POWER OF PROCESS
QUALITY OF **SERVICE**

ŽELEZIARNE PODBREZOVÁ GROUP

Železiarne Podbrezová a.s. belongs to the oldest metallurgical companies in Central Europe. Its history dates back to 1840.

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Its history dates back to 1840.



in the 19th century



today

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Its history dates back to 1840.



in the 19th century



today

Company milestones

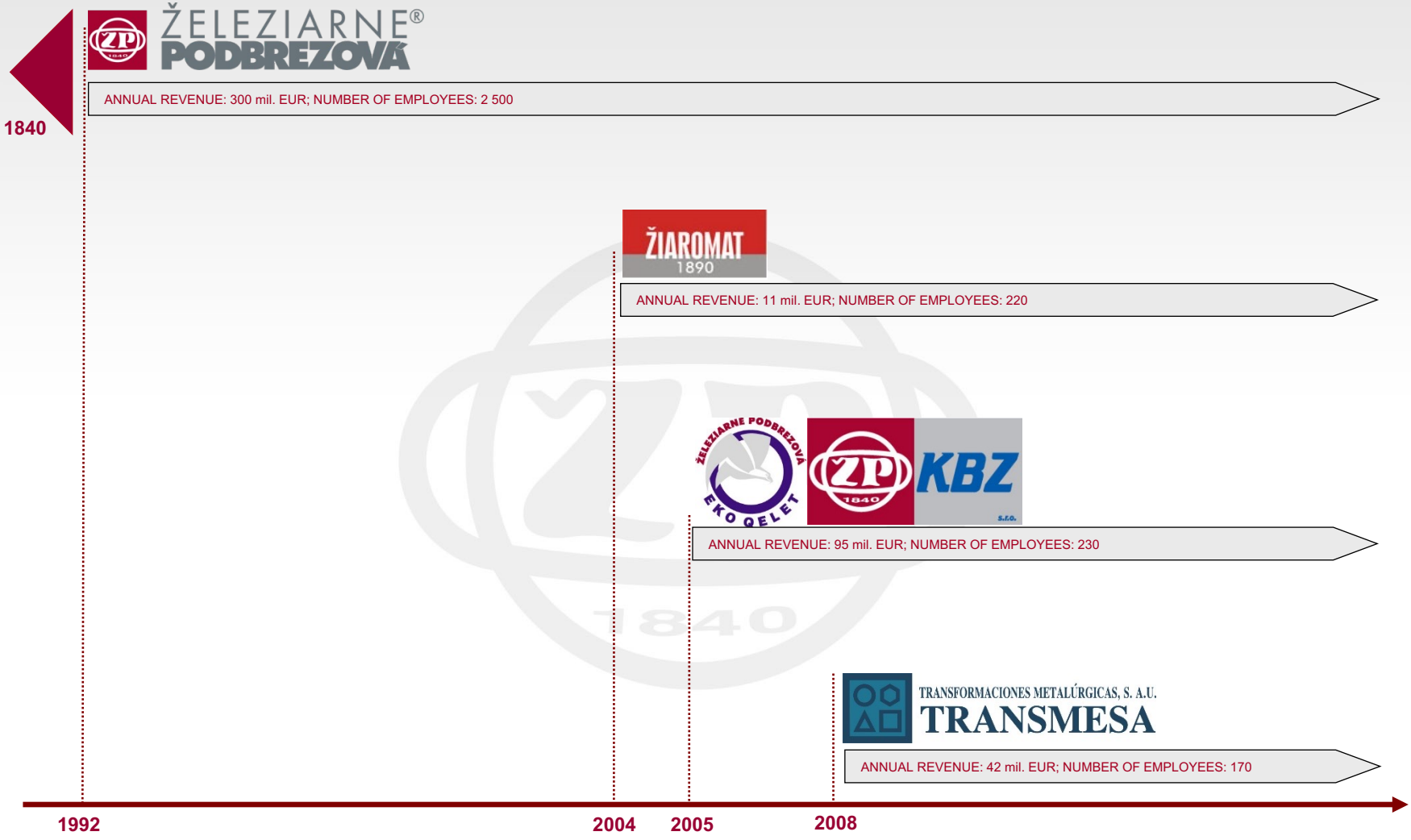
1840	Plant construction started
1854	Production of rails started for the Hungarian Empire
1879	Construction of the first SM furnace in Slovakia
1930	Construction of the Mannesmann tube rolling mill
1960	First con-casting machine in Czechoslovakia and 7th in the world
1972	Start of production of cold drawn precision tubes
1979	Start of production of rolled tubes in the rolling mill with a push bench
1982	Installation of second continuous casting machine
1993	High-performance electric arc furnace
2010	Start of the line for the production of electrolytic galvanized steel tubes
2013	Installation of third facility for continuous casting of steel
2015	Portfolio of rolled tubes has been expanded by 74 dimensions
2023	Largest photovoltaic power plant in SK was built on the roofs of our halls



Before 1989, production of the company went to the former Soviet Union market.

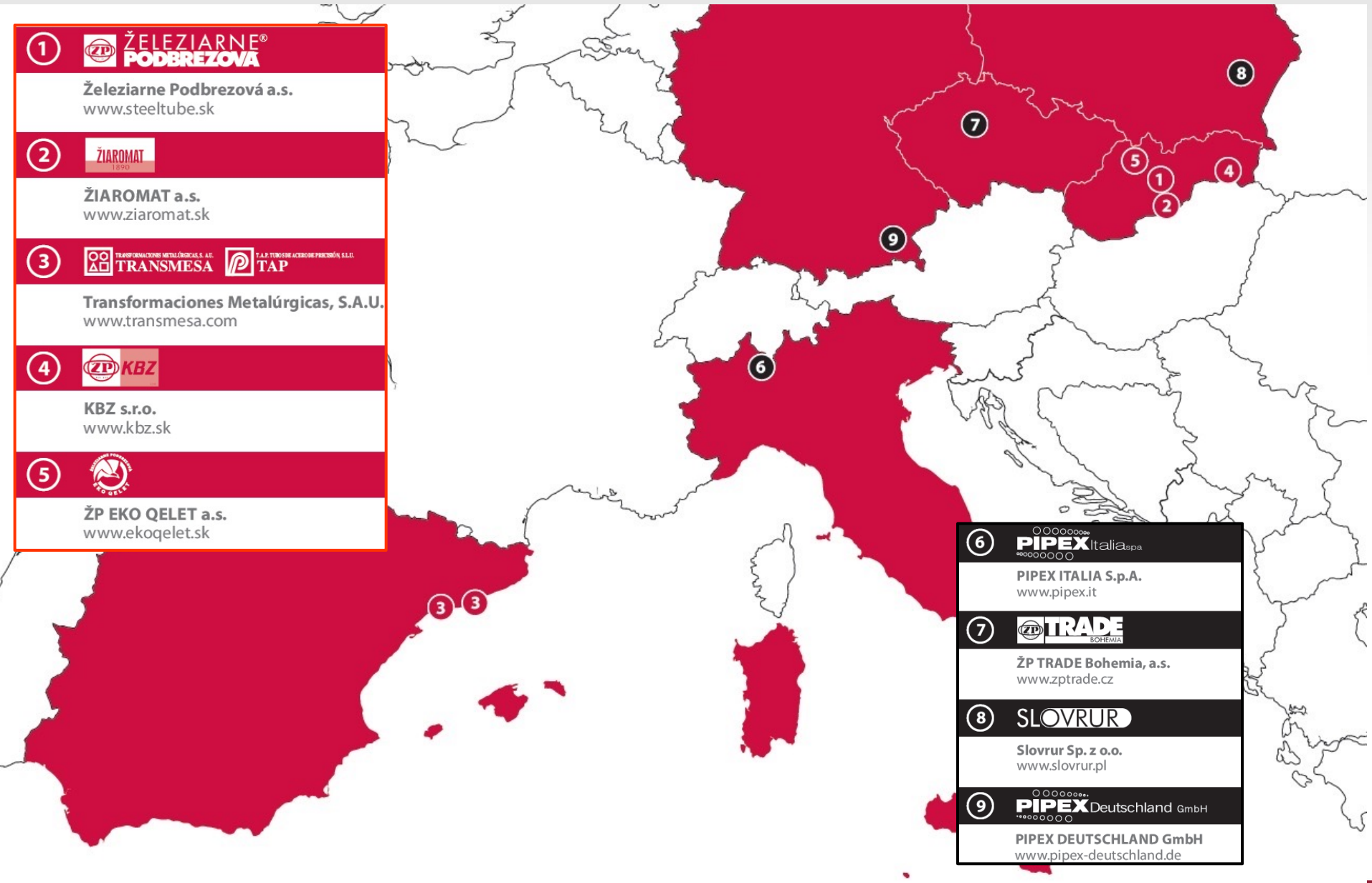
- before 1989 65% of production went to the former Soviet Union
- barter business, for which the country received natural gas and oil
- 1989 - political changes in Central and Eastern Europe
- transformation of the socialist planned economy to a market economy
- privatization of state enterprises in the former Czechoslovakia in 1992
- the joint-stock company established on 01.05.1992
- collapse of the old markets and the creation of new sales strategy of the company
- Today 90% of export sales (80% in the EU and 10% rest of the world)

Železiarne Podbrezová GROUP



- more than 4 000 employees,
- in Slovakia, Czech Rep., Spain, Italy, Germany, Poland,
- sales revenue of 400 mil. EUR.

Železiarne Podbrezová GROUP



Železiarne Podbrezová GROUP – Mother company





ŽELEZIARNE PODBREZOVÁ

Železiarne Podbrezová GROUP - Transmesa







T.A.P. TUBOS DE ACERO DE PRECISIÓN, S.L.U.
TAP

TRANSFORMACIONES METALÚRGICAS, S. A.U.
TRANSMESA

Transmesa is the specialist in the manufacture of precision cold drawn tubes and tubular sections in carbon or low alloy steel.

Transmesa was founded in 1944 by Eduard Vicens Masgoret. The company became part of the Slovakian group Železiarne Podbrezová a.s. in July 2008.

