

promont

**Production, Assembly and Maintenance of Special Equipment
and Technological Units for Chemical, Power, Paper,
Petrochemical and Engineering Industries**



COMPANY PRESENTATION



P R O M O N T, a.s.
Chemická 2122/3
Mariánské Hory, 709 00 Ostrava
CZECH REPUBLIC

08/2024

P R O M O N T was founded in 1990.

P R O M O N T, a.s. is a manufacturer of heat exchangers, pressure and non-pressure vessels, tanks, piping, reactors and columns made of carbon, austenitic and duplex materials.

The company also has experience in processing Antinite, Titanium and nickel alloys. The main subject of activity is comprehensive supplies of technologies for the chemical, food, paper, pharmaceutical, petrochemical and engineering industries.

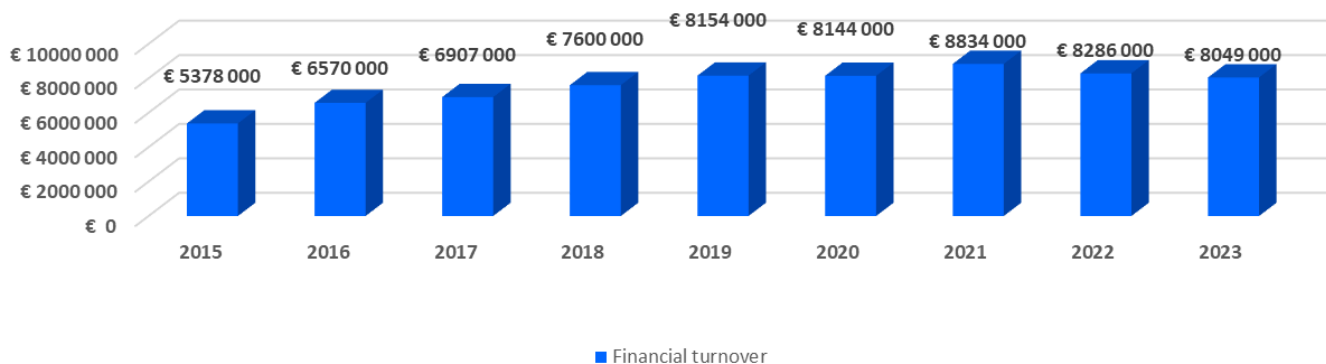
The company has implemented systems for the production of steam boilers, pressure vessels and piping according to European (EN), American (ASME), German (AD-2000) and Russian (GOST, PNAE-G) standards.

Furthermore, the company has implemented and certified an integrated quality, environmental and occupational health and safety management system (ISO 9001 / ISO 14001 / ISO 45001).

At present, the company consists of 100 qualified employees and we have production and assembly facilities with an area of approximately 6,000 m².



Financial turnover



	2015	2016	2017	2018	2019	2020	2021	2022	2023
Financial turnover	€ 5 378 000	€ 6 570 000	€ 6 907 000	€ 7 600 000	€ 8 154 000	€ 8 144 000	€ 8 834 000	€ 8 286 000	€ 8 049 000

TARGET GROUPS

- Chemical Industry
- Petrochemical Industry
- Engineering Industry
- Paper and Pulp Industry
- Power Industry
- Brewing Industry

MATERIALS

- Carbon steels P265GH, P355NL1 (A516, etc.)
- Cr-Mo steels free of vanadium with $C \leq 0,35\%$, 13CrMo4 (A 387, etc.)
- High vanadium alloyed Cr-Mo-(Ni) steels 13CrMoV6, 34CrNiMo6
- Austenitic stainless steels 1.4301, 1.4306, 1.4571, 1.4404, 1.4539/904L, 1.4547/254SMO 1.4361 - **ANTINIT**, (AISI: 304/304L, 316/316L, 321, S 30600-ANTINIT, etc.)
- Austenitic-ferritic stainless steels W.Nr 1.4462, (**Duplex**; UNS S31803, etc.)
- Pure titanium (**TITANIUM Gr. 2**)

PRODUCTS PORTFOLIO

- Pressure vessels
- Non-pressure vessels
- Tanks
- Reactors
- Injectors
- Heat exchangers
- Columns
- Towers
- Jet pumps
- Gas ducts
- Piping

We specialize in the production of technological equipment according to customer's data sheets, spare parts supply process equipment datasheets or as documentation for manufacturing and assembly of technological equipment.

COMPETITIVE ADVANTAGES

- Qualified and trained personnel periodically
- Communication in English (Russian) language
- Short term quotation, normally in 1-2 weeks
- High flexibility in production planning and own production
- Own design office, fast and flexible solutions change a and other customer requirements
- Supplies of special and unique individual products within short deadlines
- Own CNC machining and milling center
- Separate production facilities for processing stainless steel and special materials
- Processing of a wide range of stainless steel and special materials supported by a wide coverage WPS, WPQR ...
- The possibility of cutting water jet, without affecting heat the base material

Transport accessibilities:

- Access to motorway - 1 km
- Access to railroad - 10 m
- Access to airport - 30 km

CERTIFICATION

ASME Code

ASME
S - Steam boilers
U - Pressure vessels

Expired - 01/2021
PRODUCTION
ACCORDING TO
UNSTAMPED ASME

PED 2014/68/EU - H, H1

QUALITY, EMS and OSH

ISO 9001 / ISO 14 001 / ISO 45001

EN 1090-2 (do EXC 4)

WELDING SUPERVISION
IWI / IWE / IWT / EWT

VZOR

OTK - NDT

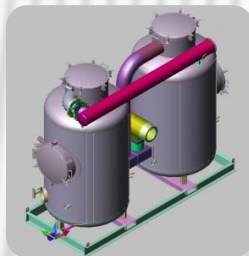
EN473; ISO 9712

- VT & PT
- RT
- UT
- MT
- PMI
- Mechanické zkoušky

WELDING

AD Merkblatt HP0
& PED 97/23/EC

EN ISO 3834-2



TECHNICAL DEPARTMENT

The whole mechanical production is supported by strong technical team, who is able to realize all steps of production beginning with strenght calculation defined by customer DATASHEETS, through the creation of production and assembly documentation and ending with final documentation of manufactured product. Our team counts 5 design engineers.

