



RELEASE AGENT SPRAYING SYSTEM
ROOF TILES PRODUCTION

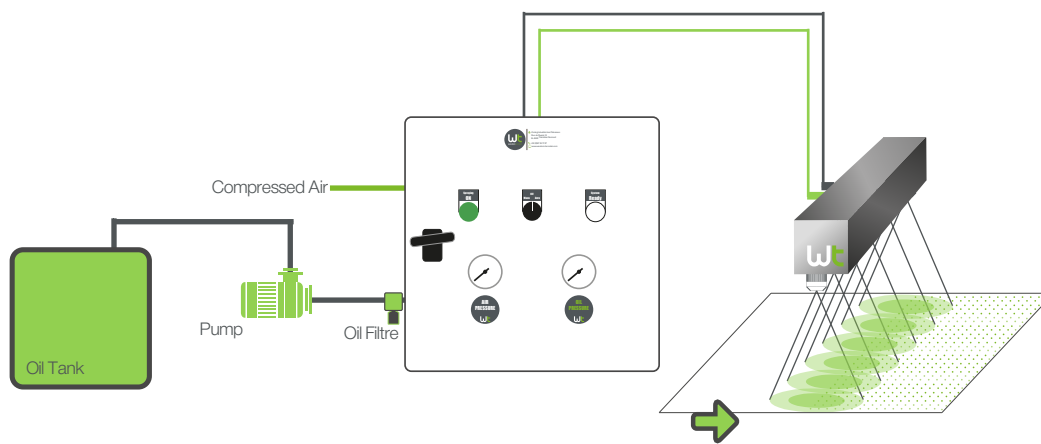


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wouters*tecnolub*

Superior Spraying Technology

Our spraying system is driven to control the liquid flow rate vs your production needs. The flow will be constant during the whole process. With traditional spraying systems using high pressure painting nozzles, you'll use way too much liquid while this will also generate mist and pollution. Our low pressure spraying technology offers an accurate spray control that allows you to reduce easily the sprayed liquid to its minimum quantity that your production process will request.



Hydropneumatic Cabinet



Hydropneumatic control cabinet including:

- o Manual setting of the release agent pressure
- o Manual setting of the spraying air pressure
- o Spray Control Solenoid valve
- o Pilote controlled valve

On the front panel of the cabinet:

- Air pressure and oil pressure gauges
- Manual switch : on / off / auto
- White LED ('automatic operation')
- Green LED (ongoing spraying)