Železiarne Podbrezová GROUP – scrap procesing companies





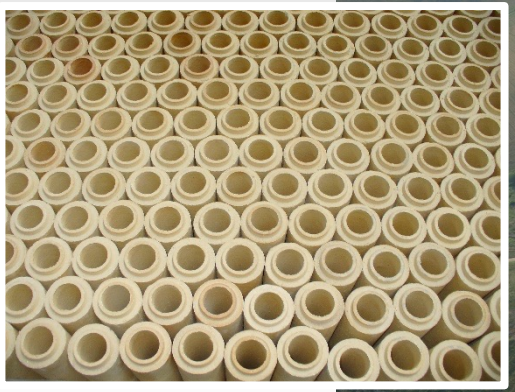
Member of ŽP Group
since 2005

Member of ŽP Group
since 2007

The both companies perform activities in the following areas:

- collection of steel scrap and nonferrous metals
- winding up production facilities and technological equipment
- the authorized collection and processing of car wrecks
- the processing of scrap metal using sorting methods, burning, cutting, compacting and shredding
- sale of the steel secondary raw materials and non-ferrous metals

Železiarne Podbrezová GROUP - Žiaromat





On the European and domestic market the company is known as the manufacturer of heat resisting materials. The company became part of the Slovakian group Železiarne Podbrezová a.s. in the second half of 2004.

ŽIAROMAT 1890

Železiarne Podbrezová

Mills

Steel Mill
Hot Rolled Tube Mill
Cold Drawn Tube Mill

Tubular Semi-product Mill
Fitting Mill

Products

Steel Blooms
Seamless Steel Tubes
Precision Seamless Tubes
Steel Fittings

1	R&D center
1	private schools
50	school graduates
185	years of history
2 500	employees
360 th.	tons of steel a year
10 mil.	investment a year

Sales of core products, in year 2025

	Total sale	
Products	Tonnes	%
Steel billets	80 506	33,2
Hot rolled tubes	118 612	48,8
Seamless precision tubes	41 602	17,1
Steel elbows and reducers	2 193	0,9
Total sales	242 915	100

Železiarne Podbrezová GROUP, sales channels

Sales and Marketing organizations

PIPEX Italia, Arona, Italy

The company is ŽP sales and distribution channel, which accounts for 19.5% of total sales. It operates on European and Middle East markets. Its share of tube sales is **28.4 %**.

PIPEX Deutschland, München, Germany

The company is the distributor marketing ŽP and Transmesa products in Germany.
Its share of total sales is around 7.3% and tube sales is **10.8%.**

ŽP Trade Bohemia, Praha, Czech republic

The company is the distributor marketing ŽP and Transmesa products in Czech Republic. Its share of total sales is around 12.9% and tube sales is **9.3%.**

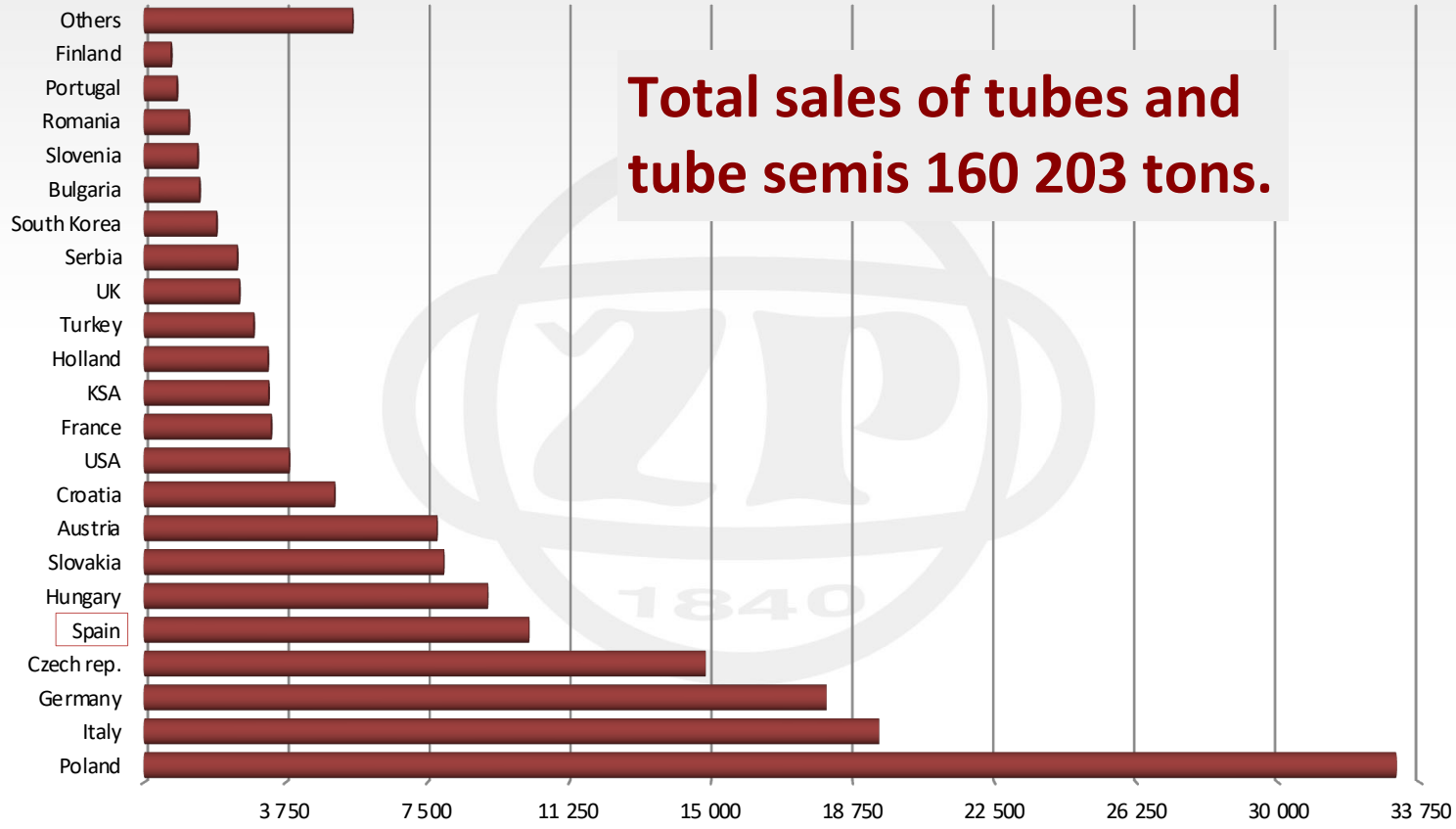
Slovrur, Stalowa Wola, Poland

The company is the distributor marketing the ŽP and Transmesa products in Poland.
Its share of total sales is around 13.8% and tube sales is **20.6%.**

Notes:

- Slovak market is 3.3% of total sales and **5.0%** of tube sales.
- Export Sales department of Podbrezova sales to territories: Hungary, former Yugoslavia and Soviet Union, its share of total sales is 39.4% and of tubes **20.1%**.
- Transmesa, its share of total sales is 3.8% and of tubes **5.8%.**

Sales by countries, 2025 *(blooms excluded)*

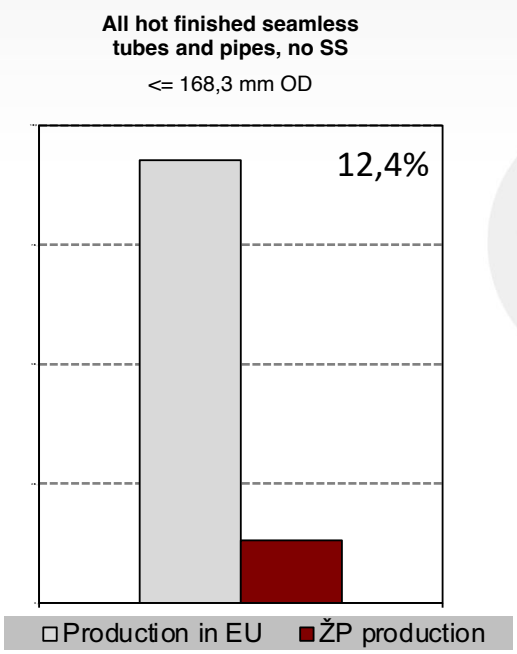


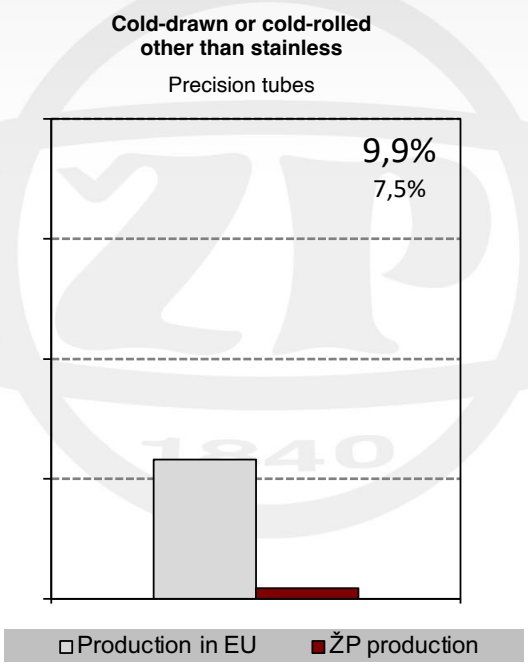
Total sales of tubes and tube semis 160 203 tons.

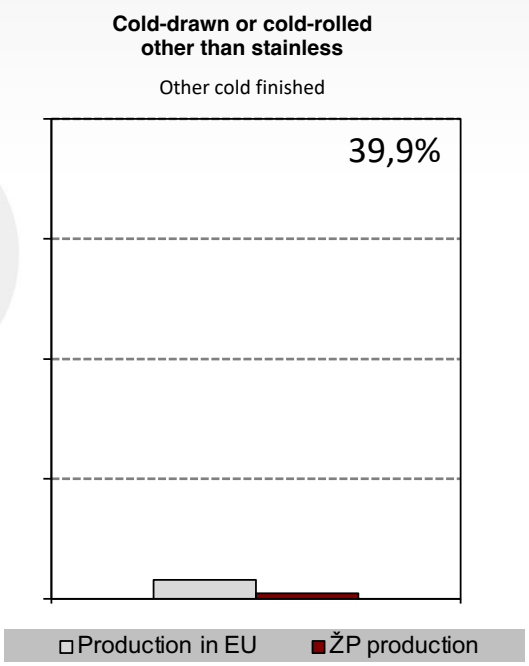
Market share,

ESTIMATE OF CONTRIBUTION TO THE PRODUCTION OF SELECTED PRODUCTS IN THE EU, in 2025 (1-9)

source ESTA, PRODCOM statistics







Strengths

1	Closed production cycle begins with the purchase and processing of steel scrap, continues with steel and steel tubes production and it follows with finalization and transportation to the customer. All activities are performed by companies associated under the name ZP Group.
2	Developed global sales and distribution network, technical support, quick response to customer demands and short delivery times.
3	Strong position among steel tube manufacturers in EU, the company produces approx. 9.6 % of total EU production of HRT and approx. 10 % of precision seamless tubes (included TM production).
4	Research and Development center belonging to the ZP Group and cooperation with the Faculty of Metallurgy of the Technical University are the guarantors of progress and development of products, services and technologies.
5	Private Secondary Technical School and private High School of the company annually prepares more than fifty graduates of the metallurgical profession.
6	Continuous modernization and optimization of technologies in the annual financial statements by an average of 10 million. EUR.

