

Delivery program

Carbon steel and stainless steel tubes in a wide range of qualities and dimensions



Our value proposition

The reliable supply of high-quality steel tubes and customized service solutions is the promise we make to our customers in more than 30 countries





Our value proposition

Benteler Distribution is one of the leading international operating stockholding and processing companies of high-quality carbon and stainless steel tubes and fittings.

You can benefit from our comprehensive knowledge of materials, state-of-the-art processing methods, and individual services. We offer competent consultancy, bundling of procurement volumes, as well as customized stocking and logistics solutions, and we can extensively support you in developing new or improving existing products and processes.

We commit ourselves to national and international quality standards, and we can serve you at more than 50 locations in over 30 countries with the same high level of quality, all having attained ISO 9001 approval.

Technical progress

The intensive dialog with our customers combined with our extensive expertise in the design and manufacture of steel tubes and components available in the Benteler Group, enable us to foresee future developments at an early stage, and to react in a timely manner to them by developing solutions for the changing requirements.



Processing

Pre-finished products up to ready-to-install components

We can take over complete production stages in order to make your production more efficient. We have the expertise, capacity and partners to provide you with the entire range of processing techniques.

Primary forming of tubes and tube accessories

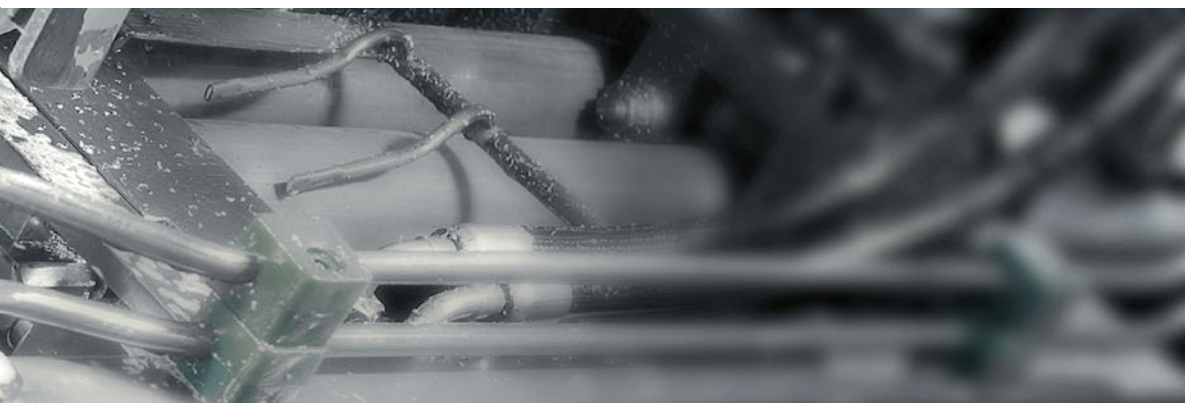
- Cast steel and high quality tube sections and formed tube sections
- Tubes using centrifugal casting
- Die casting parts
- Laser stereolithography produced and sintered parts

Forming of tubes

- Pressure forming according to DIN 8583
- Tension-compression forming according to DIN 8584
- Tensile forming according to DIN 8585
- Bend forming according to DIN 8586
- Shear forming according to DIN 8587

Cutting of tubes

- Laser, plasma and waterjet cutting
- Machining with defined cutting: sawing, hammering, adiabatic cutting, rotating, drilling, milling, preturning
- Machining with undefined cutting: grinding, honing, lapping, abrasive blasting and eroding



Joining of tubes

- Welding, soldering and bonding
- Pressuring and force fitting
- Mechanical tube connection system PrefiS-XL

Coating of tubes

- Individually configured coating combinations based on fluorocarbon polymers, metals, synthetic materials, ceramic, nanostructures and powder coating for special applications
- Conventional corrosion protection from varnishing to synthetic, CDP and powder coating
- Coating using soldering, welding and evaporating

Modification of material properties

- Reinforcement through forming
- Heat treatments according to DIN 17014 part 1
- Thermomechanical treatment
- Calcination
- Magnetization
- Irradiation
- Photochemical method

Seamless precision steel tubes

Seamless precision steel tubes

Standard	EN 10305-1
Dimensions	4 x 0.5 mm to 200 x 10 mm
Lengths	4 to 7 m other lengths and fixed lengths on request
Delivery conditions	+C (BK) +N (NBK) +SR (BKS) other delivery conditions on request
Materials	Steel grade (EN) E235 E355 other materials on request
Certification	2.2 acc. to EN 10204 other certifications on request

Seamless hydraulic and pneumatic steel tubes

Standard	EN 10305-4
Dimensions	4 x 0.5 mm to 114.3 x 20 mm
Lengths	6 m other lengths and fixed lengths on request
Delivery conditions	+N (NBK) other delivery conditions on request
Materials	Steel grade (EN) E235 E355 other materials on request
Surface treatment	oiled, bonderised and oiled, outside galvanized and yellow chromated or outside galvanized and blue passivated (CR-VI-free acc. to End of Life Vehicle Directive) other surface treatment on request
Ends	tube ends closed with plugs or caps
Marking	continuous marking along the entire tube length
Certification	3.1 acc. to EN 10204 other certifications on request



Seamless cold formed precision steel tubes for the production of piston tubes

Standard	EN 10305-1
Dimensions	35 x 3.5 mm to 300 x 25 mm
Tolerances	outside diameter acc. to customer specifications
Delivery conditions	+C (BK) cold finished, hard +SR (BKS) cold finished and stress-relief annealed +N (NBK) normal annealed
Materials	Steel grade (EN) E355 other materials on request
Certification	3.1 acc. to EN 10204 other certifications on request

