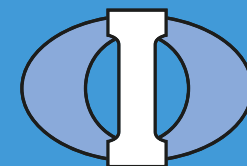




CSM MACHINERY



OAKLEY
INDUSTRIAL MACHINERY

Automatic Feeder for Rolling Mill

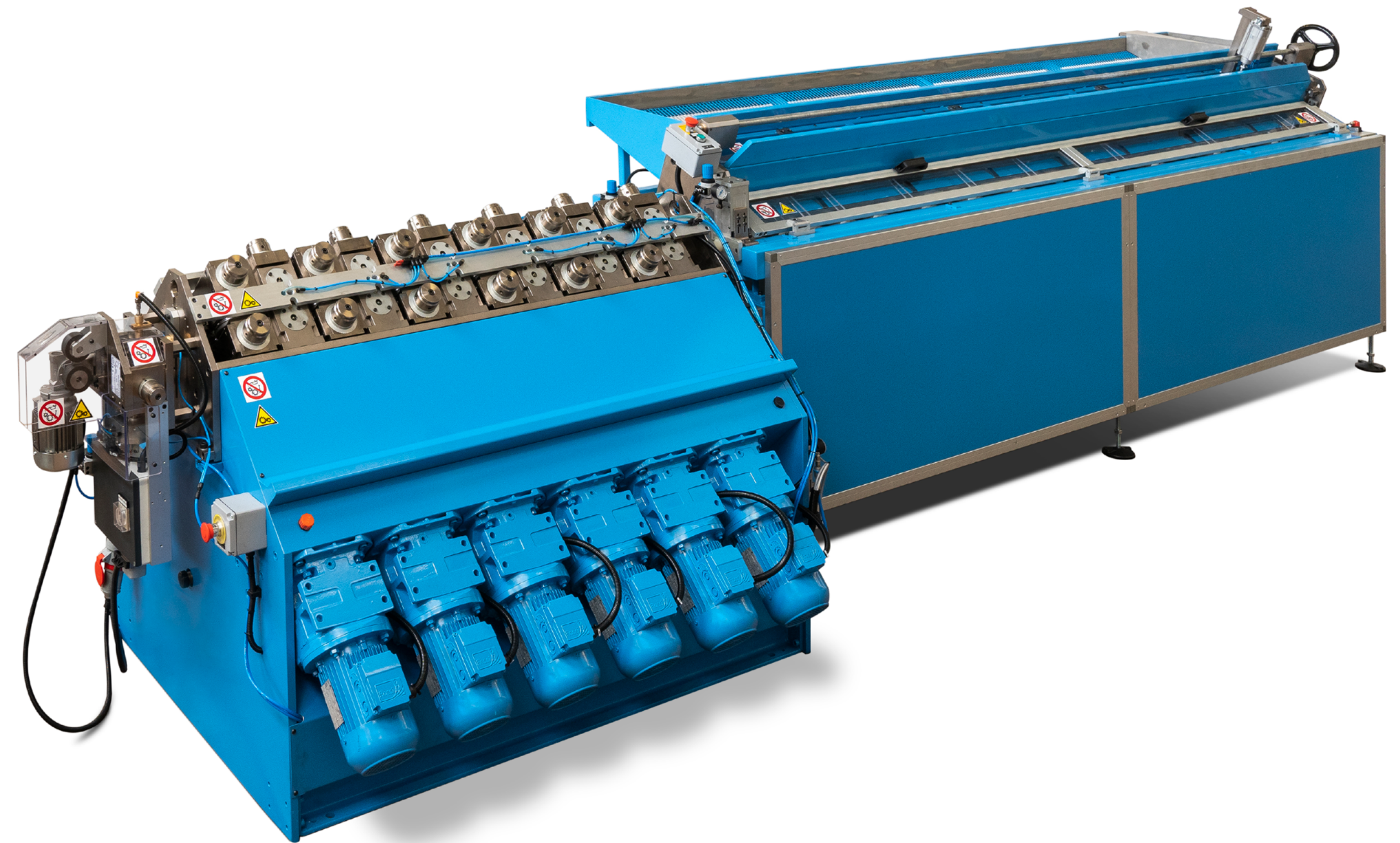
Device designed and built to ensure constant feeding and automatic introduction of heating elements into the reduction mill.



Machine composition

- **Heating element storage magazine** for containing the pieces prior to feeding
- **Electro-pneumatic feeding device** for single-piece, sequential feeding
- **Motorized roller system** for transporting and introducing heating elements into the reduction rolling mill, with programmable feeding frequency
- **Adjustable configuration** to accommodate different tube diameters

Heating elements are held in a storage magazine and released one at a time by an electro-pneumatic loading device. Motorized rollers then transport and guide each piece securely into the reduction rolling mill, with feeding frequency programmable to synchronize with the mill's cycle. The rollers adjust to different tube diameters, enabling continuous, precise feeding across varying product specifications with minimal manual intervention.



