



PERFORMANCE IN TUBULARS

Our world is based on high tech seamless pipes that can withstand the toughest conditions, day in, day out. We promise highest performance based on the core values customization, innovation, sustainability and responsibility.



CUSTOMIZATION



INNOVATION



SUSTAINABILITY



RESPONSIBILITY

PRODUCTION, R&D, SALES LOCATIONS





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INDUSTRIAL PIPES

voestalpine Tubulars offers a comprehensive product portfolio of Industrial Pipes that fulfills the highest quality standards and is customized to meet the requirements of a wide range of industries.

We operate a state-of-the-art production line for Industrial Pipes, which enables us to produce customized solutions at the highest quality and meet the requirements of our customers. The focus of this product segment is not only on the energy sector, but also on numerous other industries such as mechanical engineering, the automotive supply industry and other processing industries in which the seamless pipes are used as end products or product components.

All products are manufactured in accordance with internationally recognized standards (EN & ASTM/ASME) to meet the highest quality requirements.



PRODUCT RANGE

In our portfolio of dimensions, we offer different product ranges that cover a variety of requirements and applications.

These range from a diameter of 26.70 mm to 203.20 mm (1.050 inch to 8.000 inch) and a wall thickness of 4.00 mm to 28.00 mm (0.157 inch to 1.102 inch).

Our range extends from compact, precision-manufactured small dimensions for specific niche applications to large-format dimensions that are ideal for industrial applications.

Outside diameter up to

203.20_{mm}

(8.000 inch)

Wall thickness up to

28_{mm}

(1.102 inch)

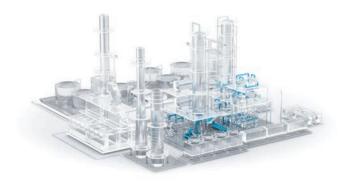
FIELDS OF APPLICATION

- » Geotechnical Systems and Civil Constructions
- » Tubes & Pipes for Pressure Applications
- » Yellow Goods and Other Applications



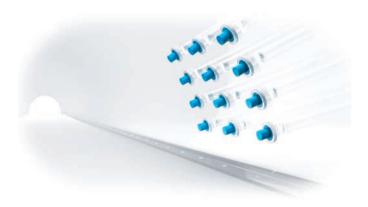
INDUSTRIAL PIPES – FIELDS OF APPLICATION

We operate a state-of-the-art production line for Industrial Pipes, which enables us to produce customized solutions at the highest quality and meet the requirements of our customers.





- » Refineries / downstream for hydrocarbon processing / media extraction
- » Coal fired power plants / power generation for heat transfer units
- » Chemical and petrochemical industry for waste heat recovery units
- » Industrial high pressure plants / equipment
- » Fittings and elbows



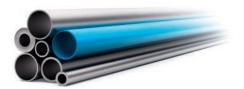
GEOTECHNICAL SYSTEMS AND CIVIL CONSTRUCTIONS

- » Micropiles for foundations, soil nailing and anchorages
- » Umbrella systems for tunneling excavations
- » Drill pipes for horizontal-directional-drilling (HDD)
- » Micro and ground anchors
- » Tunnel anchors
- » Self-drilling anchors (SDA) and bolts



ToughTubes®

Our ToughTubes® are seamless thermomechanically rolled steel pipes. A team of technicians at voestalpine Tubulars has developed a production technology to meet our customers' requirements for high-strength seamless steel pipes.



HOLLOWS FOR REDRAW

voestalpine Tubulars has many years of experience in supplying seamless hot-rolled semi-finished (ex cooling bed) steel pipes for the production of cold drawn precision pipes.



MOBILITY

- » Non-driven axles
- » Pulleys, vibration absorbers, fly wheels and bushings
- » Transmission and engine parts
- » Body frames for trucks and boogie frames for rolling stock
- » Cardan shafts



YELLOW GOODS AND OTHER APPLICATIONS

- » Semi-finished products for hydraulic cylinders
- » Accumulator shells, gas bottles and diving cylinders
- » Lattice boom sections for cranes
- » Concrete pump pipes
- » Oil and Gas (manifolds, perforation guns, stators for eccentric pumps)
- » Rollercoasters and other amusement rides
- » Agricultural equipment

PRODUCT RANGE

Our range extends from compact, precision-manufactured small dimensions for specific niche applications to large-format dimensions that are ideal for industrial applications or large-scale projects.

