



# **Carbon & Alloy Steel Tubing**

AST	<b>FM A and ASME SA</b>		OD Range		Wall Range AW=Average Wall / MW=Minimum Wall			ax ngth
Speci	ifications	Grades	inches	mm	inches	mm	ft	m
BOII	LER AND PRESSURE TUBING	à						
-106	Seamless Carbon Steel Tubing for High Pressure Service	АВС	<b>CD:</b> 1.250 то 6.000 <b>HF:</b> 1.900 то 5.000	<b>CD:</b> 31.75 то 152.40 <b>HF:</b> 48.26 то 127.00	<b>CD:</b> .105 то 1.000 мw <b>HF:</b> .180 то .570 мw	<b>CD:</b> 3.78 то 25.40 мW <b>HF:</b> 4.57 то 14.48 мW	75 65	26 20
-179	Seamless Low Carbon Steel Heat Exchanger & Condenser Tubing	АВС	<b>CD:</b> 1.250 то 6.000 <b>HF:</b> 1.900 то 5.000	<b>CD:</b> 31.75 то 152.40 <b>HF:</b> 48.26 то 127.00	<b>CD:</b> .105 то 1.000 мW <b>HF:</b> .180 то .570 мW	CD: 3.78 to 25.40 MW HF: 4.57 to 14.48 MW	75 65	26 20
-192	Seamless Carbon Steel Tubing for High Pressure Service		<b>CD:</b> 1.250 то 6.000 <b>HF:</b> 1.900 то 5.000	<b>CD:</b> 31.75 то 152.40 <b>HF:</b> 48.26 то 127.00	<b>CD:</b> .105 то 1.000 мW <b>HF:</b> .180 то .570 мW	CD: 3.78 to 25.40 MW HF: 4.57 to 14.48 MW	75 65	26 20
-209 -210 -213	Seamless Alloy Steel Boiler & Superheater Tubing	T-1, T-1B, T-1A, A-1 C, T-2, T-12, T-5 T-22, T-11	<b>CD:</b> 1.250 то 6.000 <b>HF:</b> 1.900 то 5.000	<b>CD:</b> 31.75 то 152.40 <b>HF:</b> 48.26 то 127.00	<b>CD:</b> .105 то 1.000 мW <b>HF:</b> .180 то .570 мW	<b>CD:</b> 3.78 то 25.40 мW <b>HF:</b> 4.57 то 14.48 мW	75 65	26 20
MEC	CHANICAL TUBING	(Special Shape OD/	ID Combinations Availa	ble in Cold Drawn Sea	mless)			
-513	Electric Resistance Welded Carbon Steel Tubing (DOM Type 5 & 6) Other grades available upon request.	CARBON: 1010 TO 1020	.250 то 1.750	6.35 то 44.45	.020 to .120 AW	.710 to 3.05 AW	26	8
-519	Seamless Carbon & Alloy Steel Tubing Other grades available upon request.	CARBON: 1008 TO 1045 ALLOY: 1518, 4130, 4140	<b>CD:</b> .125 то 6.000 <b>HF:</b> 1.875 то 5.000	<b>CD:</b> 3.75 то 152.40 <b>HF:</b> 47.63 то 27.00	CD: .028 то 1.000 AW HF: .200 то 1.009 AW	CD: .711 TO 25.40 AW HF: 5.08 TO 24.13 AW	75 65	26 20
