

Hollow Bar

Euro-Norm Hollow Bar Guaranteed Clean Turned Size *						2C Hollow Bar		T316 Hollow Bar		4140 Hollow Bar	
Euro-Norm Size CTS	Approx Delivered Size	Approx Weight Kg/Metre	Euro-Norm Size CTS	Delivered Size	Approx Weight Kg/Metre	Nominal Size Stocked	Approx Weight Kg/Metre	Nominal Size Stocked	Approx Weight Kg/Metre	Nominal Size Stocked	Approx Weight Kg/Metre
30/15	31.8/12.2	5.46	125/70	126.7/66.3	73.79	254/204	145.00	32/16	5.10	50/32	9.41
30/20	31.8/17.6	4.44	125/80	126.7/76.7	64.38	254/182	205.00	36/25	4.60	50/25	11.55
35/20	36.5/17.1	6.58	125/90	126.7/87.3	53.37	254/174	220.00	36/20	6.00	56/36	11.71
35/25	36.5/22.5	5.23	125/95	126.7/92.1	47.92	254/154	266.00	40/28	5.50	63/40	15.05
40/20	41.3/16.7	9.03	125/100	126.7/97.5	41.44	267/187	230.00	40/20	7.90	63/32	18.68
40/25	41.3/22.1	7.71	130/65	131.7/59	87.76	273/248	85.00	45/32	6.70	71/56	12.18
40/30	41.3/27.5	6.01	130/75	131.7/71.1	77.79	273/223	158.00	45/28	8.20	71/36	23.72
45/25	46.3/19.9	11.06	130/80	131.7/76.5	72.75	273/213	185.00	45/20	10.60	75/40	25.54
45/30	46.3/27.1	8.92	130/90	131.7/86.9	61.99	273/209	208.00	50/36	8.10	75/50	19.87
45/35	46.3/32.5	6.88	130/100	131.7/97.1	50.11	273/201	223.00	50/32	9.80	80/50	24.77
50/25	51.2/22.7	13.00	130/105	131.7/102.5	43.29	273/193	237.00	50/25	12.20	80/40	30.42
50/30	51.2/27.1	12.15	140/80	141.8/76	90.72	273/183	268.00	56/40	10.30	85/45	32.96
50/35	51.2/32.1	10.14	140/90	141.8/86.4	80.03	273/173	283.00	56/36	12.10	85/67	17.50
50/40	51.2/37.5	7.76	140/100	141.8/97	67.72	292/165	368.00	56/28	15.30	90/63	26.23
55/30	57.1/26.1	16.33	140/105	141.8/102.2	61.16	295/250	160.00	63/50	10.00	90/50	35.49
55/35	57.1/31.1	14.20	140/115	141.8/112.4	47.31	298/258	141.00	63/40	15.60	90/40	41.12
55/40	57.1/37.1	11.93	150/75	151.8/69	115.15	298/248	174.00	63/36	17.50	95/75	21.67
65/35	66.5/30.9	21.95	150/85	151.8/80.6	104.74	298/242	197.00	63/32	19.10	95/63	32.08
65/40	66.5/36.3	19.65	150/95	151.8/91.2	93.21	298/238	205.00	71/56	12.90	95/60	34.40
65/45	66.5/41.7	16.99	150/105	151.8/101.6	80.52	298/218	262.00	71/45	15.40	95/50	41.31
65/50	66.5/47.1	13.95	150/120	151.8/117.2	58.92	298/198	315.00	71/36	24.30	100/80	23.06
65/55	66.5/52.5	10.55	150/125	151.8/122.4	51.03	318/255	243.00	75/40	26.10	100/71	31.51
70/40	71.3/35.7	24.11	160/90	161.9/85.5	119.65	323/263	224.00	80/63	19.10	100/63	38.28
70/45	71.3/41.1	21.49	160/100	161.9/95.9	107.70	323/243	287.00	80/50	25.50	100/56	43.52
70/50	71.3/46.7	18.37	160/115	161.9/111.7	86.94	323/223	346.00	80/40	31.10	106/71	39.34
70/55	71.3/52.1	15.00	160/125	161.9/122.3	71.24	324/274	189.00	85/45	33.70	106/63	46.10
70/60	71.3/57.5	11.25	160/135	161.9/132.5	54.79	324/264	224.00	90/71	20.80	106/56	51.34
75/45	76.3/40.7	26.37	170/100	171.9/95.3	129.56	324/244	288.00	90/63	27.40	112/80	39.04
75/50	76.3/46.1	23.40	170/110	171.9/105.9	116.06	324/224	348.00	90/50	36.40	112/63	54.37
75/55	76.3/51.7	19.93	170/120	171.9/116.5	101.14	340/215	440.00	95/50	42.30	118/90	37.12
75/60	76.3/57.1	16.21	170/130	171.9/126.9	85.11	356/306	210.00	100/80	23.80	118/80	47.79
75/65	76.3/62.5	12.12	170/140	171.9/137.1	68.07	356/296	248.00	100/71	32.90	118/63	63.09
80/40	81.5/36.9	33.43	180/75	181.8/68	179.94	356/286	292.00	100/56	44.60	125/100	36.68