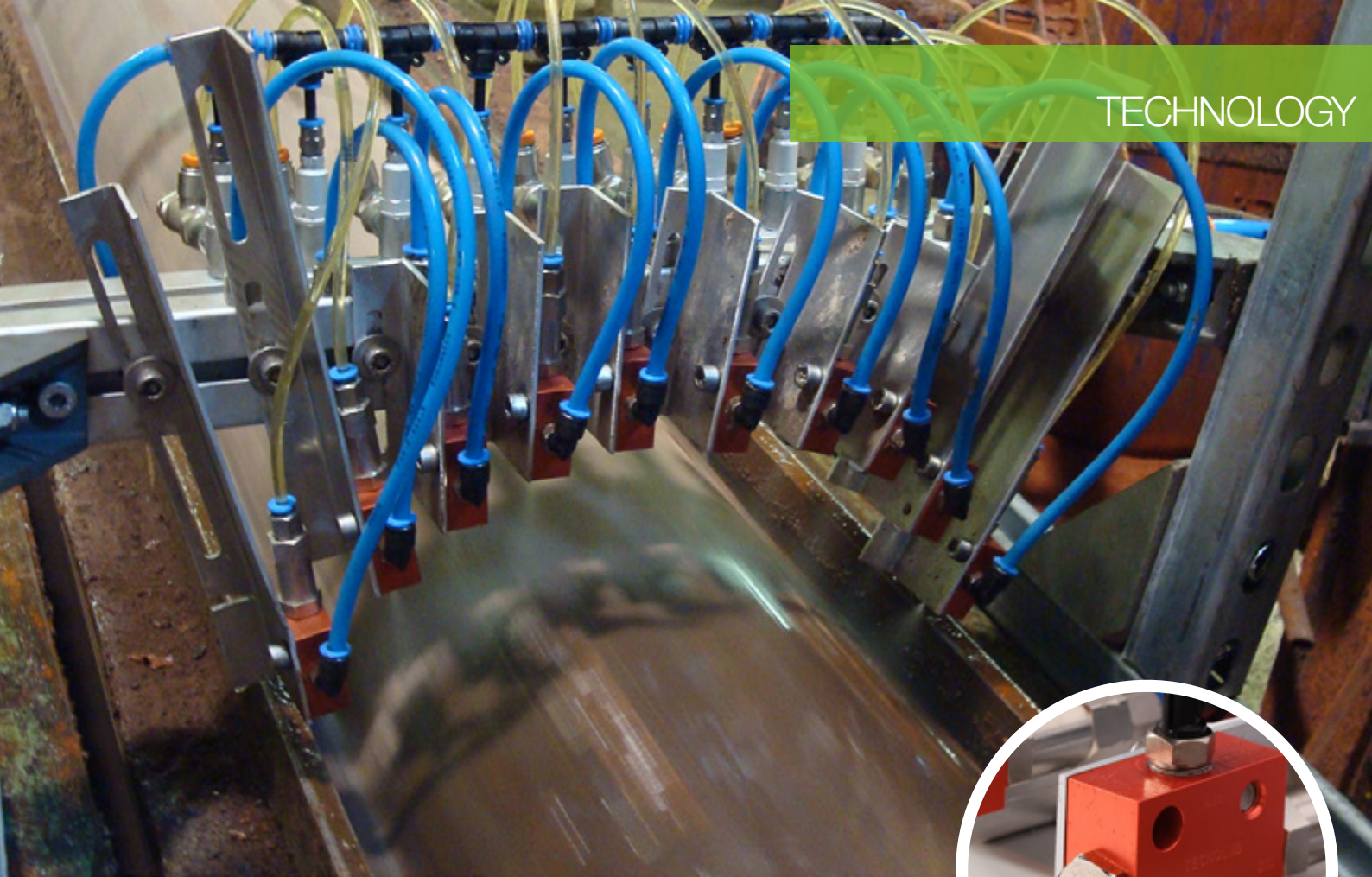
Multiple spray boom

Regarding the quantity of oil that has to be applied, regarding the speed of the tiles on the production line, our engineering department will calculate the right amount of nozzles.

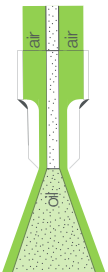
All our SB35 nozzles are equipped with flow regulators and pilote controlled pneumatic valves.



Spraying Ramp



Coaxial Technology

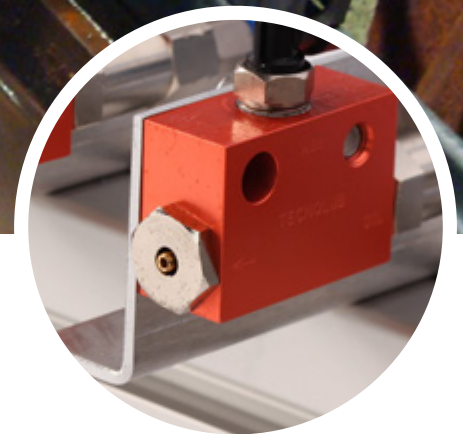


The oil and atomizing air arrive by separate circuits to the spraying point.

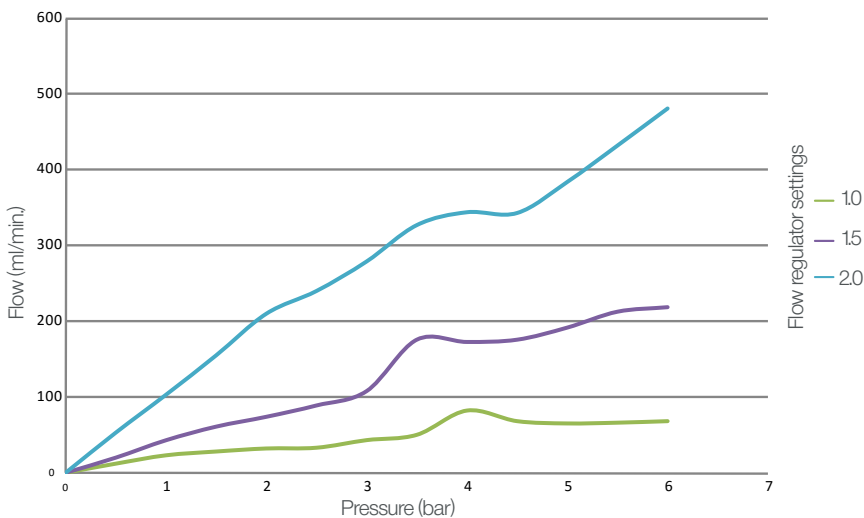
The air / oil is mixed just at the output of the nozzles (coaxial system).

