

Wire Technology & Machinery



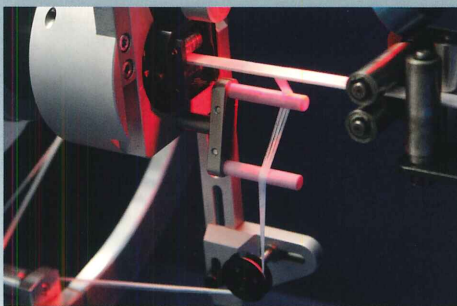
Spinning line suitable for FLAT and ROUND wires with precise synchronization of its heads by electric axis for the accurate application of fiberglass and mixed yarns (Daglas®, etc.).

This machine can be equipped with two, three or more concentric spinning heads, of both single motorized and totally motorized (fully electronic) type, also suitable for big cross wound spools thanks to the separate motorization of the yarn spool.

The tension of the yarns on each head is controlled by means of the dynamic dancer, which is able to absorb effectively any perturbation of the wrapping process over the flat wire, even at high speed.

This line is equipped with thermal treatment, obtained by infra-red light radiators or resistors ovens.

FIBERGLASS AND MIXED YARNS (DAGLAS®, etc.) SPINNING LINE WITH HEATING PROCESS



Main characteristics:

- Pay-off and take-up units acting with dancer or in torque control.
- Standard wire-guide device for take-up or traversing movement for take-up and pay-off to maintain the wire in straight direction without any axial deviation.
- Possibility to operate with several spinning heads, of single or fully motorized type, also for big cross wound spools.
- The dynamic dancer, on the spinning heads, maintains the tension of the yarns constant and stable getting a perturbation-free process highly appreciated in case of "very flat" wires (high width/thickness ratio).
- Infra-red light or radiant ovens with fully automatic opening and closing movement for sintering process during start-stop phases.
- The most suitable combination of pulling units (one capstan, one or two caterpillars or combined caterpillar/capstan) perfectly synchronized with the rotation of the head to control precisely the linear speed and the wire tension.
- Cooling system with re-circulated cold air for stabilizing the coating.
- Digital electronic control system with possibility to be connected to the internal network and to internet for remote assistance.



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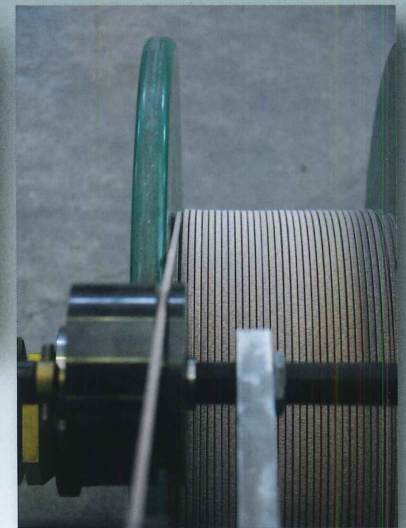
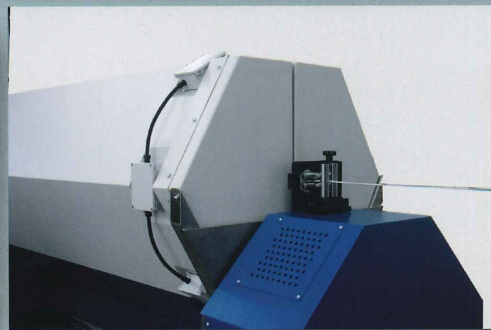
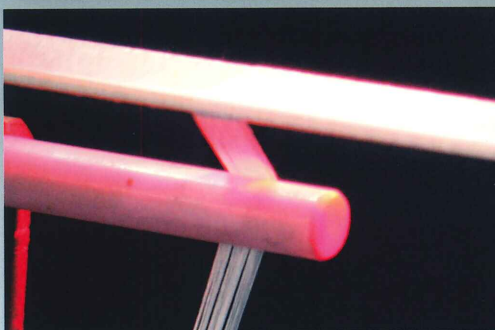


Technical data

Round wire diameter	From 0,5 mm to 20 mm
Flat wire dimension	From 4 mm ² to 150 mm ²
Line speed	Max. 50 m/min
Yarn type	From 10 to 50 yarns From 5,5 to 11 Tex
Yarn tension	From 2 N to 20 N
Spinning pitch precision	Max. 0,05 mm
Take-up / pay-off reel dimension	Up to 1600 mm in cantilever construction Up to 1000 mm in single shaft construction
Thermal process	Induction pre-heater Infra-red light, radiation, molten salt bath ovens Pyrometer feedback control
Cooling	By air
Paper feeder	Automatic, suitable for any reel dimension

Other options:

- Varnish applier for glass yarns
- Wire straightening with steel rollers and cleaning device with brushes to ensure the best cable preparation
- Paper feeder installed on the take-up unit, suitable for the automatic deposition of a complete turn of paper interlay on the reel, during wire winding
- In-line spark testers and other measuring devices for quality control
- Strobe-lamp automatically synchronized with the rotation of each head
- VISIO SYSTEM® by camera for in-line inspection and other software utilities
- Tele-service system for remote connection by internet access



All the characteristics can also be personalized on customer request.
All technical characteristics may be changed without prior communication.

