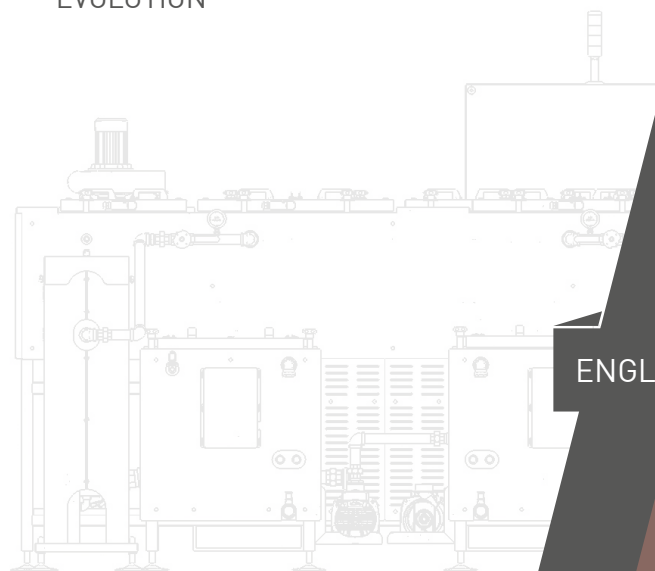




Teknox

METAL CLEANING
EVOLUTION



ENGLISH 

HIGH
QUALITY
guaranteed

HELP
DESK


MADE
IN ITALY

SINCE
1967

TUNNEL LINE



THE NEW TEKNOX APP

This application wants to be an additional tool that Teknox puts in place to improve and speed up the services and communication with its customers and the sales department.

Thanks to the application are available different services, such as: the form for the request of spare parts, the form for the data collection for new projects, the complete interactive catalogue with images, videos, technical data and much more.



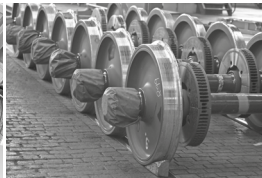
The company, born as SME in 1967, has become over the years the reference point in the field of piece washing.

Today the production includes:

- EQUIPMENT FOR WASHING PARTS IN THE MAINTENANCE DEPARTMENTS
- PLANTS FOR THE SURFACE TREATMENT OF PARTS IN PRODUCTION CYCLE



Car and motorcycle maintenance



Railway



Regeneration



Chemical industry and colour industry



Aerospace



Shipbuilding industry



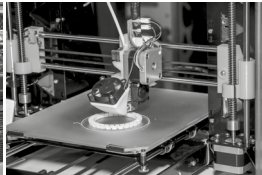
Petrochemistry



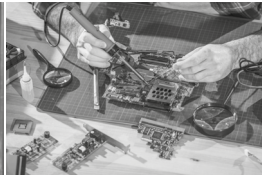
Composite materials



Printing industry



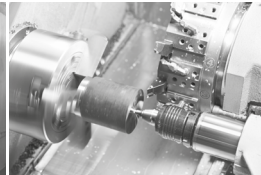
3D printing



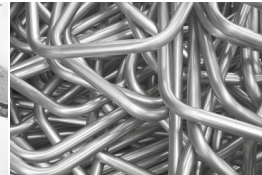
Electronics industry



Prepainting



CNC machining



Tube processing



Sheet metal stamping



Automatic lines



More than **50** years of experience

6000 sqm of plant

More than **10.000** machines produced

80+ Countries we export to

More than **40** employees

TUNNEL LINEAR

TUNNEL PLANTS ARE CHARACTERIZED
BY HIGH PRODUCTIVITY
AND FLEXIBILITY.

They are usually used in production where the quantity of pieces to be treated is very high and speed is a fundamental parameter. This plant is composed of several consecutive phases where the pieces pass through thanks to a motorized transport system.



SPRAY WASHING



VERSION

- HT (heating up to 80° C)