The oil micro-droplets are pulled out by the airflow and remain locked in this airflow to prevent any oil mist effect.

This technology provides a reactive and perfect spraying accuracy.



Spraying flow rate chart for a SB35 Nozzle
(calculation done with water viscosity)



Easy change of the flow rate

Changing the spraying pressure with our control unit will adapt directly the quantity of oil applied...



Oil pressure increased →

CUSTOM SOLUTIONS FOR THE ROOF TILES INDUSTRY

The advantages of the micro-spraying technology are multiple :

Economic

Considerable savings on oil purchases (30 to 70% reduction - very fast return on investment)
Molds lifetime extension
Productivity increased (better quality of products - reduction of production waste)

Ecological

Improving the environment and working conditions (no oil mist or oil pollution)
Reduction of oil pollution risks
Reduction of cleaning operations (fewer products, less energy)

Technical

Better products quality (no oil pollution in concrete)
Inexpensive installation and service
A perfect oiling plates / molds (no rust - no adhesion)
Instant reactivity spray (no oil waste)
Easy implementation into your production line

**Oil savings
Up to 60%**

Return on investments calculation

Example of ROI calculation for a ramp installed for a customer who previously used a spray system with 3 large high pressure nozzles (spray gun type).

Production specifications

Tile size : 40cm * 30 cm
Production tiles : 130 tiles/minute - Working shift/day : 1
Real production time of the machine : 6h/shift
Amount of tiles/day : 28.800

Wouters-Tecnolub system specifications

Amount of nozzles : 12 (double spraying ramp)
System price : 4.608€
(excl. VAT and installation - including pump and filter)

Before

Oil applied : 5.1 gr/tile (42.50 gr/m²)

After

Oil applied : 3.0 gr/tile (25.00 gr/m²)
Oil savings : 41%

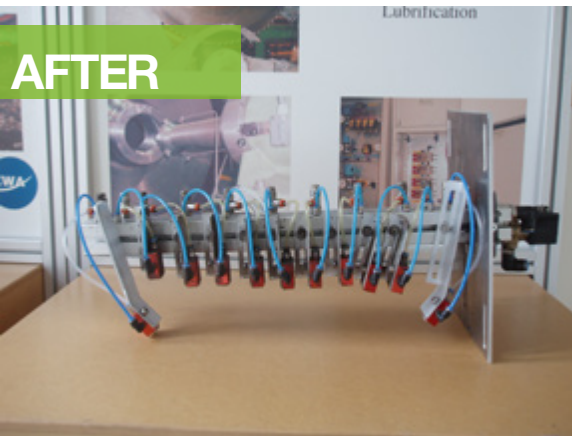
Return on investments : 4 months
Savings/month : 1.245€

PROJECT : Spraying ramp for a concrete tiles production line

Replacement of the spraying installation by a Wouters Tecnolub spraying ramp with 11 SB35 nozzles.

Project's targets achieved :

- oil mist pollution elimination
- oil consumption reduction



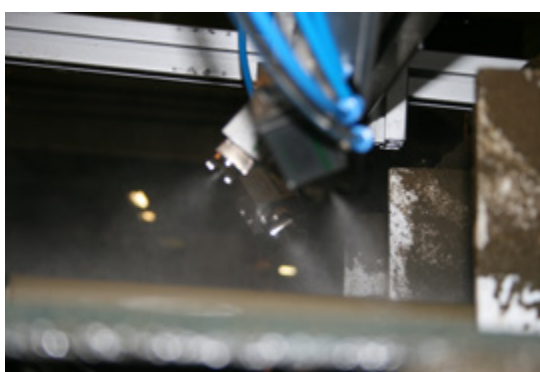
PROJECT : Double spraying ramp for a tiles production line

Spraying release agent on clay roof tiles to avoid sticking in a drum mold.

Two ramps are used to spray the oil. The upper ramp and lower ramp spray the bottom of the mold. The ramps are composed of needle sprayers witch instantly cut off the output of the oil.

The upper ramp is composed of two dimensions sprayers, one for the top and two smaller for the sides. The lower ramp contains only one type of nozzle placed under the machine (constraint of space).

A pressure tank of 50 liters and a control panel complete the installation.



Some References

KORAMIC | ETERNIT | TRILCO | LAFARGE | ARGIBETAO | ...



Feel free to contact us to receive a quotation and a ROI calculation





SUPERIOR SPRAYING TECHNOLOGY

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