

COMPANY PROFILE

MBNS – International, spol. s r.o. was established in Brno in 1995 to continue activities of MBNS spol. s r.o., the former Czechoslovak and Soviet joint venture that had ensured deliveries of the equipment for chemical and petrochemical industries from 1990.

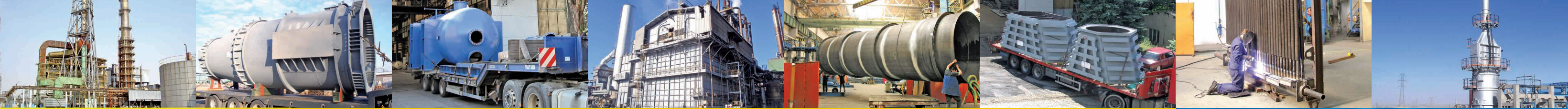
Since the beginning of its establishment MBNS has been satisfying the needs of chemical and petrochemical plants regarding deliveries of spare parts, repairs, reconstructions and modernizations of the existing plants. Main markets were countries within the CIS, particularly Uzbekistan, Turkmenistan, Russia and Ukraine.

In the 2001 – 2003 period MBNS successfully implemented its hitherto largest project, i.e. the completion of the plants for production of the nitric acid with a capacity of 360 thousand tons/year and of the ammonium nitrate with a capacity of 450 thousand tons/year at PO AZOT Fergana, Uzbekistan. The total project value reached 50,66 mil USD, and MBNS in cooperation with EGAP and ING Bank ensured the project financing at an amount of 100% contract value for the Uzbek customer.

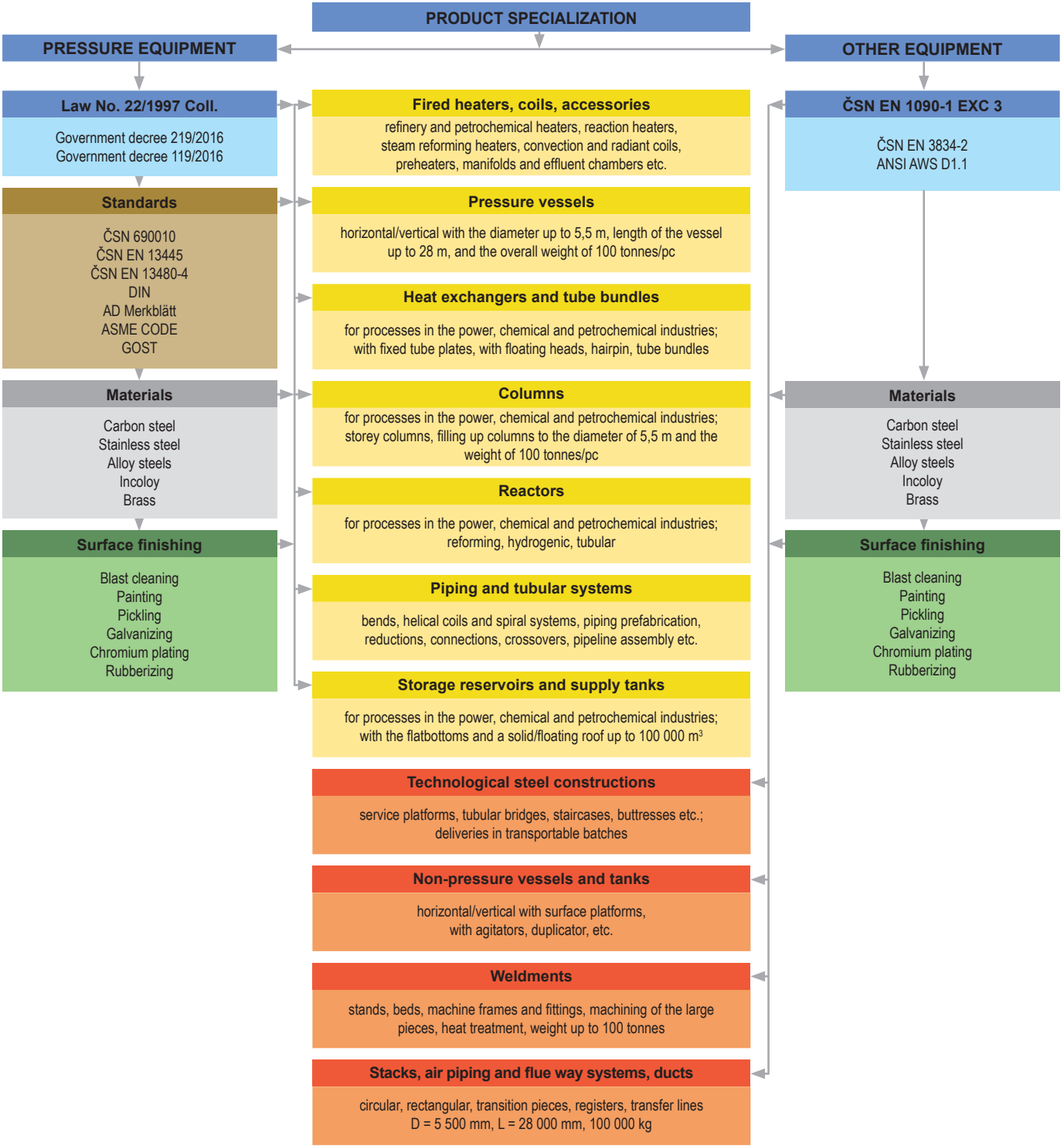
At the end of 2003, within the privatization of the company Královopolská, MBNS purchased production premises, originally referred to as "Special Chemistry", including their machinery and facilities. In the 1960 – 1999, this plant primarily manufactured the equipment for nuclear power plants, as well as for operators with high requirements for materials, environment purity and workmanship quality. This plant has been subject to a complete reconstruction and modernization.