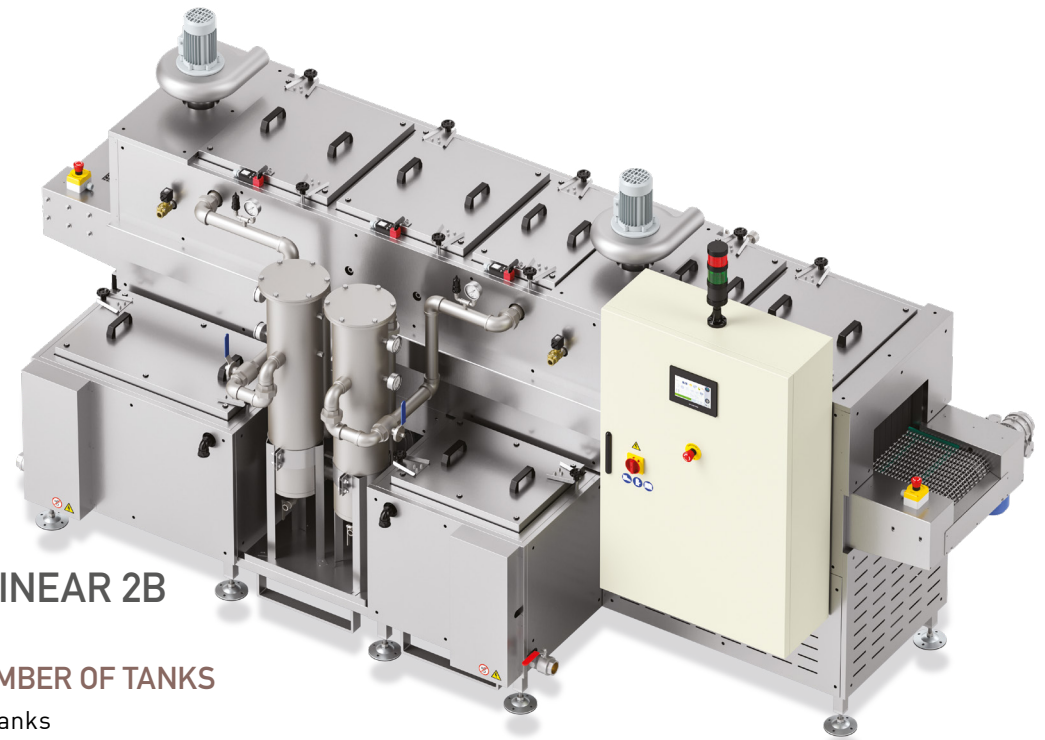
CONTROL

- PLC with colour touchscreen
- Option Industry 4.0



AREAS OF APPLICATION

- Mechanical / Aviation industry
- Surface treatment
- Electronics / Chemicals industry

