



UTEM-TT

PRODUCT CATALOGUE

FABRICATION OF
PIPELINE ELEMENTS,
COMPONENTS
AND PIPE SPOOLS

High- and low-pressure
pipe spools
Tees
Elbows
Reducers



FORMING OPPORTUNITIES

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OUR CORE PRODUCTS

- Steel pipe fittings:
 - tees;
 - elbows;
 - reducers;
- Pipe spools for process piping

Put into operation in 2018 by UTEM Group, the Company specialises in the manufacture of pipeline elements, components and pipe spools for all industries.

SHOP FLOOR

Our manufacturing facilities consist of plant shops spanning 3,850 sq.m. and open grounds of 1,590 sq.m, equipped with machinery by domestic and global manufacturers such as ESAB (Sweden), PROMOTECH (Poland), MEBA (Germany), COPIER (the Netherlands), ATLAS COPCO (Sweden), PAVALEX (Czech Republic), RÖSLER (Germany), WETORI (Taiwan) and others.

- Apparatus for incoming materials inspection and step-by-step operation checking
- Machine tools for the fabrication of seamless pipe fittings
- Machine tools for the fabrication of turnery parts, plate stock cutting and roll bending, pipe stock cutting and facing
- Pipe stock plasma cutter
- Orbital welding and longitudinal pipe welding equipment
- Shot blasting centre



PERSONNEL

At UTEM, the workforce is treated as an invaluable resource. Advanced equipment and specialty machines demand the competence of highly skilled and accountable professionals. Our team is tightly knit and committed, capable of completing orders efficiently, ensuring uninterrupted production processes from engineering design documentation up to delivery of the final product.

The Company employs over 75 specialists from various trades who undergo regular training to enhance their qualifications. Above all, they are motivated to attain a shared objective of meeting the highest level of customer satisfaction and preventing any warranty claims at any production stage.



2,220 tons
annual
capacity

5,500 m²
floor
space

2018
year
established

Nominal Pipe Size, inch	Outside Diameter*, mm		Wall Thickness*, mm		Drawing	Model
	D1	D2	WT1	WT2		
Seamless butt-welding pipe fittings: equal and reducing tees EN 10253						
2x¾	60.3	26.9	1.6÷5.6	1÷4		
2x1		33.7		1÷4.5		
2x1¼		42.4		1.6÷5		
2x1½		48.3		1.6÷5		
2x2		60.3		1.6÷5.6		
2½x1	76.1	33.7	1.6÷7.1	1÷4.5		
2½x1¼		42.4		1.6÷5		
2½x1½		48.3		1.6÷5		
2½x2		60.3		1.6÷5.6		
2½x2½		76.1		1.6÷7.1		
3x1¼	88.9	42.4	1.6÷8	1.6÷5		
3x1½		48.3		1.6÷5		
3x2		60.3		1.6÷5.6		
3x2½		76.1		1.6÷7.1		
3x3		88.9		1.6÷8		
3½x3½	101.6	101.6	2÷8	2÷8		
4x1½	114.3	48.3	1.6÷8.8	1.6÷5		
4x2		60.3		1.6÷5.6		
4x2½		76.1		1.6÷7.1		
4x3		88.9		1.6÷8		
4x4		114.3		1.6÷8.8		
5x2	139.7	60.3	1.6÷10	1.6÷5.6		
5x2½		76.1		1.6÷7.1		
5x3		88.9		1.6÷8		
5x4		114.3		1.6÷8.8		
5x5		139.7		1.6÷10		
6x2½	168.3	76.1	1.6÷11	1.6÷7.1		
6x3		88.9		1.6÷8		
6x4		114.3		1.6÷8.8		
6x5		139.7		1.6÷10		
6x6		168.3		1.6÷11		
8x4	219.1	114.3	2÷12.5	1.6÷8.8		
8x5		139.7		1.6÷10		
8x6		168.3		1.6÷11		
8x8		219.1		2÷12.5		
10x4	273	114.3	2÷14.2	1.6÷8.8		
10x5		139.7		1.6÷10		
10x6		168.3		1.6÷11		
10x8		219.1		2÷12.5		
10x10	323.9	273	2.6÷12.5	2÷14.2		
12x6		168.3		1.6÷11		
12x8		219.1		2÷12.5		
12x10		273		2÷14.2		
12x12	323.9	2.6÷12.5				

