

# COMPANY INTRODUCTION

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 establishment we have been satisfying the needs of chemical, petrochemical plants and refineries regarding deliveries of spare parts, repairs, reconstructions and modernizations of the existing plants. Main markets of our activities were countries within the CIS, particularly Uzbekistan, Turkmenistan, Russia and Ukraine.

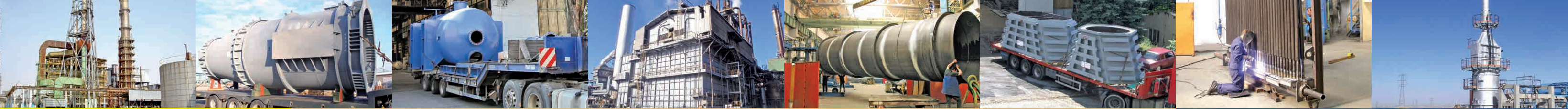
In the 2001 - 2003 period we successfully implemented our hitherto largest project, i.e. the completion of the plants for production of the nitric acid with a capacity of 360 thousand tons/year and of the ammonium nitrate with a capacity of 450 thousand tons/year at PO AZOT Fergana, Uzbekistan. The total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

At the end of 2003, within the privatization of the company Královopolská, we purchased production premises, originally referred to as „Special Chemistry“, including their machinery and facilities, where in the 1960 - 1999 was 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. Our present production premises cover a total area exceeding 40.000 sq m of which aprx. 17.000 sq m is covered production area.

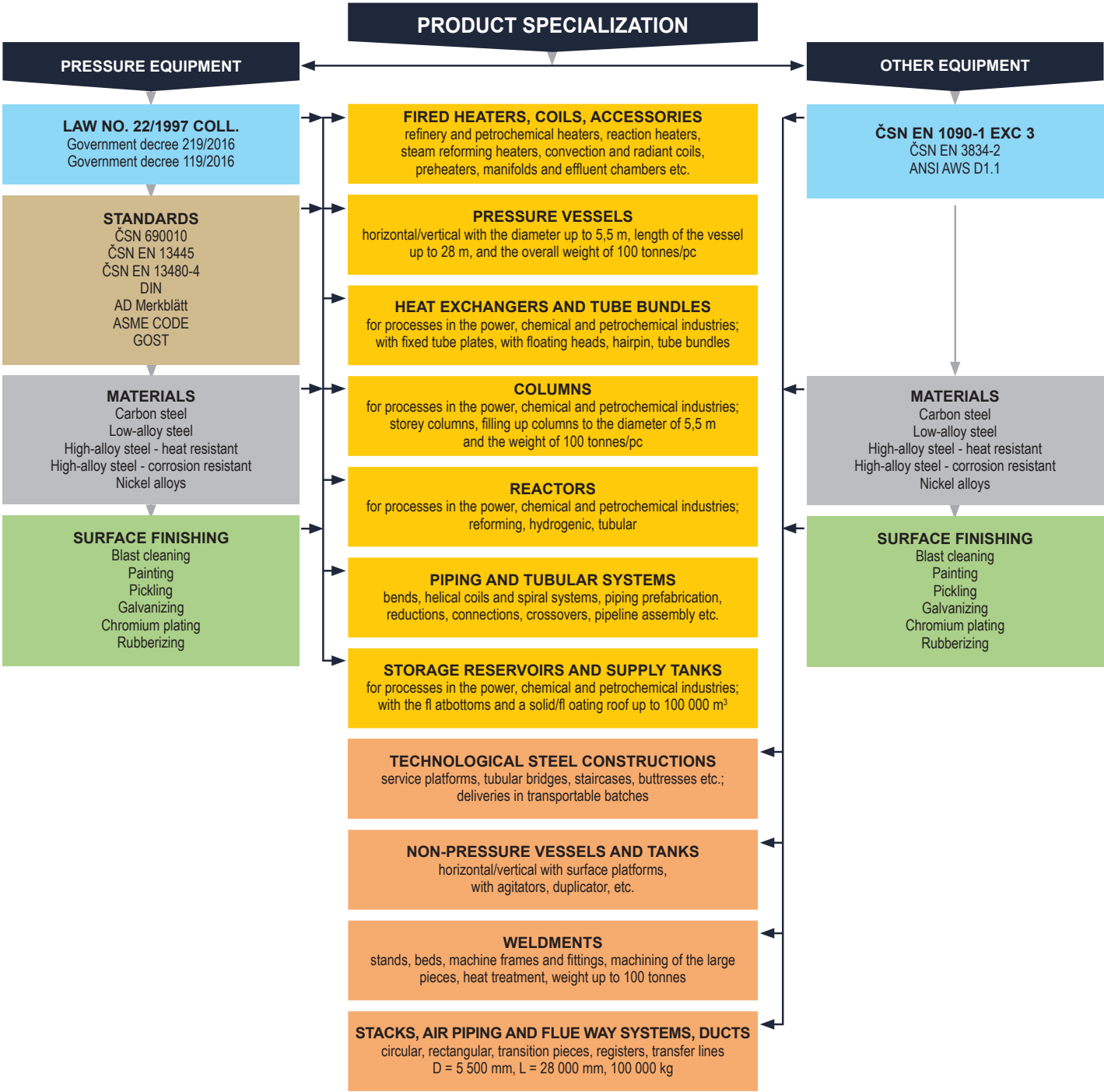
Nowadays, we can offer our own extensive production capacities to the customers. These include the manufacture of all kind of heaters, coils, pressure vessels, manifolds and effluent chambers, tube bundles, piping, steel structures and other equipment for the chemical, petrochemical, gas and oil industry, power industry and other industrial sectors. Our main markets are Czech Republic, EU, Middle East and all countries of former USSR.

