

AQUA[®] SPP

Professional quality for future generations

COATING – BLASTING – METALLIZATION – RESTORATION



ČSN EN ISO 9001:2016



ČSN EN ISO 14001:2016

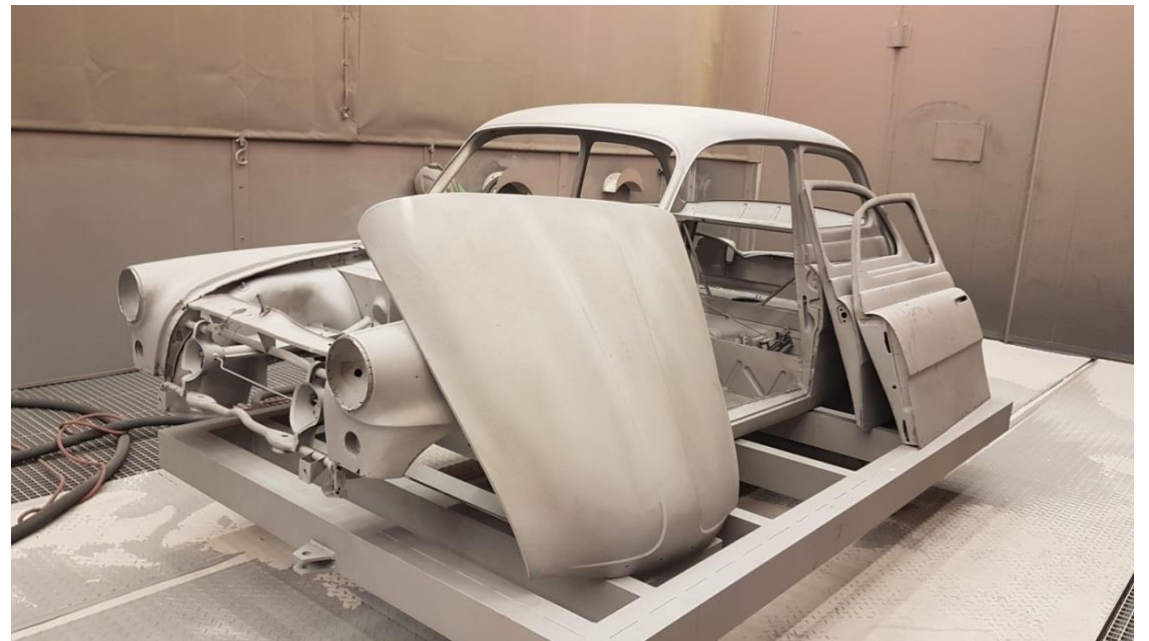
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The background of the slide is a grayscale photograph of an industrial facility. On the left, there is a multi-story building with a series of windows. To the right, there is a large, complex piece of industrial machinery, possibly a conveyor system or a large-scale processing unit, with various pipes and structural elements. The overall scene suggests a manufacturing or industrial environment.

ABOUT US

- ON THE MARKET SINCE 1995
- INITIALLY THE COMPANY SPECIALIZED IN DIVING WORK AND GRADUALLY GROWN TO INCLUDE THE CURRENT OFFER OF POWDER COATING, WET COATING, BLASTING, METALLIZATION AND RESTORATION WORK
- OUR CUSTOMERS ARE FROM THE CHEMICAL, ENERGY, MECHANICAL, MARINE AND CONSTRUCTION INDUSTRY





DESCRIPTION OF THE AREA

- 4500 m² ACTIVE AREA
- 10 MIN AWAY FROM THE D8 MOTORWAY
- NEW MULTIFUNCTIONAL HALLS
- OWN DRIVEWAY TO THE AREA, ADJUSTED FOR OVERSIZED CARGO
- EXPANSION AND MODERNIZATION OF EXISTING TECHNOLOGICAL EQUIPMENT, POSSIBILITY OF PROCESSING OVERSIZED CONSTRUCTIONS (60 TONS)
- THE POSSIBILITY OF ACCELERATING THE MATURATION OF THE COATING SYSTEM – THERMO VENTILATION UNITS



