

TUNNEL

MULTISTAGE METAL CLEANING TUNNEL FOR COMPLEX AND SERIES PRODUCED MECHANICAL COMPONENTS

The machine consists of several treatment chambers for washing, rinsing, blowing and drying.

They can be single or multi-stage with final drying according to needs.

All operations are performed automatically on the parts as they move along the conveyor belt.

LINEAR AND OVAL CONVEYOR TUNNELS

FOR THE TREATMENT OF VARIOUS SHAPES AND SIZES WITH MIXED POSITIONING

LINEAR AND OVAL STEP-BY-STEP PALLET CONVEYOR TUNNELS

FOR THE CUSTOMIZED TREATMENT OF TECHNOLOGICALLY COMPLEX PARTS

PIPE TUNNELS

FOR THE INTERNAL AND EXTERNAL TREATMENT OF PROFILES OF VARIOUS SHAPES AND SIZES

LOW TEMPERATURE LT

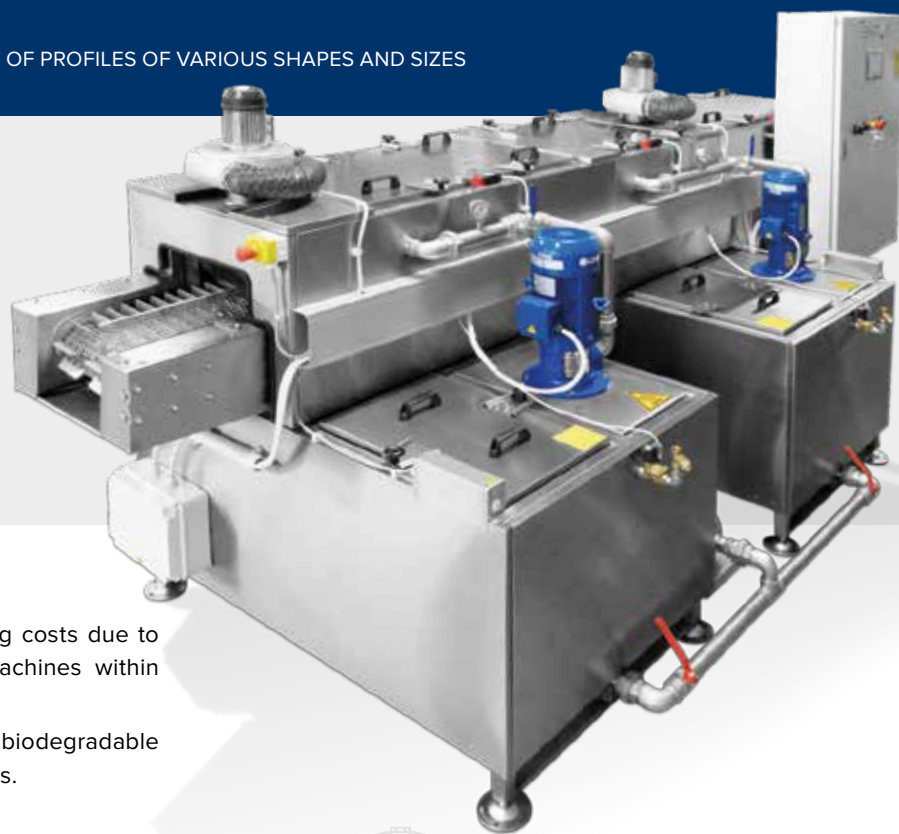
Maximum temperature setting 60°C

HIGH TEMPERATURE HT

Maximum temperature setting 80°C

ADVANTAGES

- Reduction of operating and manufacturing costs due to the possibility of incorporating these machines within automatic production areas.
- Reduction of costs through the use of biodegradable environmental friendly chemical detergents.
- High degree of washing cycle automation.
- Optimisation of treatment parameters without the need for constant monitoring by specialised operators.
- The opportunity to treat “technologically complex” components characterised by high production quantities and high final quality requirements.
- The opportunity to increase productivity and improve the efficiency of each production line.



