

MELC MONO-LINE PLC AND CNC SERIES

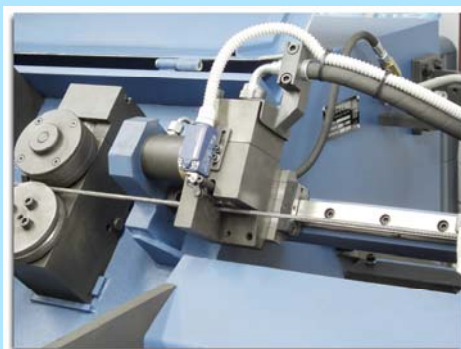
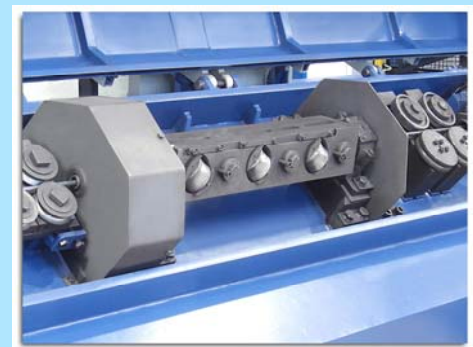
RE-BAR STRAIGHTENING & CUTTING MACHINES



**PIONEERS IN
STRAIGHTENING**

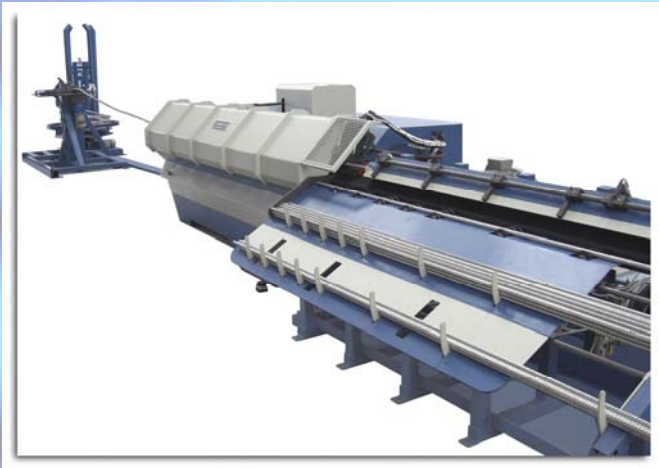


- MELC single-line straightening & cutting machines are designed for heavy duty continuous operation within the concrete reinforcing industry, using our 4th generation (4G) hyperbolic roller straightening and feeding system.
- Rotation of the rotor results in spiral rotation of the rollers around the re-bar, thus achieving straightening and feeding simultaneously.
- MELC straightening machines offer mechanical simplicity, rapid diameter changes, and minimum maintenance requirements.
- No adjustment of the rotor is required as in other conventional straightening systems. Adjustment is only necessary when changing the re-bar diameter.
- Due to the Rotor preset system, diameter changes can be achieved in less than five minutes. No test runs are required.
- 40% less energy consumption than equivalent systems due to roller straightening blocks.
- 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.
- Product identification stamping available.



MELC MONO-LINE PLC AND CNC SERIES

STRAIGHTENING FLEXIBILITY AT ITS VERY BEST



Two types of control systems are available.

A numeric control system type "PLC" where the length and the number of pieces to be produced can be easily programmed ensuring fast and easy change of wire lengths.

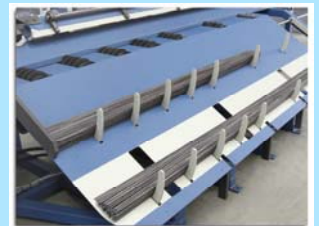
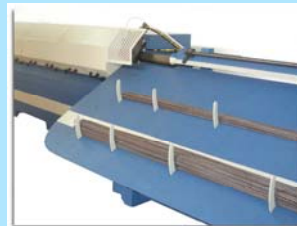
A fully programmable type "CNC" with Industrial microprocessor control, user-friendly operation and advanced Windows based software. The CNC version can be programmed through Barcode Scanner or can be directly connected to a central administrative server.

A unique Anti-twist twin-roller system (patented) ensures the torsion-free production of re-bars.

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 re-bar aligning systems.
- ✓ In-line powered roller and pocket conveyors.
- ✓ Automatic bundling station.

Mechanical simplicity of the design ensures user friendly operation, consistent and continuous production.



MELC MONO-LINE Working Range		8	10	10 T	12	12T	16	20	25	30
Re-bar diameter range < 650 N/mm ²	mm	4-7	5-9	5-9	6-12	6-12	8-16	10-20	12-24	16-28
	in.	0.16-0.27	0.19-0.35	0.19-0.35	0.24-#4	0.24-#4	#3-#5	#3-#6	#4-#7	#5-#9
Re-bar diameter range < 850 N/mm ²	mm	4-6	5-8	5-8	6-10	6-10	8-12	10-16	12-20	15-25
	in.	0.16-0.24	0.19-0.32	0.19-0.32	0.24-#3	0.24-#3	#3-#4	#3-#5	#4-#6	#5-#8
Feeding speed	m/min	70	80	120	80	120	80	80	70	65
	ft/min	230	260	395	260	395	260	260	230	215
Cutting accuracy	mm	±2	±3	±5	±3	±5	±5	±5	±5	±5
	in.	±0.08"	±0.12"	±0.19"	±0.12"	±0.19"	±0.19"	±0.19"	±0.19"	±0.19"
Installed power	kW	12	22	30	26	36	38	43	55	68
Production output 8h (80% efficiency)	t	10,5	15,5	23,5	34,5	41,5	45*	62.5*	80*	95*

*Calculated with 65% efficiency

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