MIL/AMS-T-6736B Seamless Aircraft Quality 4130 Tubing 6736B (Condition A or N) & AMS 6360, 6371, 6381		4130	CD: 1.750 to 6.000	<b>СD:</b> 44.45 то 152.40	<b>CD:</b> .095 to 1.000 AW	<b>CD:</b> 2.413 to 25.40 AW	75	26
ProMoly <sup>®</sup> Seamless Tubing Made to AMS -T-6736B, MIL-T-6736B and AMS 6360		4130	CD: .125 to 2.000	CD: 3.175 to 50.80	CD: .028 TO .188	<b>CD:</b> .711 то 4.77	50	15
HYDRAULIC FLUID LINE TUBING								
SAE-J525 Electric Resistance Welded Low Carbon Hydraulic Tubing HYDRABRITE® Bright annealed suitable for bending, flaring and other special applications		1010	CD: .250 to 1.750	CD: 6.35 to 44.45	<b>CD:</b> .020 to .120 AW	<b>CD:</b> .071 to 3.05 AW	26	6
SAE-J Electr Hydra Bright a Availab	I2467 ric Resistance Welded Low Carbon ulic Tubing annealed suitable for high pressure applications. le upon request pending raw material availability.	1021	<b>CD:</b> .250 to 1.750	<b>СD:</b> 6.35 то 44.45	<b>CD:</b> .020 to .120 AW	<b>CD:</b> .071 to 3.05 AW	26	8
SAE-J2614 HS-50 High Pressure Hydraulic <sup>™</sup> Tubing Electric Resistance Welded, HSLA, Sub-Critical Annealed for Bending and Flaring			.375 то 1.250	9.53 то 31.75	.035 то .120	.89 to 3.05	26	8
SAE-J2833 HS-90 High Pressure Hydraulic <sup>™</sup> Tubing Electric Resistance Welded, HSLA, Stress Relieve Annealed for Bending and Flaring			.375 то 1.250	9.53 то 31.75	.035 то .120	<b>.</b> 89 to 3.05	26	8
SPECIAL SHAPE TUBING								
Shapes include: rounds, squares, rectangles, triangles, hexagons, teardrops, streamline, symmetrical, non-symmetrical, and custom OD/ID shape combinations. Inquire about exceptions.		UP TO 40% CARBON STEEL, CHROME-MOLY & HEAT TREATABLE ALLOYS	.250 то 6.000	6.35 то 152.40	.035 то 1.000	.088 то 25.40	75	22

