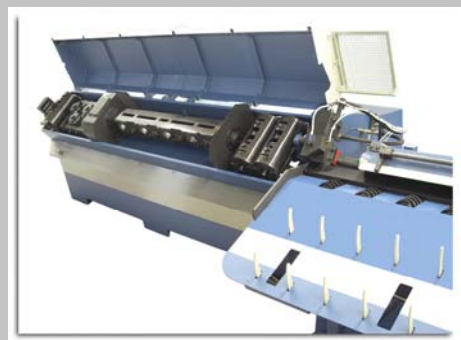


MELC MONO-LINE NC AND MS SERIES

WIRE STRAIGHTENING & CUTTING MACHINES

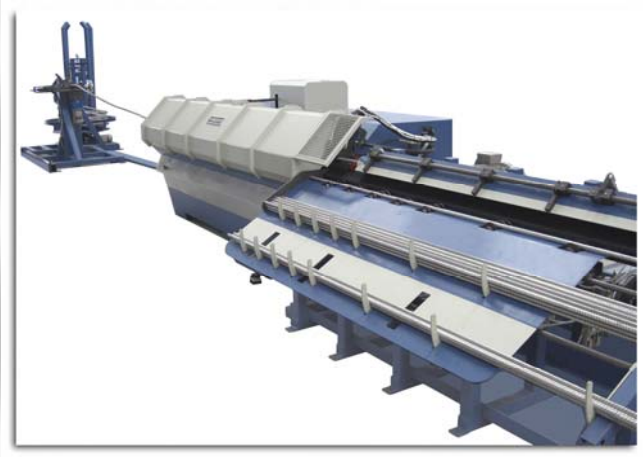


- The MELC MONOLINE Series are based on our unique Hyperbolic Roller Rotor straightening method, invented and developed by our R&D department 25 years ago and internationally established as a state-of-the-art method.
- Using presently the fourth generation of straightening Rotors, the MELC MONOLINE Series guarantee unmatched straightening results, regardless of material quality/grade.
- Rotation of the rotor results spiral rotation of the rollers around the wire, thus achieving straightening and feeding simultaneously.
- Hyperbolic roller profile ensures full line and not point contact between roller and wire minimizing wire marking and maximizing roller life.
- MELC straightening machines offer mechanical simplicity, rapid diameter changes, and minimum maintenance requirements.
- 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 Mono-line series are equipped with a flying shear cutter, ensuring uninterrupted operation, minimizing also the material stresses imposed on the wire during the cutting process.
- Specially designed cutting tools achieve excellent cutting finish.



MELC MONO-LINE NC AND MS SERIES

STRAIGHTENING FLEXIBILITY AT ITS VERY BEST



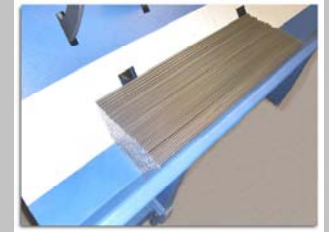
Three types of measuring systems are available

- 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.
- A programmable mechanical stop type "CMS" combining the flexibility of the numeric control and the accuracies of the mechanical stop system.

A unique Anti-twist twin-roller system (patented) ensures the torsion-free production of wires during the straightening process.

Various collection systems depending on output, automation and handling requirements are available.

- Two-Level collection tables for bundling and removal without interrupting machine operation.
- Continuous wire aligning systems.
- In-line powered roller and pocket conveyors.
- Automatic bundling station produces perfectly aligned bundles, ready for storage or shipment.
- Mechanical simplicity of the design ensures user friendly operation, consistent and continuous production.



MELC MONO-LINE Working Range		2-4	3-6	4-8	5-10	6-12	8-16	10-20	12-25	15-30
Wire diameter range* < 600 N/mm ² UTS	mm	2-4	3-6	4-8	5-10	6-12	8-16	10-20	12-25	15-30
	in.	0.08-0.16	0.12-0.24	0.16-0.32	0.19-0.39	0.24-0.47	0.31-0.63	0.39-0.79	0.47-1	0.59-1.18
Wire feeding Speed**	m/min	60	65	70	80	80	80	80	70	70
	ft/min	200	215	230	260	260	260	260	230	230
Wire cutting accuracy NC SERIES	mm	±1	±1	±2	±2	±2	±3	±3	±3	±3
	in.	±0.04"	±0.04"	±0.08"	±0.08"	±0.08"	±0.12"	±0.12"	±0.12"	±0.12"
Wire cutting accuracy MS & CMS SERIES	mm	±0.1	±0.1	±0.1	±0.1	±0.1	±0.15	±0.15	±0.2	±0.2
	in.	±0.004"	±0.004"	±0.004"	±0.004"	±0.004"	±0.006"	±0.006"	±0.008"	±0.008"
Installed power	kW	7	8.5	12	22	26	38	43	55	68

*Smaller and Larger diameter configurations upon request.

**Feeding speed calculated for high straightening quality < 1/1000

Machine versions processing high tensile wire up to 1600 N/mm² upon request.

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

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