							WALL	THICKNES	S							
	mm		4.00	4.50	5.00	5.60	6.30	7.10	8.00	8.80	9.50	10.00	11.00	11.50	12.00	
		inch	0.157	0.177	0.197	0.220	0.248	0.280	0.315	0.346	0.374	0.394	0.433	0.453	0.472	
	26.70	1.050														
	26.90	1.059														
	30.00	1.181														
	31.80	1.252														
	33.70	1.327														
	38.00	1.496														
	42.40	1.669														
	44.50	1.752														
	48.26	1.900														
	51.00	2.008														
	54.00	2.126														
	57.00	2.244														
	60.32	2.375														
	63.50	2.500														
TER	70.00	2.756														
Σ	73.02	2.875														
OUTSIDE DIAMETER	76.10	2.996														
JTSIL	82.50	3.248														
o	88.90	3.500														
	95.00	3.740														
	101.60	4.000														
	108.00	4.252														
	114.30	4.500														
	121.00	4.764														
	127.00	5.000														
	133.00	5.236														
	139.70	5.500														
	146.00	5.748														
	152.40	6.000														
	159.00	6.260														
	165.10	6.500														
	168.28	6.625														
	177.80	7.000														
	193.68	7.625														
	203.20	8.000														

WALL THICKNESS																
12.50	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00	24.00	25.00	26.00	27.00	28.00
0.492	0.512	0.551	0.591	0.630	0.669	0.709	0.748	0.787	0.827	0.866	0.906	0.945	0.984	1.024	1.063	1.102

PRODUCT RANGE INDUSTRIAL PIPES 9



ToughTubes®

Our ToughTubes® are seamless thermomechanically rolled steel pipes. Thanks to precise control of temperature and forming parameters, ToughTubes® achieve a unique combination of mechanical properties that standard production methods simply cannot deliver – including the ideal balance of high-strength and outstanding toughness.

PRODUCT CHARACTERISTICS & CUSTOMER BENEFITS

CHARACTERISTICS

- » Excellent weldability
- » High-strength with excellent toughness
- » Good cold forming properties
- » Improved surface quality
- » Extremely fine-grained microstructure

FIELDS OF APPLICATION

- » Tubes for the automotive industry (passenger cars and commercial vehicles)
- » Mechanical tubes
- » High-strength Line Pipes

HOLLOWS FOR REDRAW

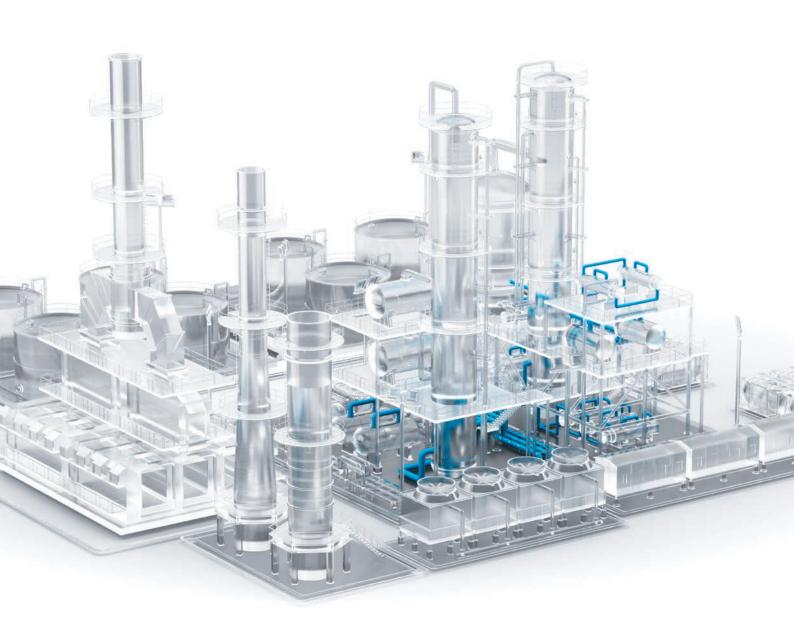
voestalpine Tubulars has many years of experience in supplying seamless hot-rolled semi-finished (ex cooling bed) steel pipes for the production of cold drawn precision pipes.

The versatility of the design and the quality of the material make hollows an ideal basis for the production of precision tubes, hydraulic cylinders and other components for the automotive and engineering industries.

Meeting individual requirements is important to us. Their high adaptability enables efficient solutions for demanding technical applications.