CD: Cold Drawn HF: Hot Finished

Value added capabilities: cutting and end finishing available upon request.





## Austenitic, Ferritic & Duplex Stainless Steel Tubing

ASTN	A A/B and ASME SA/SB		OD Range		<b>Wall Range</b> AW=Average Wall / MW=Minimum Wall			Max Length	
Specifi	cations	Grades	inches	mm	inches	mm	ft	m	
PRES	SURE TUBING								
-213	Seamless Austenitic Alloy Steel Boiler, Superheater and Heat Exchanger Tubing U-Bending Available	304/L, 316/L, 317/L 321, 347, others	. <b>375</b> то 1.500	9.5 то 38.10	.028 aw to .134 aw	.71 aw to 3.40 aw	130	39	
-249	Welded Austenitic Steel Boiler Superheater and Heat Exchanger Tubing U-Bending Available	304/L, 316/L, 317/L 321, 347, others Also available in H and N grades.	.375 то 4.000	9.53 то 101.60	.028 AW TO .218 AW	.71 AW TO 5.54 AW	130	39	
-268	Seamless and Welded Ferritic and Martensitic Stainless Steel Tubing for General Service U-Bending Available	S44660, 430ti, 439 S44735, S44627, sea-cure* AL29-4C*, e-brite*	.5000 to 2.000	12.70 то 50.80	.020 AW TO .083 AW	.51 AW TO 2.1 AW	130	39	
-269	Seamless and Welded Austenitic Stainless Steel General Service Tubing U-Bending Available	304/L/N, 316/L, 317/L 321, 347	<b>S:</b> .125 то 1.500 <b>W:</b> .188 то 4.000	<b>S:</b> 3.18 то 38.10 <b>W:</b> 4.78 то 101.60	S: .016 AW TO .120 AW W: .020 AW TO .218 AW	<b>S:</b> .41 AW TO 3.05 AW <b>W:</b> .51 AW TO 5.54 AW	130	39	
-270	Seamless and Welded Austenitic Stainless Steel Tubing	304/L, 316/L, AL6XN®	<b>S:</b> .125 то 1.250 <b>W:</b> .500 то 4.000	<b>S:</b> 3.18 то 31.75 <b>W:</b> 12.70 то 101.6	S: .016 AW TO .120 AW W: .065 AW TO .131 AW	<b>S:</b> .41 AW TO 3.05 AW <b>W:</b> 1.66 AW TO 3.33 AW	130	39	
-632	Seamless Austenitic Stainless Steel Tubing for General Service (Small Diameter)	304/L/N, 316/L/N 321, 347	.125 то 0.500	3.18 то 12.70	.015 aw to .065 aw	.38 aw to 1.65 aw	130	39	
-789	Seamless and Welded Ferritic/Austenitic Stainless Steel Tubing for General Service	2003, 2205, 2507	<b>S:</b> .375 то 1.500 <b>W:</b> .375 то 2.000	<b>S:</b> 9.53 то 38.10 <b>W:</b> 9.53 то 101.6	S: .028 AW TO .134 AW W: .028 AW TO .134 AW	<b>S:</b> .71 AW TO 3.40 AW <b>W:</b> .71 AW TO 3.40 AW	130	39	
various	Seamless Nickel and Alloy Condenser and Heat Exchanger Tubing	400, 600, 625 800, 825, C276	.375 то 1.500	9.50 то 38.10	.016 AW TO .120 AW	.41 AW TO 3.05 AW	130	39	
-676	UNS N08367 Welded Tubing	AL6XN	.250 то 4.000	6.35 то 101.6	.020 AW TO .120 AW	.51 AW TO 3.05 AW	130	39	
FEED	WATER HEATER TUBING								
-688	XtraLowStress <sup>®</sup> Welded Stainless Steel Feedwater Heater Tubing U-Bending Available	304/L/N, 316/L/N 800, AL6XN <sup>®</sup>	.625 то 1.000	15.88 то 25.40	.026 aw to .134 aw	.66 aw to 3.40 aw	130	39	
-803	Welded Ferritic Stainless Steel Feedwater Heater Tubing U-Bending Available	439, sea-cure*, S44660	.625 то 1.000	15.88 то 25.40	.028 AW TO .134 AW	.71 aw to 3.40 aw	130	39	
соми	MERCIAL INSTRUMENTATION TUE	ING							
-213	Seamless Austenitic Alloy Steel Boiler, Superheater and Heat Exchanger Tubing	304/L, 316/L	.125 то 1.500	3.18 то 38.10	.016 AW TO .120 AW	.41 AW TO 3.05 AW	140	42	
-269	Seamless Austenitic Stainless Steel General Service Tubing	304/L, 316/L	.125 то 1.000	3.18 то 25.40	.016 aw to .109 aw	.41 AW TO 2.77 AW	140	42	
NUCL	NUCLEAR INSTRUMENTATION TUBING								
-213	ASME section III - Class 1, 2 & 3 See ASTM SB 163 and 167 for alloy 600	304/L, 316/L	.125 то 1.500	3.18 то 38.10	.016 AW TO .120 AW	.41 AW TO 3.05 AW	140	42	
MECH	IANICAL TUBING								
-511	Seamless Stainless Steel	304/L, 316/L	.125 то 1.500	3.18 то 38.10	.016 AW TO .120 AW	.41 AW TO 3.05 AW	130	39	
-554	Welded Stainless Steel Mechanical Tubing	304/L, 316L	.500 то 4.000	12.70 то 101.6	.020 AW TO .218 AW	.51 AW TO 5.54 AW	130	39	

S: Seamless W: Welded

AL29-4C®, AL6XN®, E-BRITE® and SEA-CURE® are alloys produced by ATI Tech.

Other sizes, grades and specifications available upon request. OD/Wall combinations and max length may vary based on producing mill.



