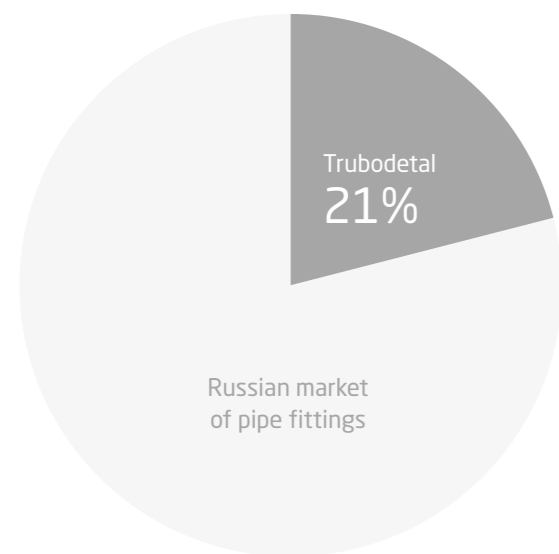


## Products

**In 2012 Trubodetal OAO has gained 21% share in the pipe fittings market of Russia and CIS**

### Trubodetal offers:

- branch pipes: buttwelding induction bends, short-radius bends, forge-welded bends, pressed bends;
- tees: pressed tees, forge-welded tees;
- adapters and adapter rings;
- caps, plugs and endplates;
- pipeline assemblies;
- stabilizer sleeves;
- pipeline supports;
- manhole hatches, loading chambers;
- custom products.



**All the Products are manufactured under strict quality control in compliance with the applicable GOSTs, OSTs and the Technical Specifications (TU), developed by the Company in cooperation with Gazprom VNIIGAZ LLC, NII TNN LLC, Samara Technical Engineering Center LLC. The Company additionally applies Technical Specifications, approved by Gazprom OAO and AK Transneft OAO.**

### The list of our Technical Specifications (TU) includes the following TUs for pipe fittings:

- for Gazprom OAO facilities, operating at 11,8 MPa and 28,45 MPa pressures;
- for AK Transneft OAO facilities, operating at pressures up to 14 MPa;
- for the facilities of Surgutneftegaz OAO;
- for crude oil gathering and treating facilities, approved by NK Rosneft OAO, Gazprom Neft OAO, Lukoil OAO and other major oil companies.



## Buttwelding induction bends (HFC)



Buttwelding induction bends offered by TURUBODETAL OAO are manufactured using the following induction bending machines:

- SRBMI 1400 (AWS Schafer, Germany);
- PB 1600 (Cojafex, Netherlands);
- 820 HFC (UralMash, Russia).

### HFC Bend Branch Specifications:

- diameter - 57 to 1420 mm;
- bending radius -1,5 to 10 DN;
- all thickness - up to 100 mm;
- bending angle -10 to 90°;
- operating pressure - up to 32 MPa.

SRBMI 1400 bending machine allows for manufacturing of 3D bent products. The Company also offers various cold bent items, made at our in-house cold bending bay, fitted with 5 precision cold bending machines: pipe diameter - 219 to 1420 mm, all thickness - up to 33,4 mm, pipe strength grade - up to K65, including products with external insulation.

## Forge-welded bends



Two in-house production working areas, equipped for cutting, forging, assembling, welding, thermal treatment operations.

### Product Specifications:

- diameter - 720 to 1420 mm;
- wall thickness - up to 52 mm;
- Operating Pressure - up to 28,45 MPa.

## Pressed branches, tees, adapters, plugs



Pressed pipe fittings are produced in-house in the shop no. 2, equipped with 6 hot drawing machines, 2 hydraulic forging production lines, 3 presses for manufacturing pipe adapters and plugs.

### Major Applications:

- oil and gas mining industry;
- oil processing and petrochemical industries;
- thermal and nuclear power industry;
- construction, housing and utility sectors.

### Product Specifications:

- diameter -57 to 630 mm;
- wall thickness - up to 30 mm;
- operating pressure - up to 32 MPa;
- made of corrosion resistant, stainless and carbon steels;
- fabricated from seamless and welded pipes.

## Forge-welded tees



Two in-house production working areas, equipped for milling, assembling, welding, forging, thermal treatment operations.

