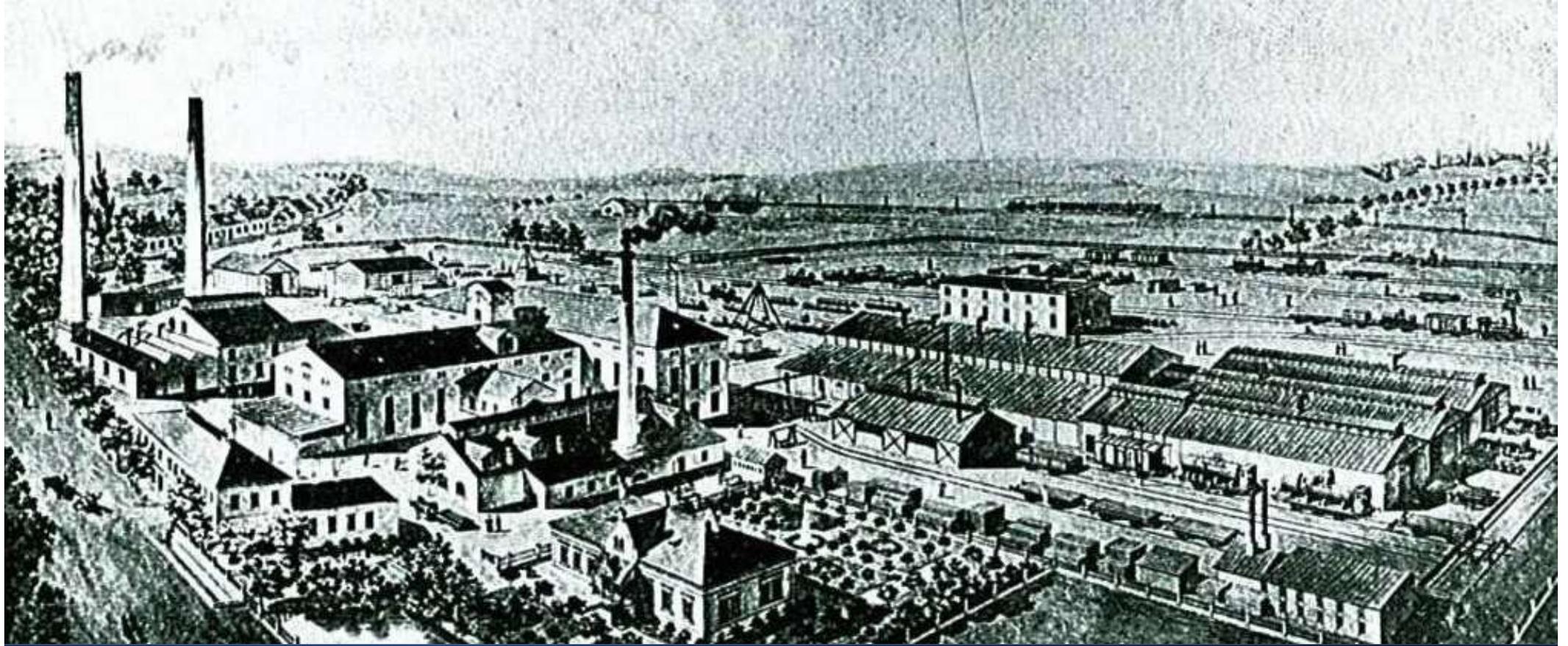


Traditional Manufacturer of Equipment for the Chemical and Petrochemical Industry

Quality, Reliability and Innovation since 1889



KRÁLOVOPOLSKÁ, a.s.



Company with a long tradition

Historical Milestones



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Foundation of the company, manufacturing programme development

- 1889** Gentlemen LEDERER and PORGES are establishing an engineering company for production of coaches, steam generators and compressors.
- 1920** Manufacturing programme is extended for production of cranes.
- 1950** Production of equipment for chemical industry, for water treatment and industrial filters.
- 1970** Orders for refineries in Syria, Russia and Iraq represent significant production.



Foundation of the company, manufacturing programme development

- 1980** Stable manufacturing programme with basic important lines of products for chemical and petrochemical industries, steel constructions and special products. Export to world markets.
- 1992** Transformation into joint stock company Královopolská, a.s.
- 2004** The company becomes the property of private owners.
- 2008** Modernization and technology development of company.