Calculation program :

VVD ver. 20.1 - for calculation of pressure vessels according to: EN 13445, ASME VIII div.1, AD 2000, EN 1591, EN 13480 a PD 5500

PV Elite 25 - for calculation of pressure vessels according to: ASME VII div.1, div.2, EN 13445 a PD 5500

Calculation program of HEXAGON PPM

Design programs :

- Autodesk Inventor Professional 2019, 2022, Autodesk AutoCAD Mechanical 2019, 2022 – SW for creating projections and workshop drawings
- Navisworks 3D Viewer - viewer of documents from the customer

REALIZED PROJECTS - SELECTION

- **PRODUCTION AND COMPLETE ASSEMBLY OF TECHNOLOGY - ADIABATIC NITRATION UNIT - 120 kt/r**

Customer: ZVU Engineering a.s.

Investor: BorsodChem MCHZ, s.r.o.



(20 apparatuses and heat exchangers, of which 5 columns)



- **PRODUCTION AND ASSEMBLY of 14 heat exchangers:**

Customer: INTECHA, spol. s r.o.

Investor: BorsodChem MCHZ, s.r.o.

Material: W.Nr. 1.4301, P265GH

Diameter: 273 - 826 mm

Length: 2 247 - 4 200 mm

Weight of exchangers: 360 - 5 182 kg



- **MANUFACTURE AND ASSEMBLY of the middle part of the condenser:**

Customer: BorsodChem MCHZ, s.r.o.



Material:
TITAN Gr.2,
P265GH,
W.Nr. 1.4301
Made according to:
EN 13 445

Diameter: 1 345 mm
Length: 7 620 mm
Weight: 4 375 kg



• PRODUCTION AND INSTALLATION OF A TUBULAR HEAT EXCHANGER
BIOCEL Paskov, a.s.

- Material: **W.Nr. 1.4436 (316L), 1.4438**
- Diameter: 3 200 - 3 600 mm
- Length: 8 780 - 8 990 mm
- Total weight: 30 050 - 34 433 kg
- Total 3 pcs of HEAT EXCHANGERS (2016 - 2021)**
- Number / diameter / length of pipes: 3522 / 34x1 / 6,300



PRODUCTION AND ASSEMBLY (Alcaline Washer Decanter)

ZVU Engineering, a.s.

(end customer
 - BorsodChem MCHZ)

- Material: **W.Nr. 1.4404**
- Diameter: 1 250 mm
- Length: 9 350 mm
- Weight: 5 460 kg

Total 2 pcs



CHEMOPROJECT NITROGEN, a.s. (end customer - YARRA AB Köping, SWEDEN)

Production of 2 pieces of pressure vessels welded together subsequently. One vessel with tubular heat exchanger.

- Material: **W.Nr. 1.4301 / 1.4306 / ER 308 L / ER 309 Lsi**
- Length / Diameter: 9 700 mm / 2 600 mm

Weight: 8 200kg



• PRODUCTION - Catch Tank

ZVU Engineering, a.s.

- Material: **1.4404**
- Length: 4 550 mm
- Diameter: 2 700 mm
- Weight: 3 000 kg
- Made according to: PED 2014/68/EU
 EN 13 445



▪ **PRODUCTION AND COMPLETE ASSEMBLY OF TECHNOLOGY - Intensification of ANILIN production - 2 lines**

Customer: **CHEMOPROJEKT, a.s.**

Investor: **BorsodChem MCHZ, s.r.o. (37 apparatuses and heat exchangers)**



• **PRODUCTION AND ASSEMBLY OF TECHNOLOGY- Production of BIODIESEL**

• **Objednatel: CHEMOPROJEKT, a.s.**

Investor: **SETUZA, a.s.**



Customer: **ŠKODA JS, a.s.**

Final destination:

Temelín Nuclear Power Plant, ČEZ a.s.,
PRODUCTION AND INSTALLATION OF FIRE TANK

Material: **P265GH**
Diameter: **4 720 mm** 62 m3
Weight: **9 330 kg /** Height: **4 500 mm**



▪ **PRODUCTION AND ASSEMBLY OF TECHNOLOGY:**

Nitric acid for fertilizer production

Customer: **CHEMOPROJEKT, a.s.**

Investor: **Grande Paroisse, Le Grand Quevilly, (FRANCE)**



▪ **PRODUCTION AND ASSEMBLY OF TECHNOLOGY**

Production of "COLUMNS", C243

(according to AD 2000)

Customer: **CHEMOPROJEKT, a.s.**

Investor: **Zaklady Azotowe SA , (POLAND)**

Material: **W.Nr. 1.4307; 1.4541; 1.0425**

Weight: **20 000 kg**



Customer: **CHEMOPROJEKT, a.s.**

Investor: **Zaklady Azotowe SA , (POLAND)**

▪ **PRODUCTION AND ASSEMBLY OF TECHNOLOGY**

Material: **W.Nr. 1.4307; 1.4541; 1.0425**

Diameter: **400 - 1 200 mm**

Weight: **30 000 kg**



- PRODUCTION AND DELIVERY
- VENTURI SCRUBBER
(TOTAL 11 pcs)
ŠKODA JS, a.s.
(end customer in UKRAINE)



- Material: **08CH18H10T, 1.4541**
- Diameter: **3 400 mm**
- Height: **5 500mm**
- Weight: **22 000 kg / pc**



- PRODUCTION AND INSTALLATION
OF PRESSURE VESSELS - 2 pcs
- **Chemoprojekt, a.s.**
(end customer - IRAQ - Basrah)
- Material: **SA 516 GR. 70**
- Weight: **50 000 kg**
and **22 300 kg**
- Diameter: **315 m³ a 105 m³**



