SINCE 1951

KOVO FINIŠ

PAINT SHOPS
GALVANIC LINES
WASTE WATER TREATMENT PLANTS
VACUUM EVAPORATORS







| RESEARCH | DESIGN | PRODUCTION | INSTALLATION | SERVICE |

Introduction



- KOVOFINIŠ is a modern Czech company with a tradition dating back to 1951. During its existence KOVOFINIŠ has successfully implemented projects all over the world. Our company has its own technical, development and production facilities. Thanks to the continuous development of know-how, we are the leading European manufacturer of equipment for surface treatment and disposal of industrial waste water. All the equipment we supply is designed with the environment in mind and according to the customer's needs.

- The KOVOFINIŠ company premises consist of an administrative building, production facilities, warehouses and a canteen. The production facilities cover 17,500 m^2. The production area includes - electroplating coating line, painting line, research laboratory and waste water treatment plant.

- The quality of all levels of the company's management is certified by the quality system according to ISO 9001 in the branch of Surface Treatment and Wastewater Treatment. The company's environmental management is certified according to ISO 14001. KOVOFINIŠ is also a holder of the German WHG certificate.

Introduction

Our product portfolio consists of turnkey technological solutions for:

- Surface pretreatment
- Galvanic and chemical surface treatment
- Degreasing
- Spray painting
- Dip painting
- Waste water treatment



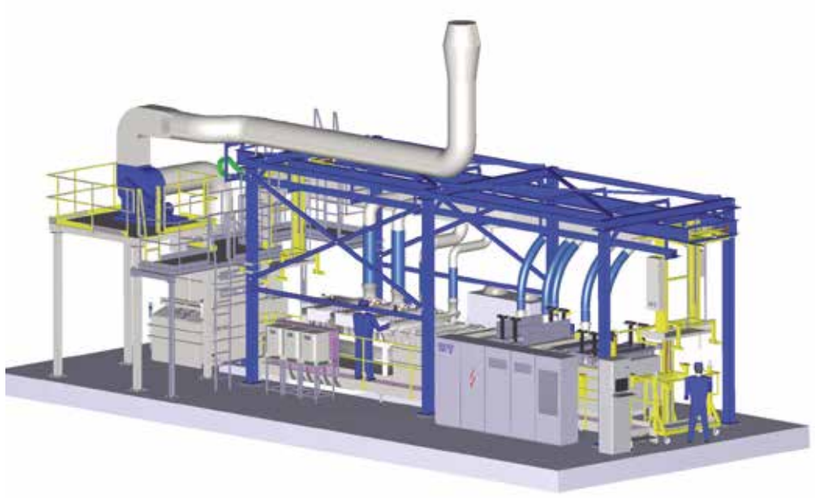


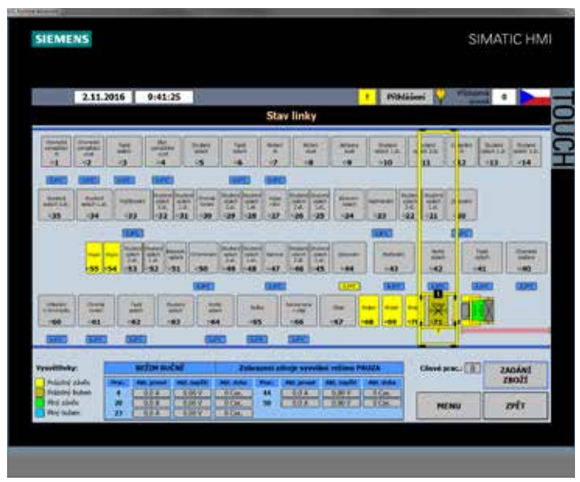
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Services

- Technology proposals and quality checks in relation to specific customer requirements and needs
- Project outline incl. documentation for negotiation with government or local authorities
- Drafts for building works
- Planning, design and efficient construction process
- Production, delivery and installation incl. commissioning
- Auditor’s reports
- User and maintenance staff training
- Operation and maintenance instruction incl. technical documentation
- Participation during Test Run Operation
- Service
- Commercial-financial services
- Consulting
- Process automation systems including free programmable treatment programs and visualisation









Project life cycle



Research and Development

Our experienced and skilled specialists keep up and develop new technologies. We are able to apply brand new technologies to suit customer needs.

There are three specialized workplaces in our facilities. The first one is our own research laboratory, where we analyze customer's samples and design customized solutions. The second one is galvanizing line, where we verify effectivity and efficiency of designed technology on customer's goods. This galvanizing line also serves for cooperations with our partners. The third facility is our own powder painting line and paintshops, where we paint our products.