The present MBNS production premises cover a total area exceeding 40,000 sq m of which aprx. 17,000 sq m is covered production area. Nowadays, MBNS can offer its own extensive production capacities to the customers. These include the manufacture of all kind of heaters, coils, pressure vessels, manifolds and effluent chambers, tube bundles, piping, steel structures and other equipment for the power engineering, chemical and petrochemical industries. Main markets are Czech Republic, EU, Middle East and all countries of former USSR.

In addition, MBNS offers reconstructions and modernizations of chemical and petrochemical plants. MBNS has got long-term experience in these activities and is able to ensure their implementation, including financing.



PRODUCT SPECIALIZATION





PRODUCTION FACILITIES

MECHANIC AND PLATE FORMING SHOPS

Plate edge planing - HHP 10 planing machine
min. plate width 90 mm, max. plate length 9 000 mm, through height 90 mm

Pre-bending - press HPC 250 TO
max. die width 1 000 mm, max. piston stroke 520 mm,
max. piston centre-to-housing frame depth 500 mm

Plate roll bending
max. plate thickness 45 mm, width 3 000 mm

Steel angles and profiles bending

Oxy-acetylene cutting
automatic max. 50 mm, manual max. 20 mm (CS)

Plasma cutting
max. 50 mm (SS)

Plate cutting
max. 10 x 3 000 mm

Saw cutting
At an angle up to 130 mm, upright 300 mm

Press for panel straightening
max. load 350 t

WELDING

Submerged arc welding (SAW) and plasma arc welding (PAW)
min. Ø 750 mm, max. Ø 5 500 mm

Standard thickness of welded plates, pipes and flanges
carbon steel 3 - 100 mm, stainless steel 3 - 100 mm

GTAW (TIG/WIG)
pipe outside Ø 16 - 800 mm

GMAW (MIG/MAG)
conventional and pulse welding in shield gas, pulse welding-mainly SS,
sources up to 500 A/60%ED

Electrode
conventional and special welding

GTAW (TIG/WIG)
pulse sources up to 500 A/60%ED

Stud welding
NELSON resistance stud welding from Ø 6 to Ø 14 mm

TUBE BENDING

Hot bending
D 89 - 377 mm, R min. 3 D but min. 400 mm,
R max. 3000 mm, max. bend angle 180°, max. wall thickness 23 mm

Cold bending
D from 16 to 51 mm, R min. 3 D, max. 200 mm, max. bend angle 180°,
max. wall thickness 3,5 mm

D from 57 to 159 mm, R min. 3 D - max. 600 mm, max. bend angle 180°

D from 20 to 89 mm, R min 3 D, R max. unlimited, bend angle 360°,
max. wall thickness 14 mm

tubes can be bent with the bend axis placed in more levels,
as well as helically up to max. Ø 114 mm

