

Cylinder tubes

Heléns stock a wide assortment of skived and roller-burnished or honed cylinder tubes. Our cylinder tubes has good surface smoothness and tight tolerances. For less demanding applications, we can offer a large assortment of smooth bore (RTU) cylinder tubes.

HONED/SKIVED AND ROLLER BURNISHED CYLINDER TUBES

Honed/Skived and roller burnished cylinder tubes material E355 +SR, EN 10305-2 /10305-1, tolerance ISO H8, Ra = max 0.30 μ m.

PRODUCT INFORMATION

OD	ID	KG/M
50.00	40.00	5.55
55.00	45.00	6.17
60.00	50.00	6.78
65.00	50.00	10.64
65.00	50.00	10.63
65.00	55.00	7.40
70.00	60.00	8.01
73.00	63.00	8.38
75.00	63.00	10.21
75.00	65.00	8.63
78.00	63.00	13.04
80.00	70.00	9.25
85.00	70.00	14.33
85.00	75.00	9.87
90.00	75.00	15.30
90.00	80.00	10.48
92.00	80.00	12.73
95.00	80.00	16.18
95.00	85.00	11.10
100.00	80.00	22.19
100.00	85.00	17.10
100.00	90.00	11.71
105.00	90.00	18.03
105.00	95.00	12.33
110.00	100.00	12.95

OD	ID	KG/M
112.00	100.00	16.16
115.00	100.00	19.88
120.00	100.00	27.12
120.00	110.00	14.18
125.00	110.00	21.73
130.00	100.00	42.54
130.00	110.00	29.59
130.00	120.00	15.41
135.00	120.00	23.58
140.00	120.00	32.06
140.00	125.00	24.51
145.00	125.00	33.29
150.00	125.00	42.39
160.00	140.00	36.99
165.00	140.00	46.95
165.00	150.00	29.13
170.00	140.00	57.34
170.00	150.00	39.46
180.00	160.00	41.92
185.00	160.00	53.17
190.00	160.00	64.74
200.00	180.00	46.86
205.00	180.00	59.34
225.00	200.00	65.50
230.00	200.00	79.53

COLD DRAWN CYLINDER TUBES

Cold drawn cylinder tubes RTU material E355+C (St 52-3 BK), EN 10305-2 (DIN 2393), tolerance ISO H9/H10, Ra = max 0.8 my.

PRODUCT INFORMATION

YD	ID	KG/M
32.00	25.00	2.46
40.00	30.00	4.32
40.00	32.00	2.46
42.00	32.00	4.56
45.00	35.00	4.93
50.00	40.00	5.55
55.00	45.00	6.17
60.00	50.00	6.78
65.00	55.00	7.40

YD	ID	KG/M
70.00	60.00	8.01
73.00	63.00	8.38
75.00	65.00	8.63
80.00	70.00	9.25
85.00	75.00	9.87
90.00	80.00	10.48
100.00	90.00	11.71
110.00	100.00	12.95
115.00	100.00	19.88

CHEMICAL COMPOSITION

	STEEL GRADE	TYPE	FABRICATION LENGTH (MM)	C%	MN%	SI%	S%	P%
Honed/Skived and roller-burnished cylinder tubes	E355+SR	Welded / seamless cold drawn stress-relieved tube according to EN 10305-2 / 10305-1	5000-8000	Max 0.22	Max 0.16	Max 0.55	Max 0.035	Max 0.030
Cold drawn cylinder tubes (RTU)	E355+C	Welded cold drawn according to EN 10305-2	5000-7000	Max 0.22	Max 1.60	Max 0.55	Max 0.025	Max 0.025

MECHANICAL PROPERTIES

	YIELD STRENGTH MPa MIN	TENSILE STRENGTH MPa MIN	ELONGATION A ₅ % MIN	SURFACE FINISH Ra	TOLERANCE ID	TOLERANCE OD	STRAIGHTNESS MM
Honed/Skived and roller-burnished cylinder tubes	515	580	15	Max 0.30 my	H8	According to EN 10305-2 /10305-1	1:2000 alt 0.8/1000
Cold drawn cylinder tubes (RTU)	590	650	10	Max 0.8 my	H9 - H10	According to EN 10305-2	1:2000