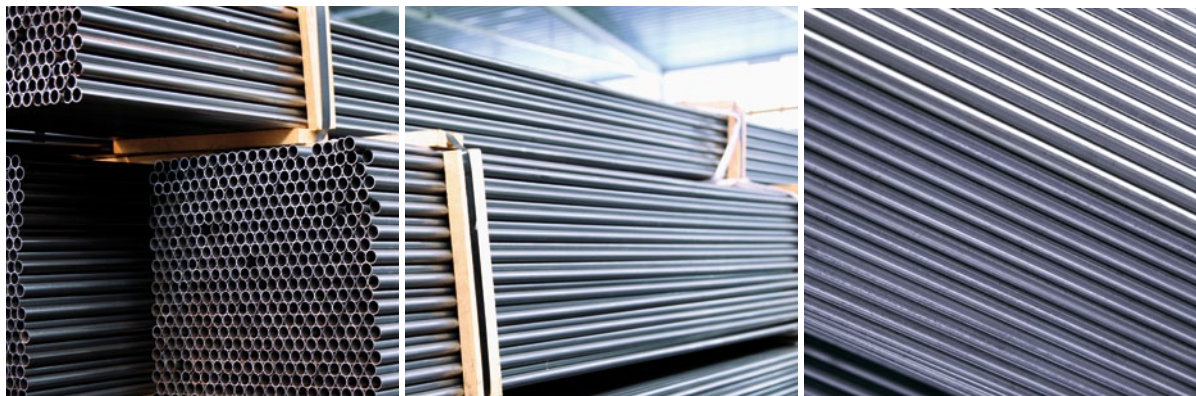
Welded precision steel tubes

Welded cold drawn precision steel tubes

Standard	EN 10305-2
Dimensions	8 x 1 mm to 200 x 10 mm
Lengths	4 to 7 m other lengths and fixed lengths on request
Delivery conditions	+C (BK) +N (NBK) +A (GBK) +LC (BKW) +SR (BKS)
Materials	Steel grade (EN) E235 E355 other materials on request
Certification	2.2 acc. to EN 10204 other certifications on request

Welded precision steel tubes

Standard	EN 10305-3
Dimensions	8 x 1 mm to 159 x 4.5 mm
Lengths	6 m other lengths and fixed lengths on request
Delivery conditions	+CR1 (BKM) +CR2 (BKM/soft) +N (NBK) other delivery conditions on request
Materials	Steel grade (EN) E195 E235 other materials on request
Surface treatment	blank, cold rolled strip, aluminized, thermally galvanized, galvanized, sendzimir galvanized strip, inside grated
Certification	2.2 acc. to EN 10204 other certifications on request



Welded precision steel tubes (square or rectangular)

Standard	EN 10305-5
Dimensions	
- square	12 x 12 x 1.5 mm to 100 x 100 x 5 mm
- rectangular	20 x 10 x 1.5 mm to 120 x 80 x 5 mm
Lengths	6 m other lengths and fixed lengths on request
Delivery conditions	+CR1 (BKM) +CR2 (BKM/soft) other delivery conditions on request
Materials	Steel grade (EN) E195 E235 E275 E355 other materials on request
Surface treatment	pickled or non-pickled hot rolled strip, cold rolled strip, aluminized, thermally galvanized, galvanized, sendzimir galvanized strip, inside grated, welded seam positioned (on request positioned on the edge)
Certification	2.2 acc. to EN 10204 other certifications on request

Welded precision steel tubes

Welded precision steel tubes – Benteler Special 07

Dimensions	4.75 x 0.5 mm to 12 x 1.8 mm
Tolerances	outside diameter $\pm 0,08$ mm wall thickness $\pm 10\%$ (except welded seam)
Lengths	6 m or on coil other lengths and fixed lengths on request
Delivery conditions	+N (NBK) +CR1, other delivery conditions on request
Materials	Steel grade (EN) E195 E235 IF25 other materials on request
Surface treatment	non-galvanized
Testing	eddy current testing acc. to EN 10246-3, ZK E3H
Certification	3.1 acc. to EN 10204 other certifications on request

Welded precision steel tubes – Benteler Zista 07

Dimensions	4.75 x 0.5 mm to 12 x 1.8 mm
Tolerances	outside diameter $\pm 0,08$ mm wall thickness $\pm 10\%$ (except welded seam)
Lengths	6 m or on coil other lengths and fixed lengths on request
Delivery conditions	+N (NBK) +CR1 other delivery conditions on request
Materials	Steel grade (EN) E195 E235 IF25 other materials on request
Surface treatment	outside galvanized (layer thicknesses min. 12 μm) and yellow chromated or outside galvanized and passivated (CR-VI-free acc. to End of Life Vehicle Directive) thin and thick coat passivation on request
Testing	eddy current testing acc. to EN 10246-3, ZK E3H
Certification	3.1 acc. to EN 10204 other certifications on request