- PRODUCTION OF TUBE HEAT EXCHANGERS - 11 pcs
Chemoprojekt, a.s. (end customer - IRAQ - Basrah)
- Technical requirements: **ASME Code SECT. VIII DIV.1**
- Material: **SA480/SA480M, SA20/SA20M, SA788/SA788M, SA530/SA530M, ER70S-6, ER309LSi, ER308LSi**
- Diameter and thickness: **250 - 650 mm**, base material: **5 - 20mm**
- Length: **3 800 - 7 300 mm**



- EJECTOR PRODUCTION - 9 pcs
GEA Wiegand GmbH (end customer in INDIA)
- Material: **SA516 Gr.60, 304/304L**
- Diameter: **from DN1 1/2" / 2" to DN28" / 30"**
- Length: **800 - 9 000 mm**
- Total weight: **58 - 2 100 kg**



- TANK PRODUCTION - 6 pcs
CASALE SA (end customer - RUSSIA - Gubakha)
- Technical requirements: **ASME Code SECT. II +V+IX**
- Material: **SA-516 Gr.60, SA-350 Gr.LF2 C11, SA-479 TP316L, SA240GR 304/304L, SA-403 WP304/304L, SA-182 F304/304L**
- Diameter: **4,500 - 12,000 mm**
- Height: **from 5,500 - 12,000 mm**
- Weight: **7,500 - 75,000 kg**



- TANK PRODUCTION - 4 pcs
CASALE PROJECT (end customer in UZBEKISTAN)
- Technical requirements: **EN 14015, na materiál EN 10088-2, EN 10216-5**
- Material: **1.4306, 1.4307, 1.4306+GR, A2-70**
- Diameter: **6 000 - 15 000 mm**
- Height: **od 8 200 - 14 000 mm**
- Weight: **12 500 - 75 000 kg**



• PRODUCTION AND COMPLETE ASSEMBLY OF TECHNOLOGY - Evaporator effect

LENZING Biocel Paskov, a.s.

- Material: **W.Nr. 1.4462 DUPLEX**
- Diameter: 4,900 mm Length: 15,000 mm
- Weight: 20 000 kg



• PRODUCTION AND INSTALLATION OF THE TECHNOLOGY of the 4th stage of secondary regeneration VENTURI scrubber and droplet separator, including the connection of the flue gas channel

LENZING Biocel Paskov a.s.

- Material: **W.Nr. 1.4571 / 1.4301**
- Total Weight: 49 000 kg



• PRODUCTION AND ASSEMBLY
Stickstoffwerke Piesteritz GmbH – GERMANY

- Material: **1.4361 - ANTINIT A610 (Böhler)**
- Column part: 830 kg
2 200 x 1 100 x 1 100 mm
- Manifold part: 160 kg
950 x 1 050 x 1 050 mm



• PRODUCTION AND COMPLETE ASSEMBLY OF TECHNOLOGY
(column for aniline equipment)

BorsodChem MCHZ, s.r.o.

- Material: **A 304/304L**
- Diameter: 2,200 mm
- Length: 20 000 mm
- Total weight: 19 000 kg



• PRODUCTION AND DELIVERY of water-cooled lid of arc ladle furnaces LF **Arcelor Mittal, a.s.**

- Diameter: up to 5,500 mm
- Weight: up to 12 000 kg



Total 21 pcs



- DESIGN AND PRODUCTION OF DUMPCONDENSOR D 1 300 (drawing documentation)

Core Tech AS (AMOF FJELL Norsk Energi) / Elkem (end customer in NORWAY)



Material: W.Nr. 1.4301 / 1.4607

EN 13445

Length / height: 4 300 mm / 2 800 mm

Number of tubes: 1 755 pcs

Weight: 8 300kg



- PRODUCTION - SCRUBBER: according to the instructions of unstamped ASME Sec. VIII Div. 1 (overseas packaging)

GEA Wiegand GmbH (end customer in IRAQ)

- Part diameter: QUENCH 4 4966 mm, TANK 6 000 mm

Material: 304 L, TP 304 L

Total length: 10 496 mm

WEIGHT: 14 147 kg



- PRODUCTION AND ASSEMBLY OF THE TANK HNO₃ 98 % (850 m³)

SKW Stickstoffwerke Piesteritz GmbH (end customer in GERMANY)

Material: W.Nr. 1.4361 (ANTINIT A611 BÖHLER)

Diameter: 10 000 mm

Height: 11 000 mm

Weight: 29 000 kg

Year of realization: 2013 / 2014



- PRODUCTION OF HAIRPIN HEAT EXCHANGER according to PED 97/23/EC, AD 2 000

Chemoproject NITROGEN a.s. (end customer AZOMURES - ROMANIA)

Material: W.Nr. 1.4401, 1.4462, 1.4088

Diameter: 1 274 mm

Length: 6 842 mm

Weight: 6 245 kg



GEA Wiegand GmbH GERMANY (end user in INDIA)

MANUFACTURE OF STEAM HIGH-PRESSURE INJECTORS:

- 2 pcs
- Material: **A519 Gr.60**
- 1) 22 000 mm x 3 500 mm (28 000 kg)
- 2) 16 500 mm x 3 000 mm (12 000 kg)



GEA Jet Pumps GmbH GERMANY (end user in MEXICO)



MANUFACTURE OF STEAM HIGH-PRESSURE INJECTORS

- Diameter: DN 100 - DN 1 200
- Length : 21 000 mm.

GEA Wiegand GmbH Germany (end user in BRASIL)
MANUFACTURE OF STEAM HIGH-PRESSURE INJECTORS

- 48"/48".

