

Century Tube Corporation invites you to inquire on all grades and sizes not listed in brochure

## ROUNDS

OD	GA.	22 .028	20 .035	18 .049	16 .065	14 .083	12 .109	11 .120	9 .148	7 .187
1/2"			.1738	.2355	.3019					
5/8"		.1735	.2205	.3014	.3888					
3/4"		.1936	.2673	.3668	.4755	.5913				
7/8"		.2533	.3140	.4323	.5623	.7021				
1"		.2907	.3607	.4977	.6491	.8129	1.037	1.128		
1-1/8"			.4074	.5631	.7359	.9300	1.1938	1.296		
1-3/16"			.44	.65	.75	.99	1.2673	1.3809		
1-1/4"		.3654	.4542	.6285	.8226	1.034	1.328	1.448		
1-5/16"				.6555	.8758	1.065	1.417	1.550		
1-1/2"		.4402	.5476	.7593	.9962	1.2561	1.6193	1.7686		
1-5/8"		.4776	.5943	.8248	1.083	1.3669	1.7648	1.9288		
1.660"					1.107		1.806			
1-3/4"		.5149	.6411	.8902	1.1697	1.4777	1.9103	2.089		
1-7/8"				.9450	1.268	1.548	2.075	2.270		
1.900"			.6971	.9687	1.274	1.6107	2.085	2.255	2.718	
2"			.7345	1.0210	1.3433	1.6993	2.2014	2.4094	2.972	
2-1/2"			.9214	1.2877	1.6904	2.142	2.783	3.050	3.717	4.460
3"				1.527	2.060	2.520	3.400	3.730		

## SQUARES


OD	GA.	20 .035	18 .049	16 .065	14 .083	12 .109	11 .120	9 .148	7 .187	5 .250
3/4"		.3403	.4671	.6055	.7529	.9502	1.1278			
1"		.4593	.6337	.8265	1.0351	1.3208	1.4360			
1-1/4"		.5783	.8003	1.0475	1.3173	1.6914	1.8442			
1-1/2"		.6973	.9669	1.2685	1.5995	2.0620	2.522	2.7213	3.63	
2"			1.3001	1.7105	2.1639	2.8032	3.0682	3.7277	4.4554	5.3571
3"			1.9665	2.5945	3.2927	4.2856	4.7002	5.7405	6.9034	8.3178

## RECTANGLES

OD	GA.	20 .035	18 .049	16 .065	14 .083	12 .109	11 .120	9 .148	7 .187	5 .250
1/2 x 1-1/2"		.4542	.6285	.8265						
1-1/2 x 2"			1.500	1.830	2.460	2.690				
1-1/2 x 2-1/2"			1.3001	1.7105	2.1639	2.8032	3.6082	3.7277	4.4554	6.01
1 x 2"			.9669	1.2685	1.6257	2.1045	2.3026			
1 x 3"			1.3025	1.7167	2.1759	2.8271	3.0982			
2 x 3"			1.6333	2.1525	2.7283	3.5444	3.8842	4.7518	5.6794	
2 x 4"			1.9665	2.5945	3.2927	4.2865	4.7002	5.7405	6.9034	8.3178

## SPECIFICATIONS

- ALLOY:** 201, 304, 316L, 409, 430: Refer to Mill for Other Alloys
- UNPOLISHED:** As welded 2B
- ROUND:** 100 grit, 180 grit, 320 grit, 400 grit, Polish and Buff, and Marine Polish
- SQUARE & RECTANGLE:** 100 grit, 180 grit, and 320 grit
- CUTTING:** 6" min.
- CUTTING TOL:** Plus 1/16" minus 1/16"
- PACKAGING:** Standard Cardboard, Paper Sleeving, Plastic Sleeve, Paper Interweaving, Customize to Customers Needs

Made in the USA 

*Celebrating 25 Years*  
FAMILY OWNED & OPERATED



22 TANNERY ROAD / SOMERVILLE, NJ 08876

Made in the USA 



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[www.centurytube.net](http://www.centurytube.net)

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**Century Tube Corporation** is a dedicated manufacturer of the finest quality structural and ornamental polished stainless steel tubing for a broad range of applications. Our customers come from such diverse industries as grab bar, marine, trucking, food service, security, transportation, hospital equipment, recreation and construction.

We pride ourselves on providing quality tube at a competitive price to our valued customers with on-time service.

**Century Tube Corporation** was founded in 1987 in Middlesex, New Jersey. In 1992 the company relocated to its current 35,000 square foot facility in Somerville, New Jersey and currently has seven TIG welding mills.