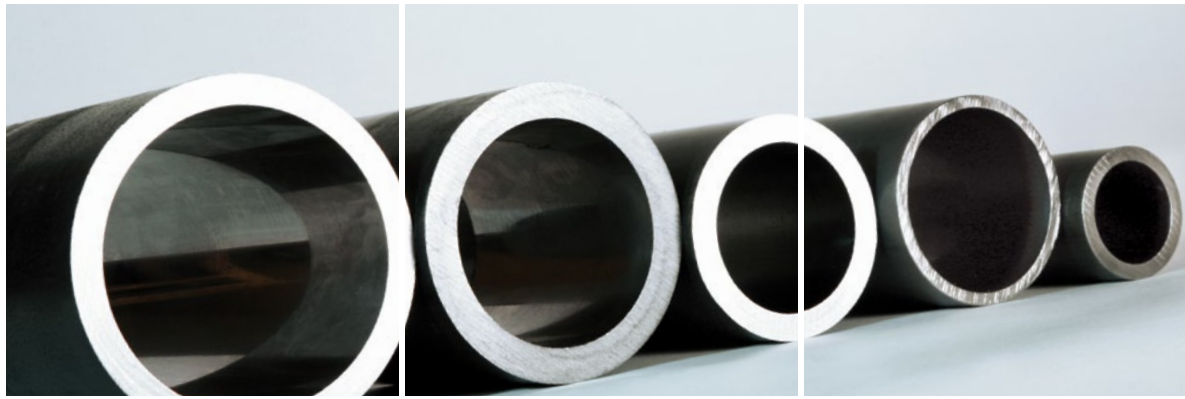
Welded precision steel tubes – Benteler Zistaplex

Standard	EN 10305-1/-2/-3/-4
Dimensions	4 x 0.5 mm to 42 x 6 mm
Lengths	6 m other lengths and fixed lengths on request
Delivery conditions	+N (NBK) other delivery conditions on request
Materials	Steel grade (EN) E235 E355 other materials on request
Surface treatment	outside galvanized (min. 8 µm), CR-VI-free passivation, additional organic coating (EPOXY ≤ 50 µm), RAL 9005, black other colors, coatings and thicknesses on request
Marking	continuous marking along the entire tube length on request
Certification	3.1 acc. to EN 10204 other certifications on request

Cylinder tubes

Ready to use cylinder tubes

Standard	EN 10305-2
Dimensions	30 x 5 mm to 140 x 7.5 mm
Tolerances	outside diameter acc. to EN 10305-1/-2 inside diameter acc. to H9, ISO 286 part 2
Lengths	manufactured and fixed lengths
Delivery conditions	+C (BK) cold finished
Materials	Steel grade (EN) E355 other materials on request
Surface roughness	Ra max. 0.8 μ , exceptions admitted up to 1 μ
Testing	non-destructive testing acc. to EN 10246-7 non-destructive eddy current testing acc. to EN 10246-3
Certification	3.1 acc. to EN 10204 other certifications on request



Honed or skived and roller burnished cylinder tubes

Standard	EN 10305-1/-2
Dimensions	30 x 5 mm to 300 x 25 mm
Tolerances	outside diameter acc. to EN 10305-1/-2 inside diameter acc. to H8, ISO 286 part 2
Lengths	manufactured and fixed lengths
Delivery conditions	+SR
Materials	Steel grade (EN) E355 other materials on request
Surface roughness (inside)	Ra max. 0.3 μ acc. to EN ISO 4287
Testing	non-destructive testing acc. to EN 10246-7 non-destructive eddy current testing acc. to EN 10246-3
Certification	3.1 acc. to EN 10204 other certifications on request

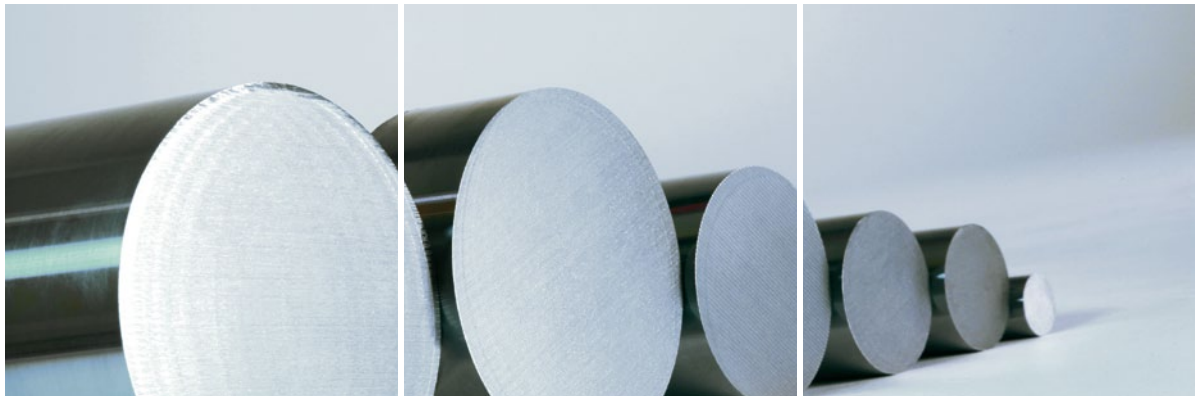
Cylinder tubes suitable for honing and roller burnishing

Standard	EN 10305-1/-2
Dimensions	30 x 5 mm to 300 x 25 mm
Tolerances	outside diameter acc. to EN 10305-2
Delivery conditions	+SR
Surface treatment	inside suitable for honing or skiving and roller burnishing
Certification	3.1 acc. to EN 10204 other certifications on request