In addition, we offer reconstructions and modernizations of chemical and petrochemical plants. We have got a longterm experience in these activities and we are able to ensure its implementation, including financing.

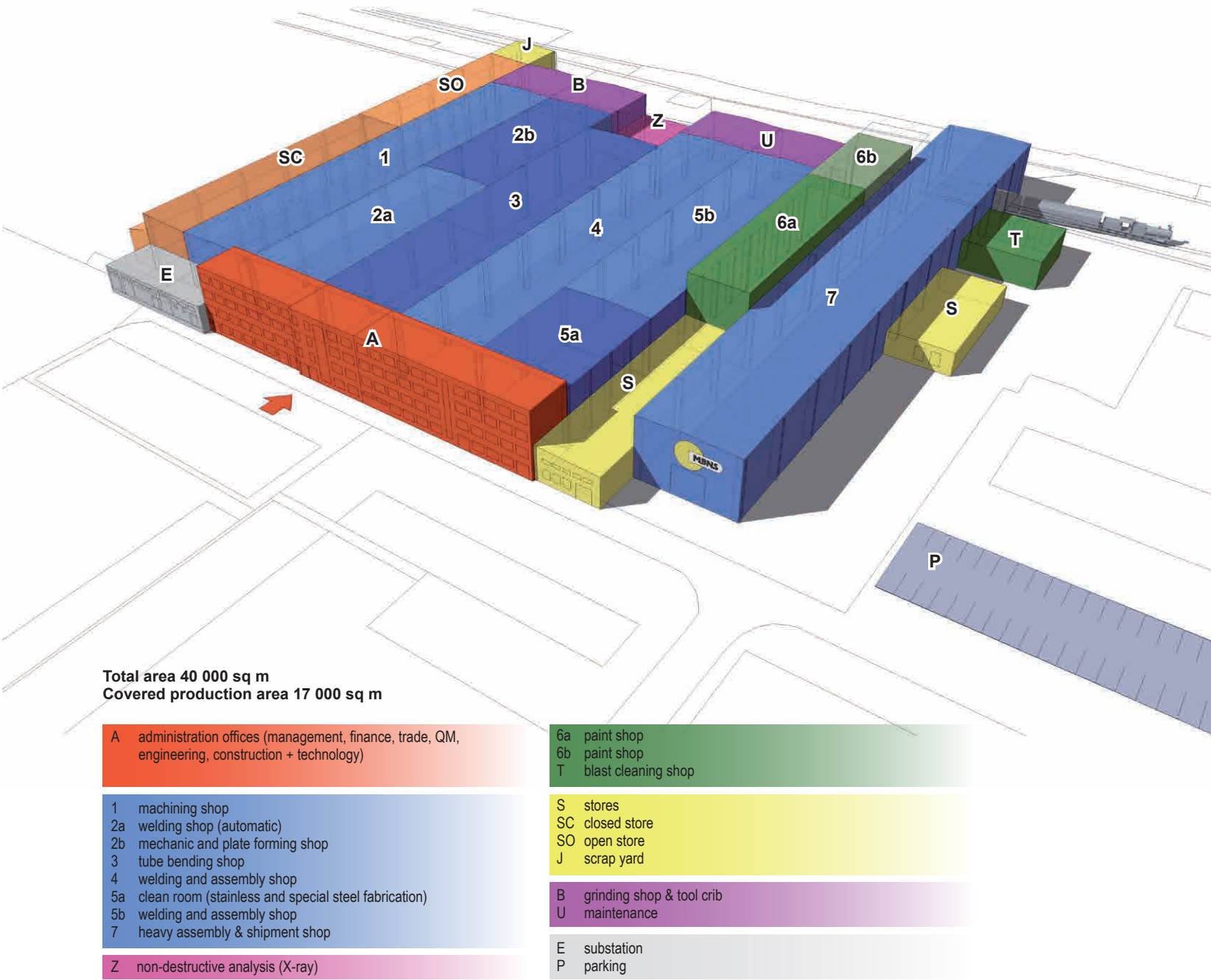




# PRODUCT SPECIALIZATION



# FABRICATION SHOPS







# 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, max. Ø 5 500 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. 450 mm,  
R max. 2800 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 108 mm, R min. 3 D - max. 600 mm, max. bend angle 180°