Strengths

Closed production cycle begins with the purchase and processing of steel scrap, continues with steel and steel tubes production and it follows with finalization and transportation to the customer. All activities are performed by companies associated under the name ZP Group.

Steel scrap collecting and processing
Heat resisting materials

Electric Arc Furnace (EAF)

Ladle Furnace (LF)

Continuously Casting Machine

Hot rolled tube mill

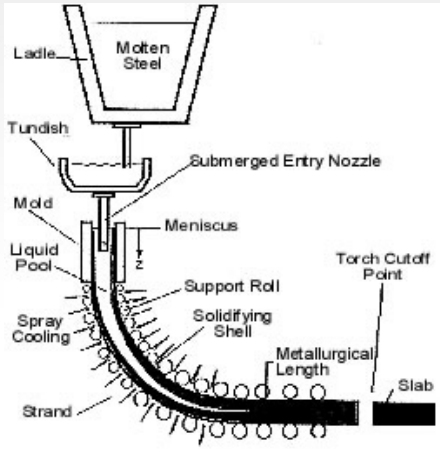
Cold drawn tube mill

Tube finalization

Transport to customers

Quality is our top priority.

Continuously cast steel billets

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Všetky práva vyhradené, zákaz akéhokoľvek kopírovania akýmkoľvek spôsobom.

Steel scrap processing

↓

Electric Arc Furnace (EAF)

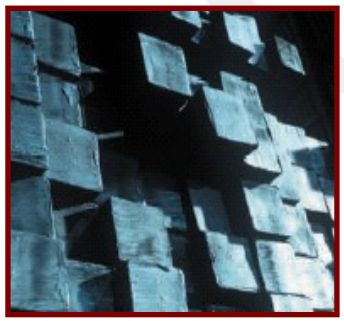
↓

Ladle Furnace (LF)

↓

Continuously Casting Machine





Continuously cast steel billets

square cross-section

105, 125, 150, 160, 180,

200, **205**, 225, 280 mm

circular cross-section

150, 180, 210, 240, 260, 280 mm

Hot rolled seamless tubes



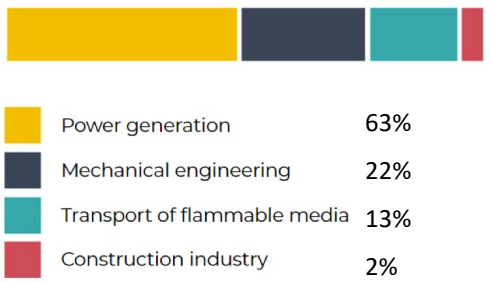


billet → heating → sizing mill → piercing press → elongating mill → push bench → withdrawal mill → reheating → reducing mill → finalization
(cutting, straightening, testing, marking, packaging)

Production in acc: EN, ASTM, ASME, API, GOST, JIS, DIN, BS, NF A, UNI, STN, ČSN, PN – H,

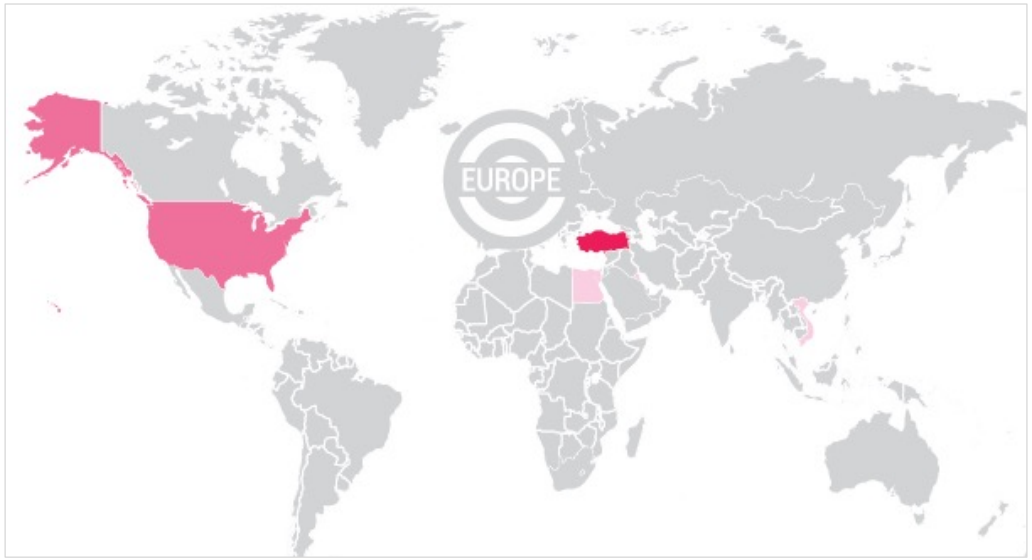
Seamless hot rolled steel tubes
OD: 26,9 – 139,7 mm
WT: 2,6 – 16 mm
production in 2019 → 195 000 t
production in 2020 → 169 504 t
production in 2021 → 203 021 t
production in 2022 → 198 302 t
production in 2023 → 190 735 t
production in 2024 → 168 634 t
production in 2025 → 170 005* t
(*including hollows production)

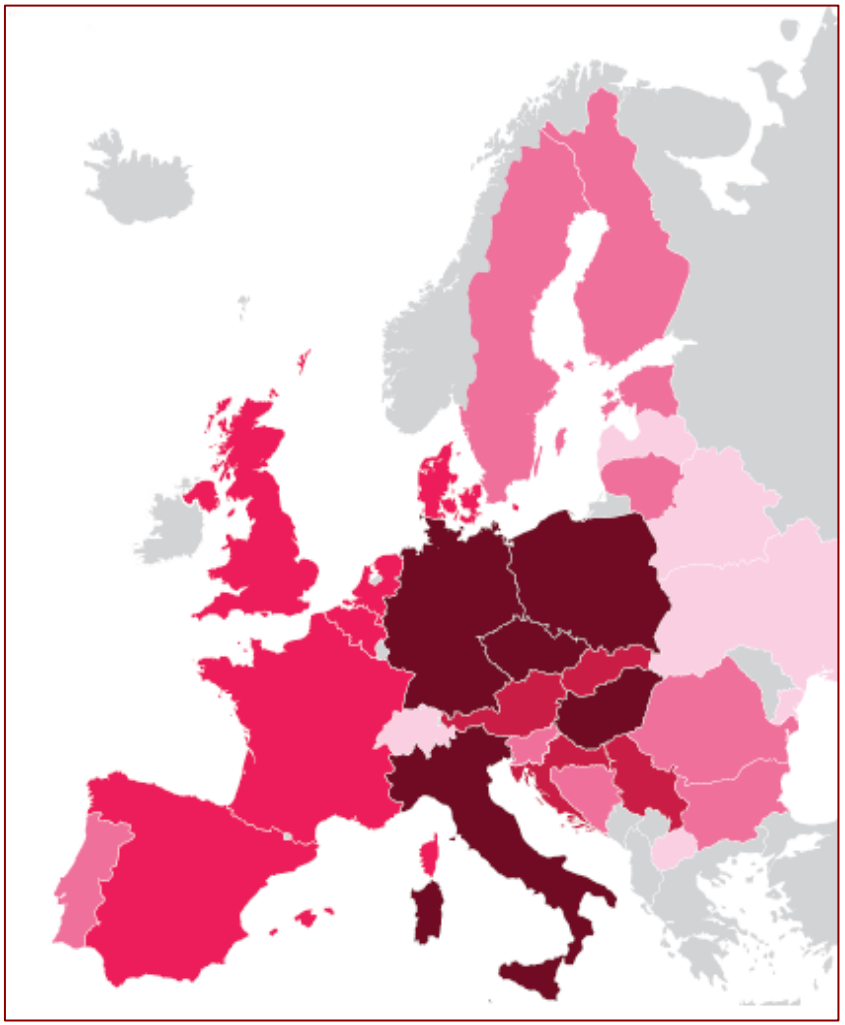
Seamless hot rolled steel tubes
fields of application





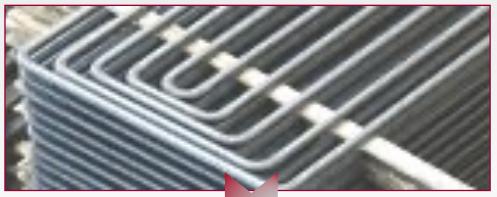
Geographical sales, hot rolled seamless tubes 2025





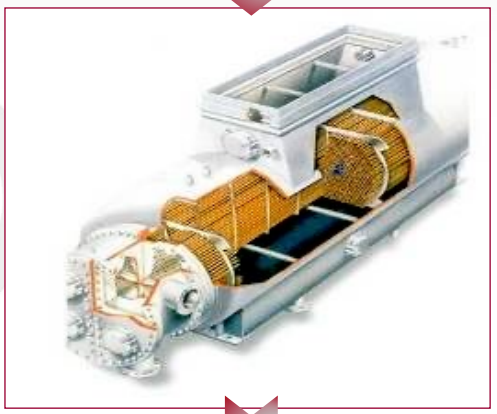
STEEL TUBES

for high output, reliable and environmentally safe power plants …



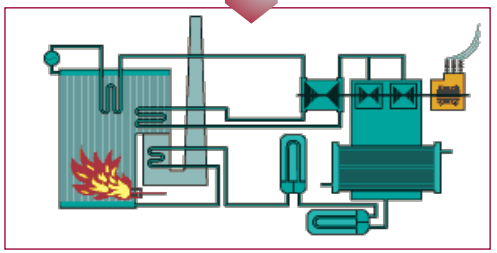
Steel tube for pressure appliances

- for room temperature pressure use
- tubes for low temperature pressure use
- boiler tubes for high-pressure use
- fine grain steel tubes for pressure equipment



Steel tubes for heat exchangers

Boiler and exchanger tubes with internal riffling
Exchanger tubes with low fins
U bend - exchanger tubes



The laboratory to verify the tube quality, including creep tests.