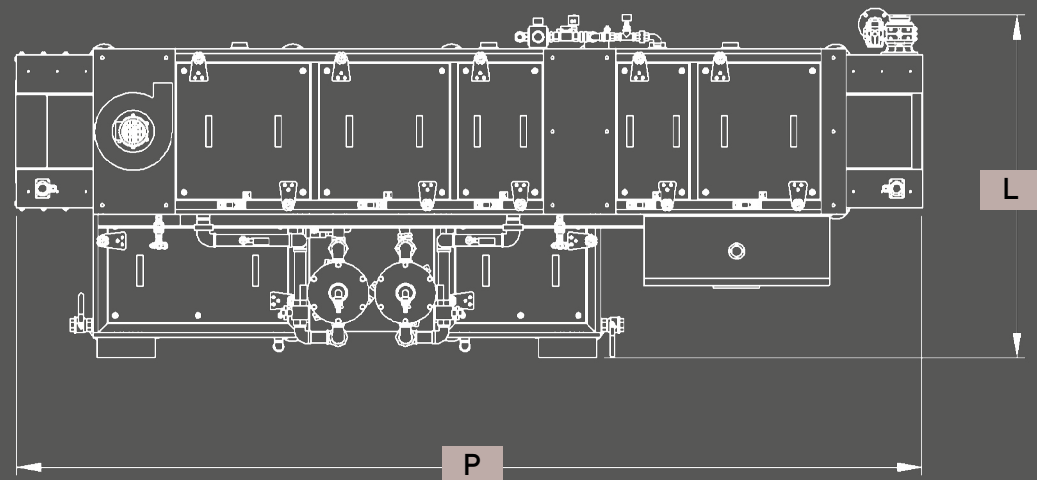


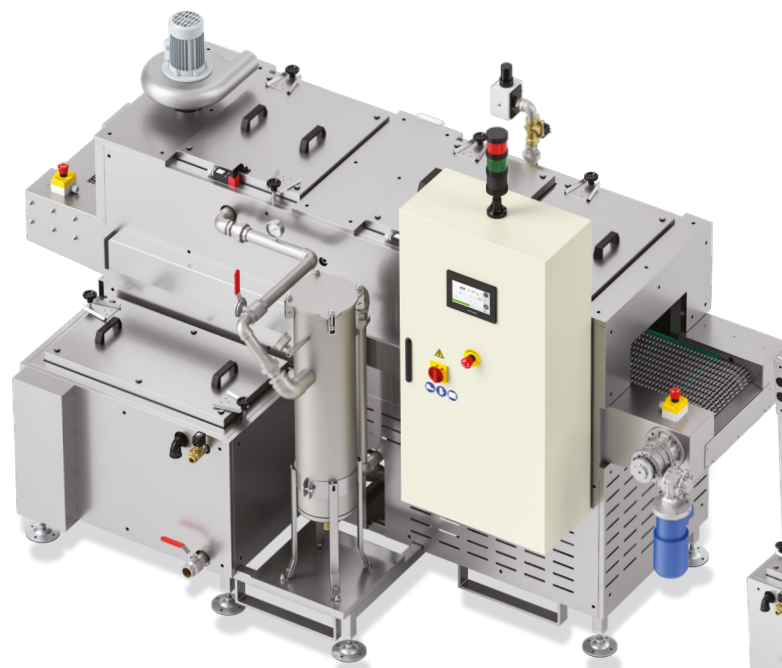
TUNNEL LINEAR 2B



NUMBER OF TANKS

- 2 tanks

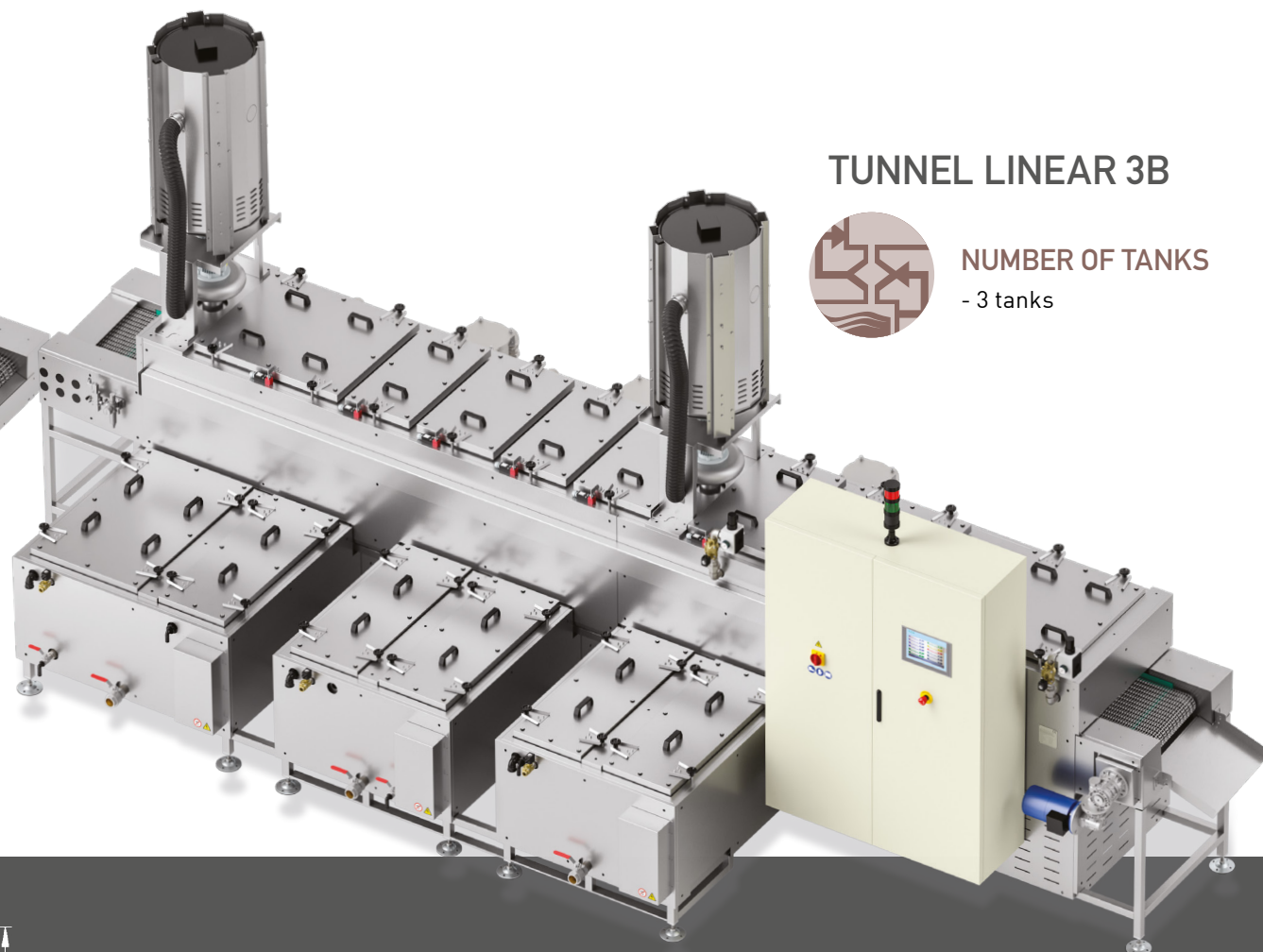