All tube produced is Tig welded, insuring a quality weld with minimal internal weld bead. All Round and Square polishing is done in house with finishes to customer needs and specifications. Welding to specific multiple lengths eliminates the expense of unnecessary scrap to the customer. Cutting to customers final length eliminates an operation and cost to our customers.

Century maintains a rotating production schedule which allows quick response to customer situations and deliveries.

All orders are carefully packed and loaded by experienced personnel. The company selects only the most reliable and experienced carriers to deliver to our customers.



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Buffer



Shipping



Packaging



Inventory



Tube Mill



Forming Section



Round Polisher



Square Polisher

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ROUND TUBING

O.D., inches	Wall thickness, inch	O.D. tol. ± inch
3/4 to 1 incl.	.025 to .065	.005
3/4 to 1 incl.	Over .065 to .134	.010
Over 1 to 1-1/2 incl.	.025 to .065	.008
Over 1 to 1-1/2 incl.	Over .065 to .134	.010
Over 1-1/2 to 2 incl.	.032 to .049	.010
Over 1-1/2 to 2 incl.	Over .049 to .083	.009
Over 1-1/2 to 2 incl.	Over .083 to .165	.012
Over 2 to 2-1/2 incl.	.035 to .065	.012
Over 2 to 2-1/2 incl.	Over .065 to .109	.011
Over 2 to 2-1/2 incl.	Over .109 to .165	.014
Over 2-1/2 to 3-1/2 incl.	.035 to .165	.014
Over 3-1/2 to 4-1/2 incl.	.065 to .165	.020

Wall thickness: ±10% of the nominal wall  
Straightness: .030" in 3'

Ovality:

Ovality is the difference between maximum and minimum outside diameters measured at any one cross section. There is no additional tolerance for ovality on tubes having a nominal wall thickness of more than 3 percent of the O.D. An ovality tolerance of twice the tabular O.D. tolerance spreads shown is applied, one-half and one-half minus, so tubes having a nominal wall thickness of three percent or less of the nominal O.D. The average of the maximum and minimum O.D. reading should fall within the O.D. tolerances as shown in the table.

I.D. Weld Bead:

through .083.....12% or .007, whichever is less.  
.084 through .120.....11% or .012, whichever is less.  
.121 through .165.....11% or .018, whichever is less.

Typical Bending

Wall Thickness	Centerline Radius
.049 and lighter (or without mandrel)	3 x O.D.
.065 and heavier (with mandrel)	2 x O.D.

SQUARE AND RECTANGULAR TUBING

Largest nominal outside dimension	BWG	Outside tolerances of all sides at corners
5/8"	12—22	±.004
Over 5/8 to 1-1/8" incl.	10—22	±.005
Over 1-1/8 to 1-1/2" incl.	10—22	±.006
Over 1-1/2 to 2" incl.	10—21	±.007

The center of the flat sides, measured for convexity and concavity, has an additional tolerance applied to the specific size determined at the corners, and is measured on the following basis.

Longest nominal outside dimension	Tolerance
2-1/2" & under	±.010"

Squareness of sides:

The squareness tolerance of square and rectangular tubing can be computed with the following formula:

$$\pm b = c \times .006"$$

$$b = \text{Tolerance for out of square}$$

$$c = \text{Length of longest side}$$

For instance, in a rectangular tube 2" x 1", c = 2". By applying the formula, the tolerance is calculated as follows.

$$\pm b = 2" \times .006"$$

$$\pm b = .012$$

Thus, a 2" x 1" rectangular tube may have its sides fail to be 90° to each other by ±.012.

Straightness:

Longest side	Maximum twist in 3 feet
5/8" to 1-1/2" incl.	.075
Over 1-1/2" to 2-1/2" incl.	.095
Over 2-1/2"	.125

APPLICATIONS

- Marine Equipment and Boat Railings
- Restaurant, Cafeteria and Kitchen Equipment
- Food Processing Equipment and Conveyors
- Meat Packing Tables, Conveyors and Scales
- Hospital Carts, Gurneys and Railings
- Washroom Grab Bars, Accessories and Railings
- Truck Mirrors
- Bus and Truck Railings
- Catalytic Converter Spacers and Automotive Exhaust Systems
- Recreation Equipment
- Furniture
- Textile Equipment
- Construction Supports, Frames and Railings
- Display Cases
- Bakery Rack and Carts

COMPOSITION % OF TYPE-304 STAINLESS

C. MAX	CR.	NI.	MN. MAX	P. MAX	S. MAX	SI. MAX
0.08	18.00 – 20.00	8.00 – 11.00	2.00	.040	.030	.75

Other grades of stainless are available for special requirements.



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