MACHINING

Horizontal boring and milling machine PT160M (2017)
spindle Ø 160 mm, X = 4 000 mm, Y = 2 800 mm, Z = 1 600 mm,
clamping area 4 000 x 4 000 mm, maximum load 16 t

Vertical lathe VTLD25 CNC (2018), SK 16, SK 12
max. machining Ø 2 700 mm, max. workpiece height 1 600 mm,
maximum load 10 t

Lathes
max. machining Ø 620 mm, max. L = 4 500 mm,
maximum load 3 t

Milling machines
spindle Ø 110 mm, X = 1 600 mm, Y = 1 250 mm, Z = 800 mm,
clamping area 1 400 x 1 400 mm, maximum load 8 t

Drilling machines
max. drilling Ø 40 mm, max. working span D = 2 000 mm,
max. workpiece height 1 200 mm

OTHER

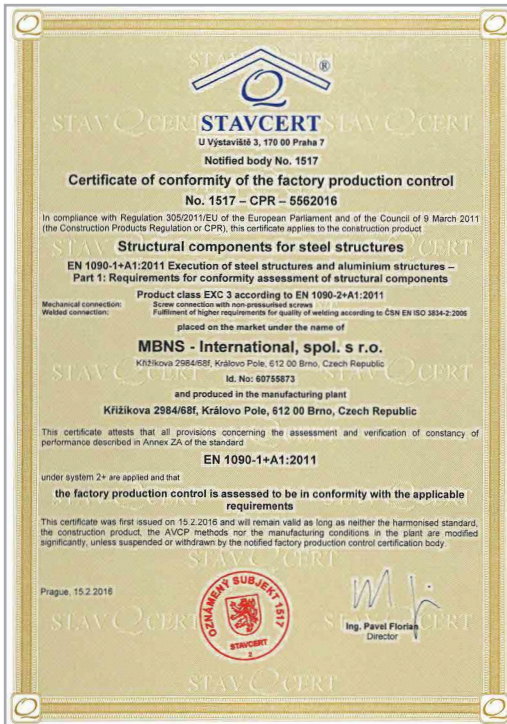
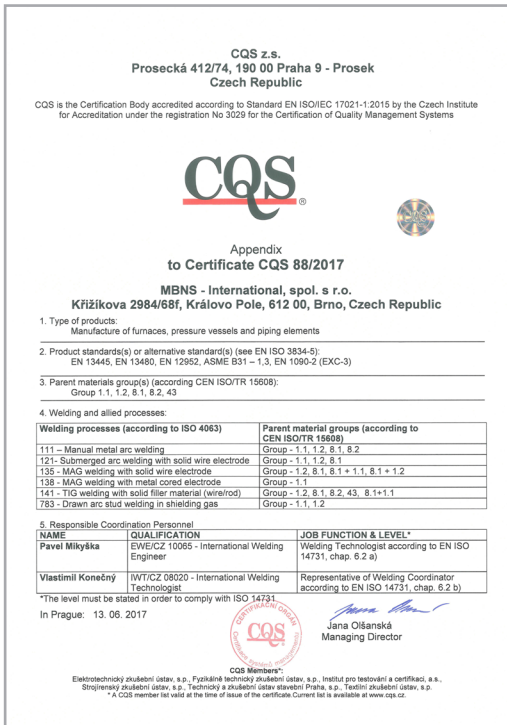
Non-destructive testing:
X-ray (RT), ultrasonic testing (UT), magnetic testing (MT),
penetration testing (PT), visual inspection, positive material identification (PMI),
hardness testing (HT)

Surface treatment: blast cleaning, painting, chrome plating, zinc coating
pickling: by submersion 1 500 x 1 500 x 10 000 mm
spray pickling

Heat treatment: post welding heat treatment/stress relieving (PWHT)

CERTIFICATION

- EN ISO 9001:2015
- EN ISO 9001: 2015 in relation to EN ISO 3834-2:2005
- AD 2000 Merkblatt HPO & EN ISO 3834-2:2005
- EN 1090-1+A1:2011, EXC 3 acc. EN 1090-2+A1:2011
- GOST-TRCU certification for particular projects in C.I.S. countries
- ASME certified welders (WPQ) & procedures (PQR)