Železiarne Podbrezová is approved supplier:

KNPC

ارامكو السعودية
Saudi Aramco

STEEL TUBES

for high output, reliable and environmentally safe power plants …

- Coal Fire Power Plants
- Biomass Fire Power Plants
- Natural Gas Combined Cycles
- Multi-fuel Boilers
- Nuclear Power Plants
- Geothermal Power Plants
- Renewable Soures ORC
- Power Plants
- Cogeneration Plants
- Chemical Plants
- Refineries

... and many others



Biomass Fire Power Plants



Natural Gas Combined Cycles



Nuclear Power Plants



Cogeneration Plants



Refineries



Chemical Plants

STEEL TUBES

for high output, reliable and environmentally safe power plants.



Obrenovac

Customer:	INTERSTEEL d.o.o., Beograd, Serbia
Place:	**Termoelektrane Nikola Tesla (TENT), Obrenovac, Serbia**
Project:	Overhaul
Quantity:	165 tons
Dimensions:	32,0 x 4,0; 32,0 x 6,0; 32,0 x 5,5; 57,0 x 5,0; 38,0 x 4,0; 31,8 x 5,0; 31,8 x 4,5; 38,0 x 6,3; 60,3 x 6,3;
Steel grades:	St 45.8, 15Mo3, 10CrMo9-10, 13CrMo4-4, X10CrMoVNb9-1 (P/T91)



Mochovce

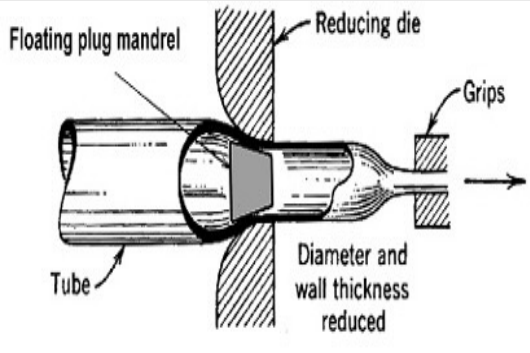
Customer:	FEBE TRADE s.r.o.
Place:	**Nuclear power plant, Mochovce, Slovakia**
Project:	Unit 3 and 4, Secondary circuit of steam-generator
Quantity:	182 tons
Dimensions:	33,4 x 4,55; 48,3 x 5,08; 60,3 x 5,54; 73,0 x 55,16; 88,9 x 5,49; 114,3 x 6,02;
Steel grades:	ASTM A 106 Grade B, ASTM A 333 Grade 6,



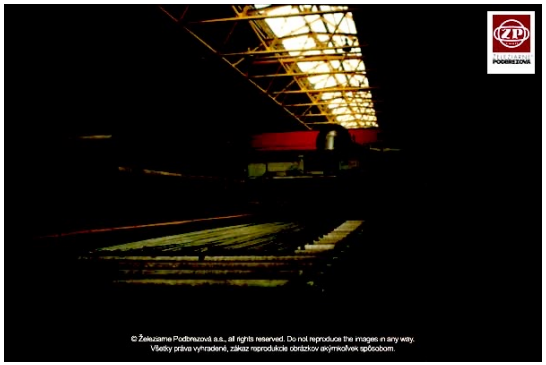
Isalnita

Customer:	MITSUI & CO., Deutschland
Place:	**Isalnita power plant, Isalnita, Romania**
Project:	Unit 7, revamp 315 MW, 510 t steam per hour
Quantity:	60 tons
Dimensions:	44,5,x 3.6;
Steel grades:	10CrMo9-10,

Precision cold drawn seamless tubes







Precision seamless
cold drawn steel tubes
OD: 3,0 – 125,0 mm
WT: 0,5 – 13,0 mm

Number of drawing benches: 23
Number of annealing furnaces: 7

Production in
2021 → 50 200 t
2022 → 49 256 t
2023 → 38 644 t
2024 → 39 536 t
2025 → 40 036 t

Provided **Heat treatment** (acc. DIN and EN)

BKW (+LC)	- cold finished / soft
BKS (+SR)	- stress relieve annealing
GBK (+A)	- annealed
NBK (+N)	- normalized
BK (+C)	- no heat treatment

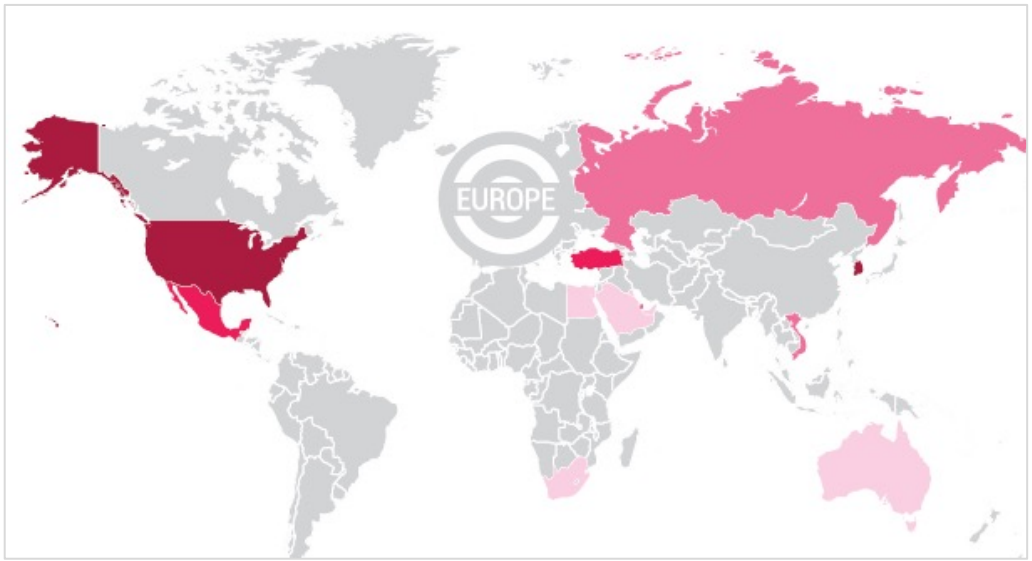
Annealing atmosphere:
N_2, N_2+H_2(2% or 3,5%), N_2+H_2(40%)+CO+CO_2,

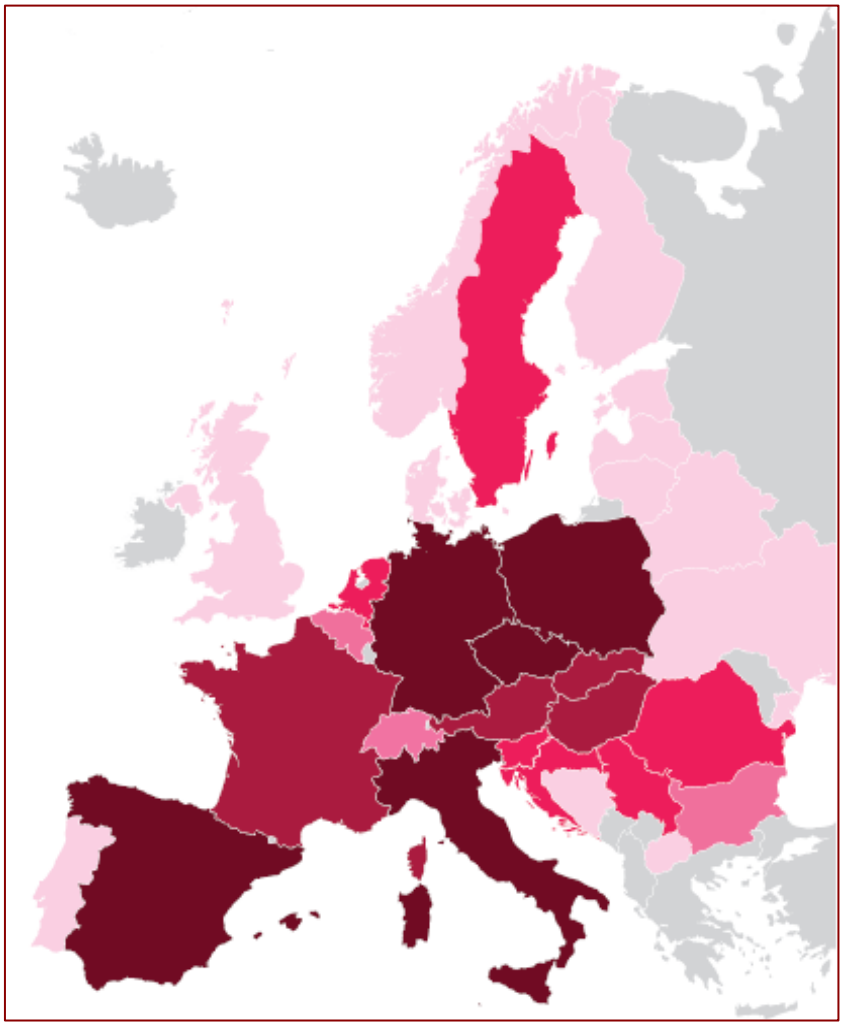
Seamless precision steel tubes
fields of application



Mechanical engineering	39%
Power generation	34%
Hydraulics & pneumatics	18%
Automotive industry	7%
Other industries	2%