Technical characteristics

Storage capacity	100 (7,5)–80 (10) pcs.
Length of heating element	mm to be defined
Tube diameter	7,5-15 mm (.29-.59")
Installed electrical power	0,30 HP
Supply voltage	V to be defined
Pneumatic power supply	6 Ate
Height of heating element axis from floor level	850-950 mm (33-37")

AVAILABLE VERSIONS

Model	Length of heating elements
Mod. 140/50.100000	300-1.000 mm (12 - 40")
Mod. 140/50.150000	300-1.500 mm (12 - 60")
Mod. 140/50.200000	300-2.000 mm (12 - 80")
Mod. 140/50.250000	300-2.500 mm (12 - 100")
Mod. 140/50.300000	300-3.000 mm (12 - 120")
Mod. 140/50.400000	300-4.000 mm (12 - 160")
Mod. 140/50.500000	300-5.000 mm (12 - 200")
Mod. 140/50.600000	300-6.000 mm (12 - 240")

Options

DIELECTRIC STRENGTH TEST

A dedicated instrument and circuit perform the dielectric strength test on heating elements prior to rolling, automatically rejecting and removing non-compliant pieces.

Performing this test before rolling offers key advantages:

- Immediate quality control of heating elements
- Ability to recover and reuse the tube, magnesium oxide, and coils from rejected elements before rolling

System components:

- Electrical contact for the dielectric strength test
- Electronic test equipment with adjustable test voltage (0–3000 V, 5 mA)
- Electro-pneumatic device for separating rejected elements before rolling



FIGURE 1 Front view of the automatic feeder with dielectric strength test.

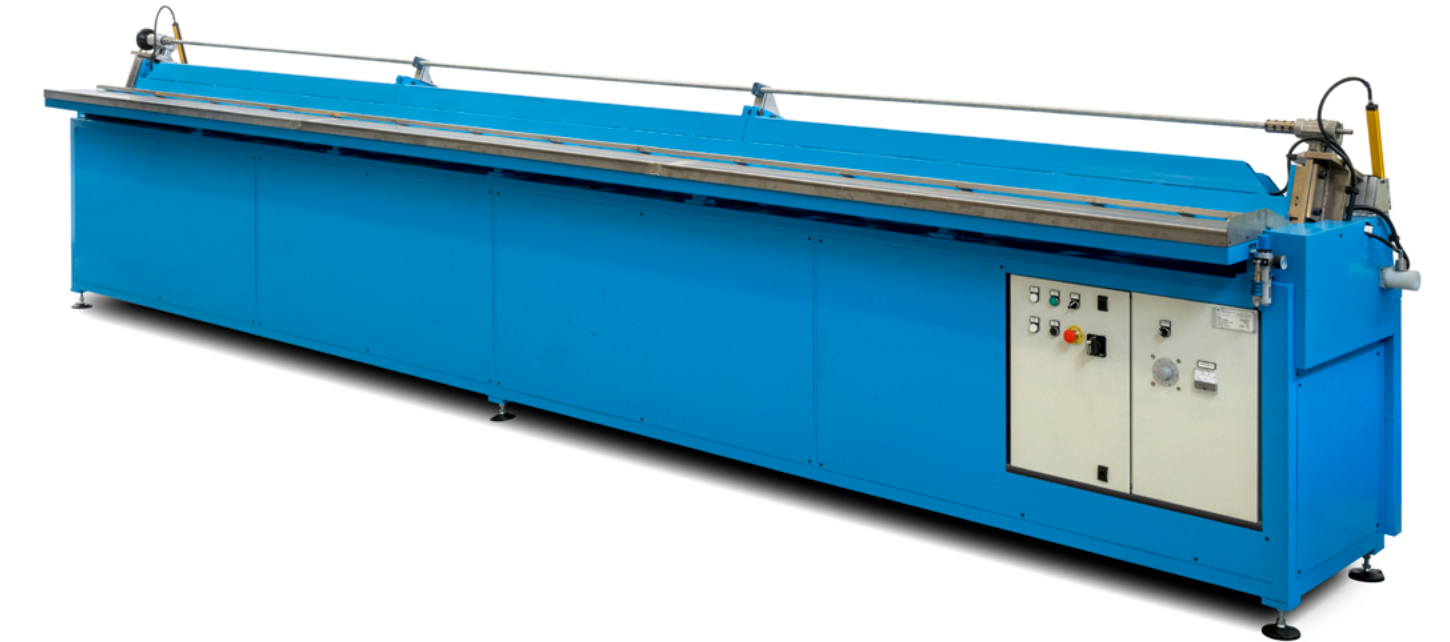


FIGURE 2 Rear view of the automatic feeder with the dielectric strength test.