Engineering and Design

We have technical specialists for:

- Surface pretreatment and degreasing systems
- Galvanic and electroplating systems
- Electrical engineering and designing
- Programming
- Painting
- Transport and conveyor systems
- Waste water treatment

We use modern CAD systems, which promote high productivity and flexibility of project development. Our team of programmers is ready to implement customer demands for control systems on Siemens platform. Our control systems enable changes in program for each batch. The visualization and archiving of the technological process is matter of course.





Production

Our wide production facilities enable contract realization on very short notice. We take advantage of high quality in processing of stainless and carbon steel and plastics. To achieve highest quality features of our products we have state of the art equipment.

Installation

To reduce the installation period, we insist on precise pre-assembly in our factory prior to installation on-site. Long-time experienced and qualified workers are guarantee of a smooth installation on-site. Our delivery also includes commissioning and training of operating staff. We help our customers with production start-up and with solving operational problems.

Service

We provide quick and high quality service during and after warranty period. Regular professional maintenance significantly prolongs operating lifetime of delivered facilities. Preventive maintenance inspections help to prevent breakdowns and to save costs from interruption of production.

Chemical and electrochemical surface pretreatment

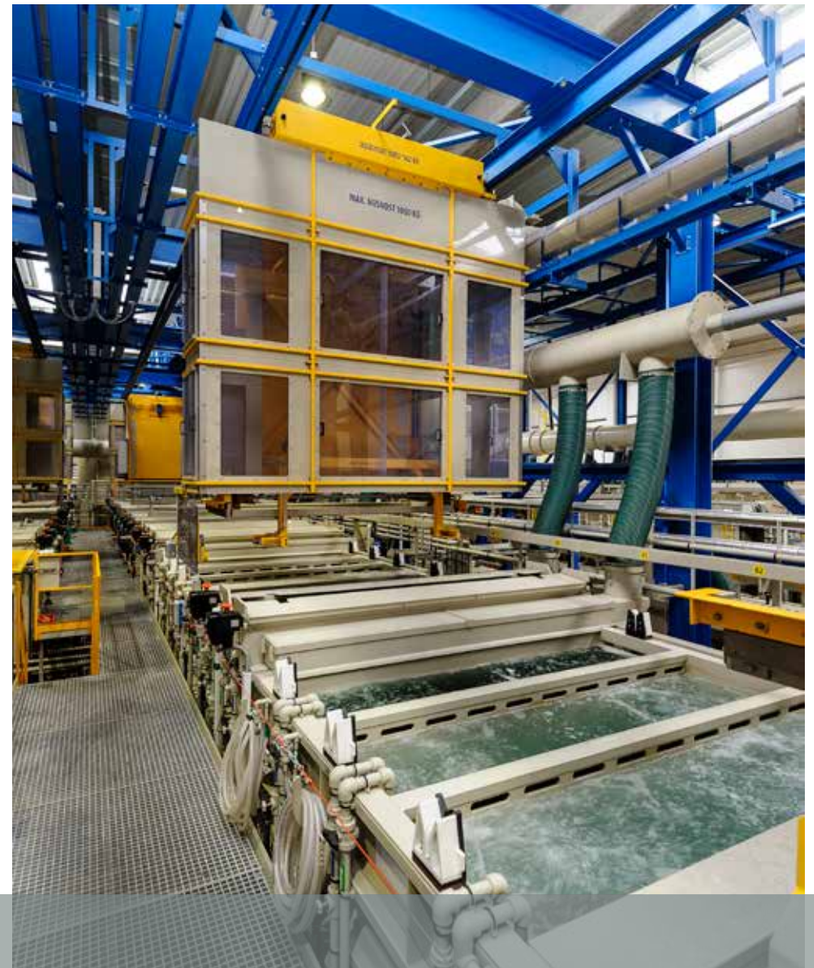
Devices for pretreatment prior:

- Polishing
- Cold forming
- Electroplating
- Hot-dip galvanizing
- Paint coating

Devices for:

- Degreasing
  - Chemical
  - Electrolytic
  - Ultrasonic
- Pickling of
  - Steel
  - Non-ferrous metal, light metal and their alloys
- Phosphating
  - Zinc and multi-cationic
  - Iron phosphating
- Aluminium pretreatment
  - Chromate treatment
  - Chrome-free conversion coatings
- Stripping of
  - Paint
  - Metal
  - Alloy coatings





Equipment:

- Barrel-type cleaning machines
- Spray and immersion cleaning machines with compact design
- Passage-type spray cleaning machine
- Spray booths
- Degreasing and cleaning boxes
- Automatic lines and tank equipment
- Parts for surface pretreatment lines

