

# AUTOMOTIVE



# FULLY INTEGRATED PROCESS

- 1 SCRAP COLLECTING AND PROCESSING
- 2 CONTINUOUS CASTING
- 3 TUBES PRODUCTS MANUFACTURING
- 4 PACKING AND SHIPMENT



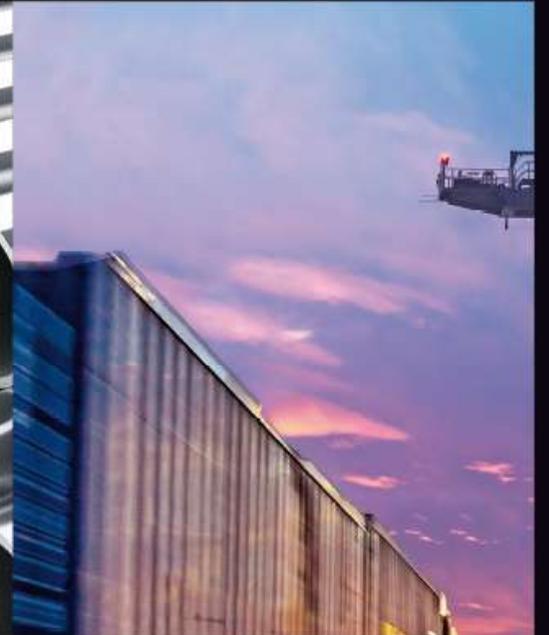
SCRAP COLLECTING AND PROCESSING



CONTINUOUS CASTING



TUBES PRODUCTS MANUFACTURING



PACKING AND SHIPMENT



# Company Introduction

## PIPEX ITALIA

### Worldwide sales marketing & distribution organization of Zeleziarne Podbrezova

Pipex Italia is one of the utmost sales and marketing organizations in the steel pipe industry, operating all over the world.

With about **7.000 total employees**, **Zeleziarne Podbrezova Group** is an **integral cycle manufacturer**, transforming scrap into seamless steel tubes, butt welding fittings, continuously cast billets.

### Product and process innovation, timely service, price stability, agility, technical perfection:

these are the values that the Group wishes to guarantee to customers.

**Zeleziarne Podbrezova** has been certified by the most important International Third Parties Inspectors , as **TUV, Lloyd's, B.V., Germanisher Lloyd, API.**

The Group is also certified according to **ISO 9001**, as well as approved by some of the most important industrial end users, like **KNPC, ARAMCO, TOTAL, BASF**, and others.

**Zeleziarne Podbrezova** is located **300 km East from Vienna** and has its own **manufacturing plant** (for the production of steel billets, raw material for the tubes production), a **modern tube mill** (based on CPE process), and a large **cold drawn tubes division** (equipped with **23 drawing branches** and **7 heat treatment furnaces**).

**Zeleziarne Podbrezova** is an **experienced company**, whose history began in **1840**. For more than **20 years Pipex Italia** has been marketing and selling its tubes to a large amount of customers **worldwide**, including the most important and well known tube stockholders and heat exchanger manufacturers, in **Europe**, in the **Far East** and in the **United States**.

In 2008, **Transmesa** – an independent cold drawn mill specialized in tubes of small size and located in Barcelona (ESP), become part of the **Zeleziarne Podbrezova Group**.

**Pipex Italia** stocks an extensive inventory in our 20000 sqm warehouse strategically located in an industrial area proximity to the major national highway junction facilitates distribution of **Pipex Italia** products in both the national territory and the major European markets at a competitive price level and in a fast and efficient manner.

**Pipex Italia's** wide range of products and technical expertise allow to offer real time responses and prompt delivery.