- Material: **W.Nr. 1.4301**
- Length: 14 700 mm



GEA Wiegand GmbH GERMANY (end user in BRASIL)
MANUFACTURE OF STEAM HIGH-PRESSURE INJECTORS

- 2 pcs

- Diameter: DN 1 900/ 1 500, DN 1 500/ 1 100
- Material: **W.Nr. 1.0425**
- Length : 20 300 mm / 14 500 mm



Chemoproject NITROGEN (end user in ČEREPOVEC - RUSSIA)

MANUFACTURE OF FILTERS WITH SCREENS - 11 pcs

- Material: **W.Nr. 1.4301, 1.4306** / Length: 1 821 mm - 3 821 mm / Weight: 443 - 961 kg



Chemoproject NITROGEN

(end user in ČEREPOVEC - RUSSIA)

MANUFACTURING - Non-pressure vessels

- Material: **W.Nr. 1.4301**
- Diameter x Length: 5 900 x 2 636 mm (T-661)
- Weight: T-661: 4 027 kg
V-662: 6 758 kg
V-662: 4 900 x 2 948 x 4 900 mm



Lenzing BIOCEL Paskov a.s.

MANUFACTURING AND ASSEMBLY

- Material: **W.Nr. 1.4571**
- Diameter: DN1000
- Total weight: 3 000 kg



• PRODUCTION AND ASSEMBLY OF THE COOKING ACID TANK 22-03 B0015

Lenzing Biocel Paskov a.s. (end customer in Czech Republic)

Material : **WNr. 1.4432/1.4435/1.4436**

Made according to: **EN 14015; EN 1993-1-6 App D.2**

Height: 9 750 mm Diameter iD: 4 000 mm

Weight: 8 985 kg Volume: 113 m³



• PRODUCTION - DEETTANIZER BOILER (from 2 pieces)

ORLEN Unipetrol RPA s.r.o. (end customer in Czech Republic)

Made according to: **PED 2014/68/EU, ČSN 690010**

Material: **P265GH, P280GH, 42CrMo5-6, Dynagraph**

Length 1 pc: 5 296 mm

Diameter 1 pc: 1 760 mm

TOTAL WEIGHT (2 pcs): 18 800 kg



• PRODUCTION - COOLER 2. St GB 201 (of 2)

ORLEN Unipetrol RPA s.r.o. (end customer in Czech Republic)

Made according to: **PED 2014/68/EU, ČSN 690010**

Material: **P265GH, 1.4462, P280GH, P305GH, P245GH, 42CrMo5-6, Dynagraph**

Length 1 pc: 8 880 mm

Diameter 1 pc: 1 892 mm

TOTAL WEIGHT (2 pcs): 43 990 kg



• PRODUCTION - ETHYLENE EVAPORATOR EA414

ORLEN Unipetrol RPA s.r.o. (end customer in Czech Republic)

Made according to: **PED 2014/68/EU, ČSN 690010**

Material: **P355NL1, P420QH, P215NL, P280QH, 42CrMo5-6, Dynagraph**

Length: 8 270 mm

Weight: 2 270 mm

WEIGHT: 24 660 kg



- **CHIMNEY PRODUCTION - 2 CHIMNEYS**
Chemoprojekt NITROGEN a.s.
(end customer AZOMURESH - ROMANIA)



Material : **P355NL1**
Diameter: **3,200 mm**
Length: **50,000 mm**
Weight: **66,000 kg**



- **PRODUCTION AND DELIVERY- RFG 2200713 STEAM BOILERS**
P & P Industries AG

(end customer - Mitsubishi Gas Chemical Co.)
- NETHERLANDS



Material: **16 Mo3, P265 GH**
Manufactured according to: **PED 2014/68/EU**
Width x height: **5,000 x 7,300 mm**
Length: **8,200 mm**
Weight: **53,500 kg**



- **PRODUCTION OF PRESSURELESS VESSELS V662 and V663 according to AD 2 000**

Chemoprojekt NITROGEN a.s.

(end customer AZOMURESH - ROMANIA)



Material: **W.Nr. 4301** Weight: **5,300 kg**
Length: **5,900 mm** Dimensions: **4,700 x 2,700 mm**



- **PRODUCTION – TITANIUM COOLER**
Boilen, s.r.o. end customer - Veolia Plzeň)

Material: **Titanium Gr.2**
Diameter: **690/1600 mm**
Length: **2,780 mm**
Weight: **556kg**

- **PRODUCTION OF TROUGH SCREW CONVEYOR - 2 pcs**

Prokop Invest, a.s.. (end customer in CROATIA)

Material: **W.Nr 1.4301,P265GH**

Diameter: **2,270 x 2,000 mm**

Length: **9,000 mm**

Year of manufacture: **2014** Weight: **8,110 kg**



- **OVERHAUL OF DRUM FILTER**
BIOCEL Paskov, a.s.

Material : **W.Nr 1.4571**

Diameter: **3 000 mm**

Weight: **17 000 kg**

Year: **2014 - 2015** Length: **11 000 mm**



- **PRODUCTION OF 23 PIECES OF PIPING ROUTES - GAS DUCTS: according to ASME**

Chemoprojekt NITROGEN a.s. (end customer ORICA - AUSTRALIA)

Material: **304L (W.Nr. 1.4306), včetně Huey testu, 321 (W.Nr 1.4541)**

Diameter: **400 - 1 800 mm**

Total weight: **78 000 kg**



• **PRODUCTION AND COMPLETE ASSEMBLY**

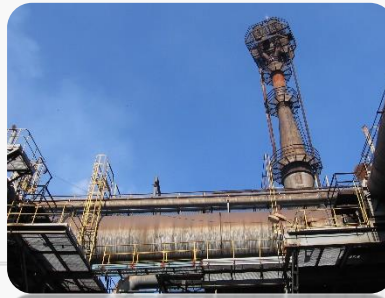
H230-01C tanks for 99% nitric acid

BorsodChem MCHZ, s.r.o.

Material: **W.Nr. 1.4361 - ANTINIT**

Diameter: 8 000 mm Length: 10 000 mm

Weight: 20 000 kg



PRODUCTION AND ASSEMBLY

LIBERTY Ostrava a.s.



