



Automatic Straightening Machine from coil

# RF 10-10M

# RF 20-20M

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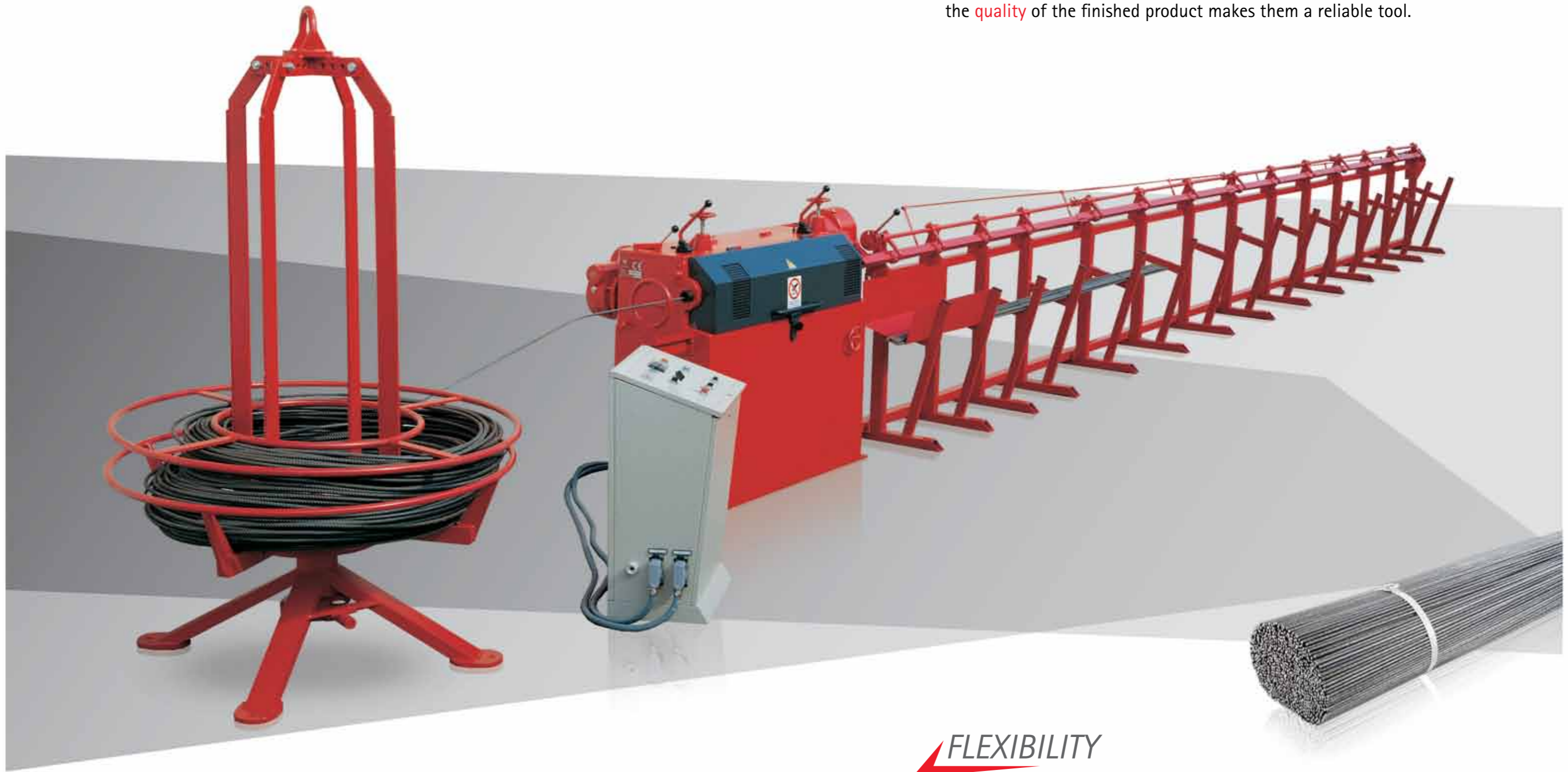
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# RF 10-10M · RF 20-20M

## SIMPLICITY MADE TO MEASURE

The **RF** series of straightening machines can straighten and cut wires up to a length of 12 meters. Their **ease of use**, sturdiness and the **quality** of the finished product makes them a reliable tool.