TOUGHTUBES® INDUSTRIAL PIPES 11



TUBES & PIPES FOR PRESSURE APPLICATIONS

Our Tubes and Pipes for Pressure Applications ensure safety and efficiency in refineries, power plants and the chemical and petrochemical industries. They are ideal for heat exchangers, waste heat recovery and industrial high-pressure systems.

PRODUCT CHARACTERISTICS & **CUSTOMER BENEFITS**

CUSTOMIZED PRODUCT SOLUTIONS

» From standardized to customized – we provide the optimal solution for your product requirements.

CERTIFIED, SAFE AND RELIABLE

» Certifications in accordance with international standards guarantee the highest quality and conformity with environmental, safety, health and other important rules, regulations and values.

TUBES FOR PRESSURE APPLICATIONS

» voestalpine Tubulars operates a quality management system that has undergone specific assessment for pressure equipment materials (PED 2014/68/EC).

STANDARDIZED PRODUCT SOLUTIONS

» The main standards for our products for Pressure Applications are ASTM/ASME and EN.



FURTHER BENEFITS

- » Carbon steel and low alloy steel tubes are produced in dimensions from 26.70 mm to 203.20 mm (1.050 inch to 8.000 inch), meeting both international standards and specific customer requirements. Testing with internationally recognized certificates can be carried out for custom solutions as the mechanical material testing facilities are accredited to ISO/ IEC 17025:2017.
- » Through annual customer satisfaction surveys and continuous development with our customers, we have established ourselves as a reliable partner for the entire process, from initial contact to after-sales service.
- » Pressure Equipment Directive: Specific assessment of pressure equipment materials (PED 2014/68/EC Annex I, Section 4.3) and certification by the competent body (TUEV SUED).
- » Pressure components: TUEV AD 2000 W0 / TRD 100 and AD 2000 W4

Dimensions & lengths for EN & ASTM

Combinations of pipe sizes (outside diameter range from 26.70 mm to 203.20 mm (1.050 inch to 8.000 inch), special intermediate walls as well as minimum, average and heavy walls up to 28.00 mm (1.102 inches), lengths up to 17.00 m (56 ft), heat treatment conditions and testing methods available upon request.

AREAS OF APPLICATION

Our pipes are characterized by their high resistance and first-class performance – even under extreme loads. Their robust design guarantees reliable functionality, even in the most demanding areas of application, such as

- » Refineries / down stream for hydrocarbon processing / media extraction
- » Coal fired power plants / power generation for heat transfer units
- » Chemical and petrochemical industry for waste heat recovery units
- » Industrial high pressure plants / equipment
- » Fittings and elbows

PRODUCT SOLUTIONS ACCORDING TO EN & ASTM

EN 10216 APPLICATIONS

- » Part 1: Non-alloy steel tubes with specified room temperature properties available steel grades: P235TR1, P235TR2
- » Part 2: Non-alloy and alloy steel tubes with specified elevated temperature properties available steel grades: P235GH, P265GH, 20MNNB6, 16MO3, 13CRMO4-5, 10CRMO9-10, 25CRMO4

Available soon: X11CRMO5, X11CRMO9-1, X10CRMOVNB9-1, X10CRWMOVNB9-2, X10CRALSI7

- » Part 3: Alloy fine grain steel tubes available steel grades: P275*, P355*, P460*, P620*, P690* (* = all variations acc. to Table 2)
- » Part 4: Non-alloy and alloy steel tubes with specified low temperature properties available steel grades: P215NL, P255QL, P265NL
- » Various VdTUEV material datasheets available soon

ASTM APPLICATIONS

- » Seamless carbon steel pipes for high temperature service acc. to ASTM A106/A106M & ASME SA 106 available steel grades: GRADE A, GRADE B, GRADE C
- » Seamless carbon steel pipes for low-temperature service and other applications with required notch toughness acc. to ASTM A333/A333M & ASME SA 333 available steel grades: GRADE 6, **GRADE 1**
- » Seamless ferritic alloy-steel pipes for high-temperature service acc. to ASTM A335/A335M & ASME SA 335
- » Available steel grades: GRADE P1, GRADE P11, GRADE P12, GRADE P22, GRADE P5, GRADE P9, GRADE P91, GRADE P92
- » Seamless carbon-molybdenum alloy-steel boiler and superheater tubes acc. ASTM A209/A209M & ASME SA 209 available steel grades: GRADE T1, GRADE T1a
- » Seamless medium-carbon steel boiler and superheater tubes acc. ASTM A210/A210M & ASME SA 210 available steel grades: GRADE A-1, GRADE C
- » Seamless ferritic alloy-steel boiler, superheater and heat-exchanger tubes acc. to ASTM A213/A213M & ASME SA 213 available steel grades: GRADE T1, GRADE T11, GRADE T12, GRADE T22, GRADE T5, GRADE T9, GRADE T91, GRADE T92