- Production and replacement of the flame tube of the blast furnace gas combustion chimney

Material: **11 523.1**

Length: 8 600 mm

Upper platform plan:

6 000 x 6 000 mm

Connection at height:

42 500 mm

Weight: 17 600 kg

- REPLACEMENT of the heat exchanger tube bundle
- (acid condenser- 99% HNO₃ / medium 100 °C)

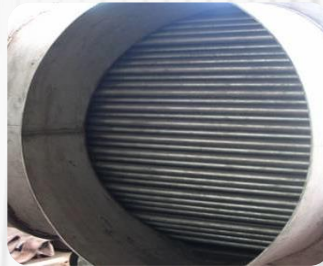
BorsodChem MCHZ, s.r.o.

- Tubing D30 x 2,5 (500 ks), l = 6,070 mm,



Material: **W.Nr. 1.4361 - ANTINIT**

Mounting on a steel structure at a height of 32 meters



- PRODUCTION AND ASSEMBLY of the tank for HNO₃ and NaOH - 2 pcs (100 m³)

Lenzing BIOCEL Paskov a.s.

Material: **A 316/316L**

Diameter: 5 000 mm

Length: 12 000 mm



- PRODUCTION of cooling towers with internal built-ins

GEA Jet Pumps GmbH

End customer -**Tüchenhagen, JAPAN**

Diameter: 150/800 mm

Length: 12 000 mm



- PRODUCTION **CHEMOPROJEKT, a.s.**

(End customer: **ČEREPOVEC - RUSSIA**)

Diameter: 2 000 mm,

Material: **W.Nr.1.4301**, Length: 4 200 mm



▪ **PRODUCTION OF GREASE TRAYS– 2 pcs**
Prokop Invest a.s (Final destination - RUSSIA)

Material: **W.Nr. 1.4301**
 Diameter: 2 500 mm a 2 000 mm
 Height: 7 560 mm a 4 850 mm
 Weight: 4 610 kg a 1 650 kg
 Volume: 30 000 l a 10 000 l



• **PRODUCTION OF A STERILIZER TO RENDERING PLANT (2 pcs)**

Prokop Invest a.s.
(Final destination - CROATIA)

Material: **P265GH**
 Length: 8 500 mm
 Diameter: 2 000 mm
 Weight: 22 000 kg
 Year: 2013



• **SCRUBBER PRODUCTION (Jet Venturi + Separator)**

Chemoprojekt NITROGEN a.s.
(Final destination- INDIA)

Technical requirements: **ASME Code**

Material: **W.Nr. 1.4571, 1.1301**
 Length: 13 000 mm
 Diameter: 1 410 mm
 Weight: 9 100 kg
 Year: 2016



▪ **THERMOCHEMICAL CONVERSION UNIT**

Client: Teplárna Otrokovice, a.s, (Heating plant Otrokovice)

A unit for the thermochemical conversion of solid fuels and secondary raw materials into gaseous and liquid fuels, usable in existing boiler rooms. Coal can be dosed into the retort and the result will be gas (coal gas), oil (coal tar) and a solid residue (semi-coke).

RETORTA - DESIGN, PRODUCTION AND ASSEMBLY

Material: **W.Nr. 1.4845**
 Length: 10 000 mm
 Height: 3 100 mm
 Width: 2 100 mm
 Weight: 6 000 kg



• PRODUCTION OF NEUTRALIZATION REACTORS (2 pcs)

CHEMOPROJEKT, a.s.

Material: **W.Nr.1.4306**

Length: 11 000 mm Diameter: 4 000 / 2 000 mm

Weight: 23 tons/piece



• PRODUCTION AND ASSEMBLY
- PURE CHA AND DCHA STORAGE
TANKS (H851 C/D and H858B)

Customer : **INTECHA, spol. s r.o.**

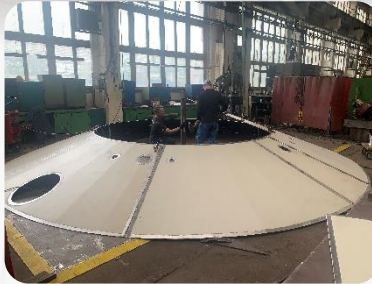
Investor: **BorsodChem MCHZ, s.r.o.**

Material: **S235J2**

Diameter: 5 693 a 7 193 mm

Height: 11 247 a 11 500 mm

Weight: 13 122 a 17 892 kg



• PRODUCTION AND ASSEMBLY
• Na - Thick Liquer Daily Tank

LENZING Biocel Paskov a.s

Material: **W.Nr. 1.4462 DUPLEX**

Diameter: 6 000 mm

Weight: 46 000 kg

Length: 24 000 mm



• PRODUCTION AND ASSEMBLY **5-ti pcs** Technological tanks of the RB2 secondary regeneration plant

LENZING Biocel Paskov a.s

Material: **W.Nr. 1.4571**

Diameter/ Height: od 6 200 / 7 000 mm

Weight: 20 000 kg



• DELIVERY AND INSTALLATION of pipelines for the RB2 secondary regeneration operation.

LENZING Biocel Paskov a.s

Material: **W.Nr. 1.4571 / 1.4301**

Diameter: DN 1 200 - DN 150 mm



- **INSTALLATION of technology incl. piping (INDIRECT THERMAL DESORPTION)**

Investor: **PRODEZ, a.s.**,

Customer: **Prokop Engineering, spol. s r.o.**



- **PRODUCTION AND INSTALLATION of titanium acid/acid exchanger (HNO₃)**

BorsodChem MCHZ, s.r.o.

Material: **W.Nr. 3.7035 - TITANIUM (Ti gr. 2)**

Diameter: 300 mm

Length: 5 000 mm

Weight: 500 kg



- **NOx gas exchanger, 1,300 pcs of tubes**

BorsodChem MCHZ, s.r.o.