* All technical details are available on request

Nominal Pipe Size, inch	Outside Diameter*, mm		Wall Thickness*, mm		Drawing	Model
	D1	D2	WT1	WT2		
Seamless butt-welding pipe fittings: concentric reducers EN 10253						
1½	33.7	21.3	1.6÷4.5	1÷4		
1¾		26.9		1÷4		
1¼x¾	42.4	26.9	1.6÷5	1÷4		
1¼x1		33.7		1÷4.5		
1½x¾	48.3	26.9	1.6÷5	1÷4		
1½x1		33.7		1÷4.5		
1½x1¼		42.4		1.6÷5		
2x¾	60.3	26.9	1.6÷5.6	1÷4		
2x1		33.7		1÷4.5		
2x1¼		42.4		1.6÷5		
2x1½	76.1	48.3	1.6÷7.1	1.6÷5		
2½x1		33.7		1÷4.5		
2½x1¼		42.4		1.6÷5		
2½x1½		48.3		1.6÷5		
2½x2		60.3		1.6÷5.6		
3x1¼	88.9	42.4	1.6÷8	1.6÷5		
3x1½		48.3		1.6÷5		
3x2		60.3		1.6÷5.6		
3x2½		76.1		1.6÷7.1		
4x1½	114.3	48.3	1.6÷8.8	1.6÷5		
4x2		60.3		1.6÷5.6		
4x2½		76.1		1.6÷7.1		
4x3		88.9		1.6÷8		
5x2	139.7	60.3	1.6÷10	1.6÷5.6		
5x2½		76.1		1.6÷7.1		
5x3		88.9		1.6÷8		
5x4		114.3		1.6÷8.8		
6x2½	168.3	76.1	1.6÷11	1.6÷7.1		
6x3		88.9		1.6÷8		
6x3½		101.6		2÷8		
6x4		114.3		1.6÷8.8		
6x5	219.1	139.7	2÷12.5	1.6÷10		
8x3		88.9		1.6÷8		
8x4		114.3		1.6÷8.8		
8x5		139.7		1.6÷10		
8x6	273.1	168.3	2÷14.2	1.6÷11		
10x4		114.3		1.6÷8.8		
10x5		139.7		1.6÷10		
10x6		168.3		1.6÷11		
10x8	323.9	219.1	2.6÷12.5	2÷12.5		
12x5		139.7		1.6÷10		
12x6		168.3		1.6÷11		
12x8		219.1		2÷12.5		
12x10	273.1	2÷14.2				

* All technical details are available on request

Nominal Pipe Size, inch	Outside Diameter*, mm	Wall Thickness *, mm	Drawing	Model
Seamless butt-welding pipe fittings: sharp-bend elbows of 3D type ($R \approx 1.5 DN$) 90°, 60° and 45° EN 10253				
2	60.3	1.6÷5.6		
2½	76.1	1.6÷7.1		
3	88.9	1.6÷8		
4	114.3	1.6÷8.8		
5	139.7	1.6÷10		
6	168.3	1.6÷11		
8	219.1	2÷12.5		
10	273	2÷14.2		
12	323.9	2.6÷12.5		

* All technical details are available on request

STANDARDS AND MATERIALS

Apart from Ukrainian standards, our Company delivers its products to EN 10253-2 and -4. UTEM products meet the requirements laid down in Directive 2014/68/EU.

We fabricate stainless steel fittings according to EN 10216-5 from seamless pipes of the below listed and comparable grades.

We fabricate carbon steel fittings according to EN 10216-1, EN 10216-2 and EN 10216-3 from seamless pipes of the below listed and comparable grades.

EN	ASME/ASTM/AISI
Carbon	
P235TR2 (1.0255)	N/A
P265TR2 (1.0259)	A414 Grade G
P235GH (1.0345)	A285 Grade C
P265GH (1.0425)	A414 Grade E, A516 Grade 60
P355N (1.0562)	A537CL1
P355NH (1.0565)	A662 Grade C
P355NL1 (1.0566)	A737 Grade B
Stainless	
1.4301 (X5CrNi18-10)	304
1.4306 (X2CrNi19-11)	304L
1.4307 (X2CrNi18-9)	304L, S30452
1.4311 (X2CrNi18-10)	304LN
1.4401 (X5CrNiMo17-12-2)	316
1.4404 (X2CrNiMo17-12-2)	316L
1.4429 (X2CrNiMo17-13-3)	316LN
1.4432 (X2CrNiMo17-12-3)	316L
1.4435 (X2CrNiMo18-14-3)	316LMoS
1.4438 (X2CrNiMo18-15-4)	317L
1.4439 (X2CrNiMo17-13-5)	317LM
1.4541 (X6CrNiTi18-10)	321
1.4550 (X6CrNiNb18-10)	347
1.4571 (X6CrNiMoTi17-12-2)	316Ti

REFERENCES

Specialising in the fabrication of pipe fittings and piping elements for the needs of the power industry, UTEM covers gas, coal, hydro, nuclear and co-generation energy. We boast our products incorporated in the projects implemented at Rivne NPP, South-Ukraine NPP, Zaporizhia NPP and Khmelnytskyi NPP.

Being an approved supplier for many Ukrainian private and public companies, UTEM also serves oil and gas, chemical, water and wastewater, and food sectors.

By choosing UTEM, you are not only selecting a supplier of high-quality steel pipe fittings but also a partner in the pursuit of a cleaner and more sustainable energy future for Europe and the world.