80/45	81.5/42.3	30.72	180/85	181.8/79.1	169.84	356/276	319.00	106/80	32.50	125/80	58.57
80/50	81.5/47.1	28.00	180/100	181.8/94.9	152.44	356/256	388.00	106/71	40.80	125/71	67.12
80/55	81.5/52.5	24.60	180/125	181.9/121.1	116.61	356/236	449.00	106/56	52.50	132/106	39.65
80/60	81.5/57.7	20.97	180/140	181.9/136.9	90.81	368/268	403.00	112/90	30.40	132/90	59.23
85/45	86.5/41.9	36.25	180/150	181.9/147.1	72.47	368/258	437.00	112/80	40.80	132/80	69.95
85/50	86.5/47.3	33.20	190/105	192.4/99.6	171.53	368/248	467.00	112/63	55.70	132/71	78.48
85/55	86.5/52.1	30.18	190/135	192.4/131.2	125.36	371/301	307.00	118/90	39.20	140/100	61.01
85/60	86.5/57.5	26.43	190/150	192.4/146.8	97.91	406/356	242.00	118/80	49.60	140/90	73.01
85/65	86.5/62.7	22.48	190/160	192.4/157	78.29	406/346	286.00	118/63	64.50	140/80	83.71
90/50	91.5/46.9	39.07	200/115	202.5/109.5	183.67	406/326	371.00	125/100	38.40	150/114	60.55
90/55	91.5/51.9	35.95	200/130	202.5/125.3	160.19	406/316	420.00	125/90	50.10	150/106	71.57
90/60	91.5/57.1	32.36	200/140	202.5/135.9	142.66	406/306	451.00	125/80	60.50	150/80	102.05
90/65	91.5/62.5	28.27	200/160	202.5/156.9	103.74	406/286	527.00	125/71	68.80	160/132	56.46
90/70	91.5/67.7	23.98	200/170	202.5/167.1	82.82	419/319	467.00	132/106	42.30	160/112	82.96
95/50	96.5/46.7	45.14	210/130	214.1/117.7	202.47	419/309	508.00	132/90	61.60	160/90	110.97
95/55	96.5/51.9	41.90	210/155	214.1/145.5	156.15	419/299	547.00	132/71	80.30	170/118	95.14
95/60	96.5/57.1	38.54	210/165	214.1/156.7	134.73	419/279	619.00	140/112	48.20	170/100	119.90
95/65	96.5/62.1	30.11	210/175	214.1/167.7	112.14	430/310	564.00	140/100	63.80	180/125	106.57
95/70	96.5/67.5	25.49	210/185	214.1/178.9	87.57	457/407	274.00	140/80	85.90	200/140	130.62
100/55	101.6/51.8	48.36	220/140	222.7/127.9	210.39	457/377	422.00	150/125	47.80	224/132	207.30
100/60	101.6/57.2	44.78	220/150	222.7/139.1	191.46	457/357	516.00	150/106	74.70		
100/65	101.6/62.7	36.76	220/160	222.7/150.1	171.32	457/327	645.00	150/80	104.40		
100/70	101.6/67.8	31.98	220/180	222.7/172.3	126.02	457/317	686.00	160/132	56.60		
105/55	106.6/51.4	55.21	230/135	234.9/120.9	256.75	508/408	581.00	160/112	86.50		
105/60	106.6/56.8	51.51	230/145	234.9/132.1	238.82	508/388	682.00	170/140	64.30		
105/65	106.6/62.2	43.35	230/170	234.9/159.9	187.43	508/368	776.00	170/118	99.10		
105/70	106.6/67.6	33.81	230/190	234.9/182.1	139.37	510/410	583.00	180/125	111.00		
105/85	106.6/82.8	28.53	250/140	252.9/124.3	307.06	557/434	773.00	180/140	86.60		
110/60	111.6/56.4	58.70	250/160	252.9/160	269.00	585/401	1,148.00	180/150			
110/70	111.6/67.2	50.42	250/180	252.9/168.7	224.71	610/510	710.00	190/132	123.60		
110/75	111.6/72.2	45.84	250/200	252.9/190.9	174.17	610/490	835.00	190/160	73.40		
110/80	111.6/77.2	41.11						200/140	135.10		
110/85	111.6/82.4	35.86						200/160	98.30		
110/90	111.6/87.8	30.04						212/130	183.30		
120/65	121.7/62.2	69.26						212/170	109.70		
120/70	121.7/66.5	65.76						224/140	200.10		
120/80	121.7/77.1	56.12						224/180	121.60		
120/85	121.7/82.3	50.88						236/150	217.70		
120/90	121.7/87.1	45.73						236/190	134.10		
120/95	121.7/92.5	39.59						250/200	153.70		

