

Cylinder Tubes

We stock Australia's largest range of Honed & Unhoned Cylinder Tubes. These steels are derived from a range of leading manufacturers from around the world.

Our honed tubing is produced using ST52 Drawn over mandrel (DOM) and Cold Drawn Seamless Honed Cylinder Tube. This tubing is ready to use for hydraulic cylinder applications without further Inner Diameter processing. The honing process involves using abrasive polishing stones and abrasive paper to remove small amounts of material – this produces extremely precise inner Diameter dimensions with an H8 diameter tolerance and improved finishes.

We offer a limited range of ST52 Cold Drawn Seamless and Hot Finished Unhoned Cylinder Tubes suitable for honing. The sizes offered are more machine specific. Made from ST52 & E355 Cold drawn seamless & hot finished tube.

Finished (Honed) Tubes – SRB: Skived and Roller Burnished.

Semi-finished (Unhoned) Tubes are Made from ST52 Drawn over mandrel & Cold Drawn Seamless Honed Cylinder Tube: Hot Finished P355N.



Cylinder Tubes

Honed and Unhoned

Typical Chemical Composition %

	MIN	MAX
Carbon		0.25
Manganese	0.30	– 0.90
Phosphorous		0.40
Silicon		0.35
Sulphur		0.50

Carried out Controls

Internal Roughness

The surface roughness (Ra) is 0.2 to 0.4 μm

Straightness

The maximum deviation is 1 mm/1.0 m.

Diameter Tolerance

H8

Mechanical Properties

Tensile Strength Mpa	Min 500
Yield Strength Mpa	Min 400
Elongation	Min 15%

Honing Tolerances

Semi Finished (unhoned)

0.5 – 1.5mm

Imperial Size Range Cylinder Tubes — Finished (Honed)

Imperial inches		Metric mm		Wall Thickness	Weight Kg per meter
Outer Diameter	Inner Diameter	Outer Diameter	Inner Diameter		
1 1/2	1"	38.1	25.4	6.35	4.97
1 3/4	1 1/4	44.45	31.75	6.35	5.97
1 3/4	1 3/8	44.45	34.925	4.76	4.66
1 7/8	1 1/2	47.65	38.1	4.76	5.03
2 1/2	2	63.5	50.8	6.35	8.95
2 1/4	1 3/4	57.15	44.45	6.35	7.95
2 3/4	2 1/4	69.85	57.15	6.35	9.94
2 3/8	2"	60.325	50.8	4.76	6.52
2 7/8	2 1/2	73.03	63.5	4.76	8.01
2	1 1/2	50.8	38.1	6.35	6.96
3 1/2	2 1/2	88.9	63.5	12.7	23.86
3 1/2	3	88.9	76.2	6.35	12.93
3 1/4	2 1/2	82.55	63.5	9.525	17.15
3 1/4	2 3/4	82.55	69.85	6.35	11.93
3 3/4	3	95.525	76.2	9.525	20.20
3 3/4	3 1/4	95.525	82.55	6.35	13.96
3"	2 1/2	76.2	63.5	6.35	10.94
3	2	76.2	50.8	12.7	19.89
4 1/2	3 1/2	114.3	88.9	12.7	31.82
4 1/2	4	114.3	101.6	6.35	16.90
4 1/4	3 1/2	107.95	88.9	9.525	23.12
4 1/4	3 3/4	107.95	95.525	6.35	15.91
4 3/4	4 1/4	120.65	107.95	6.35	17.90
4 3/4	4	120.65	101.6	9.525	26.10
4	3 1/2	101.6	88.9	6.35	14.92
4	3 1/4	101.6	82.55	9.525	21.63
4	3	101.6	76.2	12.7	27.84
5 1/2	4 1/2	139.7	114.3	12.7	39.77

Imperial Size Range Cylinder Tubes — Finished (Honed)

Imperial inches		Metric mm		Wall Thickness	Weight Kg per meter
Outer Diameter	Inner Diameter	Outer Diameter	Inner Diameter		
5 1/2	4 3/4	139.7	120.65	9.525	30.58
5 1/2	5	139.7	127	6.35	20.88
5 1/4	4 1/2	133.35	114.3	9.525	29.08
5 1/4	4 3/4	133.35	120.65	12.7	37.79
5 3/4	5	146.05	127	9.525	32.07
5	4 1/2	127	114.3	6.35	18.89
5	4 1/4	127	107.95	9.525	27.59
5	4	127	101.6	12.7	35.80
6 1/4	5 1/2	158.75	139.7	9.525	35.05
6 3/4	5 3/4	171.45	152.4	12.7	49.72
6 3/4	6	171.45	152.4	9.525	38.03
6	5	152.4	127	12.7	43.75
6	5 1/4	152.4	133.35	9.525	33.56
6 1/2	5 1/2	165.1	139.7	12.7	47.73
7 1/2	6 1/2	190.5	165.1	12.7	55.68
7 1/4	6 1/2	184.15	165.1	9.525	41.02
7	6	177.8	152.4	12.7	51.71
8 3/4	7 1/2	222.25	190.5	15.875	80.79
8	7	203	177.8	12.7	59.60
9	8	228.6	203.2	12.7	67.62
9 1/2	8	241.3	203.2	19.05	104.41
10 3/4	9	273.05	228.6	22.225	137.47
10	8	254	203.2	25.4	143.19
10	9	254	228.6	12.7	75.57
10 1/2	8 1/2	266.7	215.9	25.4	151.14
11	9	279.4	228.6	25.4	159.10