LINEAR TUNNELS



INTEGRATED AUTOMATION INTEGRATED AUTOMATION



OVAL TUNNELS



PIPE TUNNELS

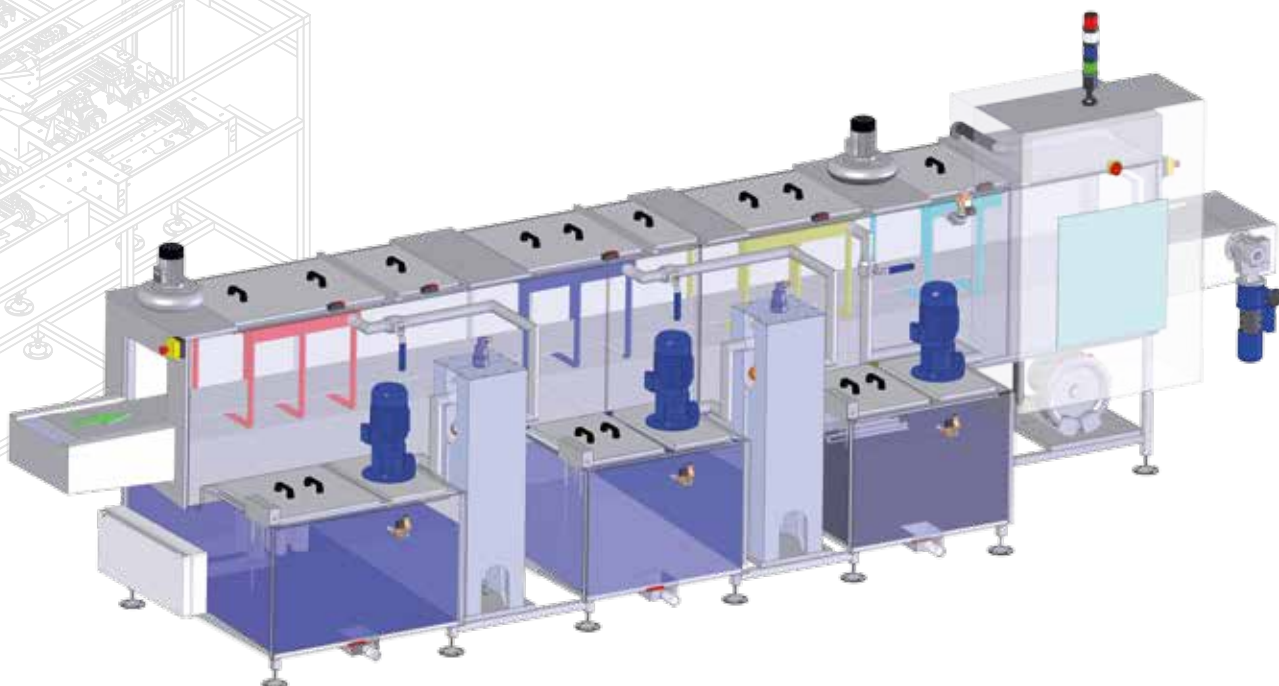
EQUIPMENT

Standard

- Electrical vapour extraction
- Feeding via gearmotor (inverter-controlled adjustable speed)
- Light curtain barrier at outlet (in case of manual unloading)
- Full Stainless Steel insulation to reduce operating costs
- Siemens electrical components
- Minimum level probe of liquid in the tank to protect the pump and resistance
- Maximum level probe of liquid in the tank and automatic water filling solenoid valve
- Electric pumps made of Aisi 304 Stainless Steel with special gaskets for high pressures and flow rates.
- Box filter with 6 hat filters made of Aisi 304 Stainless Steel for pre-filtering the liquid returning to the washing tank.
- Pump intake filters made of Aisi 304 Stainless Steel
- Electrical system IP65, touch-screen PLC (DGT V4) control
- Weekly schedule to turn on heating and the oil separator (if installed)
- Electrical heating resistances made of Incoloy Stainless Steel
- Safety sensors to ensure operator safety when using the machine
- Structure and sheet metalwork made of Stainless Steel
- Laser-machined washing/rinsing pipes made of Aisi 304 Stainless Steel