D from 20 to 159 mm, R min 3 D, R max. unlimited, bend angle 360°,  
max. wall thickness 8 mm

tubes can be bent with the bend axis placed in more levels,  
as well as helically up to max. Ø 159 mm

## MACHINING

**Horizontal boring and milling machine PT160M (2017)**  
spindle Ø 160 mm, X = 3 150 mm, Y = 2 300 mm, Z = 1 600 mm,  
clamping area 6 000 x 4 000 mm, maximum load 20 t

**Vertical lathe VTLD25 CNC (2018), SK 16, SK 12**  
max. machining Ø 2 700 mm, max. workpiece height 1 500 mm,  
maximum load 12,5 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), hardness testing (HT)  
magnetic testing (MT), penetration testing (PT)  
positive material identification (PMI)

**Surface treatment:**  
blast cleaning of carbon steel, painting

**Heat treatment:**  
post welding heat treatment (PWHT, Stress Relieving)

# 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

2019	Germany	oil regeneration heater D-400 incl. final assmebly and refractory, Puralube/Alttröglitz
2019	Czech Republic	revamp of heater B-101 Styren III unit, SYNTHOS Kralupy
2019	Czech Republic	flue ways + crossovers, SS/CS, APEX HT
2019	Iran	HT + LT CROSSOVERS, Kharg Ethylene plant – Olefin Complex
2019	Czech Republic	pressure vessels, wall thickness 40 mm, pressure 250 bar, silos ø 6 m
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/outlet 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