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Modern and innovative

Present Milestones



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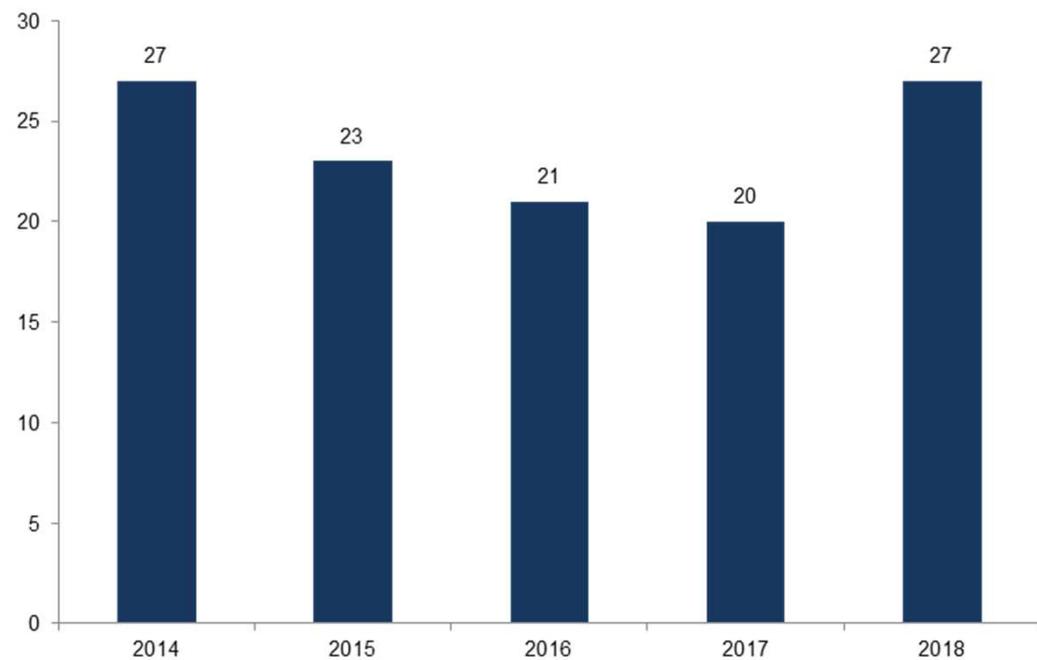
Basic information

Registered capital: 16 mio. EUR

Total staff: 390
thereof selected departments

- Production: 180
- Engineering: 52
- Quality: 36
- Sales: 12

Revenue from sales (mio. EUR)



Deliveries in countries

Europe

- Belarus, Bulgaria, Czech Republic, Estonia, Finland, Lithuania, Germany, Poland, Russia, Slovakia, Turkey, Ukraine.

Asia

- Iraq, Iran, Kazachstan, Syria, Turkmenistan, Uzbekistan.

Others

- Egypt, Indonesia, Venezuela.



Product portfolio

Heat exchangers

- with fixed tube plates
- with floating head
- with U-tubes

Technical information

Material: SS, CS, Bimetal, Brass

Thickness of tube sheet: up to 500 mm
(Tubes can be mechanically and hydraulically expanded and/or welded)