Piston tubes and bars

Hard chromed bars for piston rod applications

Dimensions	outside diameter 8 to 18 mm or 20 to 250 mm												
Tolerances	outside diameter 8 to 18 mm acc. to f8 outside diameter 20 to 250 mm acc. to f7 other tolerances on request												
Materials	<table><thead><tr><th>Material number</th><th>Steel grade (EN)</th></tr></thead><tbody><tr><td>1.5217</td><td>20MnV6</td></tr><tr><td>1.1213*</td><td>Cf 53 (DIN)</td></tr><tr><td>1.1303*</td><td>38MnVS6</td></tr><tr><td>1.7225*</td><td>42CrMo4 +QT</td></tr><tr><td>1.1191*</td><td>C45E</td></tr></tbody></table> <p>other materials on request *also induction hardened</p>	Material number	Steel grade (EN)	1.5217	20MnV6	1.1213*	Cf 53 (DIN)	1.1303*	38MnVS6	1.7225*	42CrMo4 +QT	1.1191*	C45E
Material number	Steel grade (EN)												
1.5217	20MnV6												
1.1213*	Cf 53 (DIN)												
1.1303*	38MnVS6												
1.7225*	42CrMo4 +QT												
1.1191*	C45E												
Surface													
- treatment	chromed double chromed tubes on request												
- roughness	Ra max. 0.2 µm												
Chrome													
- thickness	min. 16 µm for tubes with an outside diameter of 8 to 18 mm min. 20 µm for tubes with an outside diameter of 20 to 250 mm												
- micro hardness	min. 850 HV 0.1												
Corrosion resistance	min. 200 h in NSS rating 9 with an outside diameter of 20 to 100 mm												
Testing	corrosion testing acc. to ISO 9227												
Certification	3.1 acc. to EN 10204 other certifications on request												



Hard chromed piston tubes

Standard	EN 10305-1
Dimensions	16 x 3 mm to 140 x 10 mm
Tolerances	outside diameter acc. to f7
Delivery conditions	+C (BK) cold finished, hard +SR cold finished and stress-relief annealed +N normal annealed
Materials	Steel grade (EN) E355 other materials on request
Surface	
- treatment	chromed
- roughness	Ra max. 0.2 µm
Chrome	
- thickness	min. 20 µm
- micro hardness	min. 850 HV 0.1
Corrosion resistance	min. 120 h in NSS rating 9
Testing	corrosion testing acc. to ISO 9227
Certification	3.1 acc. to EN 10204 other certifications on request

Heavy, standard wall and mechanical tubes

Seamless hot rolled tubes for the steel construction industry

Standard	EN 10210	
Dimensions	10.2 x 1.6 mm to 711 x 100 mm other dimensions on request	
Lengths	4 to 15 m other lengths and fixed lengths on request	
Materials	Material number	Steel grade (EN)
	1.0576	S355 J2H
	1.0539	S355 NH
	other materials on request	
Marking	producer, EN standard, material, heat code or identification number	
Testing	testing on request	
Certification	3.1 acc. to EN 10204 other certifications on request	

Seamless hot rolled tubes for pressure purposes

Standard (part 1)	EN 10216-1	
Dimensions	10.2 x 1.6 mm to 711 x 14.2 mm other dimensions on request	
Lengths	4 to 15 m other lengths and fixed lengths on request	
Materials	Material number	Steel grade (EN)
	1.0254	P235 TR 1
	1.0258	P265 TR 1
	other materials on request	
Standard (part 3)	EN 10216-3	
Dimensions	10.2 x 1.6 mm to 711 x 100 mm other dimensions on request	
Lengths	4 to 15 m	
Materials	Material number	Steel grade (EN)
	1.0562	P355 N TC1 (usually in combination with E355 N and S355 J2H)
	other materials on request	
Marking	producer, EN standard, material, delivery condition, heat code or identification number, certification mark	
Certification	3.1 acc. to EN 10204, other certifications on request	



Seamless hot rolled tubes for the mechanical engineering industry

Standard	EN 10297-1	
Dimensions	10.2 x 1.6 mm to 711 x 100 mm other dimensions on request	
Lengths	4 to 15 m other lengths and fixed lengths on request	
Delivery conditions	+AR +N other delivery conditions on request	
Materials	Material number	Steel grade (EN)
	1.0308	E235
	1.0580	E355
	1.0536	E470
	other materials on request	
Marking	producer, EN standard, material, heat code or identification number, delivery conditions	
Testing	water pressure testing or leak testing acc. to EN ISO 10893-1 other testing on request	
Certification	3.1 acc. to EN 10204 other certifications on request	

Seamless steel tubes for machining

Standard	EN 10294-1	
Dimensions	30 x 20 mm to 250 x 120 mm other dimensions on request	
Lengths	4 to 8 m other lengths and fixed lengths on request	
Materials	Material number	Steel grade (EN)
	1.0580	E355
	1.0592	E355 J2
	1.0599	E420 J2
	1.0536	E470
	1.0644	E590 K2
	other materials on request	
Marking	producer, EN standard, material, heat code or identification number, delivery conditions	
Testing	testing on request	
Certification	3.1 acc. to EN 10204 other certifications on request	

Hollow sections

Cold formed and welded hollow sections of non-alloy and fine grain construction steels