SELECTED REFERENCES

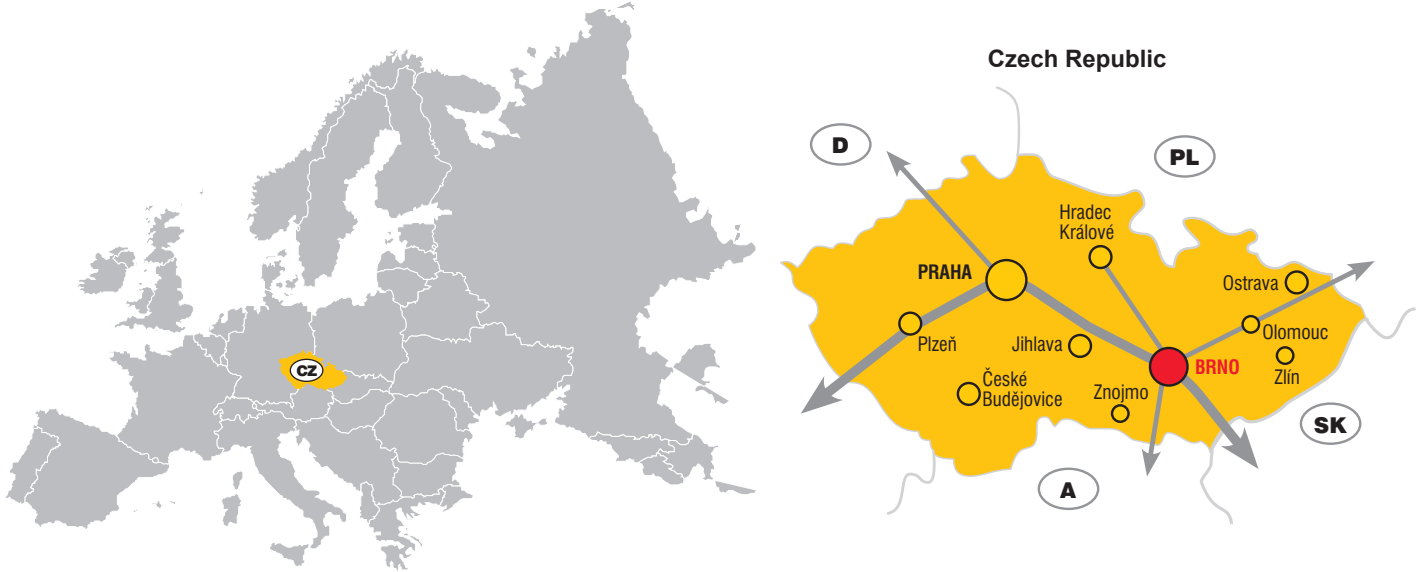
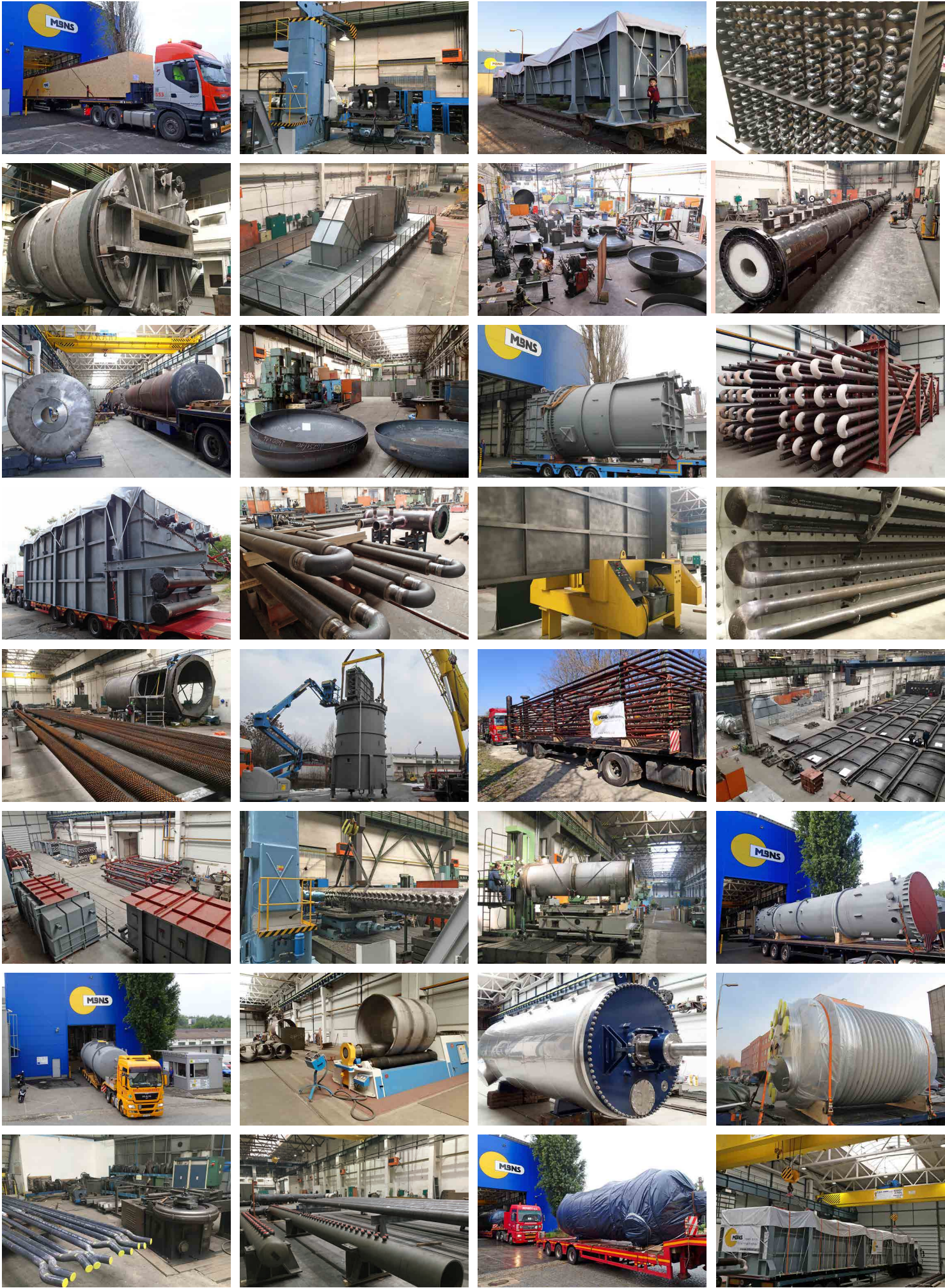
| | | |
|------|----------------|--|
| 2018 | Egypt | 4pcs of Regeneration Gas Heaters for VE for Zohr Development Project, Egypt, tubes 141,3 x 9 mm, CS A335 Gr.P22 |
| 2018 | Netherlands | spun cast mixed feed inlet headers of primary reformer H501 of ammonia for Yara Sluiskil, SMLS TUBES 355,6 x 27,3 mm / 457,2 x 33,45 mm A312 TP321H, pigtails 42,16 x 3,11 mm Incoloy 800H |
| 2018 | Uzbekistan | steel structure for piping support of primary reformer for Uzbekistan, Navoiy Fertilizer UNF project for Mitsubishi Heavy Industries |
| 2018 | Czech Republic | suction hoods, ducts, APEX HT |
| 2018 | Germany | transport steel frames for convection bank project |
| 2018 | Iraq | atmospheric heater 4-H01 for PU-001 Crude Oil Distillation Unit with CDU No. 4 LPG Unit, Basrah Refinery |
| 2018 | Czech Republic | steam turbine piping prefabrication, Siemens |
| 2017 | Czech Republic | spare parts (manifolds, bended tubes etc.) for heater 2512-H03, refinery Kralupy |
| 2017 | Iran | convection bank flue gas ducts, header boxes, s. s., Polymer Arian Company |
| 2017 | Slovakia | radiant coils of distillation fired heater B101.101, refinery Slovnaft |
| 2017 | Germany | oil regeneration heater 2D-400 incl. final assmebly and refractory, PURAGLOBE |
