



Automatic Straightening Machine from coil

RD 12

Automatic Straightening Machine from coil



MEP
the history of innovation



www.mepgroup.com



RD 12

HIGH PRODUCTIVITY

The **RD 12** series straightening machines are designed to **straighten and cut wires** up to a maximum length of 12 meters. **High speed, ease of use** and **sturdiness** make them a versatile tool capable of adapting to a wide range of production requirements.



FLEXIBILITY

Different configurations allow to set the **production** according to specific needs giving priority to **high volume productions** (same lengths) or **flexibility** (for different lengths).

Straightening system



RELIABILITY AND PRODUCTIVITY

The straightening process is achieved through a rotating group consisting of **tungsten-carbide bushings**, chosen because of their **extreme hardness and strength**.

It is possible to adjust their position according to the diameter and the quality of the wire, **guaranteeing a perfectly straightened product**. The **high rotor speed**, necessary to meet the **highest productivity**, is equipped with a **cooling system** that allows to preserve the **reliability** of the equipment.



FLYING SHEAR

The flying shear cuts while the wire is in motion. This solution allows to work at **high speed** within the required **measurement tolerances**.

STEADY QUALITY CONTROL



Two infeed units drive properly the wire, guaranteeing **constant speed and straightening quality**, making it particularly **suited for small diameters**. Based on the different lengths and diameters can be possible to work with setting of **different speeds**.

WORLD SYSTEM: TOTAL CONTROL



- The MEP Industrial PLC operator control panel is constituted by:
 - LCD screen for data visualization in a "user friendly" graphic form.
 - Low power consumption embedded microcontroller.
 - Input/output and axes control electronic circuit boards equipped with short-circuit prevention system.
- MEP's developed software allows:
 - Inputting bars production data and memorizing several batches to be produced in sequence.
 - Visualizing production status.
 - Adjusting production speed through trimpots.
 - Controlling every machine parameter based on the diameter used.
 - Utilizing an "active diagnostic" system to verify constantly the efficiency of all the plant's devices.
 - Presetting the memorization of the data related to the daily work cycles (diameters processed and daily weights processed subdivided by diameter).
 - Presetting the history of alarms with related memorization of machine stop time and production time.
 - Presetting for remote loading through external computer or optical reader through serial port RS 232 (e.g. bar coder reader).

ALWAYS A CLEAN ENVIRONMENT



- The machine frame is designed to easily collect the dust generated during the straightening process and also it is sound proofed to achieve maximum noise reduction during operation.

OUTFEED CHANNEL WITH ALIGNEMENT DEVICE



- The guiding support available in several versions, allowing the collection and distribution of straightened bars according to the specific production needs. The version that includes the automatic alignment device (optional) is particularly suitable for the production of bundles intended for welded mesh equipments.



ACCESSORIES



- GB01 decoilers equipped with a braking system controlled by the control panel, based on the production cycle.

COOLING SYSTEM








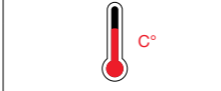

- The machine electrical motors and other devices, such as the control panel, are cooled through a forced liquid cooling system. For this purpose a refrigerating unit is used to keep the liquid at the set temperature.

WIRE BUTT WELDER



- Allows to weld the ends of two coils in order to reduce the handling time.
(OPTIONAL)

TECHNICAL AND PRODUCTION CHARACTERISTICS

			
	WIRE DIAMETER		
	Smooth wire or rebar	from Ø 4 to Ø 12 mm	from # 2 to # 4
	$f_y = 600 \text{ N/mm}^2$ - $f_t = 700 \text{ N/mm}^2$ (other loads on request)		
	LENGTH OF STRAIGHTENED AND CUT-TO-LENGTH BAR		
	minimum	1200 mm	47'-1/4"
	maximum (other sizes on request)	7000 mm	22' 12"
	Length tolerance with encoder (other tolerance on request)	± 5 mm (up to 5 m)	± 3/16" (up to 15'-0")
	FEED RATE		
	Forward movement speed	1,5 ÷ 2,5 m/s	from 4.92 fps to 8.2 fps
	OPERATING TEMPERATURE		
	standard	+4° C / +40° C	39.2° F / 104° F
	INSTALLED POWER		
	maximum (other sizes on request)	75 kW	95.23 hp

THE PLANT REQUIRES THE USE OF AN AIR COMPRESSOR.

f_y: Max. unit yield point - *f_t*: Max. Tensile strength

Note: #2 = 1/4" ; #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
BRASIL

MEP Brasil
Rua Bom Jesus da Cachoeira, nº 100
Parque Edu Chaves
CEP 02236-020 - Sao Paulo - BRASIL
Tel. +55 11 2240.4610 - 2240.4553
Fax +55 11 2240.4610 - 2240.4553

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
NORD-EUROPE

MEP Nord-Europe GmbH
Brienner Strasse 55
D-80333 München GERMANY
Tel. +49 089 41610829

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
Ул.Новаторов, 36 корп.3 Офис XXIV
119421 Москва Россия
Tel./Fax: +7 495 745 04 90

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

www.mepgroup.com

sales@mepgroup.com