TUNNEL LINEAR 1B



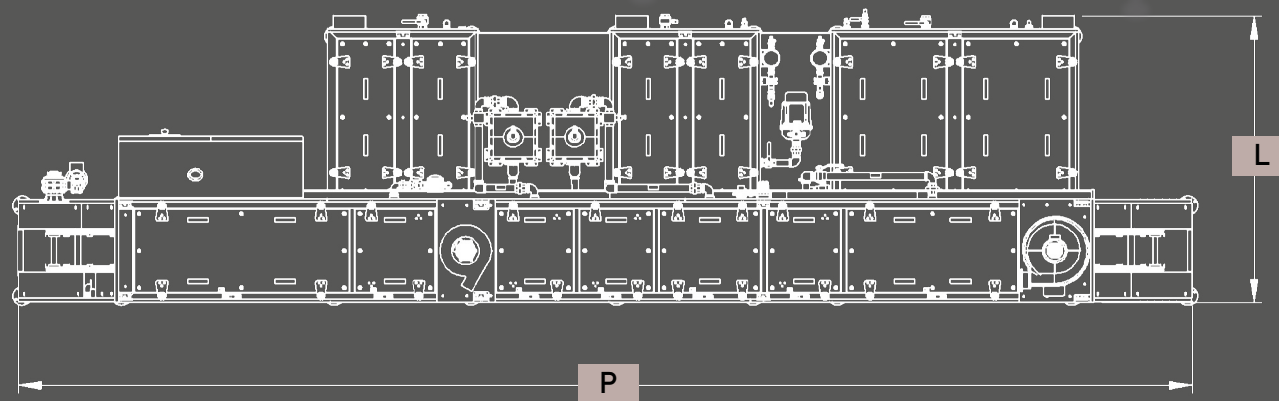
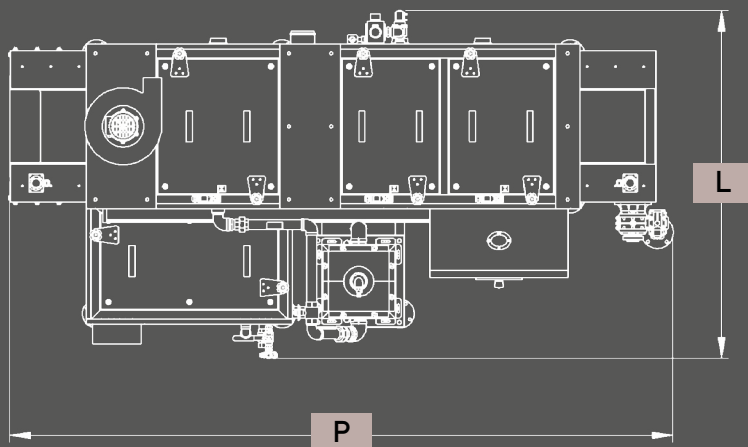
NUMBER OF TANKS
- Single tank