Geographical sales, precision seamless tubes 2025





Final treatment of precision tubes



Zinc plated seamless precision steel tubes

OD: 4,0 – 42,0 mm

WT: 0,5 – 5,0 mm

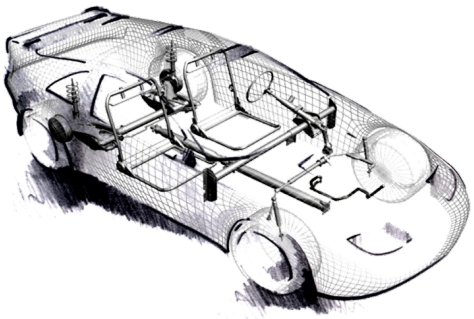
- coating thickness 8 – 30 micrometers
- the second layer Cr (Cr^{6+} Free)
- after agreement it is possible to seal Zn/Cr coating
- additional PVC or polyester coating possible
- transparent passivation (An), iridescent passivation (Cn)
- marking Fe/Zn8/An/T0 (example)

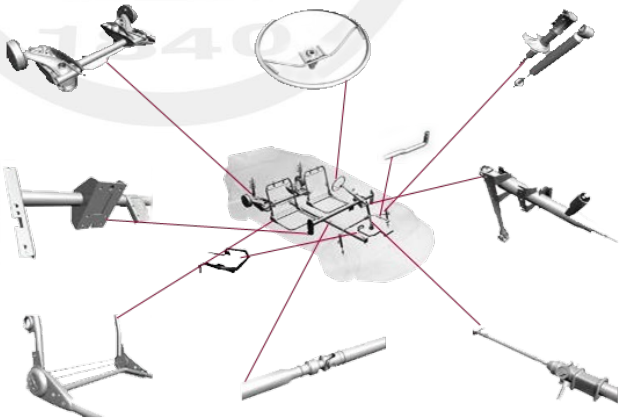
Automotive

Tubes are produced using several technologies and supplied as:

- *precision seamless cold drawn steel tubes, within the range:* ***from 4 to 120 mm with wall thickness from 0.5 to 10 mm***

Shock absorbers:	BWI Krosno, Brano Jilemnice
Silent blocks:	Rubena, ZF Lemfelder
Balancing shaft:	Motorpal Jihlava
Propeller shafts, driveshafts:	GKN Zrece, Timberlake
Steering column:	**JTEKT**
Tie rods:	THK Rhytm,
Gas springs:	FA Krosno, Brano Jilemnice











Precision tubes for MagneRide Control Suspension System

BWI Krosno, Poland and BWI Gabriel, Mexico

Total sales in years 2012 – 2024: 3 800 ton

OD / ID

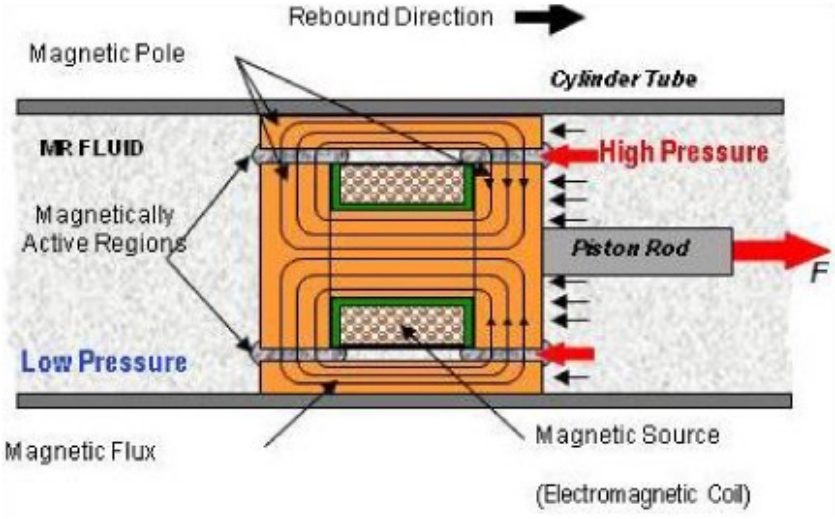
11.85 x 3.32 mm
12.75 x 3.32 mm
12.75 x 4.77 mm
14.35 x 3.88 mm
14.35 x 4.77 mm
14,35 x 5,24 mm



Steel grade 27CD4

Tube for MagneRide dampers.

The damper piston contains an electromagnetic coil that can generate a variable magnetic flux across the fluid passages. When the coil current is off, the MR fluid is not magnetized, the iron particles are randomly dispersed within the fluid, and the fluid behaves like conventional hydraulic oil. When the coil is energized, the magnetic field causes the particles to align into fibrous structures in the direction of the magnetic flux. The strength of the bond between the particles in the structures is proportional to the strength of the magnetic field, so changing the current provides real-time variable damping with a very large range of force variation.



Audi R8 Spyder



Ferrari 458 Italia

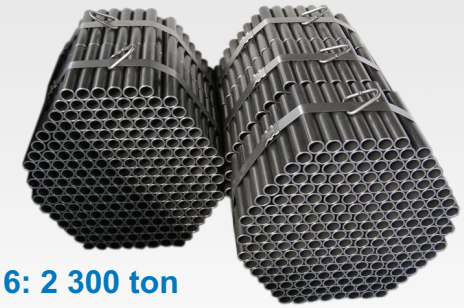


Acura ZDX



We produce semi-finished products

for your cars ...



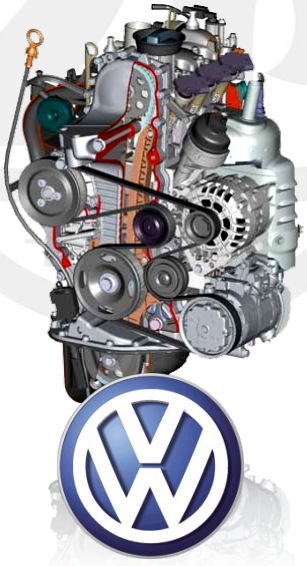
MOTORPAL, a.s. Jihlava – Czech Republic

			ID	WT	Length
DIN	2391	C 45	17,00	7,20	208

Total sales in years 2007- 2016: 2 300 ton

A balancing shaft for new ŠKODA 1.2 l
three-cylinder petrol engines, double-valve or four-valve type.







OUR PRODUCTION IS PRECISE

not only in term of dimensions – but also in terms of deadlines ...

STEEL CYLINDERS AND VESSELS

VÍTKOVICE

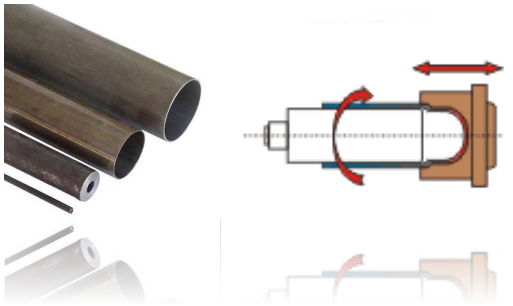
Total sales in years 2020 - 2025: 500 tons

Vítkovice Cylinders, a.s., Czech republic

		OD	WT	
Customer technical specification	34CrMo4	83	2,5	**Precision seamless tubes:** OD - between 83 and 140 mm 10 dimensions L – 5 000 – 7 000 mm
		100	2,5; 2,9	
		102	2,5	
		115	2,7	
		121	9,8	
		140	3,1; 4,0	

Steel cylinders are manufactured in accordance with applicable EN / ISO regulations and technical specifications. Raw material is chrome-molybdenum steel 34CrMo4.

- Seamless steel cylinders for industry gases
- Seamless steel cylinders for compressed natural gas
- Seamless steel cylinders for fire equipment
- Seamless steel cylinders for beverage and drinking devices
- Seamless steel cylinders for acetylene







Hydraulics a pneumatics

Tubes for manufacture of cylinder barrels:

precision seamless tubes for mechanical treatment – HPZ,
ID 40-115 mm (after agreement up to 160 mm), WT 4-10 mm,

precision seamless tubes "ready to use" – HP,
ID 40-110 mm WT 4-10 mm ((after agreement welded tubes)

Tubes for manufacture of pistons and telescopic cylinders:

precision seamless tubes – HPK,
ID 40 -120 mm WT 5 - 10 mm

Tubes for hydraulics pressure lines

tubes for pressure hydraulic and pneumatic lines – HPL,
OD 6-80 mm ID 4-55 mm

galvanized tubes for pressure hydraulic and pneumatic lines – HPL,
OD 4-42 mm WT 0,5-5 mm





STEEL TUBES

for high output, reliable and environmentally safe power plants.



process air cooled heat exchangers



- shell & tube heat exchangers



heat exchangers, air coolers, boilers



heat exchangers, pressure vessels

Power engineering

A list of some of our significant deliveries of heat exchanger tubes manufactured to some of the major manufacturers of heat exchangers and air-coolers