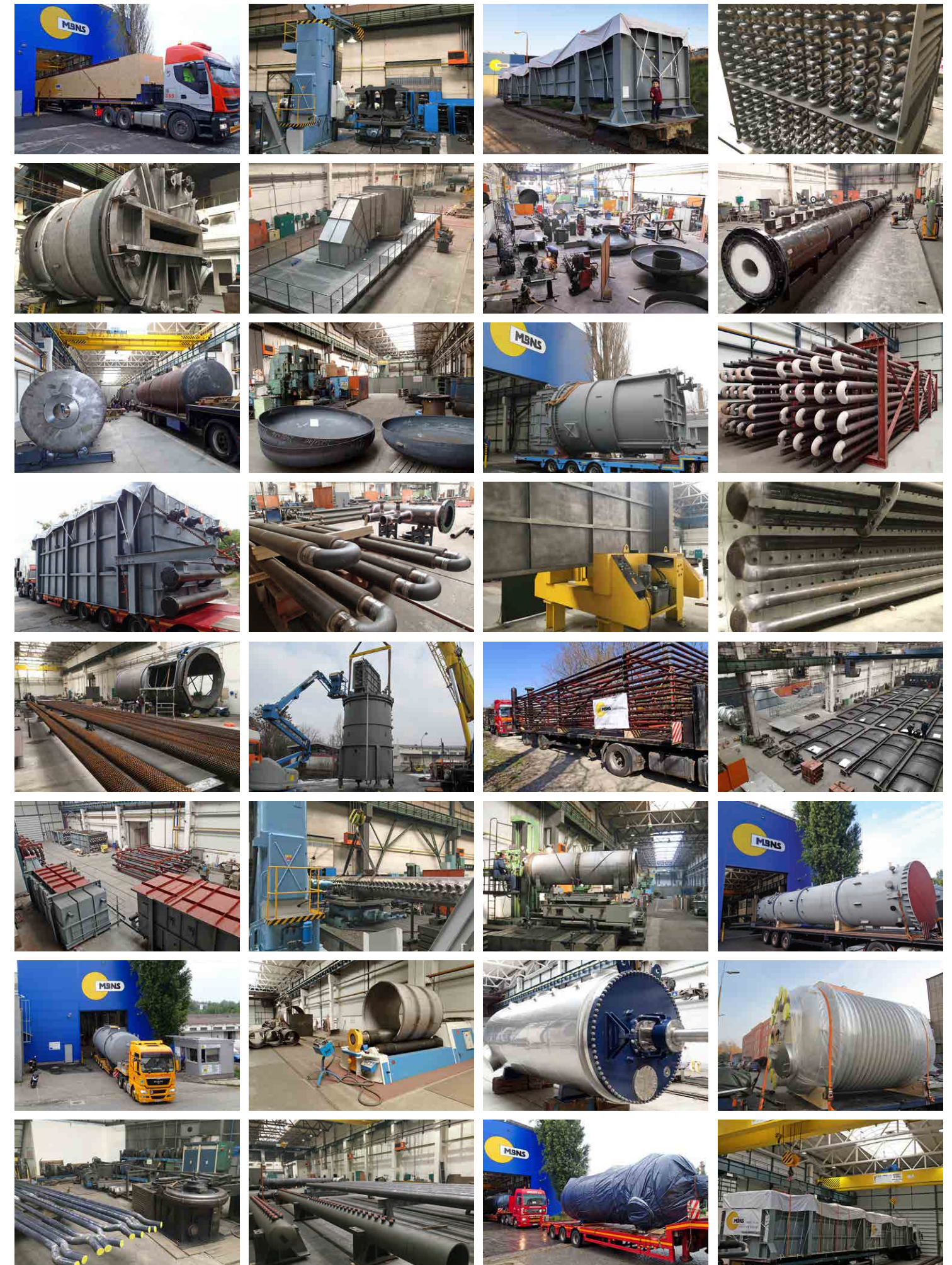
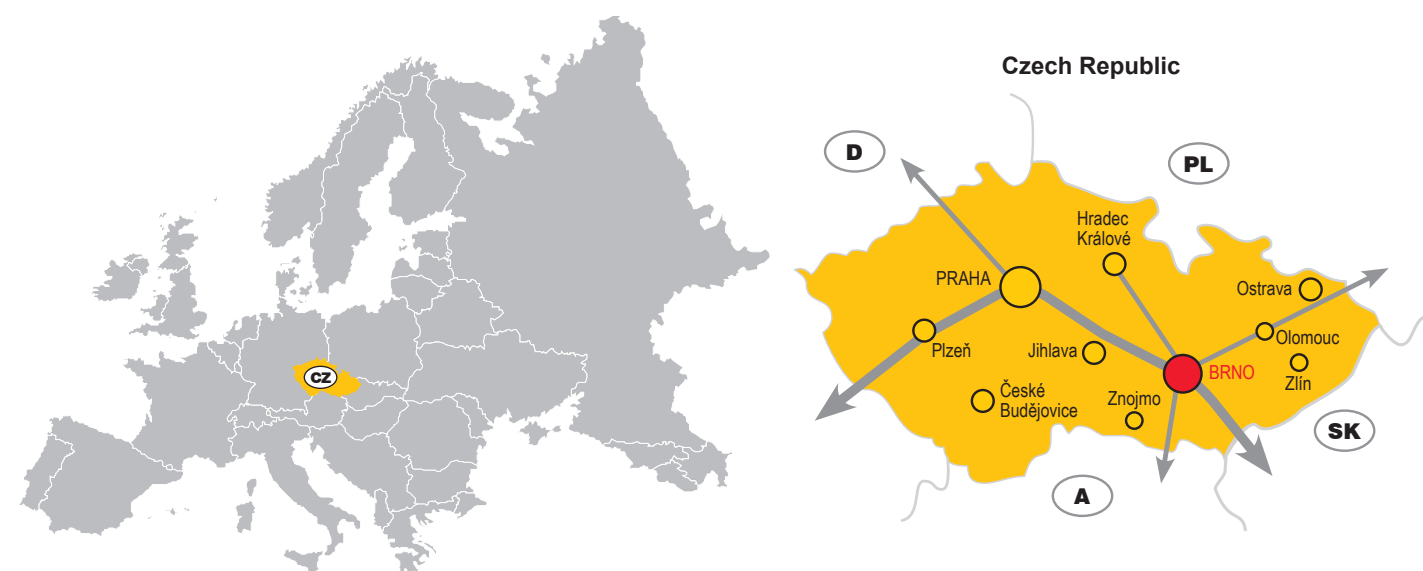
2010	Czech Republic	outlet air piping, power plant Ledvice, ALSTOM
2010	Germany	asphalt reheating furnace, Bertrams
2010	Slovakia	economizers, boiler drum, PBS Brno
2010	Russia	heater F-501 for Astrakhan, Lurgi
2010	Russia	gas incinerator, Chabarovsk, John Zink KEU
2010	Czech Republic	MVE SEČ-hydraulic 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, Nadvira 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 planr 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
1990	Russia	reaction tubes for reconstruction of the ammonia plant, capacity of 1000 t/day, AO TogliattiAzot



# WHERE WE ARE

MBNS - International, spol. s r.o.  
Křižíkova 2984/68f  
612 00 Brno  
Czech Republic

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





MBNS – International, spol. s r.o.  
Křižíkova 2984/68f  
612 00 Brno  
Czech Republic  
tel.: +420 533 339 200  
fax: +420 533 339 210  
e-mail: [mbns@mbns.cz](mailto:mbns@mbns.cz)  
[www.mbns.cz](http://www.mbns.cz)

VAT Reg No: CZ60755873