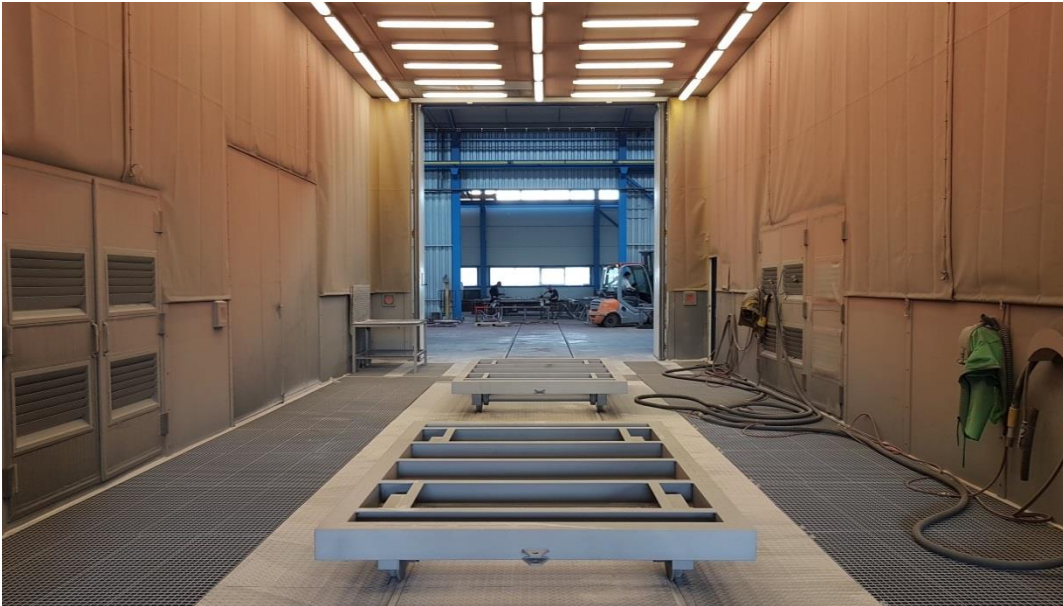
BLASTING

BLASTING BOX FOR NON FERROUS ABRASIVE

CORUNDUM

- The box dimensions are 15 x 6 x 5 m
- The unique design of the system of halls makes it possible to extend the length of the blasted objects up to the double length of the box
- It is possible to extend the length up to 30 m
- The abrasive gets fully removed and the air is filtered (minimum 25 000 m³/ h)