## Seamless Precision Cold Drawn Tubes

**Shock  
Absorbers**

- BWI Krosno
- Brano Jilemnice

**Silent blocks:**

- Rubena
- ZF Lemfoerder

**Balancing  
shaft:**

- Motorpal Jihlava

**Prop. shafts,  
Drive shafts:**

- GKN Driveline

**Steering  
column:**

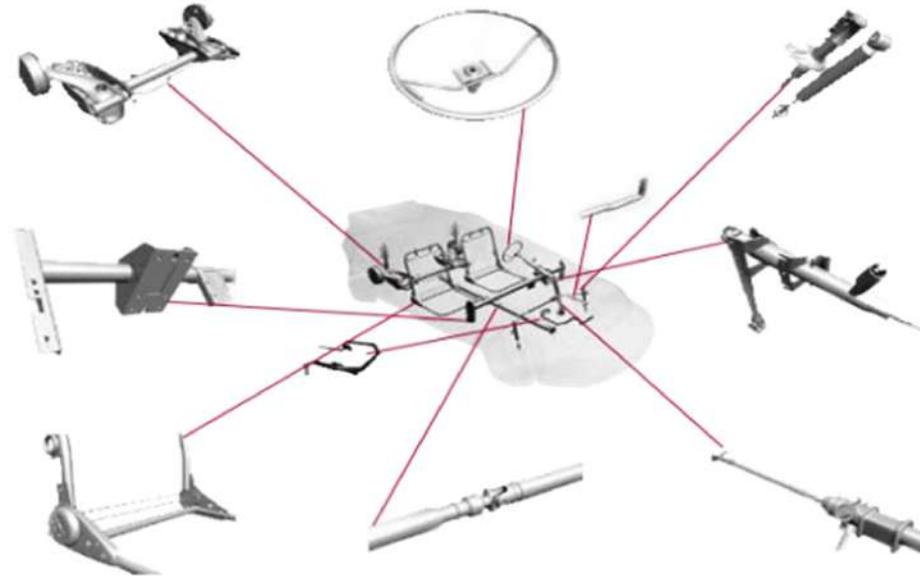
- Fuji Koyo
- Fuji Autotech

**Tie rods:**

- TRW DAS

**Gas springs:**

- FA Krosno
- Brano Jilemnice



# Automotive

## Seamless Precision Tubes for MagneRide Control Suspension System

### 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.

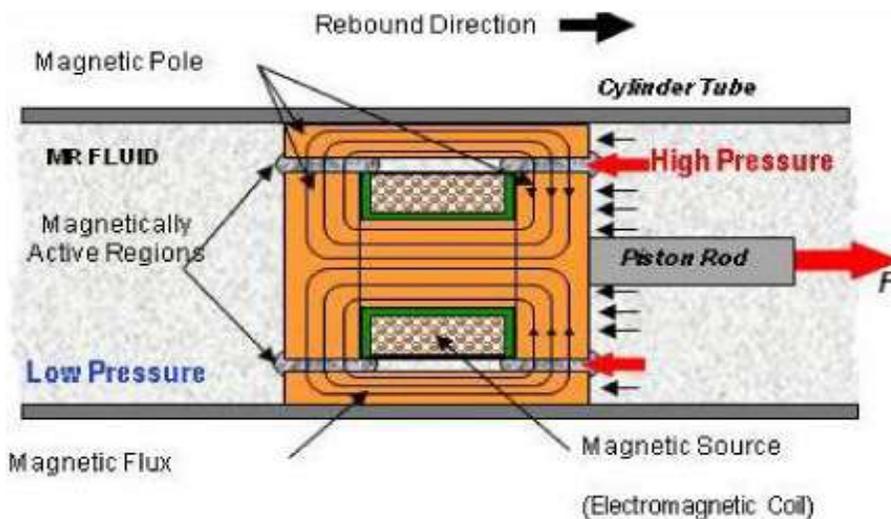


BWI Krosno, Poland  
BWI Gabriel, Mexico

### 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



Audi R8 Spyder



Ferrari 458 Italia



Acura ZDX



## Seamless Precision Tubes for Balancing Shaft

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



MOTORPAL, a.s. Jihlava - Czech Republic

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

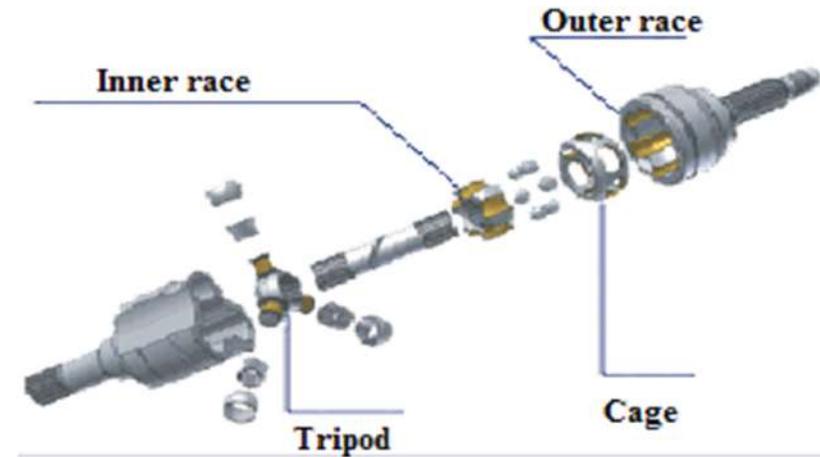


# Automotive

## Seamless Precision Tubes for CV Joints

- Propeller shafts
- Propeller shaft sleeves
- Drive shafts

GKN DRIVELINE SLOVENIA, Zrece  
 GKN DRIVELINE MEXICO, Celaya  
 GKN DRIVELINE ITALY, Brunico



			OD	ID
DIN	2391	8617H	78,10	66,45
EN	10305	27CD4	36,01	31,00
103 various diameters in lengths from 221,43 to 6 800 mm,			31,00	26,00
Outside diameters from 26,25 to 82,10 mm			54,30	45,50