		C Ra	)D nge	Wall F AW=Average Wall /	<b>Range</b> MW=Minimum Wall	Max Wall Length	
	Grades	inches	mm	inches	mm	ft	m
AIRCRAFT SPECIFICATIONS							
SEAMLESS Stainless Steel Aerospace Tul	bing						
AMS 5564, AMS 5565, AMS 5567, AMS 5569, AMS 5695 (Canceled & non-current specs include AMS-T-6845, Mil-T-6845, AMS-T-8504, Mil-T-8504, AMS-T-8506, Mil-T-8506)	304/L	.125 то 1.00	.40 то 3.04	.016 то .120	.40 то 3.04	40	12
AMS 5557, AMS 5570, AMS 5896, AMS 5897 (Canceled & non-current specs include MIL-T-8606, MIL-T-8808, MIL-T-8973)	321	.125 то 1.00	.40 то 3.04	.016 to .120	.40 то 3.04	40	12
AMS 5557, AMS 5897 (Canceled & non-current specs include MIL-T-8808, MIL-T-8973)	347	.125 то 1.00	.40 то 3.04	.016 то .120	.40 то 3.04	40	12
AMS 5581	625	.125 то 1.00	.40 то 3.04	.016 то .120	.40 то 3.04	40	12
WELDED & DRAWN Stainless Steel Aerospace Tubing							
AMS 5564, AMS 5565, AMS 5566, AMS 5567, AMS 5569 (Canceled & non-current specs include AMS-T-6845, Mil-T-6845, AMS-T-8504, Mil-T-8504, AMS-T-8506, Mil-T-8506)	304/L	.188 то 3.80	4.78 то 96.52	.016 то .218	.40 to 5.53	36	10
AMS 5557, AMS 5576 (Canceled & non-current specs include AMS-T-8606, MIL-T-6737, MIL-T-8606, MIL-T-8808)	321	.188 то 3.80	4.78 то 96.52	.016 то .218	.40 то 5.53	36	10
AMS 5556, AMS 5575 (Canceled & non-current specs include MIL-T-6737, MIL-T-8606, MIL-T-8808)	347	.188 то 3.80	4.78 то 96.52	.016 то .218	.40 то 5.53	36	10
AMS 5581	625	.188 то 3.50	4.78 то 96.52	.016 то .141	.40 то 3.58	36	10
PWA 1065	718	.188 то 2.75	4.78 то 69.85	.016 то .1.36	.40 то 3.45	36	10
TP-718	718	.188 то 2.75	4.78 то 69.85	.016 то .1.36	.40 то 3.45	36	10
AMS 5561, BMS 7-185	21-6-9	.188 то 3.00	4.78 то 76.20	.016 то .110	.40 то 2.79	36	10
AMS 5568	17-7PH®	.188 то 3.75	4.78 то 95.25	.016 то .136	.40 то 3.45	36	10
AMS 5578	Custom 455®	.188 то 2.375	4.78 то 60.33	.016 то .110	.40 то 2.76	36	10

17-7 PH® is an alloy produced by AK Steel. Custom 455® is an alloy produced by Carpenter Specialty Alloys.

## **Stainless Coil Slitting & Edging**

EDGING						
Capabilities	.313 - 3.00" WIDTH	7" gauge				
Oscillate Wind	6.5 - 9.0" face	1400 LB.	MAX COIL			
Pancake Wind	60" м	AX OD				
#1 Round, Square	.024187" THICKNESS	24187" THICKNESS .313 - 3.00" WIDTH				
#4, #5 DeBurr	.024187" THICKNESS	.313 - 10.00" WIDTH				
Custom Shapes	S PER CUSTOMER SPECIFICATIONS					
Grades	304, 316, 347 301 annealed 301 tempered	410 420 430	2205 725CDA A600			

SLITTING							
Capabilities	.187 - 48.00" .024135" GAU						
ID	16	6 -20"					
Max Coil Weight	22500 LBS						
PIW Max	1000						
Oscillate Wind	6.5 - 9.0" face	1400 LB. MAX COIL					
Pancake Wind	MAX OD						
Grades	201 310, 304, 316 410, 420, 430, 439	446, AL6	458 XN 800	625 2205 725CDA			