TUNNEL LINEAR 3B



NUMBER OF TANKS
- 3 tanks



TUNNEL LINEAR

TUNNEL OVAL

TUNNEL PLANTS ARE CHARACTERIZED BY HIGH PRODUCTIVITY AND FLEXIBILITY.

They are usually used in production where the quantity of pieces to be treated is very high and speed is a fundamental parameter. This plant is composed of several consecutive phases where the pieces pass through thanks to a motorized transport system. This version of Tunnel has a **MOTORIZED TRANSPORT SYSTEM ON OVAL ROUTE**, therefore useful when loading and unloading must be done in the same area.



SPRAY WASHING



VERSION

- HT (heating up to 80° C)



CONTROL

- PLC with colour touchscreen
- Option Industry 4.0



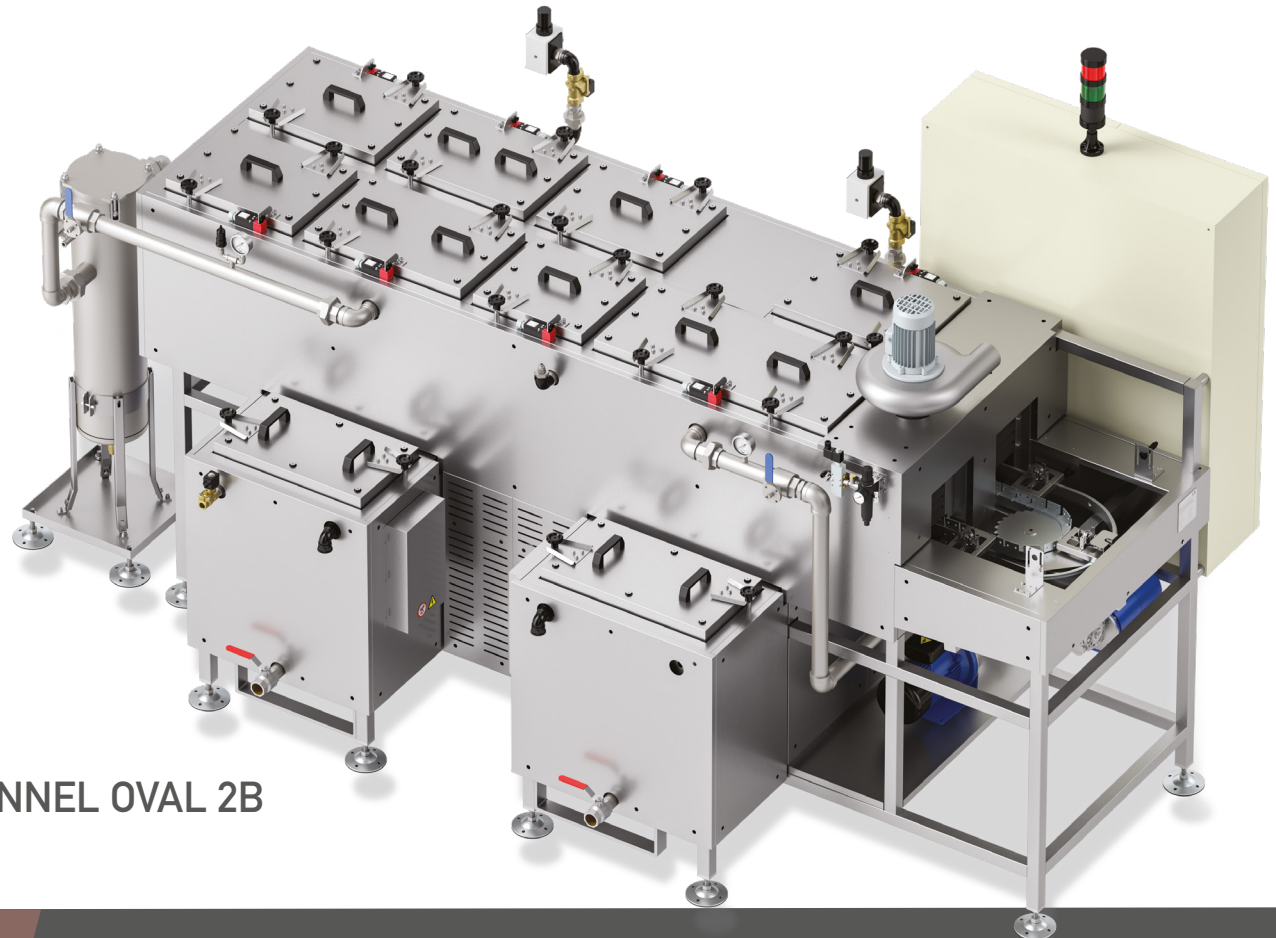
AREAS OF APPLICATION

- Mechanical / Aviation industry
- Surface treatment
- Electronics / Chemicals industry