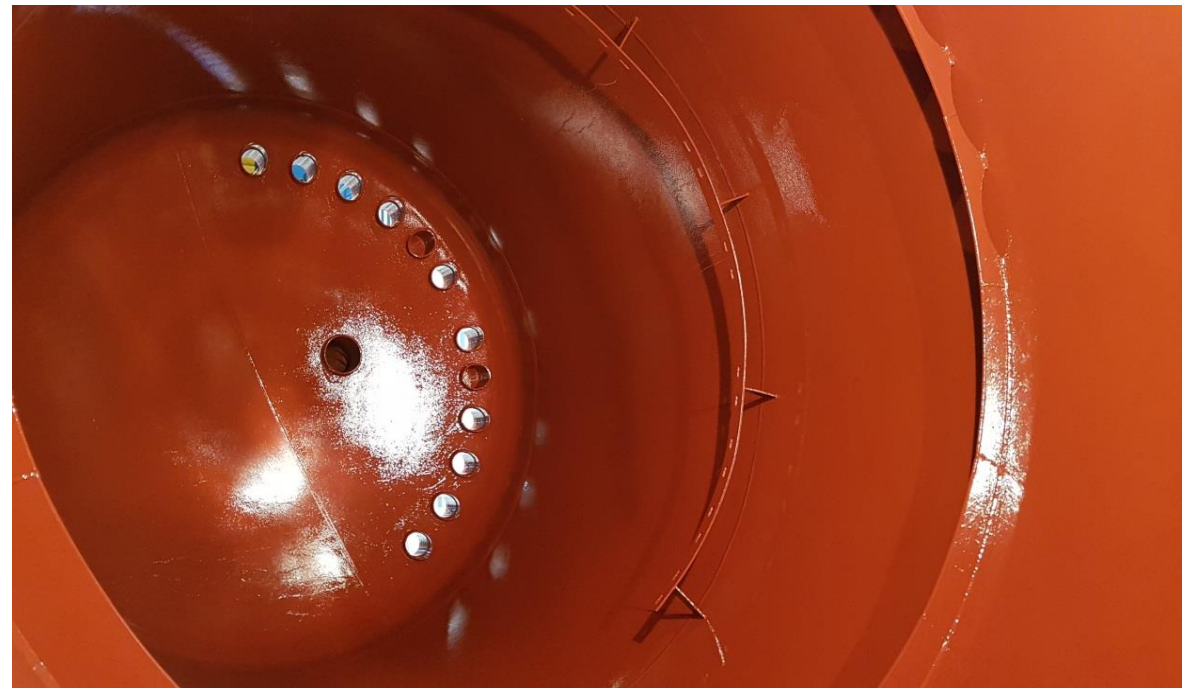
BLASTING

BLASTING BOX FOR FERROUS ABRASIVE

STEEL GRIT

- The box dimensions are 15 x 6 x 5 m
- The unique design of the system of halls makes it possible to extend the length of the blasted objects up to the double length of the box
- It is possible to extend the length up to 30 m
- The abrasive gets fully removed and the air is filtered (minimum 25 000 m³/h)