ASTM RANGE

NOMINAL PIPE SIZE	OUTSIDE DIAMETER		W <i>A</i> THICk		CCLIEDINE	WEIGHT			
inch	mm	inch	mm	inch	SCHEDULE	kg/m	ppf		
men	111111	IIICII	2.87	0.113	STD 40	1.69	1.13		
3/4	26.70	1.050	3.91	0.154	XS/80	2.20	1.47		
			3.38	0.133	STD 40	2.50	1.68		
1	33.40	1.315	4.55	0.179	XS/80	3.24	2.17		
·	55.10	1.010	6.35	0.250	160	4.24	2.85		
			3.56	0.140	STD 40	3.39	2.27		
			4.85	0.191	XS/80	4.47	3.00		
1 1/4	42.20	1.660	6.35	0.250	160	5.61	3.76		
			9.70	0.382	XXS	7.77	5.22		
			3.68	0.145	STD 40	4.05	2.72		
			5.08	0.200	XS/80	5.41	3.63		
1 ½	48.30	1.900	7.14	0.281	160	7.25	4.86		
			10.15	0.400	XXS	9.56	6.41		
			3.91	0.154	STD 40	5.44	3.66		
			5.54	0.218	XS/80	7.48	5.03		
2	60.30	2.375	8.74	0.344	160	11.10	7.47		
			11.07	0.436	XXS	13.44	9.04		
			5.16	0.203	STD 40	8.63	5.80		
		0.075	7.01	0.276	XS/80	11.41	7.67		
2 ½	73.00	2.875	9.53	0.375	160	14.92	10.02		
			14.02	0.552	XXS	20.39	13.71		
			5.49	0.216	STD 40	11.29	7.58		
			7.62	0.300	XS/80	15.27	10.26		
3	88.90	3.500	11.13	0.438	160	21.35	14.34		
			15.24	0.600	XXS	27.68	18.60		
	101.60		5.74	0.226	STD 40	13.57	9.12		
3 1/2		4.000	8.08	0.318	XS/80	18.63	12.52		
			16.15	0.636	XXS	34.03	22.87		
			6.02	0.237	STD 40	16.07	10.80		
			8.56	0.337	XS/80	22.32	15.00		
4	114.30	4.500	11.13	0.438	120	28.32	19.02		
			13.49	0.531	160	33.54	22.53		
			17.12	0.674	XXS	41.03	27.57		
			6.27	0.247	STD 40	18.67	12.55		
4 1/2	127.00	5.000	9.02	0.355	XS/80	26.24	17.63		
			18.03	0.710	XXS	48.45	32.56		
			6.55	0.258	STD 40	21.77	14.63		
			9.53	0.375	XS/80	30.97	20.80		
5	141.30	5.563	12.70	0.500	120	40.28	27.06		
			15.88	0.625	160	49.11	32.99		
			19.05	0.750	XXS	57.43	38.59		
			7.11	0.280	STD 40	28.26	18.99		
			10.97	0.432	XS/80	42.56	28.60		
6	168.30	6.625	14.27	0.562	120	54.20	36.43		
			18.26	0.719	160	67.56	45.39		
			21.95	0.864	XXS	79.22	53.21		
			7.65	0.301	STD 40	35.10	23.57		
7	193.70	7.625	12.70	0.500	XS/80	56.69	38.08		
			22.23	0.875	XXS	94.00	63.14		

TESTING METHODS FOR EN & ASTM

The following testing methods are available for EN

- » Hydrostatic test (hydraulic leak tightness)
- » Electromagnetic non-destructive examination for the verification of the hydraulic leak tightness acc. to EN ISO 10893 Part 1 (as an option of the manufacturer or upon clients' request)
- » Eddy-current examination of the pipe for the detection of imperfections acc. to EN ISO 10893 Part 2
- » Flux leakage examination for the detection of longitudinal and transverse imperfections acc. to EN ISO 10893 Part 3
- » Ultrasonic thickness testing acc. to EN ISO 10893 Part 12