Pressure: up to 40 MPa

Min. wall thickness: 0.5 mm

Max. weight: 200 t



2009, Slovnaft montáže a opravy – Tube bundles – 19 t



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Product portfolio

Equipment for power industry

- Condensers
 - axial
 - radial
- LP heater
- HP heater

Technical information

Material: SS, CS, Bimetal, Brass

Max. dimensions: 5 500 x 35 000 mm

Max. weight: 200 t



2010, SIEMENS – Condenser – 107 t



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Product portfolio

Columns

- atmospheric
- pressure
- vacuum

Technical information

Material: SS, CS, Monel, Bimetal

Max. dimensions: Ø 5 500 x 85 000 mm



2013, PROKOP ENGINEERING – Column – 7.7 t



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Product portfolio

Reactors

- refinery
 - hydrogenation processes
 - cracking processes
- chemical industry

Technical information

Material: SS, CS, Bimetal, Monel

Pressure: 40 MPa



2016, ShchekinoAzot – Reactor R201– 25,5 t



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Product portfolio

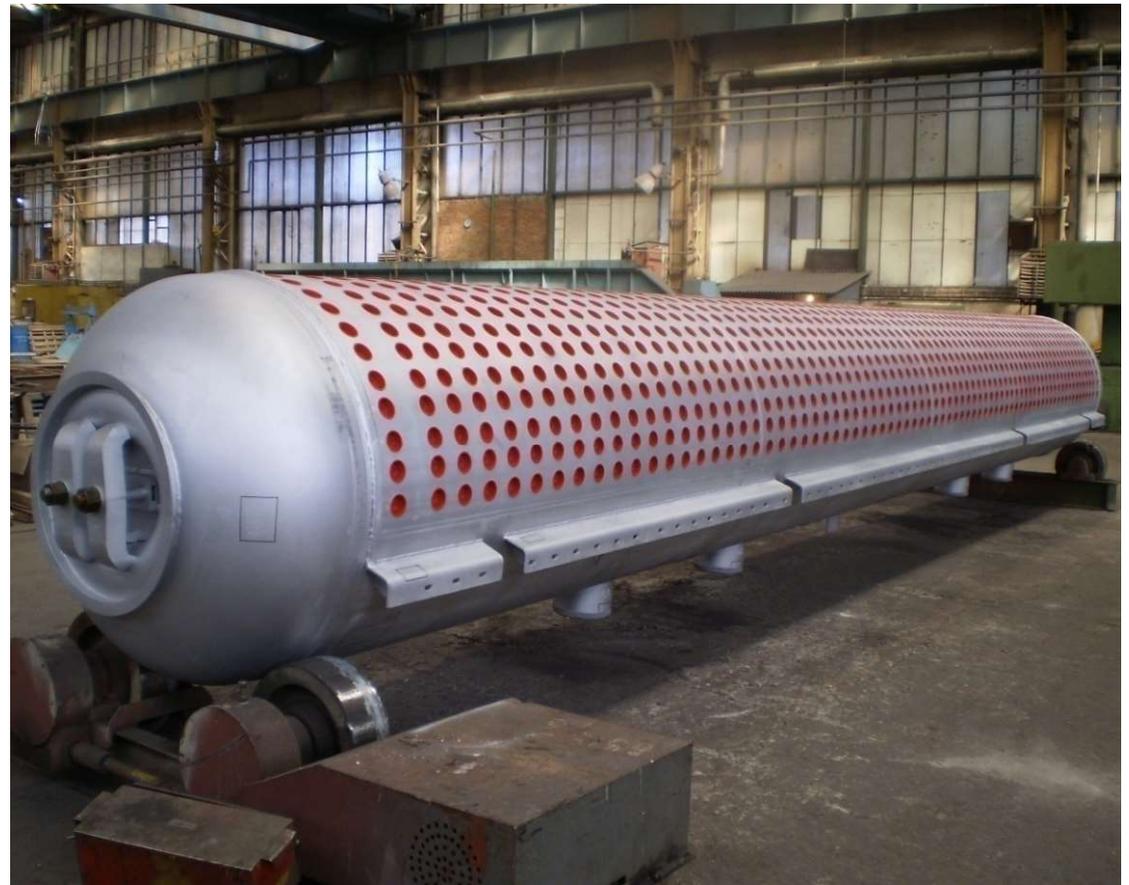
Vessels

- free-flow
- pressure
- with blender

Technical information

Material: SS, CS, Bimetal, Monel

Pressure: 40 MPa



2010, VÍTKOVICE POWER – Boiler drum – 14.7 t



KRÁLOVOPOLSKÁ, a.s.

Product portfolio

Equipments for nuclear power plants

- ion filters
- slag trap
- rotary evaporators
- separators
- heat exchangers



2014 - 2015, Thermal Engineering International (USA) – MSRs



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Product portfolio

Boilers and parts of furnaces

- spare parts of furnaces
- batch furnaces
- collectors
- utilization boilers



2009, OAO Uralhimmash – Convection Tube System – 7.2 t



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Production possibilities

Total production area: 36 900 m²

Cutting shop

- area: 3 700 m²
- lifting capacity: 16 t

Cranes

- area: 14 000 m²
- lifting capacity: 2 x 25 t
- max. product dimension:
 - W: 5.5 m
 - H: 6.5 m
 - L: 50.0 m
- entrance gate: 7.3 x 5.7 m



Production possibilities

Chemistry

- area: 18 000 m²
- lifting capacity: 30 t + 160 t
- max. product dimension:
 - dia: 5.5 m
 - L: 40.0 m
- entrance gate: 6.8 x 5.9 m

Special processes

- heat treatment
- blasting
- painting



Production technologies

Material cutting

	Length [mm]	Width [mm]	Thickness [mm]
Flame	12 000	4 000	300
Plasma	14 000	2 000	120

Material preparation

	Length [mm]	Width [mm]	Thickness [mm]
Edge milling	12 000	3 000	
Rolling		5 000	50



Production technologies

Machining

	Ø [mm]	Height [mm]	Length [mm]
Carousels	5 260 3 400	3 500 2 120	
Cylinder boring machines (max. traversing of support)		3 150 4 000	6 000 5 000

Horizontal machining centre – FUQ 150 B

Basic data

Feed range:

- Axis X 10 000 mm
- Axis Y 4 000 mm
- Axis Z 1 500 mm

Speed: 4 000 rpm

Rotating table - 2 000 x 2 500 mm



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Production technologies

Heat treatment

Max. temperature [°C]	Inside parameters of furnace [mm]	Capacity [m3]
900	3 800 x 3 800 x 28 000	106
1 100	2 800 x 2 800 x 15 000	42
1 100	3 800 x 1 000 x 5 500	21