## **Extruded Engineered Shapes**

CARBON & ALLOY STEEL GRADES										
1018	1045	12L14	6150	A36		Specification	Outside Dimensions			
1029 1030 1035 1040	1050 1060 10L18 1215	1050         4130         8620         A588           1060         4140         8630         A690         AMS S6758         ASTM A 36         ASTM A 576         AMS-S-67           10L18         4150         8640         GRADE 50         AMS 6415         ASTM A 105         ASTM A 588         AMS 6382           1215         4340         9310         AMS S5000         ASTM A 322         ASTM A 690		AMS-S-6758A AMS 6382	Shape cross-section must fit within 6-inch (152.4 mm) diameter.					
STAIN	ILESS S	STEEL (	GRADE	S						
202		400		12.0 MO	Specifications Where Applicable				Outside Dimensions	
303         400 SERIES           304 SERIES         418           310         422           316 SERIES         418		13-8 MO 15-5 PH 17-4 PH		AMS 5610 AMS 5613 AMS 5616 AMS 5621 AMS 5627	AMS 5629 AMS 5639 AMS 5640 AMS 5643 AMS 5645	AMS 5646 AMS 5648 AMS 5651 AMS 5659 AMS QQS 763	ASTM A276 ASTM A511	Shape cross-section must fit within 5.5-inch (139.7 mm) diameter.		
NICKEL ALLOY GRADES										
ALLOY 4	00 Bi-l	Bi-Metals		Specifications Where Applicable				Outside Dimensions		
ALLOY 600 A-286					AMS 5665 AMS 5732	ASTM A 164 ASTM B766	ASTM B456 QQ-N-281		Shape cross-section must fit within 5.5-inch (139.7 mm) diameter.	
TITAN	IIUM GI	RADES	*							
6AL-4V 6AL-6V-2SN 6AL-2SN-4ZR-2I		R-2MO*		Specifications Where Applicable			Outside Dimensions			
				AMS 4935 DMS 1650		DMS 1650	AMS 4921 AIMS 03-18-011		Shape cross-section must fit within 7.75-inch (196.8 mm) diameter.	
				AMS 4975	АМЗ-Т-81556А	MMS 1202		*Shape cross-section must fit within 6-inch (152.4 mm) diameter.		

## **Cold Drawn Shapes**

Carbon and Alloys	US Grades in Series 1000, 4000, 6000, 8000, 9000
Stainless Steels in Complex Geometries	Series 300 & 400 Stainless Steel
PH grades in Rounds, Hexes or Octagons	17-4, 17-7, 15-5, 13-8
Exotic Alloys	Monel 400, Inconel, Hastelloy, etc.
Solid, Round	0.25" - 3.75" OD
Hexagons and Octagons, Across Flats	0.3125" - 3.625"
Rectangles and Squares	0.625" per side min, 5.000" max
Unique Shapes	Greater than 0.625"
	Profile must fit within 6.500" Diameter Circle
Dimensional Tolerance, Standard*	+/- 0.005"
Fillet and Radii Tolerance, Standard*	0.015" in Carbon, 0.030" in Stainless
Ratio of Height vs. Width	1:1.16 (Max)
Cross Sectional Area	0.125 SQ IN. (Min)

\* Tighter Tolerances may be available depending on geometry, size, and material.

**Extruded Engineered Shapes** - A process where a round billet is pre-heated and, after leaving the furnace, is pushed through a forming die into a profile. Extrusions can even be used to make complex profile shapes from metals which are difficult to form.

**Cold Drawn Shapes** - A process by which a bar or tube is reduced in size or changed in shape by pulling it through a series of dies or mandrels.

NOTE: Grades listed are current working grades. Other grades are subject to review. Grades, specifications, quantities, capabilities and tolerances can be discussed at time of inquiry. All specifications are to the latest revision.





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Celebrating 100 years in 2024, Plymouth Tube began to produce cold drawn tubing at a small, single location in Michigan. Today we provide a wide range of specialty tubing and extruded shapes to global customers from a large network of metal-working facilities with over 1.6 million square feet of manufacturing and office space.

We believe our company is much more than just facilities - it is the sum of the efforts of many people, their abilities, expectations and how they interact with customers, suppliers and each other. We are organized for agility - decentralized enough to be easy to do business with, yet big enough to be a single source supplier. Our well-trained people are working to provide innovative, cost effective and timely manufacturing solutions to help our customers improve their competitiveness.

Our mission is to meet or exceed our customer's expectations. We encourage you to accept our invitation to personally visit our Mills and sales offices, meet the people and observe firsthand the high quality that goes into every product we manufacture for you. Come see us in action!

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We will ensure that the product you receive from Plymouth is absolutely correct in every way. In the unlikely event you are not satisfied with Plymouth products or services, a Plymouth Mill Representative will be at your facility within 72 hours, or at your earliest convenience, to resolve the satisfaction issues while minimizing any impact on your organization.

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