIONS</b>	
	minimum with Ø 4-6 mm wire (optional bending pin)	
	60 mm x 60 mm - 2 1/2" x 2 1/2" (Ø 6)	
	<b>LENGTH OF STRAIGHTENED AND CUT-TO-LENGTH BAR</b>	
	minimum	
	5 mm - 3/16"	
	<b>CENTRE FORMING TOOLS DIAMETER</b>	
	minimum	
	12 mm - 1/2"	
	<b>MAXIMUM DISTANCE BETWEEN CENTRAL BENDING PIN AND THE GROUND</b>	
	standard	
	1300 mm - 4-3"	
	<b>OPERATING TEMPERATURE</b>	
	standard	
	-5° C / +40° C - 23° F / 104° F	
	<b>INSTALLED POWER</b>	
	maximum (other sizes upon request)	
	35 kW 46.6 hp	35 kW 46.6 hp

THE PLANT DOES NOT REQUIRE COMPRESSED AIR.

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

Note: #2 = 1/4" ; #3 = 3/8" ; #4 = 1/2"

**MEP**

**MEP Macchine Elettroniche Piegatrici**  
via Leonardo Da Vinci, 20  
I - 33010 Reana del Roiale (UD) - ITALY  
Tel. +39 0432 851455  
Fax +39 0432 880140

**MEP**  
**ASIA**

**MEP Asia Co., Ltd.**  
1303 Ho, 301-Dong, Bucheon Techno Park  
345 Sukcheon Ro, Ojung-Gu  
Bucheon, Gyunggi-Do - SOUTH KOREA  
Tel. +82 32 329 1956  
Fax +82 32 329 1957

**MEP**  
**BRASIL**

**MEP Brasil Ltda.**  
COM. E SERV.DE MAQS.  
Rodovia Sp-79, S/N Km 122 Bloco B  
18170-000 - Liberdade - Piedade - Sp  
Tel. + 55 11 2248-9800  
Fax + 55 11 2248-9800

**MEP**  
**FRANCE**

**MEP France S.A.**  
8 bis, rue des Oziers  
BP 40796 Zone d'Activités du Vert Galant  
95004 St. Ouen L'Aumône FRANCE  
Tel. +33 1 34300676  
Fax +33 1 34300672

**MEP**  
**IBERICA**

**MEP Iberica**  
C/ Plàstic, 5 - Pol. Les Guixeres  
08915 Badalona - Barcelona ESPAÑA  
Tel: +34 934396800  
Fax +34 934490013

**MEP**  
**NORD SERVICE**

**MEP Nord Service GmbH**  
Gewerbepark, 3  
6068 Mills AUSTRIA  
Tel. +43 664-88732022

**MEP**  
**NORTH AMERICA**

**MEP North America Corp.**  
11411 NW 122nd Street  
33178 Medley  
Florida United States Of America  
Tel. +1 305 883 4385

**MEP**  
**POLSKA**

**MEP Polska Sp. z o.o.**  
ul. Józefowska 13/A  
93-338 Łódź POLAND  
Tel. +48 42 645 7225  
Fax +48 42 645 7058

**MEP**  
**VOSTOK**

**MEP Vostok OOO**  
ul. Yasenevaya, 10, korp.1 kv.1  
pos. Sosenskoe, der. Sosenki  
142791 Mosca, RUSSIA  
Tel./Fax: +7 495 745 04 90

[www.mepgroup.com](http://www.mepgroup.com)  
[sales@mepgroup.com](mailto:sales@mepgroup.com)