Metric Size Range

Cylinder Tubes — Finished (Honed)

Metric mm			
Outer Diameter	Inner Diameter	Wall Thickness	Weight Kg per meter
35	25	5	3.70
40	30	5	4.32
50	40	5	5.55
55	45	5	6.17
58	48	5	6.53
60	50	5	6.78
65	50	7.5	10.63
70	55	7.5	11.56
75	60	7.5	12.48
75	63	6	10.21
80	63	8.5	14.99
80	65	7.5	13.41
80	70	5	9.25
85	70	7.5	14.33
90	70	10	19.73
90	75	7.5	15.26
95	80	7.5	16.18
100	80	10	22.19
100	85	7.5	17.11
105	80	12.5	28.51
105	90	7.5	18.03
110	90	10	24.66
115	95	10	25.89
115	100	7.5	19.88
120	100	10	27.13
120	95	12.5	33.14
125	100	12.5	34.68
125	105	10	28.36
125	110	7.5	21.73
130	110	10	29.59
140	110	15	46.24
135	115	10	30.83

Metric Size Range

Cylinder Tubes — Finished (Honed)

Metric mm			
Outer Diameter	Inner Diameter	Wall Thickness	Weight Kg per meter
140	115	12.5	39.30
140	120	10	32.06
145	120	12.5	40.84
145	125	10	33.29
150	125	12.5	42.38
153	130	11.5	40.13
155	125	15	51.79
160	130	15	53.64
160	140	10	36.99
170	135	17.5	65.81
170	140	15	57.33
190	160	15	64.73
180	150	15	61.03
190	150	20	83.84
190	160	15	64.73
200	160	20	88.78
200	165	17.5	78.76
200	170	15	68.43
210	170	20	93.71
210	180	15	72.13
220	180	20	98.64
230	190	20	103.57
230	200	15	79.53
245	200	22.5	123.45
245	210	17.5	98.18
250	200	25	138.71
260	220	20	118.37
274	220	27	164.46
300	250	25	169.54
300	254	23	157.11
355	300	27.5	222.09

Imperial Size Range — Cylinder Tubes Semi Finished (Unhoned)

Imperial inches		Metric mm		Wall Thickness	Weight Kg per meter
Outer Diameter	Inner Diameter	Outer Diameter	Inner Diameter		
7	6 1/4"	177.8	158.75	9.525	39.53
8 1/2	7"	215.9	177.8	19.05	92.47
9 1/2	8"	241.3	203.2	19.05	104.41
9 3/4	7 1/4"	247.65	184.15	31.75	169.04
9 3/4	7 3/4"	247.65	196.85	25.4	139.21
10	8 1/4"	254	209.55	22.225	127.03
10 1/2	8 1/2"	266.87	215.9	25.485	151.70
10 3/4	9 1/4"	273.03	234.95	19.04	119.26
11 1/2	9 1/2"	291.1	241.3	24.9	163.46
12	10"	304.8	254	25.4	175.01
12	11"	304.8	279.4	12.7	91.48
12 3/4	10"	323.85	254	34.925	248.84
12 3/4	10 1/2"	323.85	266.87	28.49	207.51
12 3/4	11"	323.85	279.4	22.225	165.31
14	11"	355.6	279.4	38.1	298.31
14	11 1/2	355.6	292.1	31.75	253.56
14	12	355.6	304.8	25.4	206.83

Metric Size Range — Cylinder Tubes Semi Finished (Unhoned)

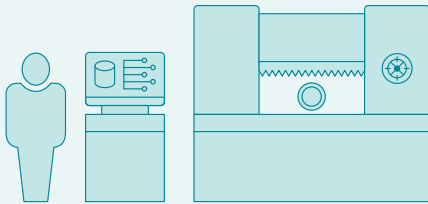
Metric mm		Wall Thickness	Weight Kg per meter
Outer Diameter	Inner Diameter		
273	200	36.5	212.87
273	230	21.5	133.34
300	240	30	199.75
300	250	25	169.54
324	250	37	261.86
356	280	38	297.99
368	280	44	351.55
368	300	34	280.04
377	310	33.5	283.77
395	300	47.5	407.04
420	330	45	416.14
445	350	47.5	465.61
445	360	42.5	421.84
508	420	44	503.46
521	420	50.5	585.93



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Cutting Service



Our laser guided band saws are dedicated to hydraulic steels. Our superior cutting service ensures that we can typically process orders faster than our competitors. If we receive an order before 12 noon, we aim to have that order on transport that day.

Delivery



We've positioned ourselves geographically to be in a strategic location with excellent on and off highway access which enables transport to collect products with ease and enables us to distribute products efficiently, on time and safely to every postcode area throughout Australia.

Disclaimer

The data ranges and application examples shown are for general information purposes only and are not to be considered as recommendations. Test certificates for specific products are available on request.

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