Chemical surface treatment

Devices for:

- Metal dyeing (metal blacking etc.)
- Passivation
- Preservation
- Chemical metal plating
  - Nickeling
  - Coppering
- Phosphating
  - Manganese
  - Thick-coated

Galvanizing and electrochemical surface treatment

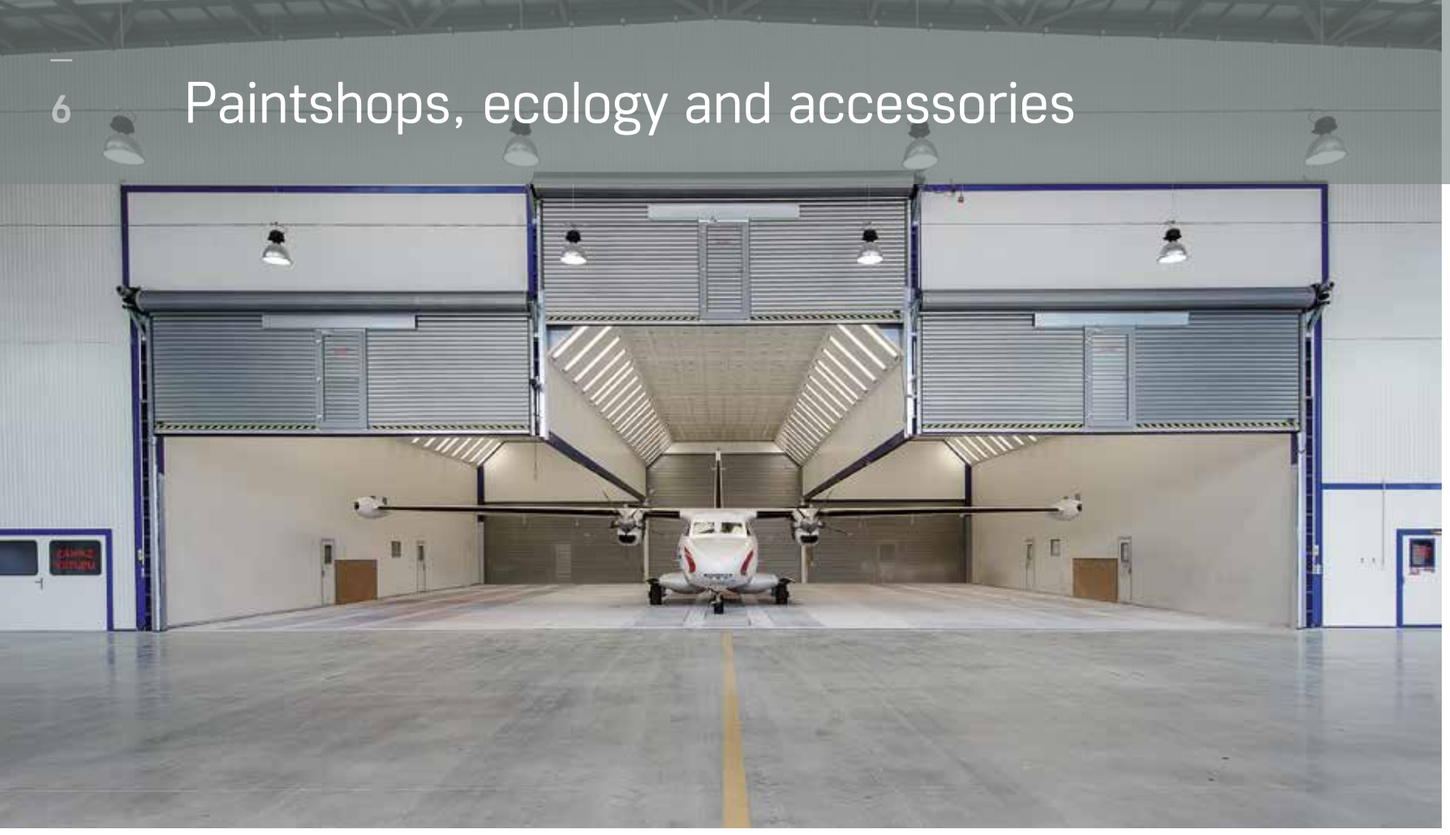




We offer galvanizing plants for electrochemical surface treatments:

- Zinc plating including after-treatment
  - Chromating
  - Chrome-free passivation and sealing
- Zinc alloy plating
  - Zinc-nickel
  - Zinc-iron
- Hexavalent chromium free applications
- Copper plating
- Chromium plating
  - Decorative
  - Hard chrome plating
- Nickel plating
  - Dull
  - Semi-gloss
  - Bright
- Tin alloy plating
- Precious metal plating
  - Gold
  - Silver
- Aluminium anodizing
  - Decorative
  - Chrome
  - Hard
- Electrolytic polishing

Paintshops, ecology and accessories





Delivery of equipment:

- For paint coating
  - Water-based
  - Organic solvent-based
  - Powder
- With separation system
  - Dry-type
  - Wet-type
- Glaze-coating machines, high-pressure spraying
- Dryers and furnaces
  - Electrical
  - Gas
  - Infra-red
- Air supply and air exhaust units including filtration
- Accessories
  - Pressure containers
  - Degreasing boxes
  - Mixing equipment
  - Setting tunnels
  - Pressure air regulation and cleaning units
- Modification of existing booths for new transport systems such as overhead conveyors
- Conveyors and transport systems

Dip painting



Equipment for painting:

- Dip painting
- Electrophoretic coating
  - Anaphoretic coating (ATL)
  - Cataphoretic coating (KTL)

Scope of delivery

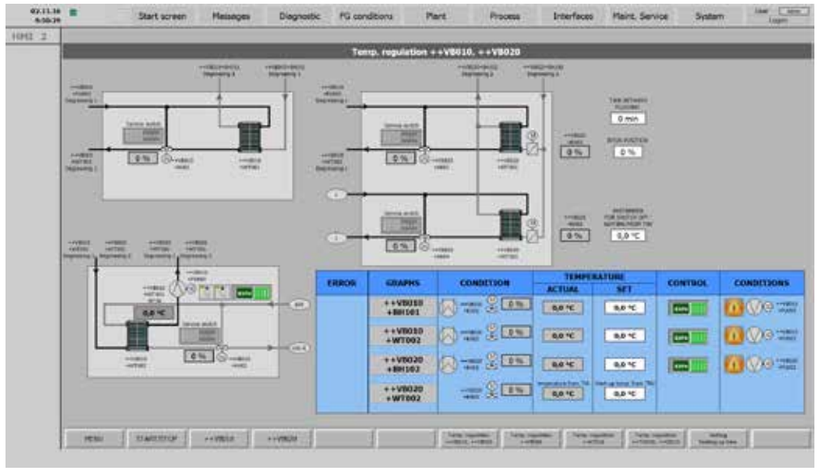
Our delivery includes:

- Turn-key fully automatic lines and plants with controlled loading and unloading sections
- Program controlled processing and transport systems
- Rack or barrel lines
- Manually controlled lines
- Lines with hoist or conveyor transport systems
- Galvanizing tanks for manual operation
- Accessories:
  - rack and barrel equipment
  - bath preparation units
- Bath maintenance and regeneration: automatic additive dosing, automatic oil separation, filtration, selective cleaning (Nickel bath), sludge separation equipment for phosphating baths
- Program control, program modification, process visualization and archiving









Waste Water Treatment Plants

We have suitable solutions for individual customer needs and requirements for waste water treatment. We know proper legislation concerning environmental regulations. Our plants and equipment set the highest standard in environmental care.

For waste water treatment with content of:

- Acids and alkalines
- Oil, grease and other petroleum products
- Cyanides
- Hexavalent chromium
- Nitrites
- Oxidants and reducers
- Heavy metals and other metals
- Complex-forming agents
- Harmful anions
  - Phosphate
  - Fluorides
- Ammonia ions
- Over-spray treatment from paintshops
- Dispersed agents
  - Teflon
  - Graphite





Area of application:

- Galvanic processes
- Chemical processes
- Electrical industry
- Glass industry
- Paintshops including pretreatment
- Degreasing processes

Waste Water Treatment Plants



Plants and equipment:

- Turn-key automatic waste water treatment plants
  - Continuous
  - Batch
- Demulsifying plants
- Chemical dosing and preparation units
- Sludge separators
- Filters
  - Sand
  - Belt
  - Sorption
- Ion exchangers
- Flotation units
- Zero Liquid Discharge systems with the use of
  - Microfiltration
  - Ultrafiltration
  - Reverse osmosis
  - Vacuum evaporators
- Reactors and storage tanks
- Program process control
- Process visualization and archiving





We also provide:

- Technological suggestion and verification in our research laboratory
- Chemical-technological calculations for approval negotiations
- Assistance with government approval negotiations

Ecology

Our environmental solutions reduce harmful impacts on environment and minimize the amount of waste water, exhalation and sludge production with:

- Optimizing solution for rinsing systems
- Recirculating and regenerating baths
- Absorbing gaseous substances

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