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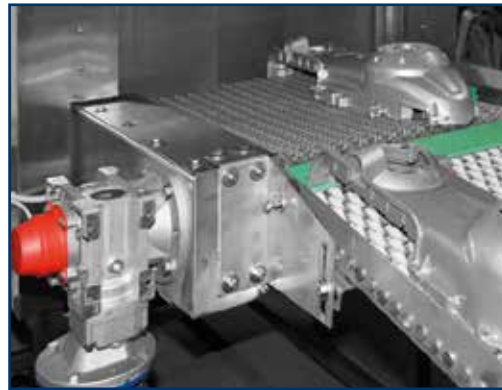
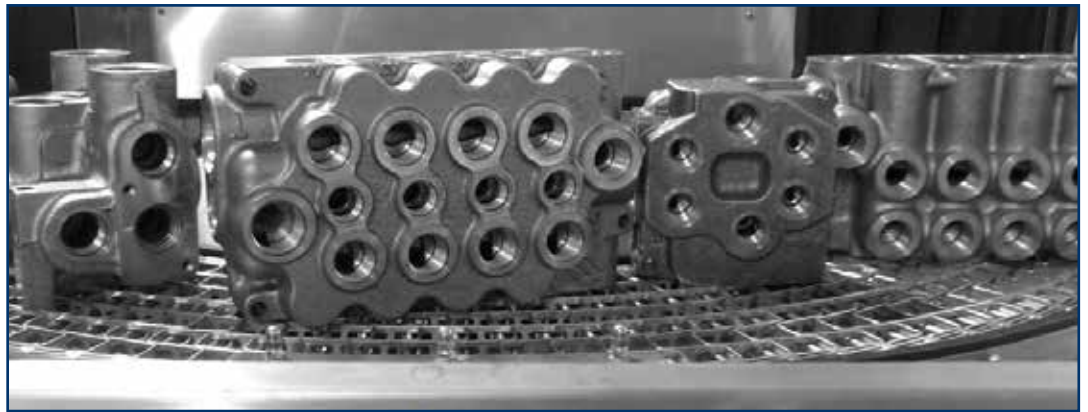
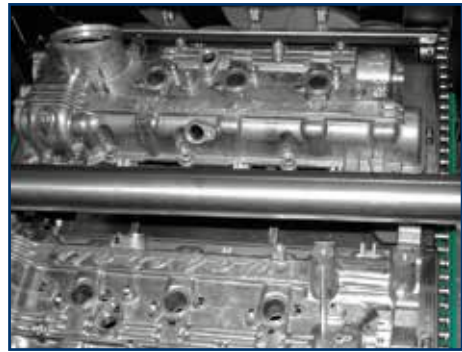
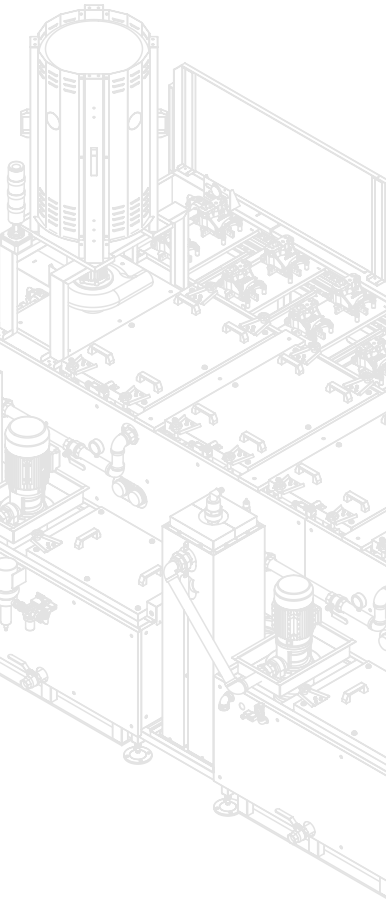
MULTISTAGE METAL CLEANING TUNNEL
FOR COMPLEX AND SERIES PRODUCED
MECHANICAL COMPONENTS