Committee - Project name	Location of pjct	Material description	Material grades	HE Product
Stone Webster	USA	Seamless carbon cold drawn steel tubes	ASME SA 179	Boilers
Yazan - Tecnicas reunidas	SAUDI ARABIA	Seamless carbon cold drawn steel tubes	ASME SA 179	Heat exchangers
Yazan - Tecnicas reunidas	SAUDI ARABIA	Seamless carbon cold drawn steel tubes	ASME SA 179	Air coolers
JGC Gulf - Yanbu	SAUDI ARABIA	Seamless carbon cold drawn steel tubes	ASME SA 179	Air coolers
SEPCO - Shybah	SAUDI ARABIA	Seamless carbon cold drawn steel tubes	ASME SA 179	Air coolers
Petrofac - Clean fuel	KUWAIT	Seamless carbon cold drawn steel tubes	ASME SA 179	Air coolers
OAO Naftan Novopolock	BIELORUSSIA	Seamless carbon cold drawn steel tubes	ASME SA 213 T11	Heat exchangers
Zubair	IRAQ	Seamless carbon cold drawn steel tubes	SA 334 gr.6	Air coolers
Skogat - Eni	TUNISIA	Seamless carbon cold drawn steel tubes	SA 209 T1	Heat exchangers
Saipem - Rabigh	SAUDI ARABIA	Seamless carbon cold drawn steel tubes	ASME SA 179	Air coolers
MEW Doha West p.s.	KUWAIT	Seamless carbon cold drawn steel tubes	ASME SA 210 A1	Heat exchangers
Rom gas - Confind	ROMANIA	Seamless carbon cold drawn steel tubes	ASME SA 210 A1	Heat exchangers
Shell Deutschland	GERMANY	Seamless carbon cold drawn steel tubes	ASME SA 210 A1	Heat exchangers
Jubilee pyct	GHANA	Seamless carbon cold drawn steel tubes	ASME SA 210 C	Heat exchangers
GEA - Refrigerator - Linde	USA	Seamless carbon cold drawn steel tubes	ASME SA gr.6	Air coolers
Tupras	TURKEY	Seamless carbon cold drawn steel tubes	ASME SA 334 gr. 6	Air coolers
STOGIT Minerbio	ITALY	Seamless carbon cold drawn steel tubes	SA 334 gr. 6	Air coolers
T.E.M.P.	GERMANY	Seamless carbon cold drawn steel tubes	EN 10216-2 16Mo3	Heat exchangers
Pigap	VENEZUELA	Seamless carbon cold drawn steel tubes	SA 179	Air coolers
SECL - LUBREF PJCT	SAUDI ARABIA	Seamless carbon cold drawn steel tubes	ASME SA 213 T11 & ASME SA 179	Heat Exchangers
Yanbu pjct	SAUDI ARABIA	Seamless carbon cold drawn steel tubes	ASME SA 213 T11 & ASME SA 179	Air coolers
CSP steel plant pjct (Posco &C)	Brasil	Seamless carbon cold drawn steel tubes	P235GH Tc1 EN 10216-2	boilers
Jazan Pjct - tecnicas reunidas	SAUDI ARABIA	Seamless carbon cold drawn steel tubes	A 179	heat exchangers
Jazan Pjct - sk	SAUDI ARABIA	Seamless carbon cold drawn steel tubes	A 179	Air coolers
ISAB - PRIOLO - MAINTENANCE SESSIONS	ITALY	Seamless carbon cold drawn steel tubes	ASTM A179 & FE32.2 UNI663-68	Heat Exchangers
SARAS - MAINTENANCE SESSIONS	ITALY	Seamless carbon cold drawn steel tubes	ASTM A179 & FE32.2 UNI663-68	Heat Exchangers
ENI - S.NAZZARO - MAINTENANCE SESSIONS	ITALY	Seamless carbon cold drawn steel tubes	ASTM A179 & FE32.2 UNI663-68	Heat Exchangers
ENI - LIVORNO - MAINTENANCE SESSIONS	ITALY	Seamless carbon cold drawn steel tubes	ASTM A179 & FE32.2 UNI663-68	Heat Exchangers
ROSNEFT - HYDROCRACKING PROJECT	RUSSIA	Seamless carbon cold drawn steel tubes	ASME SA213 T11/ ASTM A210 A1	Heat Exchangers
PETROKEMIA	SLOVENIA	Seamless carbon cold drawn steel tubes	ASME SA213 GR. T11	Heat Exchangers
FLUOR CANADA - REDWATER	CANADA	Seamless carbon cold drawn steel tubes	ASME SA179	Heat Exchangers
ROSNEFT	RUSSIA	Seamless carbon cold drawn steel tubes	ASTM A334 GR 6	Heat Exchangers
JSC "MOZYR"	REPUBLIC BELARUS	Seamless carbon cold drawn steel tubes	ASTM A334 GR 6	Heat Exchangers
FLUOR/EXXON Sakhalin	RUSSIA	Seamless carbon cold drawn steel tubes	ASME SA179	Heat Exchangers
SEREPT	TUNISIA	Seamless carbon cold drawn steel tubes	ASME SA179	Heat Exchangers
JSC "MOZYR"	REPUBLIC BELARUS	Seamless carbon cold drawn steel tubes	ASTM A334 GR 6	Heat Exchangers

Other products



Butt welding **Reducers**

OD1: 21,3 – 88,9 mm

OD2: 26,9 – 114,3 mm

WT1: 2,0 – 3,2 mm

WT2: 2,3 – 3,6 mm



Butt welding **Elbows**

OD: 21,3 – 610,0 mm

WT: 2,0 – 12,5 mm



Surface treated by **sand blasting**



Path to green steel

Technological and Environmental Investments Since 1990

The company has undertaken significant technological upgrades to enhance energy efficiency and reduce CO_2 emissions. Key investments include:

- **1990-1993**: Construction of a high-performance **electric steel plant** with a capacity of 220 kt/year, later intensified to 380 kt/year.
- **2004-2007**: **Modernization of furnaces** with regenerative burners.
- **2013**: Installation of a **new continuous casting machine** and **advanced dust extraction** systems utilizing waste heat for heating purposes.

The cumulative investment in these initiatives totals over €56 million

Continuous modernization and optimization

Investment overview	Year(s)	Investment costs (EUR)
Construction of a new high-performance electrical steel plant with a planned annual production capacity of 220 kt of steel (380 kt after intensification)	1990 – 1993	30,800,000
Reconstruction of rotary-hearth furnace	1997	600,000
Reconstruction of two tundish preheating stations	2002	160,000
Reconstruction of walking-beam furnace (regenerative burners)	2004	1,200,000
Upgrading of heat treatment furnaces	2004 – 2007	2,600,000
Upgrading of tube elbow production plant (induction furnaces)	2007 – 2008	650,000
Installation of three oxy-fuel burners in EAF	2007	800,000
Construction of a new steel continuous casting plant	2013	10,000,000
Construction of a new EAF dedusting plant (with waste heat used for heating all buildings in the steel plant area for ambient temperatures down to a -10°C, including the supply of domestic hot water)	2013	9,500,000
In total		**56,310,000**

Path to green steel

Environmental Investments: 1996–2023

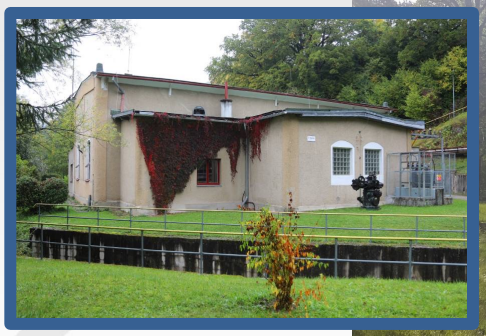
Under its 1999 environmental policy, ŽP, a.s. has significantly improved air quality and expanded the use of renewable energy sources. Notable investments include:

- **Modernization of energy systems**: A high-efficiency cogeneration unit produces approximately 33,000 MWh of electricity and steam annually.
- **Hydropower modernization**: Upgrades to four small hydropower plants generating 26,000 MWh/year, contributing to Slovakia's renewable energy goals.
- **Rooftop photovoltaic power plant**: Slovakia's largest, with over 7,100 panels and an installed capacity of 3,350 kWp.

Total environmental investments exceed €15.5 million

Path to green steel

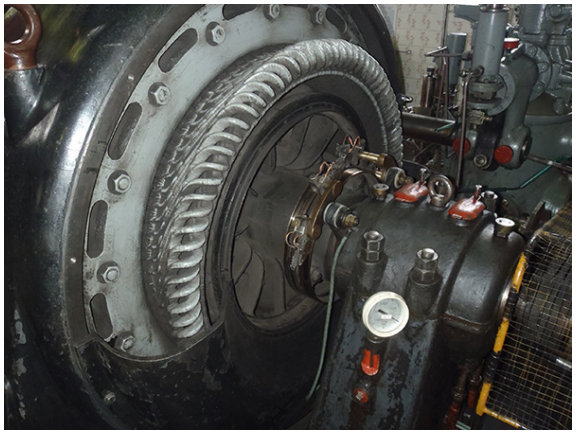






Železiarne Podbrezová operates **four unique small hydropower plants**,

producing 26,000 MWh of renewable energy annually and covering 20% of the company's electricity needs.
These plants blend efficiency with sustainability, reducing the carbon footprint.
They hold historical and architectural value, harmonizing with nature. Modernization ensures long-term ecological and operational benefits.





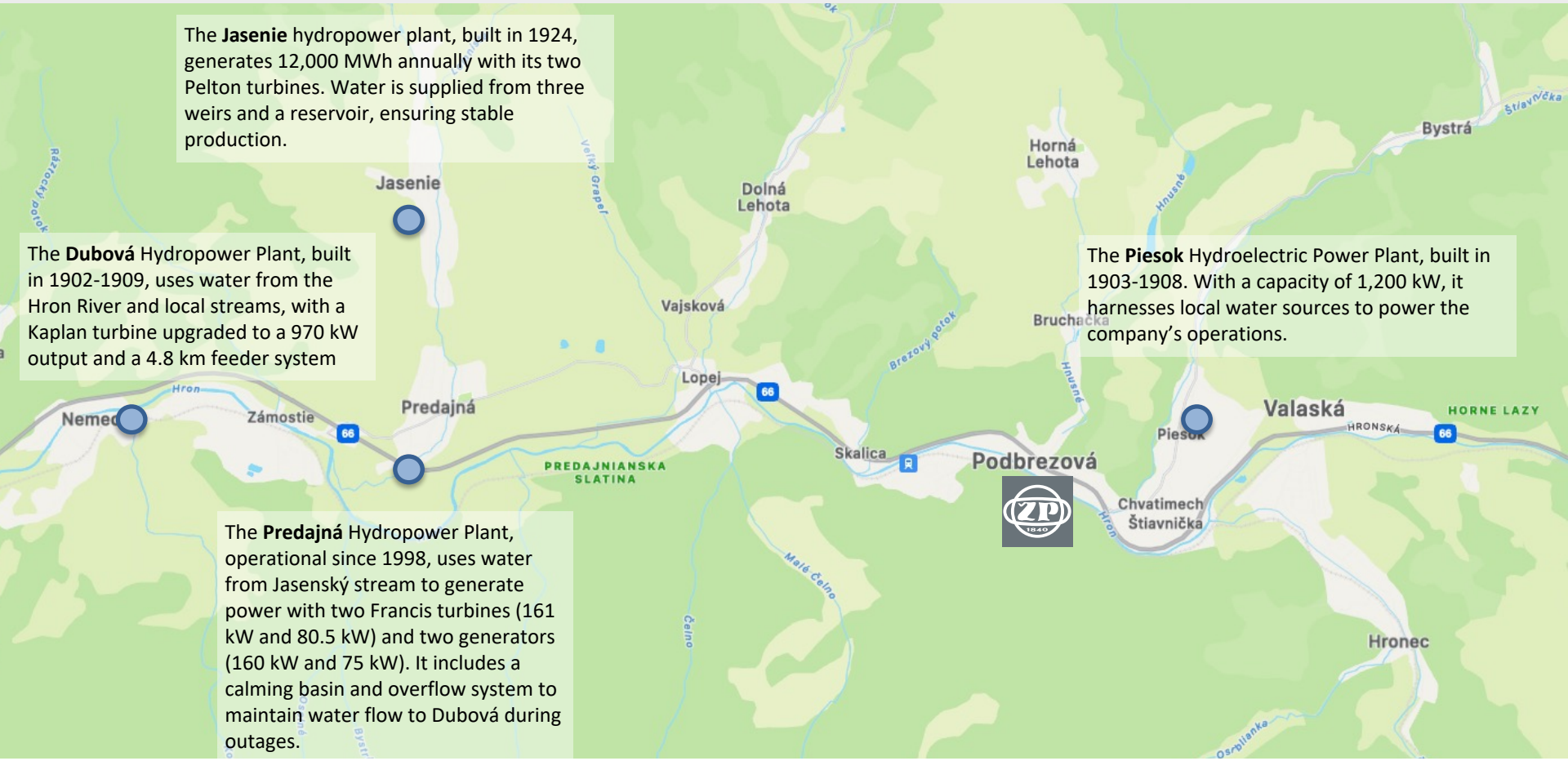


Path to green steel

The **Jasenie** hydropower plant, built in 1924, generates 12,000 MWh annually with its two Pelton turbines. Water is supplied from three weirs and a reservoir, ensuring stable production.