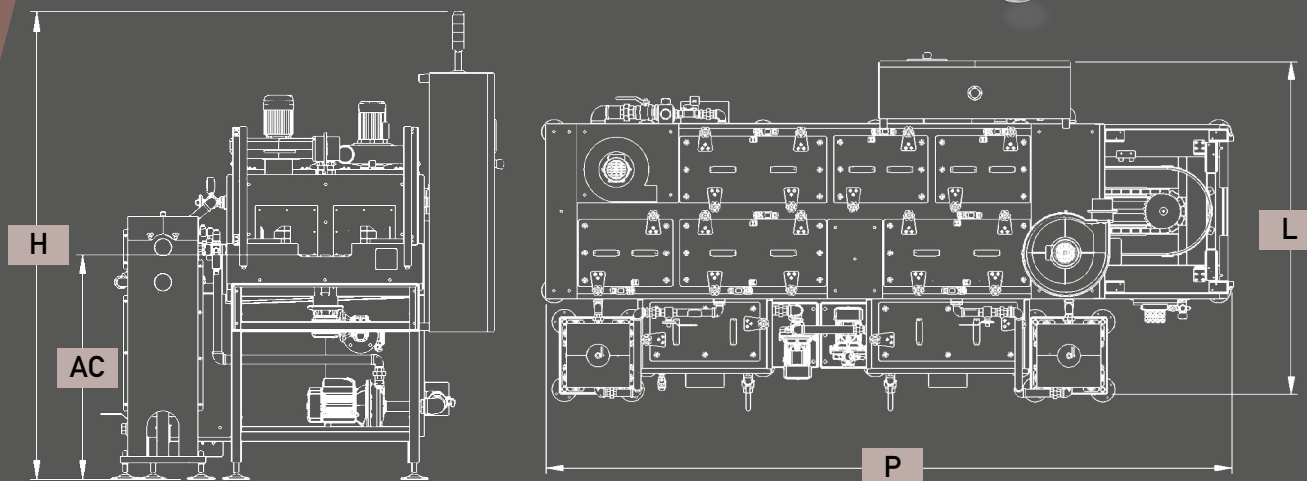


NUMBER OF TANKS

- Single tank
- 2 tanks
- 3 tanks



TUNNEL OVAL 2B



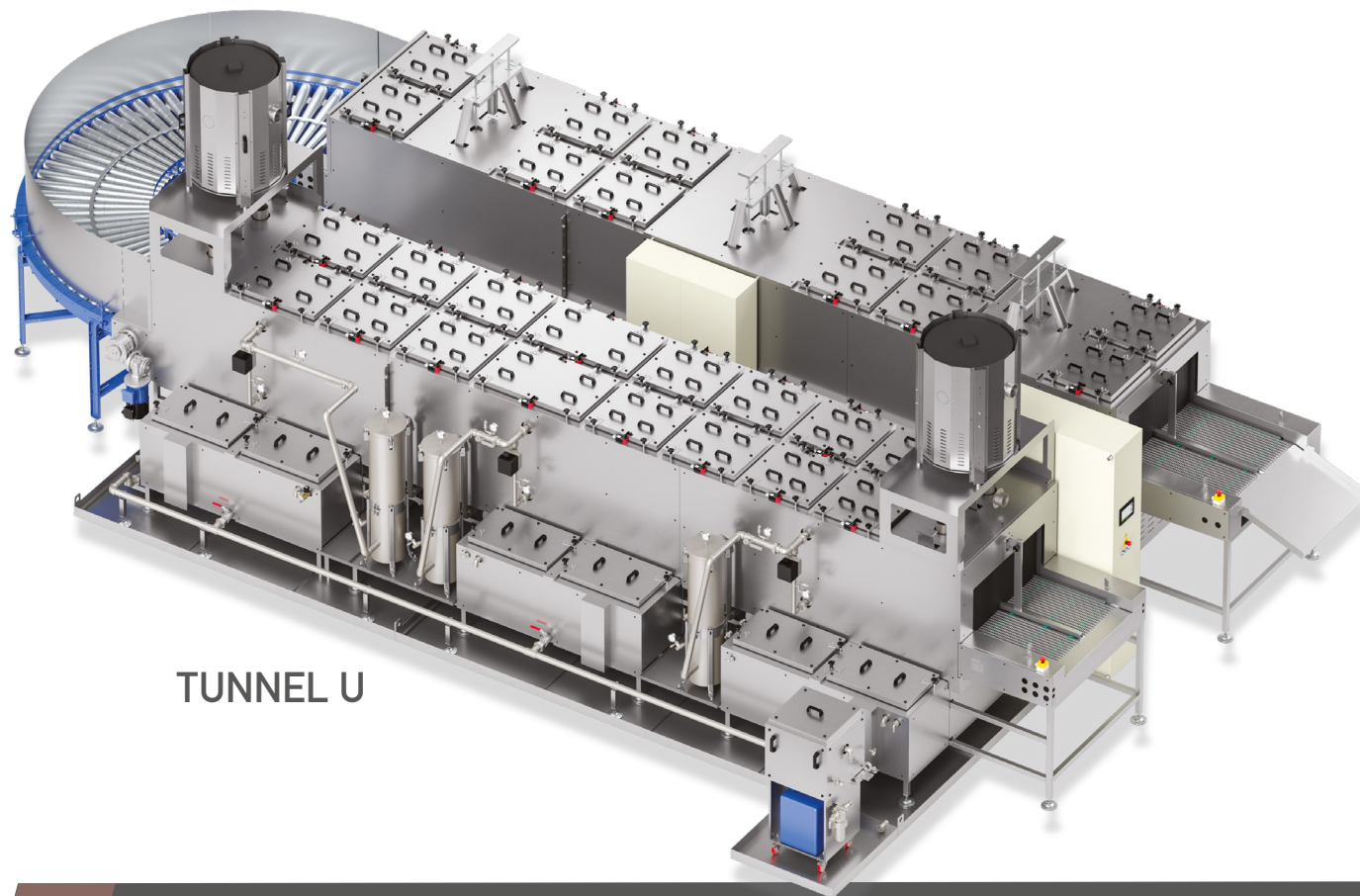
TUNNEL U

TUNNEL PLANTS ARE CHARACTERIZED BY HIGH PRODUCTIVITY AND FLEXIBILITY.

They are usually used in production where the quantity of pieces to be treated is very high and speed is a fundamental parameter.

This plant is composed of several consecutive phases where the pieces pass through thanks to a motorized transport system.

This version of Tunnel has a **U-SHAPED MOTORIZED TRANSPORT SYSTEM**, therefore useful when loading and unloading must be done in the same area.



TUNNEL U



SPRAY WASHING



VERSION

- HT (heating up to 80° C)



CONTROL

- PLC with colour touchscreen
- Option Industry 4.0



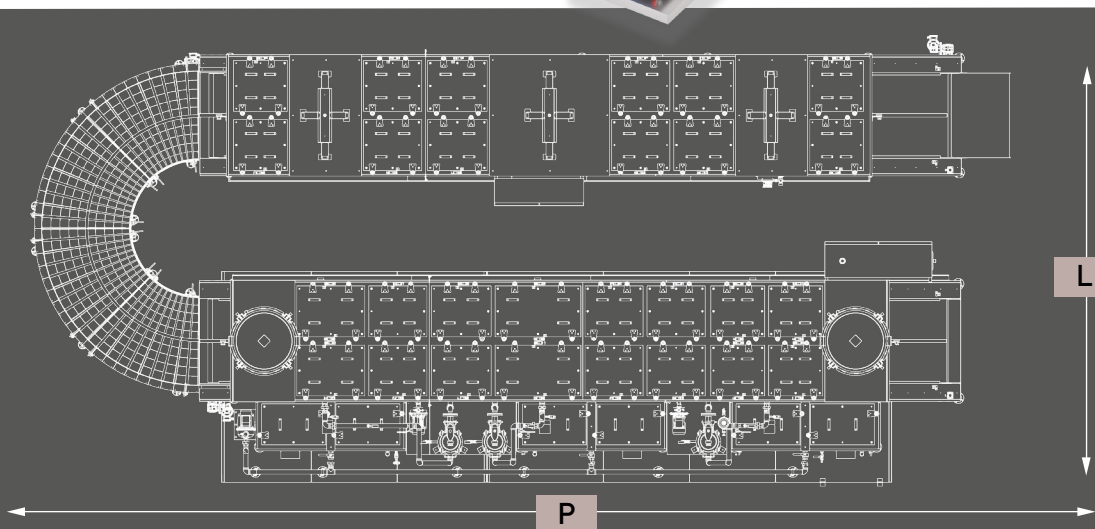
AREAS OF APPLICATION

- Mechanical / Aviation industry
- Surface treatment
- Electronics / Chemicals industry



NUMBER OF TANKS

- Single tank
- 2 tanks
- 3 tanks



TECHNICAL FEATURES

- Timed electric exhaustion of steam
- Siemens® electric power parts
- 7" color touchscreen display for settings and programs
- Box filter made up of 6 Aisi 304 SS vertical filters for pre-filtration of the liquid
- Aisi 304 stainless steel filter in pump intake
- Structure and sheet metal in contact with liquid in Aisi 304 stainless steel
- Minimum level switch
- Pressure gauge for control of pressure delivered
- Safety limit switch on cover opening
- Forward progress via gearmotor (speed adjustable by inverter)
- Adjustable feet
- Stainless steel electric pump with special seals
- Manually adjustable washing pressure
- Weekly programming to start heating and deoiler (if installed)
- IP65 electrical system, management via PLC touchscreen (DGT V4)
- Heating of the liquid with stainless steel electric heating element
- Internal welding bleaching
- Tanks accessible from the outside
- Stainless steel bottom section load-bearing structure
- Aisi 304 stainless steel washing pipelines with professional stainless steel flat nozzles
- Drain valves for emptying tanks
- Manual water filling valve
- Signal tower for indicating system status