ACCESSORIES

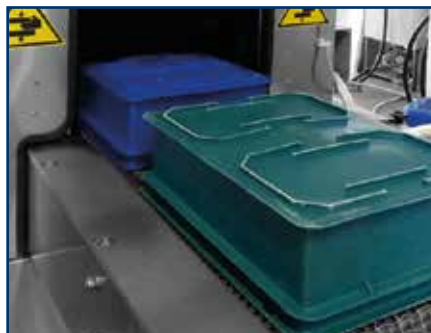
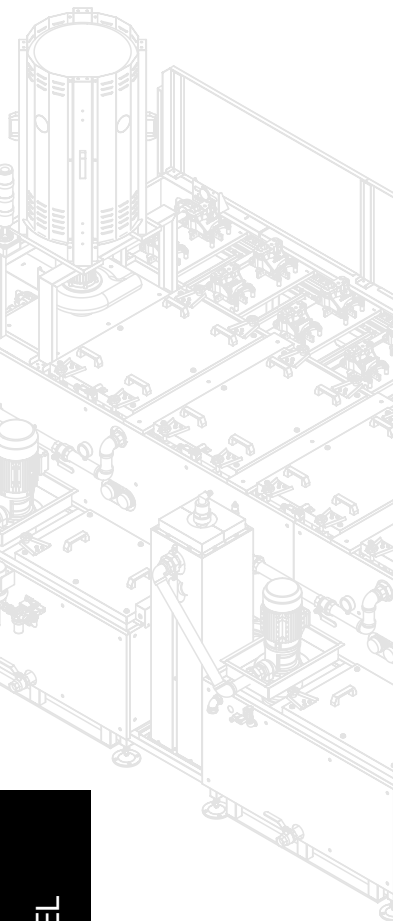
- Additional customisations on request
- Separate remote electrical cabinet
- Step conveyor feeder with dedicated pallets
- Light curtain barriers at the loading and/or unloading stage
- Electric vapour condenser for lowering the quantity of vapour given off (page 39)
- Disoil P LT or HT (page 40)
- Disc oil separator with dedicated gearmotor
- Separation of parts to be washed into parallel rows with linear guides
- Chemical product doser
- Bag filter with thermal insulation
- Robot interface for automatically loading parts
- Robot interface for unloading parts (only for pallet tunnels)
- PLC Siemens S1200 – HMI Siemens KTP touch-screen
- Tank emptying pump
- High pressure washing pump
- Customized treatment station, pause in position, pneumatic flushing
- Customizations for use with strongly caustic chemical products
- Designed for the removal of abrasive contaminants from the treated components
- External fittings made of stainless steel
- Ramps with high flow pump
- Heating with diesel or natural gas burner
- Pickling of internal welding
- Sheet metal unloading chute
- Part presence/absence detectors
- Stack light for indicating system status
- Models with other supply voltages
- System retention tank made of Aisi 304 Stainless Steel





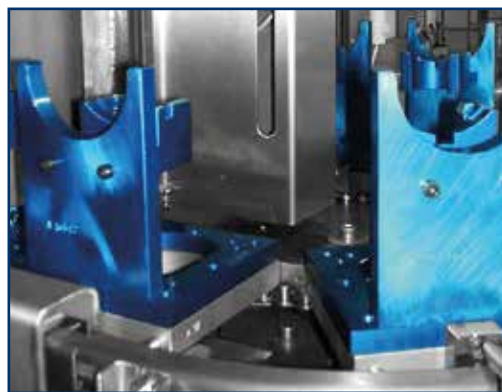
AUTOMATION

INTEGRATED
AUTOMATION



TUNNEL

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AUTOMATION

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