The **Dubová** Hydropower Plant, built in 1902-1909, uses water from the Hron River and local streams, with a Kaplan turbine upgraded to a 970 kW output and a 4.8 km feeder system

The **Piesok** Hydroelectric Power Plant, built in 1903-1908. With a capacity of 1,200 kW, it harnesses local water sources to power the company's operations.



The **Predajná** Hydropower Plant, operational since 1998, uses water from Jasenský stream to generate power with two Francis turbines (161 kW and 80.5 kW) and two generators (160 kW and 75 kW). It includes a calming basin and overflow system to maintain water flow to Dubová during outages.

Path to green steel



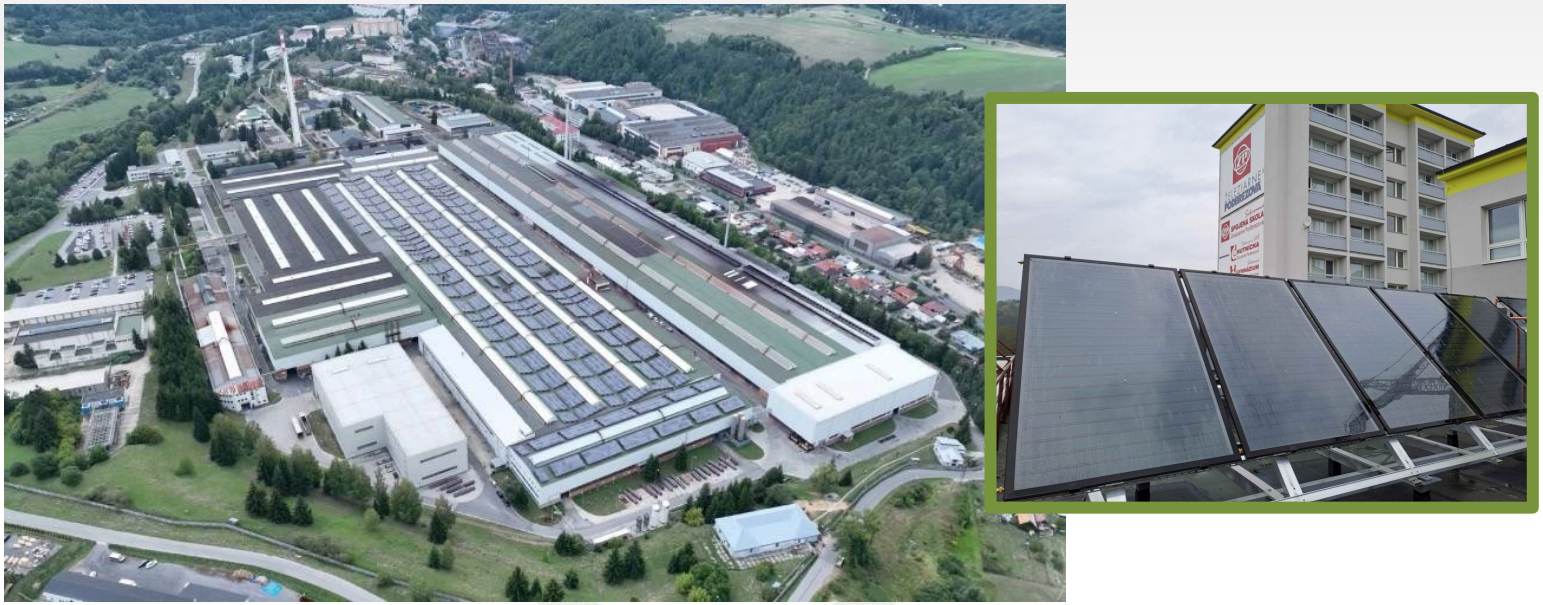
For the period from January 1, 2023, to December 31, 2023,
the recycled material – steel scrap – accounted for:

with an overall recycling rate exceeding 96%.
from external sources: 80%, from internal sources: 20%

In alignment with our commitment to sustainable steel production practices, the steel scrap used is sourced within a 250 km radius from our production plant through our subsidiaries, significantly reducing our environmental impact.

Path to green steel

Rooftop photovoltaic power plant: Slovakia's largest of its kind.



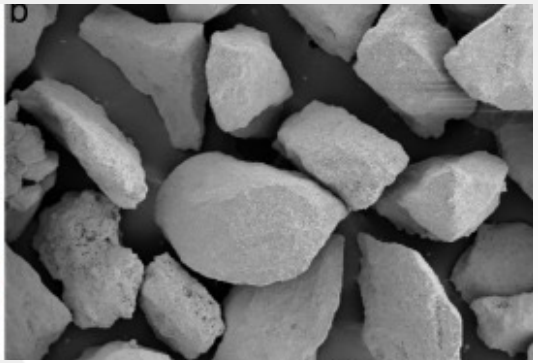
Generated electricity: **3,030 MWh over the past 12 months**, produced by **7,150 photovoltaic panels**, resulting in an annual savings of **882 tons of CO_2** (tCO_2e), equivalent to planting **more than 40,900 trees in a mixed forest**.

Slag: The All-Purpose Aggregate

Slag, a byproduct of steelmaking, is recycled into valuable construction materials, helping to reduce waste and promote sustainability.









At Železiarne Podbrezová, we use slag to create durable materials for road construction, asphalt, concrete and rail bed material. By repurposing slag, we contribute to eco-friendly practices and enhance infrastructure.

Path to green steel – company achievements



67% - Direct emissions reduction

91% - Steelmaking direct emissions reduction

(between 1990 – 2023)

Path to green steel – company achievements



Continuously cast steel blooms

198 $kgCO_2e$



Seamless hot rolled steel tubes

590 $kgCO_2e$



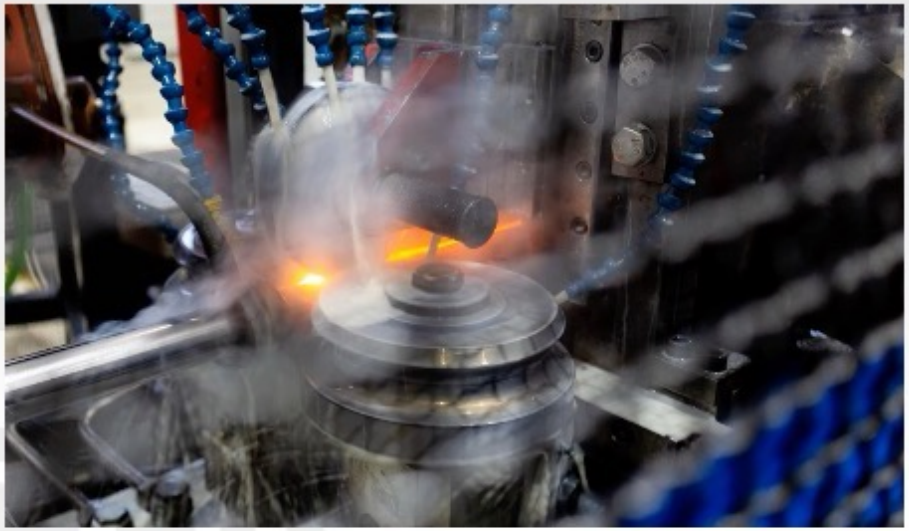
Seamless cold drawn steel tubes

1.140 $kgCO_2e$

TOM-FERR's Tube Manufacturing Division

Tata, Hungary

Equipped with advanced technology, the Tata plant specializes in the production of high-quality welded steel tubes. The facility ensures precision in cutting, forming, and quality control — meeting the strict standards of the automotive and engineering industries. OD 19,1 – 89 mm.



TOM-FERR's Advanced Tube Processing Technologies

Budapest, Hungary

TOM-FERR operates state-of-the-art machinery for laser cutting, CNC bending, end forming, and welding. These technologies enable high-precision production of complex tube components — especially for the automotive and industrial sectors — with a strong focus on quality, repeatability, and flexibility in series production.