Standard	EN 10219-1/-2	
Dimensions		
- round	26.9 x 2.6 mm to 1,219 x 25 mm	
- square	25 x 25 x 3 mm to 400 x 400 x 20 mm	
- rectangular	40 x 30 x 3 mm to 600 x 400 x 20 mm	
Tolerances		
- outside diameter	round	±1 % (min. ±0.5 mm, max. ±10 mm)
	square, rectangular	±1 % (min. ±0.5 mm), if height and width < 100 mm ±0,8 %, if height and width ≥ 100 and ≤ 200 mm ±0,6 %, if height and width > 200 mm
- straightness	round	0.2 % of the tube length
	square, rectangular	0.15 % of the tube length
Lengths	6 to 15 m, special lengths up to 18 m, single lengths up to 24 m other lengths and fixed lengths on request	
Delivery conditions	electric resistance welding or submerged arc welding or heat treatment, welded seam on request annealed or unannealed	
Materials	Material number	Steel grade (EN)
- unannealed steel	1.0039	S235 JRH
	1.0149	S275 JOH
	1.0138	S275 J2H
	1.0547	S355 JOH
	1.0576	S355 J2H
- fine grain steel	materials on request	
Marking	producer, EN standard, material, heat code or identification number	
Certification		
- grade JR and JO	2.2 acc. to EN 10204 other certifications on request	
- grade J2 and fine grain steel	3.1 acc. to EN 10204 other certifications on request	



Hot formed hollow sections of non-alloy and fine grain construction steels

Standard	EN 10210-1/-2	
Dimensions		
- round	21.3 x 2.3 mm to 1,219 x 100 mm	
- square	40 x 40 x 2.6 mm to 400 x 400 x 20 mm	
- rectangular	50 x 30 x 2.6 mm to 500 x 300 x 20 mm	
Delivery conditions	hot or cold formed with a following suitable heat treatment	
Materials	Material number	Steel grade (EN)
- non-alloy steel	1.0039	S235 JRH
	1.0149	S275 J0H
	1.0138	S275 J2H
	1.0547	S355 J0H
	1.0576	S355 J2H
- fine grain steel	materials on request	
Marking	producer, EN standard, material, heat code or identification number	
Testing	testing on request	
Certification		
- grade JR and J0	2.2 acc. to EN 10204 other certifications on request	
- grade J2 and fine grain steel	3.1 acc. to EN 10204 other certifications on request	

Stainless steel and ferritic tubes

Seamless stainless steel tubes

Standard	EN 10216-5, AD2000-W2 ASTM A 312	
Dimensions	4 x 0.5 mm to 219.1 x 12.7 mm other dimensions on request	
Tolerances	acc. to EN ISO 1127 or EN 10305-1 or ASTM A 269/312/999	
Lengths	4 to 7 m other lengths and fixed lengths on request	
Delivery conditions	cold finished or extruded, blank annealed or pickled	
Materials	Material number	Steel grade (ASTM/ASME)
	1.4301/06	TP 304/304L
	1.4401/04	TP 316/316L
	1.4541	TP 321
	1.4571	TP 316Ti
	other materials on request	
Certification	3.1 or 3.2 (in case of AD2000-W22) acc. to EN 10204	



Welded stainless process tubes (diary tubes)

Standard	EN 10217-7	
Dimensions	4 x 1 mm to 609.6 x 4 mm other dimensions on request	
Tolerances	acc. to EN ISO 1127	
Lengths	6 m other lengths and fixed lengths on request	
Delivery conditions	heat-treated or non-heat-treated, blank, pickled or polished	
Materials	Material number	Steel grade (ASTM/ASME)
	1.4301/07	TP 304/304L
	1.4401/04	TP 316/316L
	1.4541	TP 321
	1.4571	TP 316Ti
	other materials on request	
Certification	3.1 acc. to EN 10204 other certifications on request	

Square and rectangular tubes

Dimensions	
- square	10 x 10 x 1 mm
- rectangular	250 x 150 x 5 mm other dimensions on request
Lengths	6 m other lengths and fixed lengths on request
Delivery conditions	metal blank or polished grain 240
Materials	Material number
	1.4301
	1.4571
	other materials on request
Certification	2.2 or 3.1 (for raw material) other certifications on request

Boiler and heat exchanger tubes

Seamless boiler tubes

Standard	EN 10216-2 other standards on request		
Dimensions	13.5 x 1.8 mm to 610 x 30 mm other dimensions on request		
Tolerances	outside diameter and wall thickness acc. to EN 10216-2		
Lengths	5 to 7 m, partly 10 to 14 m other lengths and fixed lengths on request		
Materials	Steel grade (EN)	Steel grade (JIS)	Steel grade (ASTM/ASME)
	P235 GH TC 1	ST B 340	A/SA 192
	P235 GH TC 2	ST B 410	A/SA 210
	16Mo3	ST B 510	A/SA 213
	13CrMo4-5	ST BA 12	T5, T11, T12, T22, T91
	10CrMo9-10	ST BA 22 ST BA 24	
	other materials on request		
Surface protection	surface protection on request		
Marking	producer, EN standard, material, heat code or identification number, if applicable test category and tube number (depending on material)		
Leak testing	water pressure or electromagnetic testing acc. to EN 10246-1 (SEP 1925) other testing on request		
Certification	3.1 acc. to EN 10204 3.2 acc. to EN 10204 for alloyed boiler tubes		



Seamless heat exchanger tubes

Standard

- metric dimensions EN 10216-2
- inch dimensions ASTM A 179M-1990a, ASME SA 179M, ASME Section II part A

Dimensions

- metric dimensions 10 x 1 mm to 30 x 2.5 mm
- inch dimensions 19.05 x 1.65 mm to 25.4 x 3.4 mm
- other dimensions on request