| 2016 | Slovakia | effluent chambers and pigtails of the heater BA102.301, refinery Slovnaft |
| 2016 | Italy | heavy offshore steel structures and platforms, General Electric |
| 2015 | Russia | combined Feed Heater 208-10-H001, Antipinsky oil refinery |
| 2015 | Russia | stripper Reboiler Heater 208-10-H002, Antipinsky oil refinery |
| 2015 | Russia | naphtha Splitter Reboiler Heater 208-10-H003, Antipinsky oil refinery |
| 2015 | Russia | stabilizer Reboiler Heater 208-20-H002, Antipinsky oil refinery |
| 2015 | Uzbekistan | steam turbine K 4,3-4,8 rotor package, Maxam-Chirchiq JSS |
| 2015 | Russia | steam preheater 12 H-163 of sulphur acid plant, Ryazan refinery |
| 2015 | Belarus | cylindrical fractional column feed heater P-351N, Mozyr oil refinery |
| 2015 | Russia | hydrogen steam reformer effluent chamber OH-2001, Ryazan refinery |
| 2014 | Iran | effluent transfer line 28 m + line between superheaters DN 508 x 65 mm for Urea&Ammonia project, Pardis Petrochemical |
| 2014 | Uzbekistan | steam turbine K 4,3-4,8 spare parts, Maxam-Chirchiq JSS |
| 2014 | Italy | heavy steel structures and platforms, Kazakhstan |
| 2014 | France | 2 pcs of hydrolisers with agitator and heating doubleskin jacket, weight 33t/pc, SARIA/SIFDDA |
| 2014 | Russia | vessels and deaerator tank, power plant Perm |
| 2014 | Belarus | helical coil for reformer heater No. 4, OAO Naftan refinery |