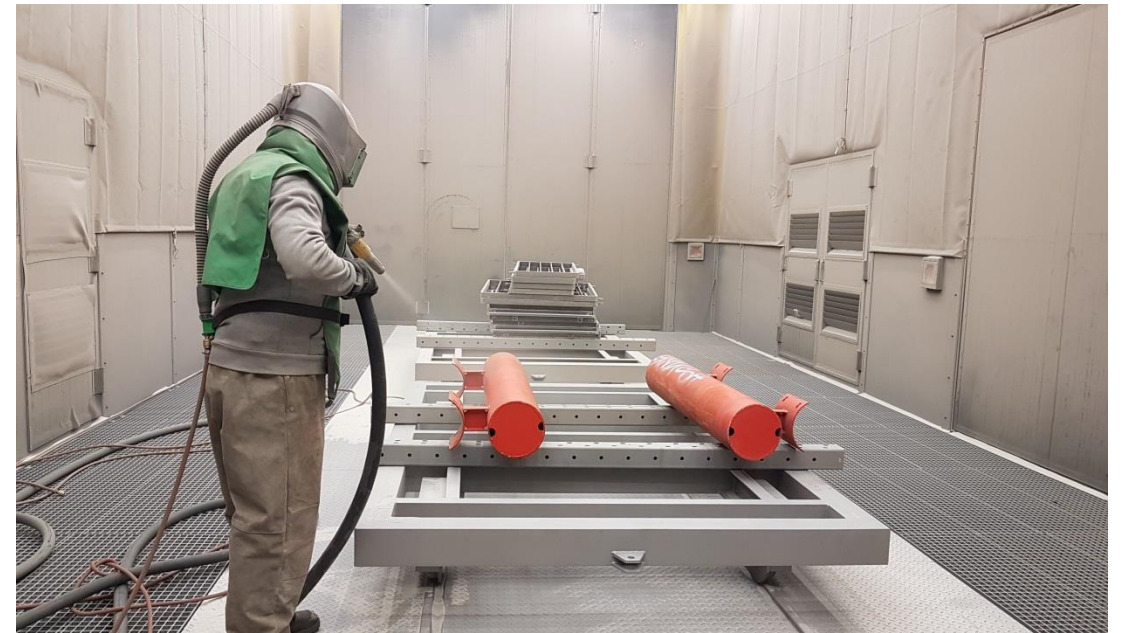
BLASTING

BLASTING BOX FOR PRODUCTS MADE OF STAINLESS STEEL

SHOT PEENING

- The box dimensions are 5,60 x 6 x 5 m
- Special treatment of the surface by blasting with microspheres made of glass, ceramics, stainless steel
- Final treatment of the surface of stainless steel constructions – matting, unification
- Control of blasting boxes with the most modern technology - PLC control system of all parts of the technology
- Remote PLC management via the internet





WET COATING

- The dimensions of the coating shop are 60 x 30 m
- 2 portal cranes with the loading capacity of 10 tons
- The air temperature during the process of coating is 15 – 18 °C and during the process of drying it is 20 - 40 °C
- Thermo ventilation units with heat recovery and switching between coating and drying modes
- Possibility of coating oversized constructions (up to 60 tons)

USAGE

- Surface protection of metal constructions, machinery, pipelines, external and internal surfaces of tanks, steel halls, radiators, wheel discs

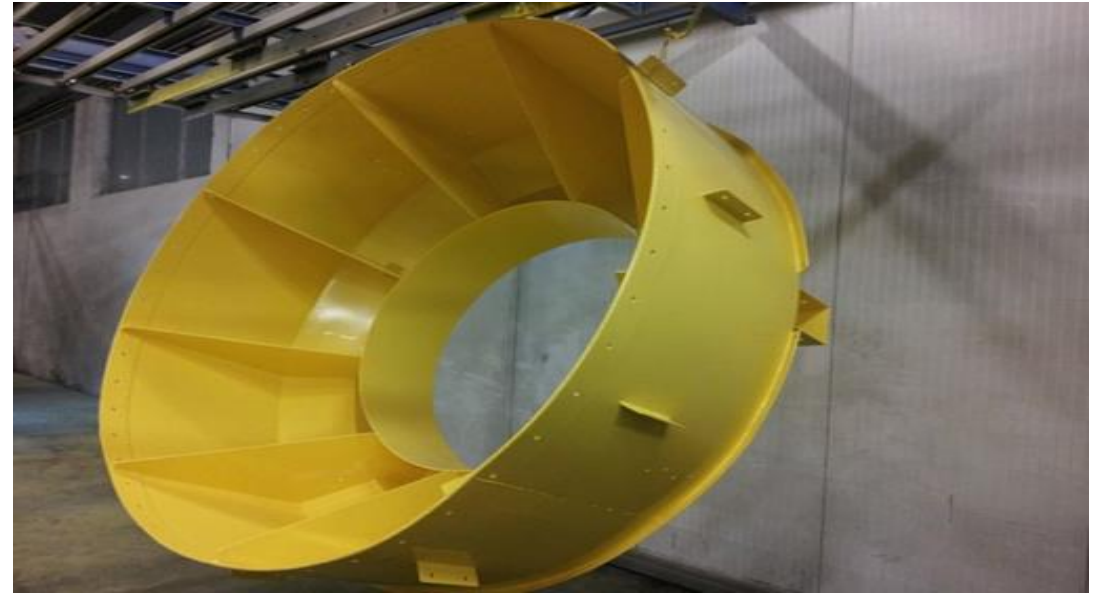






THE BIG POWDER COATING SHOP

- The dimensions of the big powder coating shop are **8,5 m (l) x 2,7 m (h) x 2,4 m (w)**
- Loading capacity of the conveyor is **3,6 t**
- Modern technology for metal surface treatment
- Currently, in addition to RAL shades, we also offer special shades of metallics, transparent varnishes, structural surfaces, chrome shades and various surface imitations
- Paints used for powder coating are tested and meet the strict environmental requirements
- Some of the paints used for powder coating are even certified to be in contact with dry food and drinking water
- We apply powder paint even in environments with high corrosion load, such as **C5 to CX**





