

FLOWLINE

Combined technology lines -
microwave, hot/cold air and infrared.



M.I.T. S.r.l.

Iscritta al Registro Imprese di Pordenone n. 01795250933 – R.E.A. Pordenone n. 105132
33080 San Quirino (PN) Via degli Etruschi, 10
tel. +39 0434 91148 info@mit-industries.biz

The Line solutions are the most varied and thanks to the clever combination of technologies, they make it possible to assert production processes in a highly efficient and qualitative way. With FLOLINE we can meet the highest production requirements. Electro radiation technologies are combined with hot air or percussion, in continuous or discontinuous processes. The power of heating / cooling technologies, as well as the speed of the transport system, are always adjustable via the operator panel.

All the machines have the possibility to be connected to the remote assistance and to the management systems of the customer's production

The FLOLINE machines are completely customizable and can certify to the most disparate production processes:

- Cooking and pasteurizing foods
- Drying of organic materials
- Drying of aggregates
- Polymerization of water-based paints deposited on wood, glass, plastic or metal
- Polymerization of resins deposited on wood, glass, plastic or metal

Some real-time examples of installation of FLOLINE machines:

Use: Rapid catalysis of the resin applied on marble slabs (for restoration, retouching or surface finishing)

- ✓ Oven type: microwave, infrared and hot air
- ✓ Total power: 250kW
- ✓ Microwave power: 36kW adjustable in power
- ✓ Air recirculation and expulsion
- ✓ Process in line, discontinuous
- ✓ Power of the energy sources that can be set on the operator panel
- ✓ Speed of the transport system that can be set on panels
- ✓ Piece position control using shielded sensors
- ✓ Dimensions: 9.74 meters and 3.16 h. 2.15
- ✓ Production capacity: 15 plates / hour



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Use: Ultra-fast polymerization of water-based paints applied on glass / wood / plastic

- ✓ Oven type: microwave, hot air, percussion
- ✓ Total power: 200kW
- ✓ Microwave power: 12kW adjustable in power
- ✓ Power of energy sources settable on the operator panel
- ✓ Speed of the transport system settable on panel
- ✓ Piece position control using shielded sensors
- ✓ Complete line length: 25 meters
- ✓ Useful treatment: from 600mm to 2200mm
- ✓ Cycle duration: 20 min. with high basis weights (200g / mq or more)

Technological Plus:

- Perfect drying with application of high pressure (200g / mq or more)
- Use of water-based paints of water-based or solvent-based paints

Oven used for the polymerization of paint, especially water-based, through the emission of microwaves and a flow of hot air up to 130 ° C. the piece enters a station where the flash-off is performed for a correct distension of the paint applied to the supports. Subsequently, microwave heating is carried out and polymerization is completed in the air / infrared drying module. Before going out the price is cooled, and it is possible for the immediate storing and other processing.



The speed of execution takes place thanks to the balanced and combined action of the different technologies. The combined action of microwave and hot air is optimized for flash off: microwaves act on the paint film by extracting the water particles that accumulate on the surface of the paint film. The action of the infrared removes these particles of water, with the result that the paint can pass to the subsequent drying phase, without the risk of imperfections due to the evaporation of water particles during the hardening of the paint.

In houses where solvent-based paint is used, microwaves can be excluded from the recipe. The line includes a final module with forced cooling to allow the piece to be stored immediately after the oven exits.



Technological Plus:

- Punctual control of power on the length and width of the loading belt
- Complete cleanability
- Self-cleaning of the loading belt
- Compatibility of all materials with food use

Use: cooking and pasteurization of food

- Oven type: microwave, hot air/ infrared
- Stainless steel for food treatment
- Total power: 100kW
- Microwave power: 80kW adjustable in power
- Power of energy sources settable on the operator panel
- Speed of the transport system settable on panel
- Part possession control using shielded sensors
- Visual monitoring porthole of the product along the entire line
- Length line: from 15 meters
- Useful treatment: From 350mm up

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Use: Production of samples

- Oven type: microwave, hot air, infrared long and short wave, ultraviolet, percussion
- Total power: 80kW
- Microwave power: 4kW adjustable in power
- Power of the energy sources settable on the operator panel
- Speed of the transport system that can be set on the panel
- Piece position control using shielded sensors
- Visual monitoring of the product along the internal line
- Line length: 10 meters
- Treatment profit: 600 mm up

Technological Plus:

- High flexibility
- Rapid production cycles