- » Ultrasonic examination of pipe body for the detection of imperfections acc. to EN ISO 10893 Part 8
- » Ultrasonic examination of the pipe body for the detection of longitudinal and/or transverse imperfections acc. to EN ISO 10893 Part 10

The following testing methods are available for ASTM:

- » Hydrostatic test (hydraulic leak tightness)
- » Eddy-current examination of the pipe for the detection of discontinuities on external surface acc. to ASTM E 309
- » Electromagnetic non-destructive examination for the verification of the hydraulic leak tightness acc. to ASTM E309 or ASTM E570 (as an option of the manufacturer or upon clients' request)
- » Flux leakage examination for the detection of external surface and internal surface imperfections in longitudinal and transverse orientation acc. to ASTM E570
- » Ultrasonic examination of pipe body for the detection of external surface and internal surface imperfections in longitudinal and transverse orientation acc. to ASTM E213
- » Please Note: Not all tests are available for all sizes. Description of defects acc. to the relevant product specification. Other testing methods upon request.



GEOTECHNICAL SYSTEMS AND CIVIL CONSTRUCTIONS

Geotechnical systems and civil constructions offer innovative solutions for foundations, soil nailing and tunnelling. With micropiles, umbrella systems and drill pipes for horizontaldirectional-drilling, complex construction projects are carried out efficiently and safely.

PRODUCT CHARACTERISTICS & **CUSTOMER BENEFITS**

HIGH LOAD-BEARING CAPACITY

» High-strength steel for maximum load-bearing capacity and durability

DIAMETER AND LENGTH

» Customizable to individual project requirements and conditions (intermediate dimensions upon request)

FLEXIBILITY

» Safe and reliable use even under high loading conditions

COST REDUCTION

» Long service life and less maintenance

HIGH TENSILE STRENGTH

» For permanent and temporary support systems

VARIETY OF MATERIAL

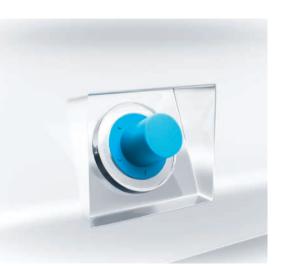
» Various steel grades for specific requirements

AREAS OF APPLICATION

Our mechanical tubes are used in a wide range of applications, such as construction and fastening tubes for tunnel anchors, tubes for mechanical engineering or for slope stabilization. We also develop customized solutions for demanding applications such as drill pipes for horizontal-directional-drilling (HDD).

At voestalpine Tubulars, continuous innovation means working closely with our customers. By focusing on their needs and requirements, we drive internal product development. Due to this continuous innovation, we are able to offer our customers the following product solutions:

- » Micropiles for foundations, soil nailing and anchorages
- » Umbrella systems for tunneling excavations
- » Drill pipes for horizontal-directional-drilling (HDD)
- » Micro and ground anchors
- » Tunnel anchors
- » Self-drilling anchors and bolts (SDA)



Wall thickness up to

28 mm

(1.102 inch)

MECHANICAL AND MACHINING APPLICATIONS

- » Various carbon and low alloy chromium-molybdenum steels in accordance with EN 10297-1
- » Hot-rolled / heat treated / thermomechanically treated
- » Yield strength 210 to 1.050 N/mm² -Tensile strength from 310 to 1.300 N/mm²
- » Outside diameter from 26.70 mm to 203.20 mm (1.050 inch to 8.000 inch) -Wall thickness from 4.00 mm to 28.00 mm (0.157 inch to 1.102 inch)





YELLOW GOODS AND OTHER APPLICATIONS

voestalpine Tubulars offers high quality tubes and components for construction machinery used in hydraulic cylinders, concrete pumps and construction solutions. Our products ensure maximum performance and reliability.

PRODUCT CHARACTERISTICS & **CUSTOMER BENEFITS**

HIGH PRESSURE RESISTANCE AND DURABILITY

» Our tubes for hydraulic cylinders, accumulator shells, gas bottles and diving cylinders are characterized by high pressure resistance and durability, ensuring reliable performance in demanding environments.

HIGH-STRENGTH AND OPTIMUM STABILITY

- » Tubes for lattice boom sections for cranes are designed to withstand high loads while providing optimum stability.
- » Our concrete pump tubes are engineered for outstanding durability and abrasion resistance.