PIECES LOADING AND UNLOADING MODES

During the configuration phase it is possible to define different loading and unloading modes of the pieces in line, including:

Loading Mode

- Manual by operator
- Automatic from the customer's conveyor belt or slide
- Automatic by customer manipulator / robot

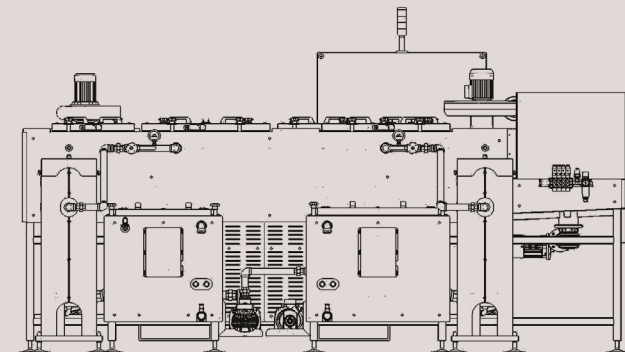
Unloading Mode

- Manual by operator
- Slide
- Automatic on the customer's conveyor belt or slide
- Automatic by customer manipulator / robot

SUPPORT TYPES

Based on the type and shape of the pieces to be treated and the loading and unloading method, it is possible to configure the support of the parts in different ways:

- On flat stainless steel conveyor belt
- On inclined stainless steel conveyor belt
- On conveyor belt with cross separators (for example for washing tubes and profiles)
- On simple stainless steel chain or with dedicated supports
- On dedicated pallets, designed specifically on the shape of the piece



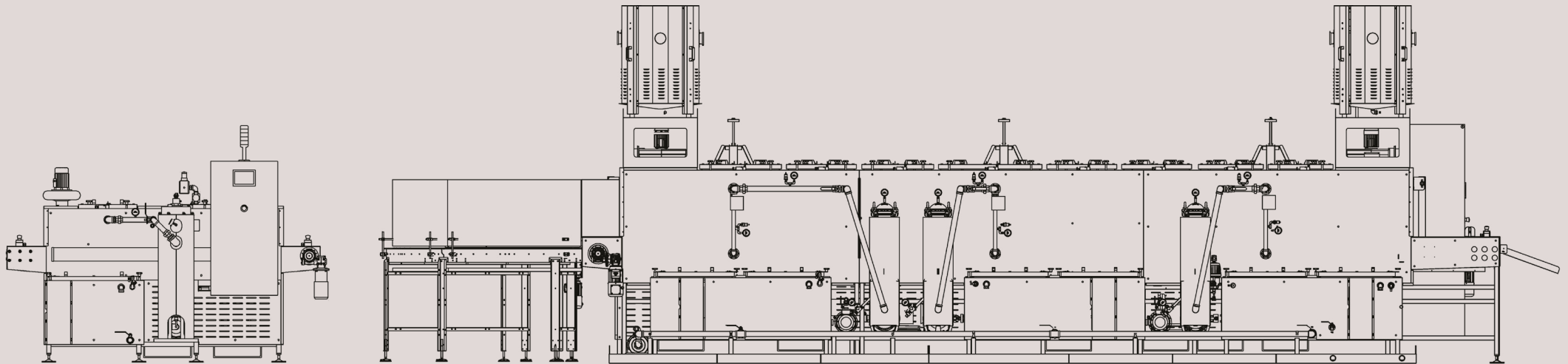
PHASES CONFIGURATION

To meet the perfect process treatment, Tunnel machines can be configured with the one or more of the following stages:

- Piece loading
- Vapors extraction
- Spray washing
- Spray rinsing with demineralized water
- Spray rinsing with antioxidant protection
- Blowing with compressed air
- Hot air drying oven
- Pieces cooling
- Piece unloading

ACCESSORIES

- Maximum liquid level controls and filling solenoid valves
- Demineralizer with mixed resins and conductivity meter
- Separate remote electrical cabinet
- Safety light curtains in loading area and/or unloading area
- Centrifugal steam condenser
- Automatic liquid detergent dispensers
- Disc oil separator with dedicated motorization
- External pneumatic oil separator
- Bag filters in stainless steel
- Magnetic spark plug for bag filter for steel contaminants
- Device for remote connection and remote support for HMI Weintek
- Kit for Industry 4.0
- PLC and HMI Siemens®
- Circulating pump from most clean tank to most contaminated tank
- Interface with robot/automation in loading and/or unloading area
- Tanks emptying pump
- Signal tower indicating system status
- Workpiece presence photocell in loading and/or unloading area