Lengths

lengths and fixed lengths on request

Materials

- | | | |
|---------------------|----------------------------|-------------------------|
| | Steel grade (EN) | Steel grade (ASTM/ASME) |
| - metric dimensions | P235 GH TC 1 | SA 556 C 2 |
| - inch dimensions | P235 GH TC 1 | A 179/SA 179 |
| | other materials on request | |

Marking

producer, material, heat code or identification number, certification mark

Leak testing

- metric dimensions electromagnetic testing acc. to EN 10246-1 (SEP 1925)
- inch dimensions electromagnetic testing acc. to ASME SA 450, test hole 0.8 mm

Certification

3.1 acc. to EN 10204
other certifications on request

U-bent tubes

Standard

- metric dimensions EN 10216-2
- inch dimensions ASME SA 556 C 2
- ASTM A 179M 1990a, ASME SA 179M, ASME Section II part A

Dimensions

- metric dimensions 10 x 1 mm to 30 x 2.5 mm
- inch dimensions 19.05 x 1.65 mm to 25.4 x 3.4 mm

Tolerances

- metric dimensions acc. to EN 10305-1
- inch dimensions outside diameter acc. to EN 10305-1
- wall thickness 0/+20 % (SA 556M)

Materials

- | | | |
|---------------------|----------------------------|-------------------------|
| | Steel grade (EN) | Steel grade (ASTM/ASME) |
| - metric dimensions | P235 GH TC 1 | SA 556 C 2 |
| - inch dimensions | P235 GH TC 1 | A 179/SA 179 |
| | other materials on request | |

Certification

3.1 acc. to EN 10204
other certifications on request

Accessoires

Stainless steel flanges DIN/EN

Standard	DIN 2631, 2632, 2633, 2634, 2635 DIN 2527 DIN 2566 DIN 2573, 2576 DIN 2642 EN 1092
Materials	Material number 1.4541 1.4571

Flanges ANSI

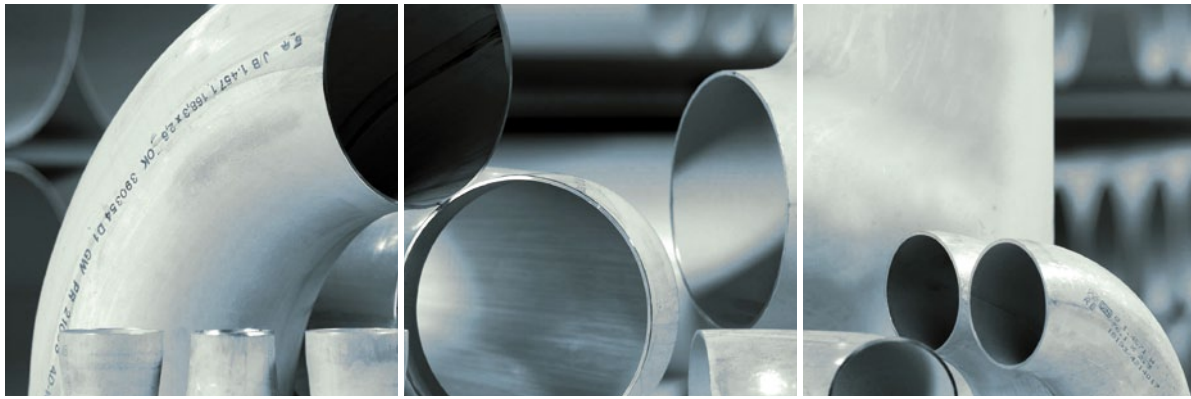
Standard	ANSI B 16.5
Materials	Steel grade (ASTM/ASME) TP 304L TP 316L
Surface treatment	welding neck, blind

Pipe bends DIN

Standard	DIN 2605 part 1 type 3 90°
Materials	Material number 1.4307 1.4541 1.4571
Surface treatment	welded, seamless

Pipe bends ANSI

Standard	ANSI B16.9 ASTM A403 L.R. 90°
Materials	Steel grade (ASTM/ASME) TP 304L TP 316L
Surface treatment	seamless



Tee connector DIN

Standard	DIN 2615 part 1
Materials	Material number 1.4541 1.4571
Surface treatment	seamless

Tee connector ANSI

Standard	ANSI B16.9 ASTM A403
Materials	Steel grade (ASTM/ASME) TP 304L TP 316L
Surface treatment	seamless

Reducers DIN

Standard	DIN 2616 part 2 concentric DIN 2616 part 1 eccentric
Materials	Material number 1.4541 1.4571
Surface treatment	welded, seamless

Reducers ANSI

Standard	ANSI B16.9 ASTM A403
Materials	Steel grade (ASTM/ASME) TP 304L TP 316L
Surface treatment	seamless

Press fitting system PreFiS-XL

Fitting specifications

Materials

- carbon steels	body: 1.0570 press ring sets: 42CrMo4 (1.7225, 1.7227)
- stainless steels	body: 1.4404, 1.4571 press ring sets: 42CrMo4 (1.7225, 1.7227)

Pipe diameter

(acc. to DIN/EN and ASTM)

- carbon steels	10.0 – 88.9 mm
- stainless steels	10.0 – 76.1 mm

Temperatures

-55°C – 400°C (depending on approval)

