



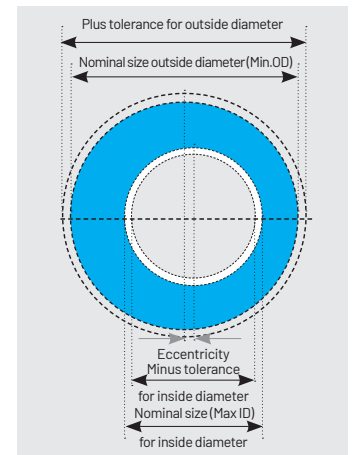
Seamless Stainless Hollow Bar & Mechanical Tubing.

Size Range Chart

Outside diameter range mm	Dimensional tolerances			
	For the outside diameter D	For the outside diameter d	For eccentricity (centre offset) E	For out-of-straightness h
32 # D # 275	-0/+2% (min. 1 mm)	+0/-2% (min. 1 mm)	10%	1 mm/m

Outside diameter range mm	Machining allowances	
	For the outside diameter	For the inside diameter
32 # D # 70	1.0 mm	1.0 mm
70 # D # 132	1.0 mm	1.0 mm
132 # D # 200	1.0 mm	2.0 mm
200 # D # 275	1.0 mm	2.0 mm

Standard Hollow Bar Tolerances



Note: The machining allowances are recommended minimum values and are related to short-length mechanical parts (L<2.5 x D, max. 250 mm). Machining allowances for longer parts or special machining procedures can be customised. Machining allowances when ordering Mechanical Tubing to ASTM A 511are different to those for Hollow Bar.

Hollow Bar – Standard sizes

Rough size and weight			Finish-turned sizes			
Nominal outside diameter mm	Nominal inside diameter mm	Theoretical weight kg/m	Externally centred		Internally centred	
			Max. outside diameter mm	Min. inside diameter mm	Max. outside diameter mm	Min. inside diameter mm
32	20	4.21	31.0	22.0	30.1	21.0
32	16	5.05	31.0	18.2	30.0	17.0
36	25	4.56	35.0	26.9	34.2	26.0
36	20	5.90	35.0	22.1	34.0	21.0
36	16	6.75	35.0	18.3	34.0	17.0
40	28	5.51	39.0	29.9	38.1	29.0
40	25	6.45	39.0	27.0	38.1	26.0
40	20	7.79	39.0	22.2	38.0	21.0
45	32	6.71	44.0	34.0	43.0	33.0
45	30	7.45	44.0	32.0	43.0	31.0
45	28	8.14	44.0	30.2	42.9	29.0
45	20	10.43	44.0	22.3	43.0	21.0
50	36	8.02	49.0	37.9	48.1	37.0
50	32	9.65	49.0	34.2	47.9	33.0
50	28	11.09	49.0	30.3	47.9	29.0
50	25	12.04	49.0	27.3	48.0	26.0
56	40	10.17	55.0	42.1	54.0	41.0
56	36	12.00	55.0	38.2	53.9	37.0
56	28	15.07	55.0	30.4	53.8	29.0
56	25	16.02	55.0	27.6	53.7	26.0
63	50	9.96	62.0	51.9	61.0	51.0
63	45	12.82	62.0	47.2	60.8	46.0
63	40	15.39	62.0	42.4	60.8	41.0
63	36	17.21	62.0	38.4	60.9	37.0
63	32	18.84	62.0	34.6	60.7	33.0
71	56	12.82	70.0	57.9	69.0	57.0
71	45	19.53	70.0	47.3	68.9	46.0
71	36	23.91	70.0	38.6	68.7	37.0
75	60	13.66	74.0	61.9	73.0	61.0
75	50	20.32	74.0	52.2	72.9	51.0
75	40	25.75	74.0	42.6	72.7	41.0

Hollow Bar – Standard sizes

Rough size and weight			Finish-turned sizes			
Nominal outside diameter mm	Nominal inside diameter mm	Theoretical weight kg/m	Externally centred		Internally centred	
			Max. outside diameter mm	Min. inside diameter mm	Max. outside diameter mm	Min. inside diameter mm
80	63	16.28	79.0	65.1	77.9	64.0
80	50	25.17	79.0	52.5	77.7	51.0
80	45	28.04	79.0	47.6	77.7	46.0
80	40	30.60	79.0	42.9	77.5	41.0
85	45	33.20	84.0	47.8	82.5	46.0
90	75	16.87	89.0	77.0	88.9	76.0
90	71	20.41	89.0	73.0	88.0	72.0
90	63	26.91	89.0	65.2	87.8	64.0
90	56	31.96	89.0	58.7	87.6	57.0
90	50	35.81	89.0	52.8	87.5	51.0
95	75	22.65	94.0	77.0	92.9	76.0
95	67	29.55	94.0	69.3	92.8	68.0
95	50	41.59	94.0	53.1	92.4	51.0
100	80	24.10	99.0	82.0	97.9	81.0
100	71	32.30	99.0	73.3	97.8	72.0
100	63	38.80	99.0	65.6	97.6	64.0
100	56	43.85	99.0	59.0	97.4	57.0
106	90	21.61	105.0	91.9	103.9	91.0
106	80	31.83	105.0	82.1	103.9	81.0
106	71	40.04	105.0	73.5	103.7	72.0
106	63	46.54	105.0	65.9	103.4	64.0
106	56	51.58	105.0	59.3	103.2	57.0
112	90	29.79	111.0	92.1	109.8	91.0
112	80	40.01	111.0	82.5	109.6	81.0
112	71	48.22	111.0	73.8	109.5	72.0
112	63	54.72	111.0	66.2	109.2	64.0
118	90	38.43	117.0	92.2	115.8	91.0
118	80	48.65	117.0	82.6	115.6	81.0
118	71	56.85	117.0	74.1	115.3	72.0
118	63	63.36	117.0	66.5	115.0	64.0
125	100	37.65	124.0	102.0	122.9	101.0
125	90	49.07	124.0	92.4	122.7	91.0
125	80	59.29	124.0	82.9	122.3	81.0
125	71	67.50	124.0	74.4	122.0	72.0
132	106	41.48	131.0	108.0	129.8	107.0
132	90	60.33	131.0	92.7	129.4	91.0
132	80	70.55	131.0	83.3	129.1	81.0
132	71	78.75	131.0	74.8	128.8	72.0
140	112	47.23	139.0	114.1	137.8	113.0
140	100	62.52	139.0	102.6	137.5	101.0
140	90	73.39	139.0	93.2	137.1	91.0
140	80	84.17	139.0	83.7	136.8	81.0
150	125	46.85	149.0	126.9	147.9	126.0
150	112	65.37	149.0	114.5	147.6	113.0
150	106	73.24	149.0	108.8	147.3	107.0
150	95	86.53	149.0	98.4	147.0	96.0
150	80	102.31	149.0	84.2	146.4	81.0
160	132	55.43	159.0	134.0	157.7	133.0
160	122	70.70	159.0	124.4	157.5	123.0
160	112	84.77	159.0	115.0	157.2	113.0
160	90	111.49	159.0	94.2	156.4	91.0
170	140	63.00	169.0	143.1	167.6	142.0
170	130	79.23	169.0	132.5	167.5	131.0
170	118	97.12	169.0	121.1	167.1	119.0
170	110	108.09	169.0	113.5	166.9	111.0
170	106	113.28	169.0	109.8	166.6	107.0
170	100	120.72	169.0	104.1	166.4	101.0

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