			82,10	71,10
			26,25	19,00



	Rm / MPa		C / hm. %		Mn		Si		P	S		Cu	Cr		Ni		Al		Mo		N	
	min	max	min	max	min	max	min	max	max	min	max	max	min	max	min	max	min	max	min	max	min	max
8617H	569	675	0.24	0.31	0.60	0.85		0.40	0.025		0.035	0.30	0.95	1.25		0.30	0.02	0.050	0.20	0.30		
27CD4	503	557	0.15	0.18	0.70	0.85	0.20	0.30	0.035	0.01	0.025	0.25	0.45	0.60	0.40	0.70	0.02	0.045	0.15	0.20	0.01	0.02

## Seamless Precision Tubes for Steering Column

Lower shaft with serration fork

Fuji Autotech France, Valentigne  
Fuji Koyo Czech, Plzeň



		OD	ID
EN 10305	E235	24,05	20,4
Five various lengths from 227 to 271 mm			



# Automotive

## Seamless stainless steel tubes and ni-alloy tubes

### Production range:

- O.D. from 6 mm to **530** mm
- WT from **0.50** mm to **36.00** mm

### Steel grades:

- TP304/304L/304H, TP316/316L, TP310/TP310H, TP321/TP321H, TP347/TP 347H, TP317, 2205, TP904L and all the major austenitic grades
- Equivalent grades according to European standard are also available  
alloys: alloy 825, alloy 625

### Standards:

- EN10216-5, DIN17456, 17458 - GB/T14975, T14976, T13296, GB5310 - ASTM A213, A269, A312, A511, A789, A790, JISG3459, G3463

### Lengths:

- Tubes are supplied either in **random** or **fixed lengths**, up to max. **22** m

### NDT:

- All tubes are checked according to the relevant production standard; Supplementary/optional tests are available on request;