Material: **W.Nr. 1.4541**

Tubes: 21.3 x 1.6 mm

Length: 2 000 mm



- **Tube bundle with rigid tubes.**
 - **NOx Gas Cooler – Nitric Acid**
- BorsodChem MCHZ, s.r.o.**

Material: **W.Nr. 1.4306**

Length: 7 000 mm

Tubes: 21.3 x 1.6 mm



- **COMPREHENSIVE DISPOSAL**
 - **CHEMICAL PARTS**
 - **COKE PLANTS-**
 - **Ecologic burdens**
- VÍTKOVICE, a.s.**
- **MOBILE WATERJET**



- **PRODUCTION AND ASSEMBLY – oil coolers (8 pcs)**

Power plant CHVALETICE a.s.

Material: **W.Nr.1.4301**

Length: 4 000 mm

Diameter: 1 x 450 mm Weight: 680 kg

1 x 310 mm Weight: 440 kg



Bosch Rexroth, spol. s r.o. (end customer in BELARUS - MINSK)

MANUFACTURE - FLAGPOLE

Material: **W.Nr. 1.4401**

Length: **66 700 mm**

Weight: **50 000 kg**

5 pieces welded in lengths : **6 700 - 15 200 - 15 100 - 15 200 - 14 500 mm**

Weldments pickled and passivated. Finishing made glass beads.



Bosch Rexroth, spol. s r.o. (end customer in BELARUS - MINSK)

MANUFACTURE - FLAGPOLES

Material: **W.Nr. 1.4401**

Length: **15 700 mm - 17 pcs**

19 800 mm - 28 pcs

Weldments pickled and passivated.

Finishing made glass beads.



EUROM

4-Scrubber on Container

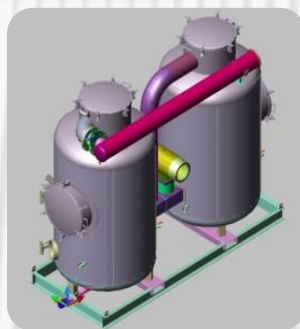
Pressure vessels were manufactured according to EN 13445 and PED 97/23/EC.

Material: **W.Nr. 1.4301**

Length: **2 500 mm**

Diameter: **1 200 mm**

Weight: **470 kg**



Arcelor Mittal, a.s.

MANUFACTURE AND ASSEMBLY - TAR SEPARATOR (2 pcs)

Material: **P 265 GH**



LENZING Biocel Paskov a.s.

MANUFACTURE AND ASSEMBLY

Scrubber for Flue Gas - 2 pcs

Material: **W.Nr. 1.4571 / 1.4301**

Total weight: **10 000 kg**



PRODUCTION OF GAS DUCTS

Supplier: (end customer in Sweden)

Investor: Chemoprojekt Nitrogen a.s.

▪ **Material: W.Nr. 1.4306, P355NL1, 1.4541**



Repair of the bottom part of the column C3001 (KD7)

BordosChem MCHZ, s.r.o.

Material: W.Nr. 1.4335, 1.4307, 1.4301

Diameter: 3 000 mm

Height: 14 450 mm

Weight: 18 500 kg



Supplier: CASALE PROJECT a.s.

Investor: CASALE PROJECT a.s. (end customer in RUSSIA) NAK AZOT

HOT WATER HEAD TANK II, SECOND EVAPORATION CONDENSER, SECOND EVAPORATOR, SECOND EVAPORATION SEPARATOR.

Material: W.Nr. 1.4404, 1.4301, P 355 NL1



PRODUCTION OF SOLUTION RECYCLE FILTERS

Supplier: CASALE PROJECT a.s.

Investor: CASALE PROJECT a.s.

(end customer in RUSSIA) NAK AZOT

SOLUTION RECYCLE FILTERS

UAS FILTER 3

UAS FILTER 2

UAS FILTER 1

Material: W.Nr. 1.4404, 1.4462



PRODUCTION CAPABILITIES

❑ WATERJET CUTTING- 2 CNC TABLES

UTILIZATION Material cutting by water jet pressure with an admixture of abrasive without thermal influence on the base material

1) TECHNICAL PARAMETERS

Programmable cutting in 3D with tilting of rotary axes in the range of +/- 45°.

Workbench area: 6 500 x 2 500 mm

- Thickness of the cut material: 0,1 - 100 mm
- Cutting accuracy: ± 0.2 mm



2) TECHNICAL PARAMETERS

Programmable cutting in 2D.

- Workbench area: 3 000 x 3 000 mm
- Thickness of the cut material: 0,1-80 mm
- Cutting accuracy: ± 0.2 mm



ADVANTAGES

Takes place without contact between the tool and the material, there are no microcracks around the cut.