### Product Specifications:

- diameter -530 to 1420 mm;
- wall thickness - up to 93 mm;
- operating pressure - up to 28,45 MPa.

## Pipeline assemblies



Pipeline Assemblies are used for the SKD assembling of piping systems for oil pumping stations, compressor stations, oil and gas treatment plants, etc.

SKD assembling method considerably accelerates field assembling works and enhances the quality, since the majority of critical welding and coating works are performed at the plant. The Company offers various pipeline assemblies with diameters varying from 57 to 1420 mm and rated pressure up to 28,45 MPa.

Production facilities include three production working areas; assembling and welding facilities are equipped with modern welding equipment, including:

- automatic welding machines ESAB CaB-300 (Sweden);
- semiautomatic welding machines EWM Alpha Q (Germany);
- assembly jigs.

After having been welded all the types of pipeline assemblies are coated with anticorrosion protection coatings. The coatings are applied in one cycle, which eliminates the need in heat-shrinkable sleeves. All welded joints are 100% tested and verified using ultrasonic and Gamma-ray flow detection control methods.

## Anticorrosion coatings and thermal insulation



The Company is widely using modern equipment for applying liquid external polyurethane-based coatings on final products.

The Company has been producing waterproof pipe fittings for both underground and on-surface pipelines since 2011.

Today these products are highly demanded by various industrial users, including industry giants, such as Gazprom OAO, AK Transneft OAO.

External corrosion-resistant and thermal insulation coatings may be applied on all pipeline elements, from D219 to D1420 mm inclusively.

## Quality control

Trubodetal OAO has implemented and maintains A Quality Management System, including:

- Quality Control Department (QCD);
- Non-Destructive Test Lab;
- Test Center.

These units are fitted with more than 100 units of most modern, state-of-the-art test equipment, including:

- ZWIK (Germany) test machines;
- ZWIK RKP 450 (Germany) Charpy impact machine;
- ultrasonic analyzers, detectors, thickness gauges (Russia, England);
- radiographic control chambers with directional and panoramic X-ray detectors (Russia, Belgium, Denmark);
- adhesion testers;
- magnetic thickness gauges, spark detectors;
- ultra-cold test chamber ESPEC MC-711 (Japan);
- hardness testers (Russian, USA).



## Trubodetal OAO

**Trubodetal OAO - the leading Russian manufacturer of a wide range of pipe fittings.**

Trubodetal OAO - member-company of United Metallurgical Company (OMK) since 2005.

OMK - one of the largest Russian manufacturers of pipes, tubes, railway wheels and other steel products for power engineering, transport and other industries. OMK includes seven major metallurgical enterprises: Vyksa steel works (Nizhny Novgorod region), Almeteyevsk pipe plant (the Republic of Tatarstan), Trubodetal (Chelyabinsk region), Casting and rolling complex (Nizhny Novgorod region), Blagoveschensk valves plant (the Republic of Bashkortostan), Chusovskoy metallurgical plant (Perm region), OMK Tube (Texas, USA).

### United metallurgical company

#### Vyksa steel works

Core Businesses:  
large diameter pipes,  
oil and gas pipes, casing pipes,  
small diameter pipes,  
railway wheels

#### Trubodetal

Core Businesses:  
pipe fittings

#### Blagoveschensk valves plant

Core Businesses:  
pipeline valves and fittings

#### Chusovskoy metallurgical plant

Core Businesses:  
rolled metal products  
for automotive industry,  
shock absorbers for various  
types of vehicles

#### Almeteyevsk pipe plant

Core Businesses:  
oil and gas pipes, small diameter  
pipes (water and gas supply)

#### OMK Tube

Core Businesses:  
casing pipes, production tubing

#### Casting and rolling complex

Core Businesses:  
hot rolled coils and sheets  
1 to 12,7 mm

#### OMK share in the Russian market \*:

pipes - 15%      railway wheels - 62 %      pipe fittings - 21%

\* as on 2012

Today Trubodetal OAO means twelve production working areas, more than 1 900 employees, production facilities capable to produce more than 10 000 of various dimension-types of pipe fittings.



TRUBODETAL

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TRUBODETAL

# Pipe fittings for oil and gas industry