SURFACE

CHEMICAL

CHEMICAL S

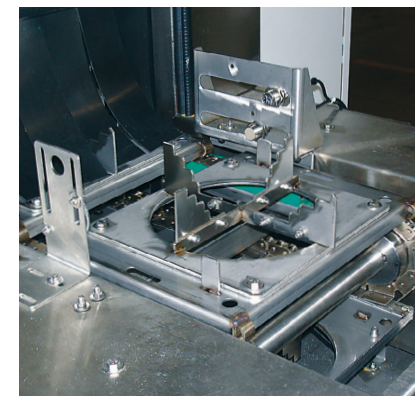
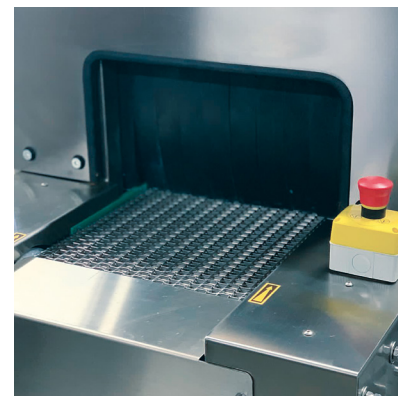
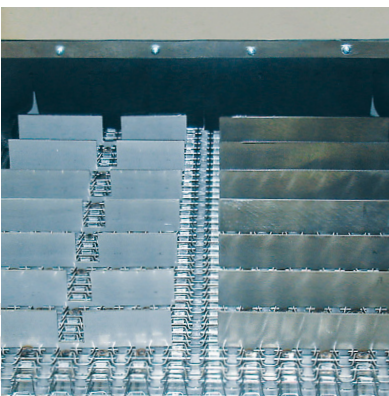
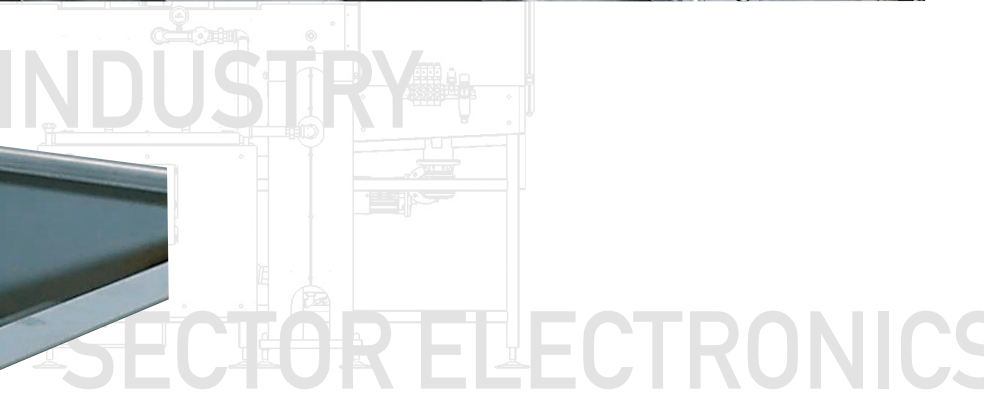
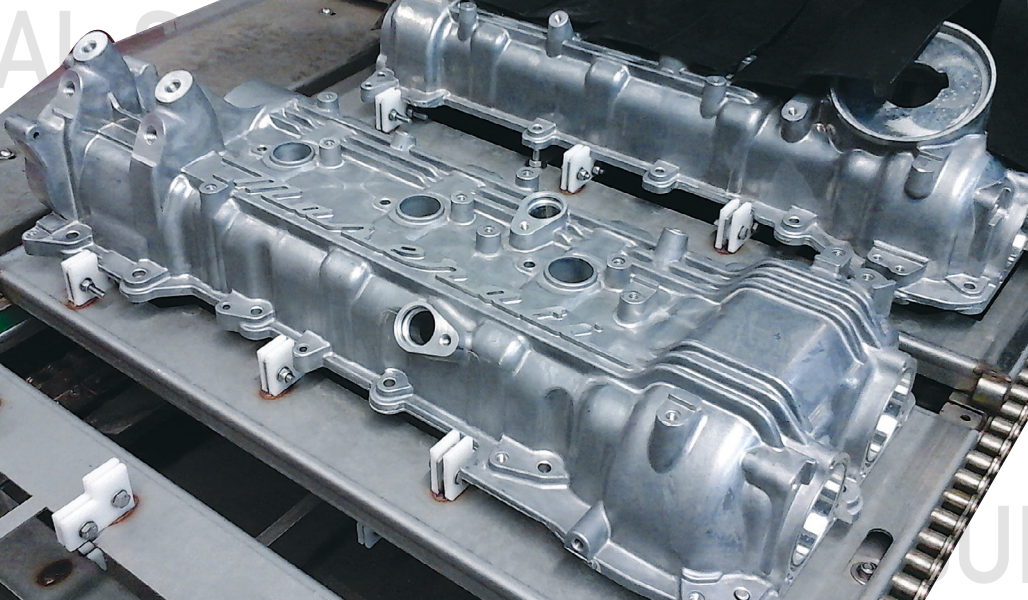
CAL SECTOR MECHANICAL

CAL INDUSTRY AVIATION

AVIATION

HIGH PRODUCTIVITY

CHEMICAL



TOTAL FLEXIBILITY



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TUNNEL LINE



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TEKNOX ITALY

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