Pressures

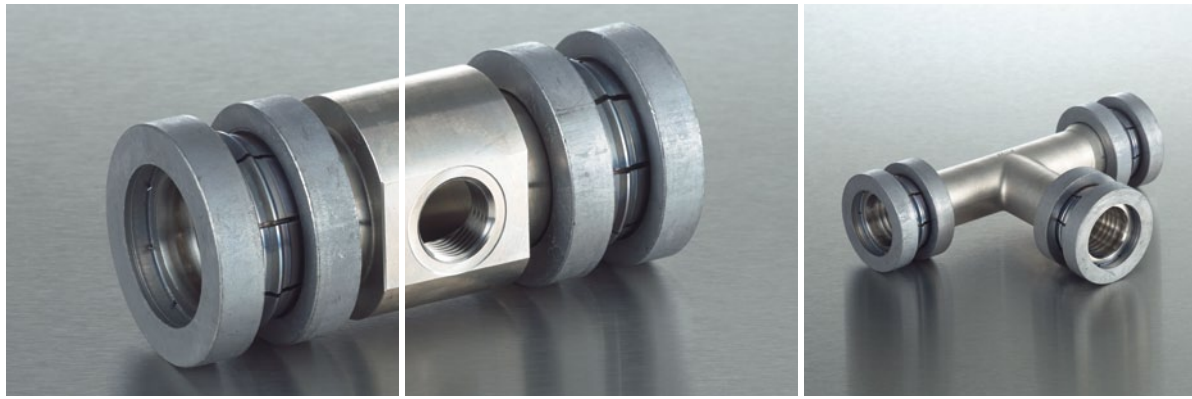
- carbon steels	up to 630 bar operating pressure
- stainless steels	up to 260 bar operating pressure

Coating

- carbon steels	body and press ring sets: zinc-nickel 6-16 µm
- stainless steels	press ring sets: zinc-nickel 6-16 µm

Certificates

Det Norske Veritas (DNV)	Type Approval Certification No. P-14208
Bureau Veritas (BV)	Type Approval Certification No. 33955/A0 BV
Lloyd's Register (LR)	Type Approval Certification No. 01/20024 (E4) PED Certification No. 50223/1
Germanischer Lloyd (GL)	Type Approval Certification No. 43 340 – 02 HH
Deutscher TÜV	Certification No. 922/915-011087
American Bureau of Shipping & Affiliated Companies (ABS)	Type Approval Certification No. 13-HG994027-PDA
Wehrtechnische Dienststelle für Schiffe und Marinewaffen (WTD71)	Test report WTA 91317



Pipe specifications

Pipe outside diameter		Wall thickness							
mm	inch (ASME/ASA pipe schedule)	Pipe mm (min.)	Pipe mm (max.) ¹	Pipe mm (max.) ²	Pipe mm (max.) ³				
10.0	-	0.8	1.5	2.0	2.0				
10.3	1/8"								
12.0	-								
13.7	1/4"								
15.0	-								
16.0	-								
17.1	3/8"								
17.2	-								
18.0	-	1.0	2.6	4.0	3.2				
20.0	-								
21.3	1/2"								
22.0	-								
25.0	-								
26.7	3/4"								
26.9	-								
28.0	-								
30.0	-	1.6	3.6	4.5	3.6				
33.4	1"								
33.7	-								
35.0	-								
38.0	-								
42.0	-								
42.2	1 1/4"								
42.4	-								
48.3	1 1/2"	1.6	3.6	5.0	4.0				
54.0	-								
60.3	2"								
73.0	2 1/2"								
76.1	-								
88.9	3"								
						1.8	4.0	5.0	4.0
		2.0	4.0	5.6	4.5				
						2.0	4.0	5.6	4.5

¹ acc. to type approval shipbuilding for stainless steel pipes

² acc. to type approval shipbuilding for steel pipes with $R_{p0.2} < 350 \text{ N/mm}^2$

³ acc. to type approval shipbuilding for steel pipes with $R_{p0.2} > 350 \text{ N/mm}^2$

Errors and technical modifications reserved.



Additional services

Our contribution to strengthen your competitiveness



Technical consulting and development support

Our proximity to the procurement and sales markets enables us to react to changing demands and utilize the potential of latest technological developments. We give you advice in all questions regarding material selection and the optimum adjustment of product properties. The right material will help you increase your product reliability and quality and improve your profitability by means of material and weight savings. We can also support you in the development of individual steel tube products for specific requirements.

Partner for logistic challenges

We use modern and automated storage technologies and packaging systems and we consistently work on minimizing the processing times from order receipt until shipment of the goods. We make sure that your production process continues to run smoothly with production-synchronous delivery concepts such as Just-in-Time (JIT), Just-in-Sequence (JIS), Kanban or express deliveries and on request, we operate integrated consignments at our your production facilities. These concepts help to reduce your material in stock and free up valuable capital.

