

MELC POLY-LINE NC & MS SERIES

MULTI-LINE STRAIGHTENING & CUTTING MACHINES

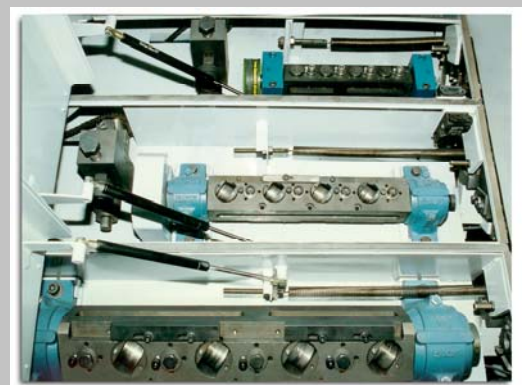
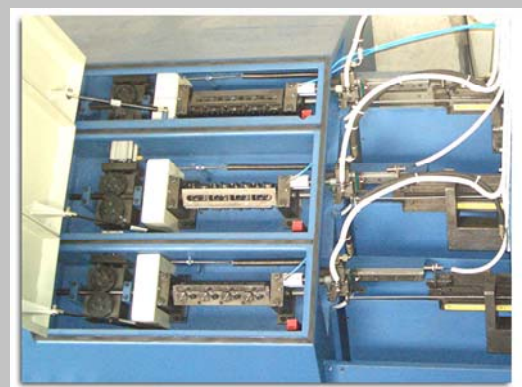


**PIONEERS IN
STRAIGHTENING**

up to 240 m/min

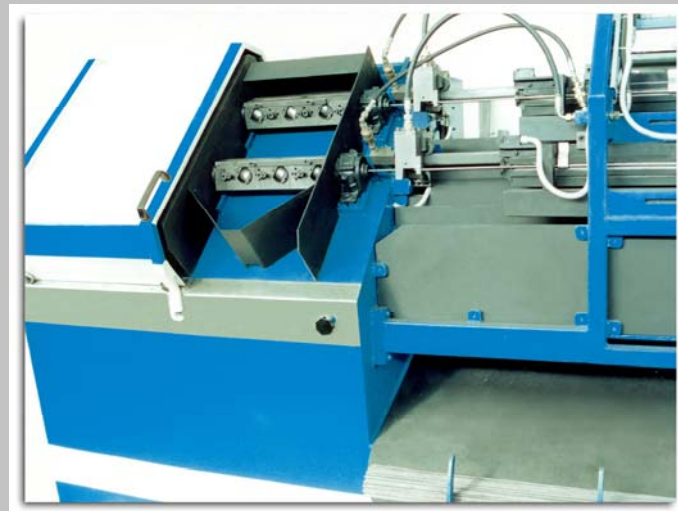
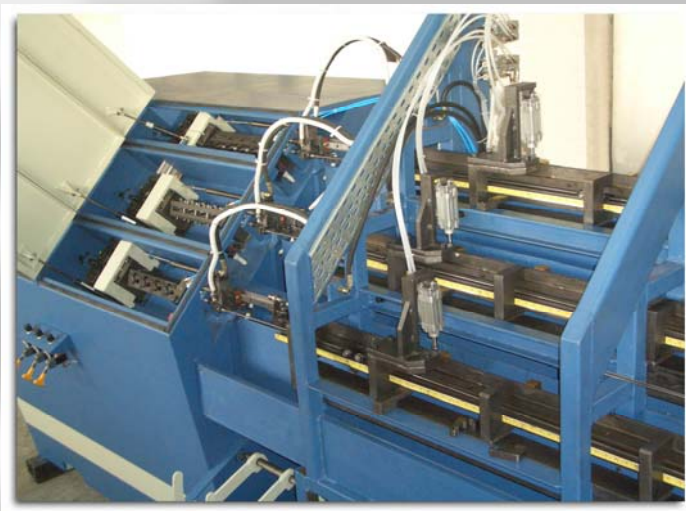


- The MELC POLY-LINE series of straightening & cutting machines are designed for high output continuous operation.
- The machines are based on our unique Hyperbolic Roller Rotor straightening method, invented and developed by our R&D department 25 years ago and internationally established as a state-of-the-art method.
- Using presently the fourth generation of straightening Rotors, the MELC POLY-LINE Series guarantee unmatched straightening results, regardless of material quality/grade with minimum operational and maintenance costs.
- The simplicity of the design allows the construction of multi-line machines according to production requirements.
- The rotors work automatically and separately, one-by-one or simultaneously in a desired and programmed order.
- Each line works independently from the others, thus each line can operate with the same or different wire diameter and cut the same or different length.
- MELC straightening machines offer mechanical simplicity and rapid diameter changes.
- 40% less energy consumption than equivalent systems due to roller straightening blocks in the spinner instead of dies.
- The machine can work unsupervised due to the electronically controlled safety devices and the constant straightening quality achieved.
- The MELC Poly-line series are equipped with flying shear cutters, ensuring uninterrupted operation, minimizing the material stresses imposed on the wire during the cutting process.
- Specially designed cutting tools achieve excellent cutting finish.



MELC POLY-LINE NC & MS SERIES

STRAIGHTENING FLEXIBILITY AT ITS VERY BEST



Two types of measuring systems are available

- A numeric control system type "NC" using rotary encoders ensuring fast and easy change of wire lengths.
- A mechanical stop type "MS" manually adjusted for different wire lengths offering high accuracies.
- The electronic unit incorporates an industrial microprocessor control with user-friendly operation requiring no computing skills.
- Each line has an independent collection system and leads the straight & cut wires to a common (for all lines) collector for bundling without interrupting machine operation.
- Various collection systems depending on output, automation and handling requirements are available.
- In-line powered roller conveyors and automatic bundling station produce perfectly aligned bundles, ready for storage or shipment.
- Mechanical simplicity of the design ensures user friendly operation, consistent and continuous production.

MELC POLY-LINE Standard Models		2-8	3-10	2-8	2-10	2-12
Number of lines		2	2	3	3	3
Working range	mm	2-8	3-10	2-8	2-10	2-12
	in.	0.08-0.32	0.12-0.39	0.08-0.32	0.08-0.39	0.08-0.47
First Line	mm	4-8	5-10	4-8	5-10	6-12
Second Line	mm	2-4	3-6	3-6	3-6	4-8
Third Line	mm	-	-	2-4	2-4	2-4
Total wire feeding Speed	m/min	130	145	195	205	215
	ft/min	425	475	640	675	705
Max. Cutting length*		3-6-9-12m (10-20-30-40ft)				

Other diameter configurations upon request

MELC POLY-LINE ROTOR SIZES		2-4	3-6	4-8	5-10	6-12
Wire diameter range < 600 N/mm² UTS	mm	2-4	3-6	4-8	5-10	6-12
	in.	0.08-0.16	0.12-0.24	0.16-0.32	0.19-0.39	0.24-0.47
Wire cutting accuracy NC SERIES	mm	±1	±1	±2	±2	±2
	in.	±0.04"	±0.04"	±0.08"	±0.08"	±0.08"
Wire cutting accuracy MS SERIES	mm	±0.1	±0.1	±0.1	±0.1	±0.1
	in.	±0.004"	±0.004"	±0.004"	±0.004"	±0.004"
Installed power	kW	5	6.5	10	17	20

*9 and 12 meter lengths available only with "NC" measuring system.



For a free video CD, samples and your nearest EUROBEND representative, please, contact:

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