Welding

- SMAW, GMAW, GTAW, SAW, Method 783

Welding equipment

- Kemppi, Fronius, Lincoln Electric, Messer Greishem, ESAB, Migatronik Polysoude



Production technologies

Surface treatment

PAINT SHOP

- spray booth with dimensions 7.5 x 7.5 x 35 m
entry rolling doors 6.5 x 6.5 m
- product weight up to 50 tons, exceptionally up to 100 tons

BLASTING SA 2.5

- abrasive blasting by steel grid
- box dimensions 4.7 x 5.5 x 20 m



Quality policy

We meet quality requirements of our customers:

CERTIFICATE ČSN EN ISO 9001 : 2016

ISO 14001

OHSAS 18001

ISO 50001

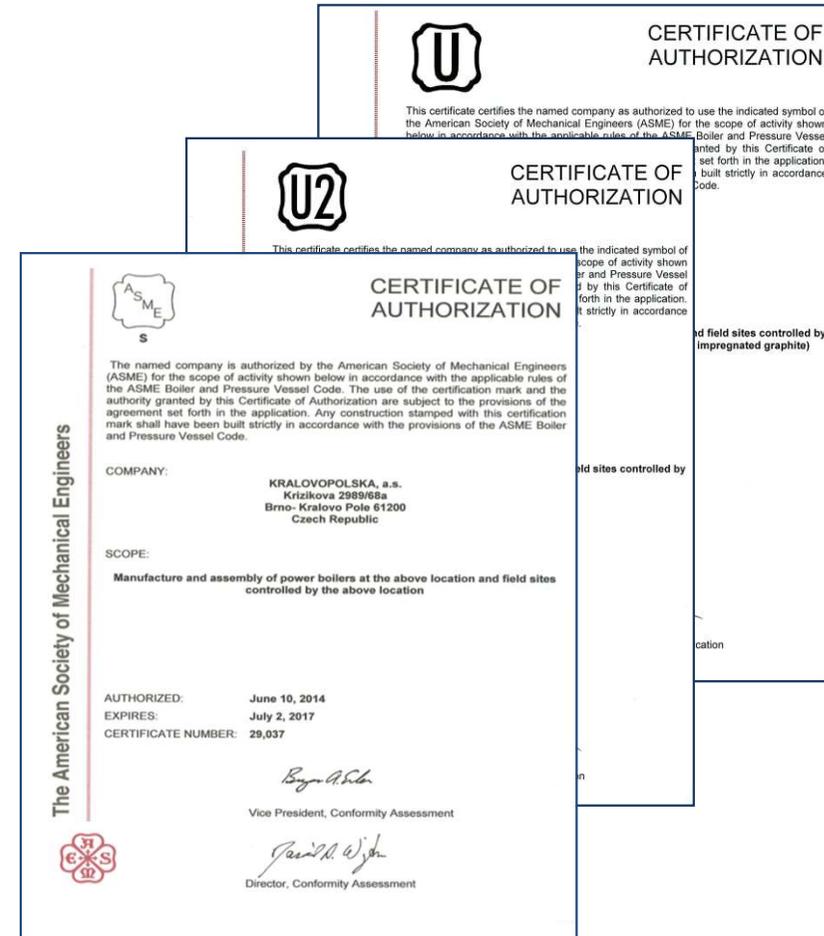


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Production certification and licences

Boilers and pressure vessels

- ASME BPV – Code - Section 1, Section VIII - Division 1, Division 2
- Certificate on license to register products imprinted with the ASME Code Symbol – S, U, U2
- AD Merkblatt HPO
- Certificates of Conformity (TP-TC Таможенного союза) – Russia, Belarus, Ukraine



Selected References

Customer: SIEMENS

Product:

- Axial condenser 1605 m², 48 t
(Gulf Chana, Thailand, 2018)
- District heater 1798 m², 47 t
(Vilnius Biomass, Lithuania, 2018)
- Axial condenser 539 m², 18 t
(Rustavi Azot, Georgia, 2018)
- Radial condenser 918 m², 27t
(Czestochowa, Poland, 2018)



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Selected References

Customer: ALSTOM (GE)

Product:

- Condenser 3640 m², 105 t
(Chelyabinsk, Russia - 2013)
- Condenser 3430 m², 93 t
(SENG KANG, Indonesia - 2012)
- HP tube bundles, 18,4 t
(Czech Republic, 2007)



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Selected References

Customer: TECHNOEXPORT PRAHA ,
2007 - 2009

for:

South Refinery Co. - Iraq

- Basrah Refinery

Midland Refinery Co. - Iraq

- Daurah Refinery

Product:

- Heat exchangers and vessels
– 42 pcs, for project 70.000 BPSD
NEW CRUDE DISTILLATION UNIT



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Selected references

Customer: ZVU ENGINEERING

Product:

- Regenerator 13 t – 2017



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