| 2014 | Czech Republic | 4 pcs of preheaters + ducts, APEX HT |
| 2014 | Iraq | 9 vessels + 2 heat exchangers, Dukan refinery |
| 2014 | Russia | spare parts for radiant coil - inlet/outled manifolds, Ryazan refinery |
| 2013 | Czech Republic | heat exchanger shells, TEDOM |
| 2013 | Belarus | helical coil for reformer heater No. 5, Naftan refinery |
| 2012 | Czech Republic | autoclave for automotive, DN 2200 mm |
| 2012 | Czech Republic | 3 pcs of stainless stell vessels, ČEZ |
| 2012 | Iraq | heater H-01, Basrah refinery |
| 2012 | Belorussia | heater P150N, reboiler for column K150N, Mozyr oil refinery |
| 2012 | China | air combustion preheater duct (100 tons), APEX HT |
| 2011 | Germany | stainless steel mixing vessel DN 2600 with half pipe heating spiral tube, BASF |
| 2011 | Germany | double-tube stainless steel vessels, D 2000 mm, G+R |
| 2011 | Iraq | convection part of the heater incl. coils, Basrah refinery |
| 2011 | Russia | magnesite plant furnace, PKI Teplotechna/Magnezit |
| 2011 | Russia | 3 pcs of vacuum heaters, Nizhnekamsk refinery, TANEKO |
| 2011 | Syria | cylindrical heater, Bertrams |
| 2011 | Czech Republic | low pressure boiler, ČKD Blansko |
| 2011 | Czech Republic | economizers for Kutná Hora power plant, PBS Brno |
| 2010 | Czech Republic | outlet air piping, power plant Ledvice, ALSTOM |
| 2010 | Germany | asphalt reheating furnace, Bertrams |