INCREASED EFFICIENCY AND PRODUCTIVITY

» Our undercarriage and agricultural solutions are designed to keep your equipment running efficiently - boosting performance, productivity and profitability.

By combining these outstanding product features, our customers benefit from extended service life of their machines, reduced maintenance costs and an overall improvement in the efficiency of their applications.

AREAS OF APPLICATION

voestalpine Tubulars' products for construction machinery and related applications offer outstanding properties tailored to the needs of the industry.

- » Semi-finished products for hydraulic cylinders
- » Accumulator shells, gas bottles and diving cylinders
- » Lattice boom sections for cranes
- » Concrete pump pipes
- » Oil and Gas (manifolds, perforation guns, stators for eccentric pumps)
- » Rollercoasters and other amusement rides
- » Agricultural equipment



Construction machinery

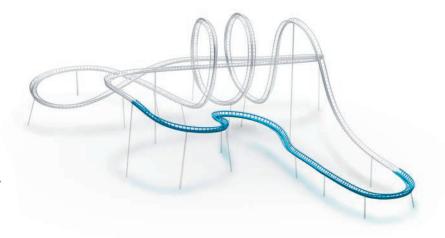
Dump trucks and crawler crane play a key role in the construction and mining industries, where they are subjected to extreme loads on a daily basis.

The hydraulic cylinders and crane pipes rely on high-precision and durable components. Our expertise in manufacturing seamless steel pipes ensures the exact dimensional accuracy and strength required for these demanding applications. Our extensive know-how ensures that our products offer maximum reliability and performance even in the toughest conditions.

Rollercoasters and other amusement rides

Pipes for rollercoasters play a central role in the construction of leisure attractions, as they must ensure maximum stability and safety. These specially manufactured tubes from voestalpine Tubulars offer maximum strength and precision to withstand the forces during the ride.

They are used for load-bearing structures and connecting elements and are specially designed to ensure long-term reliability and safe operation of the rollercoasters. Our seamless tubes are also used for the tracks, due to their high product quality and smooth surface.



Steel grades acc. to EN 10210-3

GRADE	TENSILE STRENGTHS	YIELD STRENGTHS
S690QLH	770-940 MPa	min 690 MPa
S770QLH	850-1.020 MPa	min 770 MPa
S890QLH	940-1.120 MPa	min 890 MPa
S960QLH	980-1.170 MPa	min 960 MPa

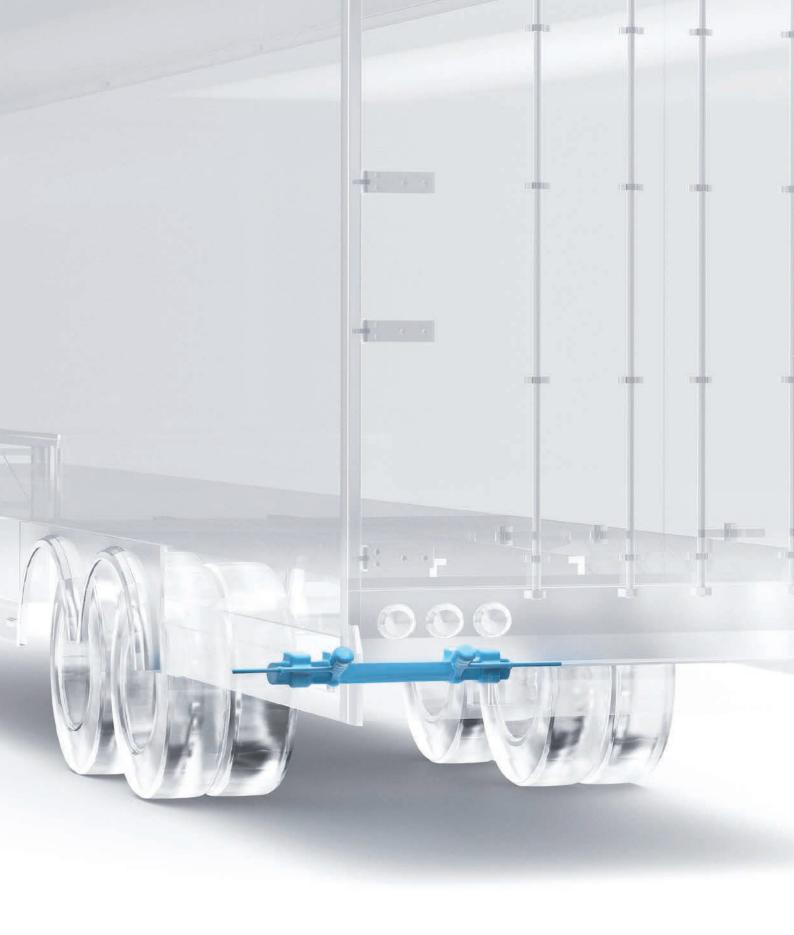
Other steel grades upon request.