### Certificates:

- According to EN 10204 3.1
- According to EN 10204 3.2

### Packing:

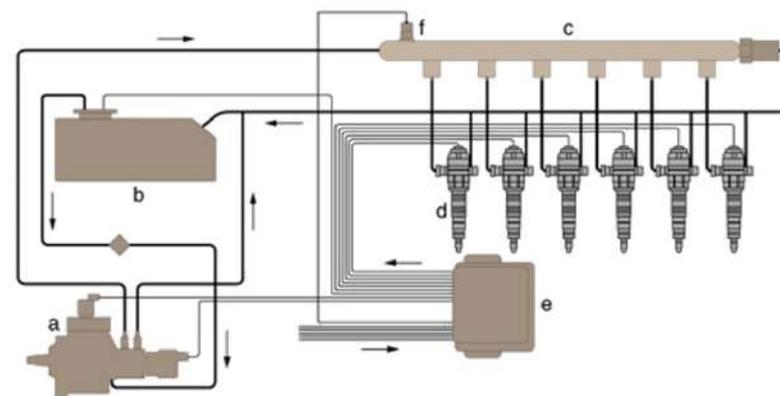
- Tubes are supplied packed in wooden boxes or bundles duly protected
- Other packing available on request



Seamless stainless steel tubes and ni-alloy tubes

Fuel Rails for High Pressure applications

- Tube for 3 cylinders GDI Fuel Rails
- Tube for 4 cylinders GDI Fuel Rails



# Group Certificates

Pipex Italia spa

Železiarne Podbrezova



ISO 9001:2015



ISO 9001:2008



ISO 16949:2009



ISO 14001:2004

## Železiarne Podbrezova Approvals



Bureau Veritas



Germanischer Lloyd



TUV Nord PED



Lloyd's Registered



Det Norske Veritas



TUV Nord NDT



REACH

# COMPANY ORGANIZA TION

## CONTACTS AND ADDRESSES

Pipex Italia S.p.A.

### Head Office

Via Paleocapa, 10 - 28041 Arona (NO)  
T. +39 0322 235 511 - F. +39 0322 446 59

### Operative Office

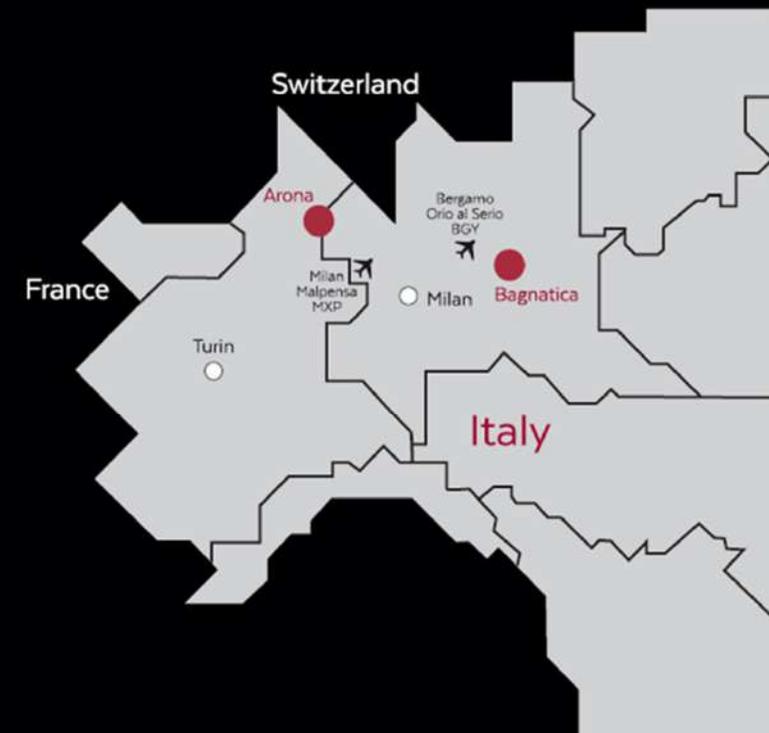
Via Fratelli Kennedy, snc - 24060 Bagnatica (BG)  
T. +39 035 0511 111 - F. +39 035 686 297

### Warehouse

Via Fratelli Kennedy, snc - 24060 Bagnatica (BG)  
T. +39 035 0511 111 - F. +39 035 676 278

### Registered Office

Viale Gian Galeazzo, 15 - 20136 Milano (MI)



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