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| 2010 | Slovakia | economizers, boiler drum, PBS Brno |
| 2010 | Russia | heater F-501 for Astrakhan, Lurgi |
| 2010 | Russia | gas incinerator, Chabarovsk, John Zink KEU |
| 2010 | Czech Republic | MVE SEČ-hydraulic power plant water supply conduit reconstruction, fabrication of piping DN 2000, total length 861 m |
| 2009 | Russia | atmospheric heater of crude oil distillation unit, Usinsk refinery |
| 2009 | Czech Republic | tubular air pre-heaters (incineration plant), PBS Brno |
| 2009 | Russia | steam/gas mixture superheater of the steam reformer of the ammonia plant AM-76, KuibyshevAzot PJSC |
| 2009 | Czech Republic | header and shell for the exchanger steam chamber, ALSTOM |
| 2008 | Russia | atmospheric heater of crude oil distillation unit, Usinsk refinery |
| 2008 | Ukraine | heaters 222-H1, 222-H2 and combustion air ducts, Nadvirna refinery |
| 2008 | Russia | bottom collectors of the steam reformer of methanol production plant, Metaprocess/Novatek |
| 2005-2009 | Germany | gas-fired hot water boilers, output 450 – 5 000 kW, WOLF |
| 2007 | Syria | acid gas incinerator (brennkammer), STROY2, Bertrams |
| 2007 | Iran | heater 40KT/Y of asphaltic anhydride plant, Esfahan, Bertrams |
| 2007 | Germany | HD Unifiner, gas oil desulphurization, heater BA-6430 furnace, 5,32 MW, refinery BP, Gelsenkirchen |
| 2006 | Italy | heater steel structure, stacks, flue-gas ducting, combustion chamber for 400MW CCGP, Teverola, Foster Wheeler |
| 2006 | Russia | steelwork for HRSG unit, Moscow, ALSTOM |
| 2006 | Iraq | shaft heater and drum heater for Basrah Refinery |
| 2006 | Russia | effluent transfer line and 12 pcs of riser heads of the steam reformer ammonia plant AM-76, KuibyshevAzot PJSC |
| 2006 | Austria | stainelss steel tube bundle, Schoeller Bleckmann |
| 2006 | Slovakia | expander, Mochovce Nuclear Power Plant |
| 2006 | Russia | oil distillation unit - heater P1, 13,2 MW, LCC Mariysky Refinery |
| 2005 | Belarus | steam preheater E08, Koch Gliitsch |
| 2005 | Austria | large size air and flue gas ducts, Voestalpine, Linz |
| 2005 | Slovakia | drying equipment, Mochovce Nuclear Power Plant |
| 2005 | Poland | preheat furnace of wax hydrofining unit refinery, Prochem SA/Foster Wheeler |
| 2004 | Saudi Arabia | 5 pcs of charge heaters for Abu Dhabi, Hurtey |
| 2004 | Russia | heater for Sosnogorsk gas refinery, Škoda JS |
| 2003 | Italy | heater steel structure, stacks, flue-gas ducting, combustion chamber for 400 MW CCGP, Voghera Energia Italy/Foster Wheeler |
| 2000-2003 | Uzbekistan | completion of the nitric acid production plant of capacity 360 ths. t/year and of the ammonium nitrate plant of capacity 450 ths. t/year |
| 2002 | Iran | shells and steel structure of 2 reformers of Methanol Bandar Imam, Snamprogetti |
| 2001 | Venezuela | steel structure of 2 cocker heaters for Ameriven S. José, Foster Wheeler |
| 2001 | Trinidad | start-up heater of ammonia plant, Amec Birwelco, UK |
| 1999 | Turkmenistan | 2 cylindrical heaters of capacity 1,5 mil. t/year, Turkmenbashi refinery |
| 1999 | Turkmenistan | 5 heat exchangers, 3 coolers, 8 tube bundles, installation and commissioning works, Turkmenbashi refinery |
| 1998 | Turkmenistan | reconstruction of the L35-11/300 catalytic reformer, Turkenbashi refinery |
| 1998 | Venezuela | shells and steel structure of 2 reformers (Topsoe design), Heurtey/Snamprogetti |
| 1998 | Germany | supply and site erection of 2 cylindrical heaters, DEA - Mineraloel, Vesserling, ABB Lummus HT |
| 1997 | Russia | steam turbine PCPL 1000 spare parts, KuibyshevAzot PJSC |
| 1997 | Russia | spare parts for steam reformer, AKRON |
| 1997 | Ukraine | 5 pcs of radiant coils for ammonia plant reformar AM-76, OA DNIPROAZOT |
| 1996 | Ukraine | E 202, 80 t high-pressure condenser of the urea production plant, AZOT Cherkasy |
| 1996 | Turkmenistan | coils of the reformer, heat exchangers, coolers, Turkmenbashi refinery |
| 1994 | Russia | set of spare parts for the BNG (gas preheater unit) reconstruction, Jsc Minudobrenija Rossosh |
| 1993 | Ukraine | outlet manifolds of the steam reformer, AZOT Cherkasy |
| 1993 | Ukraine | complete set of radiant coils of ammonia plant steam reformer AM-76, OA DNIPROAZOT |
| 1993 | Russia | 2 urea reactors, vol. 39 m³, length 22,8 m, KuibyshevAzot PJSC |
| 1991 | Ukraine | complete set of radiant coils of ammonia plant steam reformer AM-76, SC Concern "Stirol", Gorlovka |

WHERE WE ARE

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GPS: 49° 13' 19.30" N, 16° 36' 77.00" E



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