Steel grades acc. to SEW 090-2

GRADE	TENSILE STRENGTHS	YIELD STRENGTHS
S690QL1	770-960 MPa	min 690 MPa
S770QL1	820-1.000 MPa	min 770 MPa
S890QL1	960-1.110 MPa	min 890 MPa

Other steel grades upon request.

STEEL GRADES INDUSTRIAL PIPES 25



MOBILITY

In the mobility sector, voestalpine Tubulars offers high-quality tubes for axles, flywheels, vibration absorbers and pulleys. These ensure durability, safety and performance in commercial, agricultural and rail vehicles.

PRODUCT CHARACTERISTICS & CUSTOMER BENEFITS

CUSTOMIZED MATERIALS

- » Use of steels with optimum strength and elasticity for load-bearing structures
- » Fine-grained steels for good machinability

DURABILITY

» Minimized wear due to robust materials

SAFETY

» Reliable performance even under heavy loads and high loading pressure

HIGH PRECISION

» Exact dimensions and surface qualities for seamless integration into drive systems

FLEXIBILITY

» Can be used in a wide range of applications

CUSTOMIZED SOLUTIONS

» Frames that are precisely tailored to individual requirements

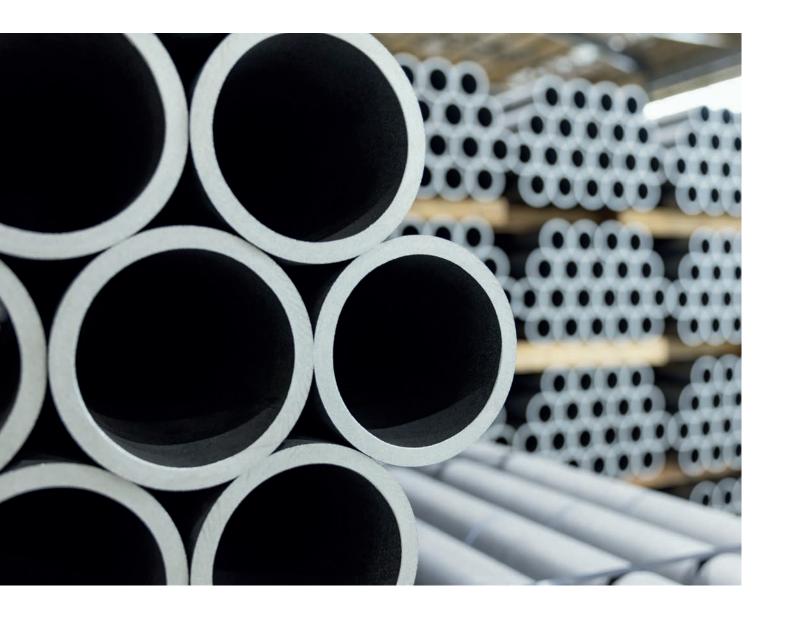
By combining these outstanding product features, our customers benefit from extended service life of their machines, reduced maintenance costs and an overall improvement in the efficiency of their applications.

M O B I L I T Y INDUSTRIAL PIPES 27

AREAS OF APPLICATION

With our wide range of products, we support the mobility industry in various areas, ensuring maximum efficiency, reliability and safety. Our Industrial Pipes are used and processed in the following applications and products:

- » Non-driven axles
- » Pulleys, vibration absorbers, fly wheels and bushings
- » Transmission and engine parts
- » Body frames for trucks and boogie frames for rolling stock
- » Cardan shafts



APPLICATION AREAS AND PRODUCT SOLUTIONS IN DETAIL

Non-driven axles for a wide range of applications

Our seamless steel pipes offer the highest quality and reliability for non-driven axles in a wide range of applications. Whether in semi-trailers, full, heavy-duty or tipper trailers, where they carry heavy loads and ensure constant performance, in self-steering axles to improve maneuverability and reduce tire wear or in agricultural vehicles that have to withstand extreme conditions - our solutions impress with their precision, load-bearing capacity and long service life.