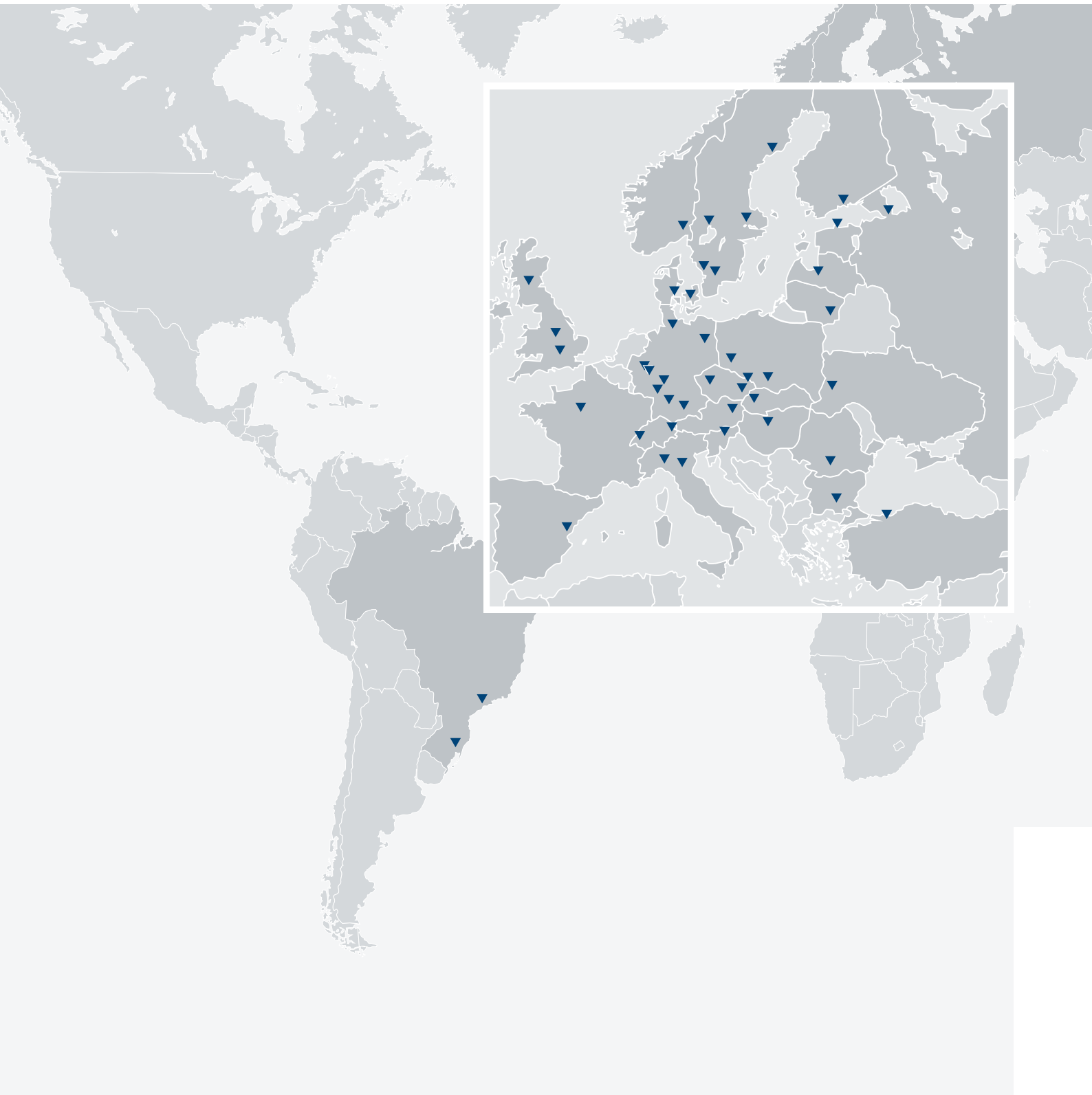


Worldwide logistics capacities

We offer our support for complex global procurement and supply requirements. We provide you with access to leading steel tube suppliers and to a worldwide expert and distribution network. We take care of the optimum selection of the steel tube production facility and negotiate all parameters defining the basic framework and order. We only work with certified partners and we personally assure ourselves of potential suppliers' performance at the production facilities. You receive your merchandise on schedule and furnished with all necessary customs and shipping documents.

Global account management

Companies with production facilities in more than one country benefit from our integrated global account management approach. By working with a main supplier, you not only lower your administrative and financial costs but also increase your local quality level. We provide your central purchasing department with a contact person for the negotiation of all international contractual parameters and we provide you with a competent and efficient business associate on location for all operational matters.





Europe

Bulgaria Stara Zagora

Denmark Middelfart, Albertslund

Germany Duisburg, Dusseldorf, Falkensee, Frankfurt, Hamburg, Mannheim, Munich, Vaihingen

Estonia Saue

Finland Helsinki

France La Madeleine-de-Nonancourt

Italy Lippo di Calderara, Trezzano sul Naviglio

Latvia Riga

Lithuania Vilnius

Norway Lillestrøm

Austria Biedermannsdorf

Poland Dabrowa Górnicza

Rumania Slatina

Russia St. Petersburg

Sweden Halmstad, Karlstad, Knäred, Örnköldsvik, Västerås

Switzerland Bussigny, Wil

Slovenia Šentjanž pri Dravogradu

Slovakia Pusté Úľany

Spain Barcelona

Czech Republic Dobříš

Turkey Çayirova/Kocaeli

United Kingdom Basingstoke, West Bromwich, Bolton, Falkirk

Hungary Budapest

Ukraine Lviv

South America

Brazil São Paulo, Caxias do Sul

Asia

China Beijing, Chengdu, Guangzhou, Shanghai

India Pune

Indonesia Jakarta, Surabaya

Malaysia Petaling Jaya

Singapore Singapore

Thailand Bangkok

Australia

Australia Rouse Hill

Benteler Distribution International GmbH

Heltorfer Straße 1

40472 Düsseldorf

Germany

Phone: +49 211 31 114-0

Fax: +49 211 31 114-109

distribution.international@benteler.com

www.benteler-distribution.de/en