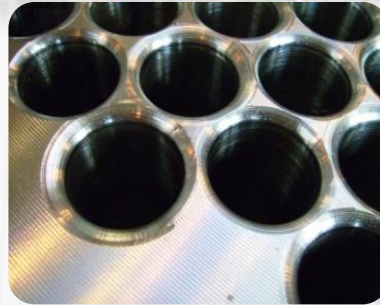
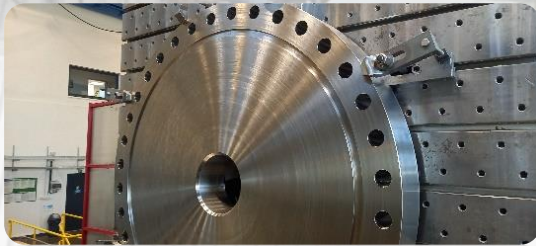
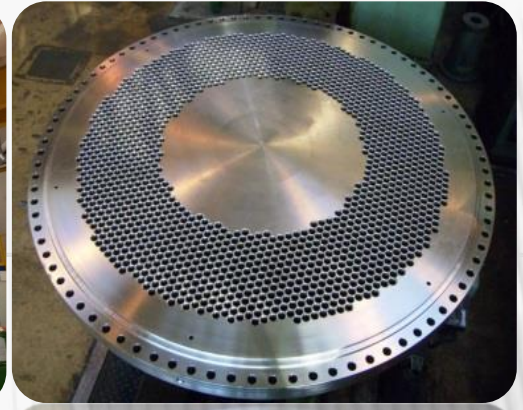
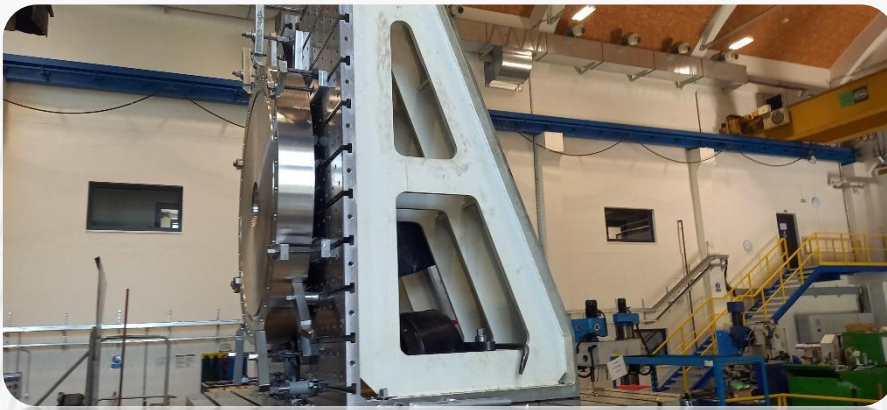
- There is no thermal stress on the material.
- High cutting accuracy.
- Wide range of split materials (everything except tempered glass, clay, plasticine, etc.)



❑ CNC MACHINING CENTRE



- Transverse travel: 4,000 mm
- Vertical headstock travel: 2,500 mm
- Longitudinal travel of the stand: 1,500 mm
- Work table dimensions: 1,800 x 2,600 mm
- Max. workpiece load capacity: 15,000 kg



❑ VERTICAL KNEE-TYPE MILLING MACHINE

- External dimensions of the work table - width: 360 mm
- Outer dimensions of the work table - length: 1,400 mm
- Working strokes - longitudinal / transverse / vertical: 1,000 / 300 / 420 mm



❑ HORIZONTAL TURNING-MACHINE



- Swing over bed: 880 mm
- Swing over support: 510 mm
- Spacing of centres: 4,000 mm
- Maximum workpiece weight on centres: 4,500 kg

❑ CAROUSEL

- Turning diameter: 2,000 mm
- Permissible workpiece weight: 15,000 kg

❑ SAWHILL



❑ RADIAL BORING MACHINE



❑ TABLE HYDRAULIC SHEARS



- Working width: 3,100 mm
- Max. sheet thickness (standard steel construction):
 - 6 mm
- Max. sheet thickness (stainless steel 700 N/mm²):
 - 10 mm



❑ PRESS BRAKE

- Press force: 100 t
- Working length : 2,500 mm
- Modern 2D graphic CNC control 4 axes (Y1, Y2, X, R)



❑ FOUR-ROLL HYDRAULIC BENDING MACHINE (3x)

- Material thickness up to 16 mm at a length of 3,000 mm
- Material thickness up to 6 mm at a length of 2,000 mm
- Material thickness up to 35 mm at a length of 2,050 mm



❑ PROFILE BENDING MACHINE



Conical bending possible.

❑ AUTOMATIC WELDING MACHINE (MIG / MAG)

UTILIZATION

Welding of casings with longitudinal and circumferential welds.

TECHNICKÉ PARAMETRY

- Support: **3 400 x 4 000 mm**
- Speed control – forward /backward



❑ WELDING MACHINE (UNDER FLUX)

ESAB (CaB 460M 4X4)



❑ ORBITAL AUTOMATIC WELDING MACHINE - 3x



- 111 (MMA / SMAW)
- 131 (MIG / GMAW)
- 135 (MAG / GMAW)
- 136 (MAG / FCAW)
- 141 (TIG / GTAW)
- 311 (OAW)

UTILIZATION

welding PIPE - TUBE SHEET

FRONIUS FPA 2020 AC/DC

POLYSOUDE P6 ts 8/75-2

- Open welding head (2x)
- Closed welding head (1x)
- 2 complete devices



❑ MANUAL WELDERS - 95 complete sets

**WELDING
TITANIUM AND ANTINITE**



❑ ROLLER POSITIONERS

ESAB

- 2 x 30 tun
- 2 x 20 tun

FRONIUS

- 6 x 5 tun



❑ PMI

NON-DESTRUCTIVE CHEMICAL ANALYSIS OF METALS

(PMI) - VANTA

- ❑ Chemical Analysis of Metals and Metallic Materials
- ❑ Material Identification - PMI
- ❑ Identification of material standards
- ❑ according to ASME, AISI, DIN, EN ČSN, etc.

Nov 29-18

AlloyPlus

1.0037 S235JR 1.0352 P245GH 1.0425 P2...
1.0425 P265GH H2³

Přesný

El	%	+/-	1.0425 P265G...
Si	0.030	0.008	0.00 0.40
P	0.017	0.003	0.00 0.03
S	ND	<0.006	0.00 0.01
Cr	0.025	0.002	0.00 0.30
Mn	1.166	0.010	0.80 1.40
Fe	98.702	0.013	97.50 99.20
Ni	0.013	0.002	

▶ ⏰ ⚖️ 🗨️

● Připraven

OLYMPUS



❑ TRANSPORT & LIFTING DEVICES



- Telescopic handler MANITOU max. load 6 t, reach 8 m (crane attachment, working platform)
- Forklift: 3 pcs - 3.5 tons
- Forklift: 3 pcs - 3.3 tons
- 6.5 tonnes flatbed truck - MAN
- MINIVAN / TRANSIT - 7 pieces



Overhead cranes

- Bridge cranes 20 t - 1 pc
- (area BC MCHZ) 12.5 t - 1 pc
- 3.5 t - 1 pc
- 3 t - 2 pcs
- 8 t - 1 pc
- Bridge crane (BIOCEL area) 10 t - 1 pc



❑ MACHINE MAINTENANCE

P R O M O N T, a.s. carries out comprehensive maintenance of technological equipment of the BorsodChem MCHZ, s.r.o. chemical plant. Ostrava since 2003. Furthermore, maintenance activities at the operations of Messer Technogas, s.r.o., Dukol Ostrava s.r.o., Lenzing Biocel Paskov a.s., etc.