Non-driven axles for light commercial vehicles (LCV)

Our Industrial Pipes are also used for light commercial vehicles (LCV), where they ensure a balance between lightweight construction and stability. These axles are designed for high reliability in daily use.

Pulleys, vibration absorbers, fly wheels and bushings

voestalpine Tubulars produces seamless tubes for the usage as important components such as pulleys, vibration absorbers, flywheels and bushings, which are crucial for the performance and smooth running of engines.

Transmission and engine parts

Our tubes are used in the production of transmission and engine parts and contribute to the precision and efficiency of vehicle drives. They are designed for durability and maximum load-bearing capacity.

Body frames for trucks and boogie frames for rolling stock

voestalpine Tubulars supplies heavy-duty pipes for body frames for trucks and boogie frames for rolling stock that can withstand extreme mechanical demands and at the same time guarantee a long service life. They are the basis for safe and high-performance frames.

VTS®-edgeTubes

To cover an even larger portfolio of tubular products, the range of seamless round tubes has been supplemented by seamless square and rectangular hollow sections from voestalpine Tubulars at the Kindberg (Austria) site.

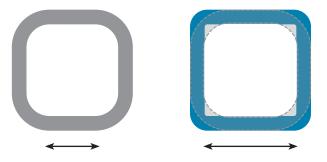
voestalpine Tubulars has many years of experience in the production of seamless round tubes and is thus able to produce hot-rolled seamless square and rectangular hollow sections up to 25 mm wall thickness.



TECHNICAL DATA AT A GLANCE									
Corner radius	$R_o \le 1.6 \times T$ across the entire product range, tighter radius up to $\le 1 \times T$ upon request (depending on dimension & wall thickness)								
Standards	DIN EN 10210-1, -2, -3, ASTM A501/A501M, CE-marking, EU Construction Products Regulation, DIN EN 10225 for offshore constructions upon request								
Dimensions	Square	40 x 40 mm to 170 x 170 mm	1½ x 1½ inch to 65% x 65% inch						
	Rectangular	50 x 30 mm to 200 x 100 mm	2 x 2 ½ inch to 8 x 4 inch						
Wall thickness	up to 25 mm (>25 r	mm upon request)	up to 1 inch (>1 inch upon request)						
Lengths	5,000 mm to 14,000 mm 16 to 46 ft								
Steel grades	S235 to S890 to DIN EN or Grade A, B, C to ASTM (tailor-made customer specifications upon request)								



DESIGN CHARACTERISTICS



- Corner radius 3 x T (standard cross-sectional area)
- Orner radius 1.6 x T (larger cross-sectional area)
- ← Connecting area



Discover more about our VTS®-edgeTubes on our website.

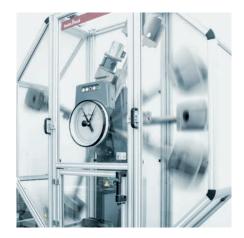
www.voestalpine.com/tubulars/en/products/VTS-edgeTubes

VTS®-EDGETUBES INDUSTRIAL PIPES 31



WHY voestalpine TUBULARS?

Support from material and product selection, in-house material and product development, to final product and installation consulting from one source.



PRODUCT DEVELOPMENT



PROCESS DEVELOPMENT



PRODUCT SELECTION

TESTING FACILITIES

Support from material and product selection, in-house material and product development, to final product and installation consulting from one source.

NEW PRODUCT DEVELOPMENTREQUEST FROM OUR CUSTOMER





MATERIAL COMPOSITION

TECHMET



TUBULARS TESTING FACILITIES



TESTING & FINE TUNING TOGETHER WITH METLAB & TECHMET

FINAL TESTING &

APPROVAL OF PRODUCT

W H Y T U B U L A R S ? INDUSTRIAL PIPES 33



SERVICES



myTubulars APP CONVERSION CALCULATOR, CONTACT FINDER AND "NEW" NOTIFICATION

myTubulars

The myTubulars App offers new possibilities to take a look into the world of voestalpine Tubulars. Explore the great features like the Virtual Reality Tour through our mill, the conversion tool for numerous important units or our practical Contact Finder. As an additional feature, you can see when a product catalog or certificate is updated (marked as "new").

myTubulars is available for all iOS and Android devices for free in the App stores.

GET THE APP!











Follow us on social Media!

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