Euro-Norm EN 10294 Carbon Hollow
Note:- Guaranteed clean turn sizes, by O.D chucking, for sizes 65 O.D and below the O.D and I.D will clean up to the ordered size over a length of 3 times the O.D. For sizes above 65 O.D the ordered O.D and I.D will clean up to a length of 200mm.

Colour Codes



Euro-Norm Hollow Bar

According to EN10294 DIN 1.0536

E470 is carbon manganese, fine grained, low alloy steel. Offering good machinability and weldability. Careful selection and control of the chemical analysis and manufacturing process has resulted in high mechanical properties, giving the design engineer greater flexibility and reduced weight. E470 can be case hardened and welded using Bohler Fox CHV electrodes or EMKG-IG Mig Wire.

C	Mn	Si	V
0.16 - 0.22	1.3 - 1.7	0.1 - 0.5	0.08 - 0.15

Nominal WT	Yield Strength (ReH)	Tensile Strength (Rm)
<16mm	470 Mpa min	650 Mpa min
<16 - 25 mm	460 Mpa min	620 Mpa min
>25 - 40 mm	430 Mpa min	600 Mpa min
>40 - 50 mm	430 Mpa min	550 Mpa min
>50 - 60 mm	400 Mpa min	520 Mpa min

T316 Stainless Steel Hollow Bar

Improved machine quality, austenitic chromium, nickel, molybdenum steel. This steel offers better resistance to acids such as diluted sulphuric and hydrochloric acids and to media causing pitting, crevice corrosion and stress corrosion cracking. Welding use Avesta 316L 2D, 3D or 4D or 316L/SKR Mig wire.

C	Cr	Mo	Ni
<0.03	17.00	2.20	11.50

Hardness BHN	Yield Strength 0.2% N/mm²	Tensile Strength N/mm²	Elongation (L=5d) %/min
120-180	190	490-590	40

Branch

New South Wales	Sydney 129-135 McCredie Rd Guildford 2161 Ph (02) 8724 5554 Fax (02) 8724 5555	Newcastle 3 Pavilion Pl Cardiff 2285 Ph (02) 4954 6611 Fax (02) 4956 5773
Albury	1 Eames St Albury 2640 Ph (02) 6041 3399 Fax (02) 6041 1820	Marayong 1/21 Binney Rd Marayong 2148 Ph (02) 9831 4431 Fax (02) 9671 1682
Wollongong	40 Doyle Ave Unanderra 2526 Ph (02) 4272 6544 Fax (02) 4272 7563	
Victoria	Melbourne 282-290 Greens Rd Dandenong 3175 Ph (03) 9767 5554 Fax (03) 9767 5555	Bayswater 4 Ramage St Bayswater 3153 Ph (03) 97297356 Fax (03) 9738 0850
South Australia	Adelaide 1 Williams Cir Pooraka 5095 Ph (08) 8368 4554 Fax (08) 8368 4555	
Queensland	Brisbane 12-18 Limestone St Darra 4076 Ph (07) 3712 9554 Fax (07) 3712 9555	Townsville 9-11 Caldwell St Garbutt 4814 Ph (07) 4779 4800 Fax (07) 4725 1316
Western Australia	Perth 29-33 Gauge Cir Canning Vale 6155 Ph (08) 9455 8672 Fax (08) 9455 8673	Kewdale 5 Beete St Welshpool 6106 Ph (08) 9350 9582 Fax (08) 9350 9683
Tasmania	Launceston 20 Murphy St Invermay 7248 Ph (03) 6334 3542 Fax (03) 6331 4001	

2C Hollow Bar

20Mn V6 Improved carbon steel grade in close tolerance hollow bar sizes. All forms of mechanical equipment, such as hydraulic cylinders, gear wheels, shafts, axles, stuffing boxes, locknuts, spindles, drill jigs, rolls etc. Bars over 50mm wall thickness are normalised 20Mn V6. Can be case hardened and welded using Bohler Fox CHV electrodes or EMKG-IG Mig wire.

C	Mn	Si
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