Mechanical maintenance is provided by 40 qualified workers with 24-hour emergency services.

Examples of machine maintenance work:

- Operational shutdowns of technological equipment
 - (tanks, heat exchangers, columns, reactors, piping units)
- Welding work (qualified personnel)
- Vibration measurement and repair of safety valves
- machining work, renovation, production of spare parts
- assembly, disassembly and reconstruction of steel structures
- tightening flange joints to tightening torque
- Maintenance of rotating machines (lubrication, replacement of bearings and mechanical seals)
- Trained workers - professional competence in the field of assembly of bolted joints in pressure equipment in critical applications according to ČSN EN 1591-4.



Within the provision of services, the following are implemented:

- Planned comprehensive shutdowns of individual plants or their parts as part of investment projects and more extensive maintenance and inspections of technological equipment.
- Planned daily repairs and installations (minor downtime) and unplanned downtime (due to failures)

Repairs of safety valves

Adjustment and adjustment of safety valves performed by a trained employee of P R O M O N T, a.s. Testing / adjustment of insurance flanged or threaded valves are performed on a test bench using the selected reaction pressure for the given type of joint. Valve. The medium for the test is nitrogen. Nominal diameters: testing of flanged valves from DN8 to DN300. The output of the inspection / adjustment is issued an inspection report, including an entry in the tested valve card supplied by the customer.

When repairing safety valves, valve plates, flanges, etc. the Valva S1 grinding equipment in the range of DN8 - DN150 is used for the renovation of functional surfaces. For higher dimensions, the SU40, SN71B and SU 90HLC machining machine equipment are used for surface renovation.



Grinding equipment Valva S1 DN8 – 150

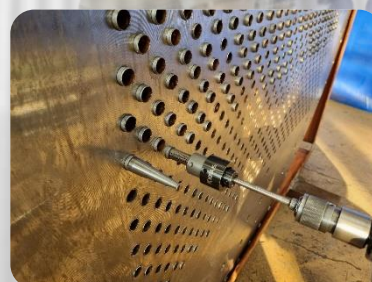
P R O M O N T, a.s. has a portable device for grinding sealing surfaces of valve fittings, valve plates, flanges, etc. The grinding device operates in the range of DN8 - 150.

Machine alignment

Alignment of rotating machines (pumps, blowers, electric motors, etc.) using the OPTALIGN Touch device from PRÜFTECHNIK. The alignment is carried out by a group of workers with many years of experience and trained by the supplier of the alignment equipment. The output of the machine alignment is a report on the setting of the unit.



Leak testing of pipes- Testing of pipeline tightness using the vacuum method with the KLVD 3000 device from KRAIS Tube Expanders. Pipelines in the range of 8-30mm, 16-35mm, 30-52mm, 47-77mm can be inspected. The pressure gauge range is from -1 bar to 0 bar.



Tube rolling

Rolling of tube-sheet pipes. TES Mini V2 ES2 tube rolling machine from KRAIS. Rolling ranges, tools (diameters and lengths) are assessed according to customer documentation.

P R O M O N T stock company

□ area BorsodChem MCHZ

HALL - 1: Headquarters
(ADMINISTRATION / MACHINERY/ MAINTENANCE)
Area: 1 400 m²

Transport accessibilities:

- Access to motorway- 1 km
- Access to railroad- 5 m
- Access to airport- 30 km



□ area BorsodChem MCHZ

HALL - 3 (OTK / expedition / WAREHOUSE)
Area: 750 m² of covered area,

OTK, SHIPPING, WAREHOUSE, PRODUCTION

- Maximal product weight : 25 t
- Maximal diameter : 4 000 mm
- Maximal length : 20 000 mm



□ area BorsodChem MCHZ

HALL - 2: STORAGE HALL

Area: 1 800 m² sheltered area,

OTK, SHIPPING, WAREHOUSE, PRODUCTION

Maximal product weight: 8 t

Maximal diameter: 4 000 mm

Maximal length : 10 000 mm



□ area BorsodChem MCHZ

A-BLOK (PRODUCTION / MAINTENANCE / ASSEMBLY)
Area: 1 600 m² of sheltered area,

- area of 500 m² of open space

- Maximal product weight: 25 t
- Maximal diameter: 5 000 mm
- Maximal length: 30 000 mm

□ area Lenzing Biocel Paskov

Area 800 m² of sheltered area.

PRODUCTION, MAINTENANCE, ASSEMBLY

- Maximal product weight: 25 t
- Maximal diameter: 4 000 mm
- Maximal length: 15 000 mm



SIGNIFICANT CUSTOMERS



CONTACTS:

Trade name:

P R O M O N T, a.s.

Address:

Chemická 2122/3,

Mariánské Hory, 709 00 Ostrava

Česká republika

File number:

B 2758/KSOS Krajský soud v Ostravě

IDN:

00576638

TIN:

CZ00576638

DATA BOX:

ivsfjk

Plants:

- Area of BorsodChem MCHZ, s.r.o., Chemická 2122/3, 709 00, Ostrava (HALL-1, HALL-2, HALL-3)
- Area of BorsodChem MCHZ, s.r.o., Chemická 2039/1, 709 00, Ostrava (A-BLOK)
- Area of Lenzing Biocel Paskov, a.s., Místecká 762, 739 21, Paskov (hall BIOCEL)

www.promont-as.cz



E-MAIL

promont@promont-as.cz