## FLEXIBILITY

The different versions allow to set the **production** based on specific needs either for **high productivity** (RF 10 / RF 20 same length) or **single element** (RF 10 / RF 20M different lengths).

# Straightening system



## RELIABILITY OVER TIME

Straightening is achieved by using a rotor group consisting of tungsten-carbide bushings chosen because of their extreme hardness and strength. Their position and pitch can be adjusted according to the diameter and the mechanical characteristics of the coil material, guaranteeing a perfectly straightened product.

There are two rotor speeds for models RF 20 and RF 20M, variable according to the diameter to be processed.

## FAST CUTTING

The shear is equipped with mechanical quick release which ensures the rebar produced to be always within tolerance.

## STEADY QUALITY

Two infeed units drive properly the wire, ensuring constant straightening speed and quality.

The various versions allow to operate with different speeds depending on the lengths and the diameters to be produced.



## EASE OF USE



- The operator is able to control all machine operations using the control panel. The **Multiprogram** version allows to manage a **list of up to 20 positions**, with different quantities and **lengths of rebar**.

## OUTFEED CHANNEL



- Guiding support with a **mechanical end-stop**, for the manual regulation of cutting length. The bars cut to size are collected into a rack.

## PROGRAMMABLE CUTTING SEQUENCES



- The **Multiprogram** version has a **pre-straightener unit** consisting of five rollers and a pair of measuring rollers connected to an encoder. **Cutting to length is electronically programmed**, working according to pre-loaded cutting sequences. (OPTIONAL)

## AN ENVIRONMENT THAT IS ALWAYS CLEAN



- An **integrated vacuum system** ensures that dust and mill scale are separately collected.









## QUALITY DECOILING



- Decoiler** complete with 1 coil-holder with a capacity of 2 t, equipped with a **braking system**.
- Triple decoiler** complete with 3 coil-holders with a total capacity of 6 t, equipped with a **braking system**. (OPTIONAL)



## TECHNICAL AND PRODUCTION CHARACTERISTICS

			
		RF 10 - RF 10M	RF 20 - RF 20M
	<b>WIRE DIAMETER</b>		
	Smooth wire or rebar	from Ø 3 to Ø 10 mm from # 2 to # 3	from Ø 4 to Ø 16 mm from #2 to # 5
	$f_y = 600 \text{ N/mm}^2 - f_t = 700 \text{ N/mm}^2$ (other loads on request)		
	<b>LENGTH OF STRAIGHTENED AND CUT-TO-LENGTH BAR</b>		
	minimum	500 mm - 20"	
	maximum (other sizes upon request)	12000 mm - 39-4"	
	<b>LENGTH TOLERANCE</b>		
	M (MULTIPROGRAM)	$\pm 3 \text{ mm}$ (up to 12 m) $\pm 1/8"$ (up to 39-4")	
	Electromechanical	$\pm 1,5 \text{ mm}$ (up to 12 m) $\pm 1/16"$ (up to 39-4")	
	<b>PROGRAMMING</b>		
	M (MULTIPROGRAM)	20 programmable lengths	
	Electromechanical	single size	
	<b>FEED RATE</b>		
		0,6 - 1 m/s 1.97 - 3.30 fps	0,4 - 0,6 - 0,9 m/s 1.31 - 1.97 - 3.28 fps
	<b>INSTALLED POWER</b>		
	maximum (other sizes upon request)	14 kW 18.7 hp	25 kW 33.5 hp

THE EQUIPMENT DOES NOT REQUIRE COMPRESSED AIR.

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

Note: #2 = 1/4" ; #3 = 3/8" ; #5 = 5/8"

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