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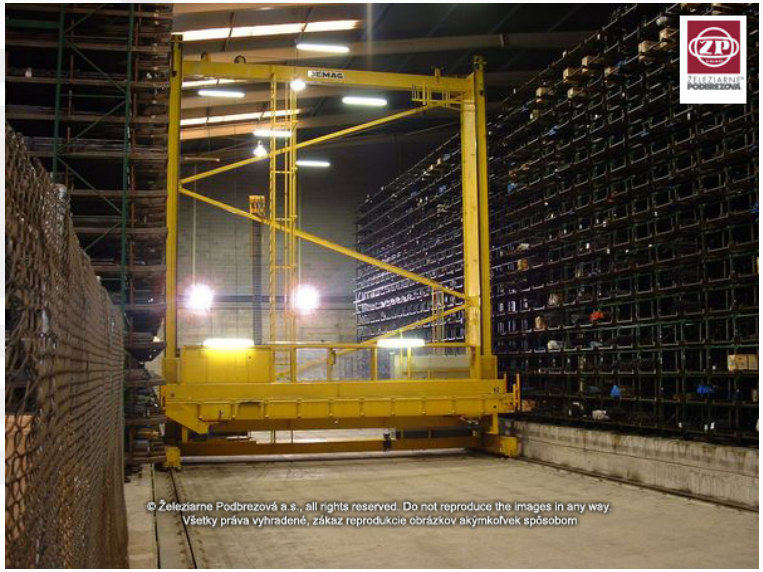
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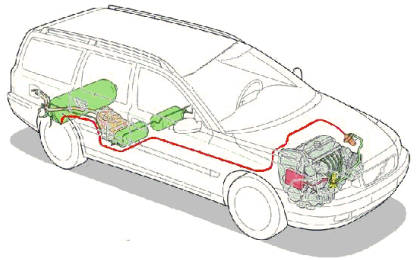
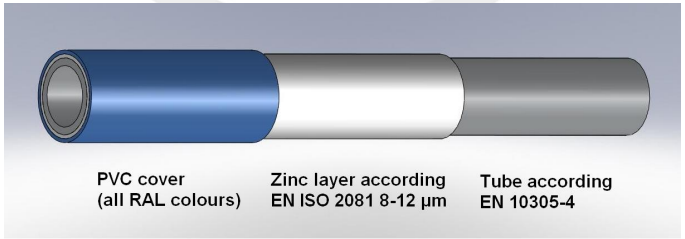
Cold drawn steel tubes,
delivered in coils
OD: 4,0 – 18,0 mm
WT: 0,45 – 2,5 mm

For injection devices of combustion (Diesel) engines sizes 6x1,8; 6x2,1; 6x2,125; 6x2,2; 6x2,25 mm, made from steel grade St 30Al, are delivered. Depending on tube size there is tube of **60 - 400** m length in coil.



Seamless tubes zinc-plated and coated in PVC used for fuel supply for vehicles with CNG/LPG powered engines.







Sporting and historical weapons

OD	*ID*	*barrel forms*	*min. ID tolerances*	*steel grades*
Steel tubes for **black powder gun barrels**				
22.0 – 28.0	8.13 – 13.7	- octagonal or round - rifled inside	0.05 (BK) 0.08 (NBK)	St 35 (BK) SAE 4130
Steel tubes for **air gun barrels**				
14.5 – 20.0	4.50 – 5.50	- round - rifled inside	0.05 (BK)	St45 (BK)
Steel tubes for **rifle gun barrels**				
18.0 – 24.0	4.50 – 10.50	- octagonal or round - rifled inside	ID < 10 = 0.03 (BK) 0.05 (NBK) ID > 10 = 0.05 (BK) 0.08 (NBK)	St45, SAE 4140 (BK)
Steel tubes for **shotgun barrels**				
24.0 – 28.0	10.0 – 18.0	- round - smooth inside	0.1 (NBK)	SAE 4130, 1020; 30CD4, 25CrMo4; 34CrMo4 (NBK)

Top clients:

HENRY REPEATING ARMS, USA
HENRY WISCONSIN, USA
ARDESA, S.A., Spain
GAMO OUTDOOR, Spain
PRODUCTOS MENDOZA, Mexico
EIBAR AIRGUN TRADING COMPANY, Spain

Black powder gun barrels

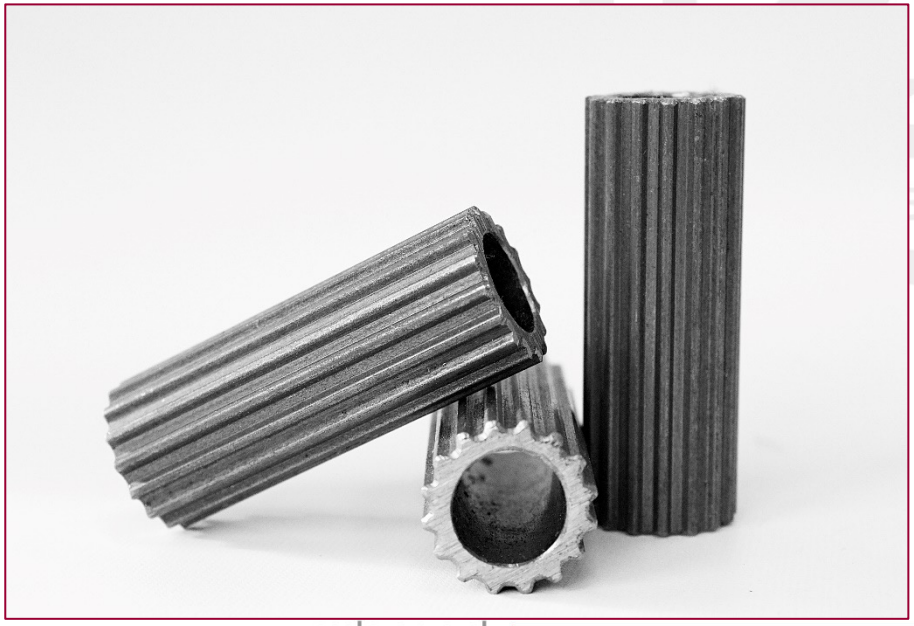




Total annual sales in years 2023: 450 000 meters









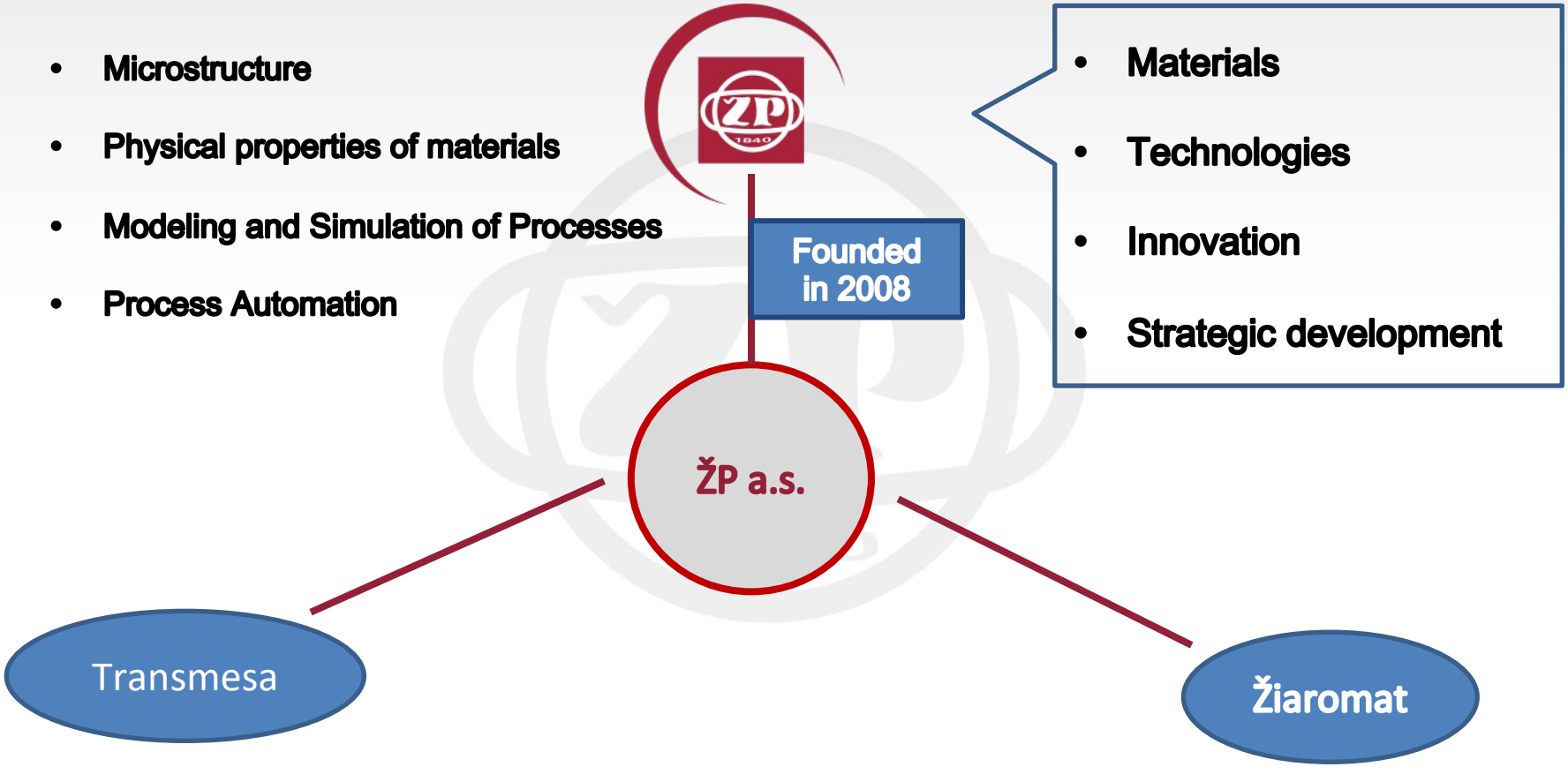
Private Secondary Technical School and private High School of the company annually prepares more than fifty graduates of the metallurgical profession.

Since its inception (1840) Železiarne Podbrezová is governed by philosophy that the success and the prosperity of the company primarily depends on the people. For organized professional development of the young generation they are paying attention for seventy-six years already. The reform caused that the state-run schools gradually lost the ability to respond to the needs of manufacturing companies and the labor market. As soon as the legislation enabled it, Železiarne Podbrezová entered into the transformation process and the result was establishment of ŽP Private Metallurgical Secondary School and the private high school of Železiarne Podbrezová.



2 **ŽP Research and Development Centre guarantees the progress and development of products, services and technologies within the ŽP Group.**

- Microstructure
- Physical properties of materials
- Modeling and Simulation of Processes
- Process Automation



- Materials
- Technologies
- Innovation
- Strategic development

Warm welcome in Upper River Hron region.

Železiarne Podbrezová a.s.
belongs to the oldest metallurgical companies in Central Europe.

Its history dates back to 1840.

OUR TUBES = YOUR SUCCESS

ŽELEZIARNE® PODBREZOVÁ GROUP

As the only school in Slovakia SSOŠH ŽP is practicing dual system of education. Curriculum and focus on education is geared towards the needs of the founder. Students gain practical skills directly in the production of Železiarne Podbrezová under the leadership of instructors from the production and gradually they are becoming familiar with their future workplace. By the way the founder offers to its students employment guarantee.







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