OP

THE SMALL POWDER COATING

- The dimensions of the small powder coating shop are **2,4** m (l) x **1,7** m (h) x **1,5** m (w)
- Loading capacity of the conveyor is **50** kg
- Powder coatings are applied by spraying in an electrostatic field
- After the powder coating is applied, the products are being baked in a furnace
- At 180 – 200 °C the powder melts, hardens and adheres to the surface of the product



USAGE

- funnels in rock mines
- conveyor rollers
- turbine blades stressed by abrasion
- surfaces of drilling rigs
- teeth of rotary heads of excavators
- end blades of dozers
- the inner layers of pipes and elbows for conducting abrasive substances

THERMAL SPRAYING

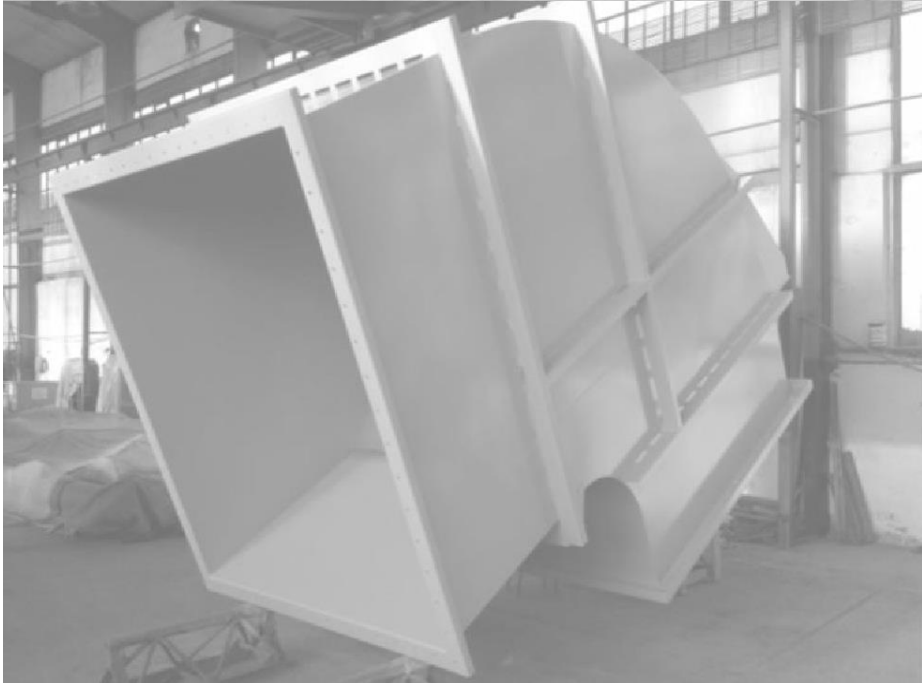
METALLIZATION

- The principle of pressure spraying of molten metal
- The applied layer has different physical properties from the original sprayed semi-finished product – greater porosity and hardness
- The applied layer of metal performs an anti-corrosion, renovating or decorative function

Used materials:

- Anti-corrosion: stainless steel, aluminum, zinc, Zinacor (ZnAl 85/15 alloy)
- Renovation: hard metal abrasion resistant: stainless steel, stainless-chromium carbide, wolfram – boron carbide
- Materials for decorative spraying: nickel, copper, zinc