SUCCESSFUL COLLABORATION WITH UKRAINIAN NPPS

At UTEM, we take immense pride in our successful collaboration with Ukrainian nuclear power plants. These projects represent not only the technical excellence of our products but also our unwavering commitment to safety and reliability in critical infrastructure.

Our partnership with the National Nuclear Energy Generating Company Energoatom has allowed us to play a vital role in supporting Ukraine's energy security and sustainability.



HYDROFORMING

Ukraine's only hydroforming press line allows manufacturing production of pipe fittings in the range from DN32 (1¼") to DN300 (12") with wall thicknesses up to 12 mm (½"). This equipment enables fabrication of products of carbon and stainless steels for the nuclear and thermal power, as well as metals, oil and gas, chemical and other industries.



FABRICATION OF PIPELINE COMPONENTS AND PIPE SPOOLS

- ✦ High-pressure pipe spools
- ✦ Low-pressure pipe spools
- ✦ Supports
- ✦ Hangers

UTEM – TT offers comprehensive services, ranging from preparation of drawings of pipe spools and fasteners (supports, hangers) to delivery to the Customer's site.

The plant is equipped with state-of-the-art machinery from the top global manufacturers, for cutting tubular, flat and long products, pressure forming, welding, heat treatment, metal and weld testing, and applying anti-corrosion coating.

The plant is capable of fabricating pipe spools (including those of stainless steels) with sizes limited by shipping dimensions (11.5x2.5x1.1 m/37'8"x8'2"x3'7"), Ø57 mm (2¼") to Ø1020 mm (40") and wall thicknesses up to 25 mm (1").



An MWG-170 open-type torch for welding Ø50÷168 mm pipes, with an MWA-400 Panasonic welding power supply

A unique PROMOTECH machine, which can cut out holes of any complexity in a matter of minutes



For pipe stock cutting and facing we employ a MEBA bandsaw machine and a COPIER beveling machine



DESIGNING

Our in-house Design Engineering Department develops Detail Design documentation for process pipelines to provide our Customers with ultimate technical solutions.

We elaborate design documentation using modern software systems LIRA-SAPR 2012, AutoCAD 2013 and Advance Steel 2012, as required by codes, standards and regulations for the fabrication, installation and operation of pipelines.

CORROSION-PROTECTION COATING

Shot blasting is necessary to achieve a high-quality anti-corrosion coating. The coating can range from 300 to 500 µm in thickness. The colour and type of coating should be in accordance with the workshop drawings.

PACKAGING AND DELIVERY

As statutorily required, we apply protective coating to safeguard all our products during transportation and storage. To prevent damage, our pipe spools are fitted with tightly plugged edges. Furthermore, our products are enclosed in either metallic or wooden casings.



QUALITY CONTROL

Our production processes are fully automated, and every stage undergoes quality control by an independent technical laboratory:

- ✦ Incoming inspection of basic materials: visual and dimensional inspection, spectrochemical analysis
- ✦ Step-by-step operation checks
- ✦ DT/NDT acceptance inspection of welding joints and base metal



UTEM-TT HOLDS ALL NECESSARY PERMITS AND CERTIFICATES TO CARRY OUT ACTIVITIES RELATED TO THE FABRICATION OF PIPELINE COMPONENTS AND PIPE SPOOLS

ISO 9001:2015 Quality Management System certificate



According to EN 10253 (Parts 2 and 3), certificate of product conformity to the Pressure Equipment Directive 2014/68/EU



ISO 14001:2015 Environmental Management System certificate



Certificate of product conformity to the Technical Regulation for Pressure Equipment, Module H1



RENEWABLES AND NET ZERO

At UTEM Group, sustainability lies at the heart of our business values. We understand the critical role businesses play in addressing climate change. We have implemented renewable energy technologies in our operations, reducing our reliance on fossil fuels and decreasing our environmental impact. As part of our commitment to a sustainable future, we have ambitious plans to achieve Net Zero emissions by 2030.



EQUALITY

At UTEM Group, our commitment to equality and inclusivity is a cornerstone of our corporate culture. We firmly believe that diversity is our strength and that every individual, regardless of their background, deserves equal opportunities and respect within our organisation. We embrace a workplace where diversity thrives, and we actively promote an environment that is free from discrimination, bias, and prejudice. We actively seek to foster an inclusive atmosphere where all employees feel valued, heard, and empowered. We also prioritise gender equality and are committed to achieving gender balance across all levels of the Group.



SOCIAL RESPONSIBILITY

At UTEM Group, we are committed to social responsibility and ensuring a positive work environment for our valued team. We provide equal opportunities, and we proudly employ a person with a disability. Moreover, we prioritise the well-being of our employees by offering a state-of-the-art gym facility on-site. In addition, we actively collaborate with local authorities to implement Bucha Community development projects, demonstrating our commitment to making a positive impact in the regions where we operate.





FORMING OPPORTUNITIES

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