

Wire Technology & Machinery



Advanced sintering/sealing process suitable for PTFE, POLYIMIDE, FEP, SILICON and other insulating materials, obtained deepening them into a high temperature molten salt bath. The wires to be treated are driven through the oven inside the working tank, which is fed by an axial pump that takes the salt from the melting tank placed below. Special heating elements keep the salt temperature under control.

Out of the oven, the residual salt on the heat-treated wire is washed away and the cable is cooled and dried at once.

The sintering oven is completed by WTM rewinding lines: up to 4 wires, even with different dimensions and speeds, can be simultaneously treated with the same salt bath oven.

MOLTEN SALT BATH SINTERING/SEALING LINE FOR PTFE AND POLYIMIDE INSULATED WIRES



Main characteristics:

- Two treating tank sections, also working in tandem.
- Two-zone temperature control.
- Pre-cleaning system by means of hot air blower.
- Water sprayers for residual salt removal and fine cleaning.
- High pressure air drying unit.
- Pay-off and take-up with dancer control.
- Pulling unit by means of caterpillar or capstan, as option.
- Wire rewinding management suitable for multiple wires.
- Digital electronic control system with possibility for connecting to the internal network and to internet for remote assistance.



Wire Tec



Technical data

Maximum number of wires	4
Round core diameter	0,5 – 12,0 mm
Line speed	0 – 50 m/min
Maximum oven temperature	450 °C
Maximum pre-cleaning air temperature	600 °C
Cooling tank capacity	200 litres
Available take-up and pay-off	DIN 100 – DIN 800

Other options:

- Salt recovering and recycling system
- Laser gauges (inlet and outlet) to check the shrinking percentage of the wire
- Load cells for wire pulling control
- Spark tester
- Meter counter
- Tele-service system for remote connection by internet access
- PC-based control system and quality report management



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