COATING

SURFACE PROTECTION, FIRE PROTECTION COATING

- We offer the development of technological procedures for coating systems for various corrosive environments according to ČSN EN ISO 12944 using coating materials from foreign and Czech suppliers – HEMPEL, JOTUN, DERISOL, SIGMA, AMERON, PPG, CARBOLINE and more
- Part of the delivery of coating systems is the continuous control of application and climatic conditions, including protocols from these checks
- FIRE PROTECTION COATINGS
- HYDROPHOBIC COATINGS: products for natural stone
- All of our activities are being checked by a certified corrosion technician







HIGH PRESSURE WATER JET CLEANING

WORK WITH HIGH PRESSURE WATER JET UNITS – CLEANING WORK

- For cleaning and water jet blasting we use several devices depending on the type of work and the powers used (up to 2500 bar)
- We use Kärcher and Falch pressure washers for ordinary washing
- Technology for perfect degreasing of dirty surfaces
- Degreasing and cleaning work with detergents

USAGE

- old paint, rubber and sealant removal
- renovation of concrete surfaces, bridges, stone and brick walls
- cleaning of floors, plasters, facades, roofing
- cleaning of runways and roads
- cleaning of water tanks and other operating tanks and surfaces
- cleaning of exchangers, pipelines, machines
- sewers cleaning



BUILDING RESTORATION

- Surface preparation by using dry blasting or high pressure water jet – up to 2500 bar
- Cleaning with dust-free blasting technology – TORBO – reduction of dust by up to 95%
- Renovation of concrete constructions is carried out by using selected renovation materials
- Applied types of renovation materials used are in accordance with the European standard EN 1504

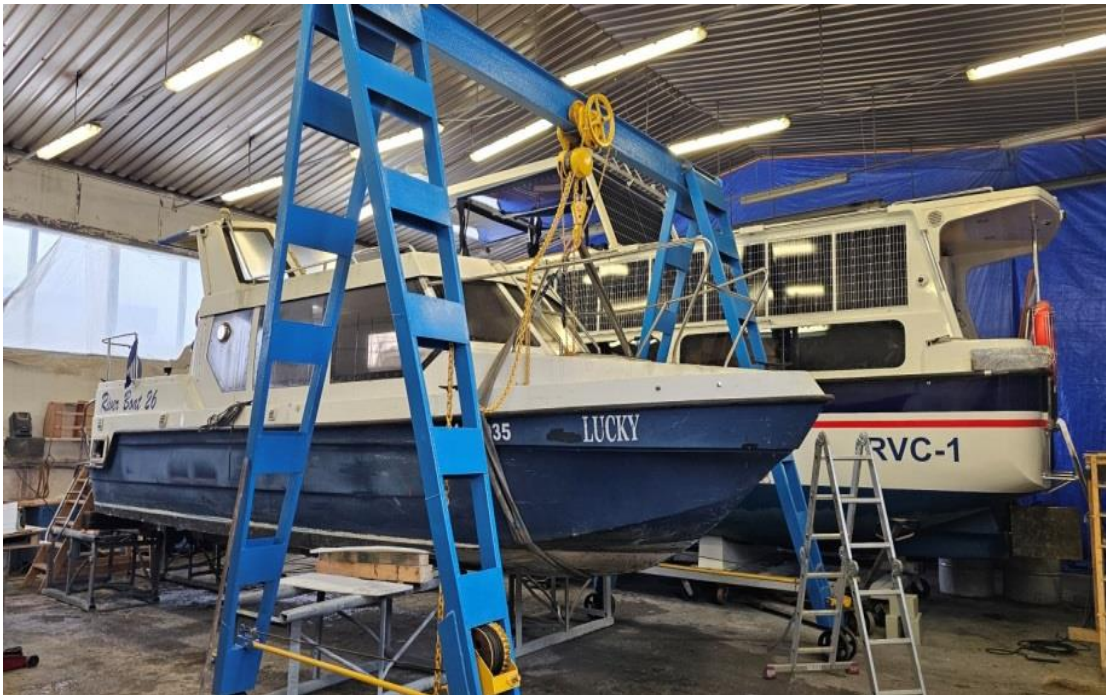
















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