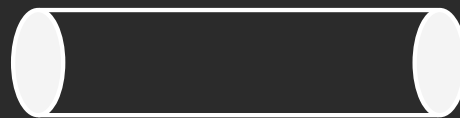


CHROME BAR



Imported from Uranie International and other leading European manufacturers, our chrome bars deliver superior straightness, quality induction hardening, and outstanding corrosion resistance. Made from hot-rolled steel with a unique peeling process, Uranie bars offer unparalleled quality, excellent weldability, and tighter tolerances—giving equipment manufacturers the reliability they need with ultra-fast delivery from our large in-stock range.

Steel Grade	Dia Range	Yield Point (N/mm2)	Tensile Strength (N/mm2)	Elongation %
1045	16mm	> 340	> 620	> 10
	18-95mm	> 305	580-850	> 16
	95-160mm	> 275	560-800	> 16
38MnVS6	16-160mm	> 520	800-950	> 12
4140	< 16mm	min. 750	1100-1200	> 8
	16-40mm	min. 750	1000-1200	> 11
	40-100mm	min. 700	900-1100	> 12
	100-200mm	min. 550	800-950	> 13

Mechanical Properties

Diameter Tolerance	Standard ISO f7
Surface Roughness	Ra: 0.07 – 0.20 micron
Straightness	0.20mm/m Max
Chromium Plating	Hardness: 900 HV 0.1
Induction Hardening	Hardness: minimum 55 HRC
Chromium Thickness	Minimum 20 micron
Corrosion Resistance	NSS Salt Spray Test 96 Hour Rating 10 / 312 Hour Rating 9

Induction Hardening Depth

16mm	0.5-1.0mm
18mm	1.0-2.0mm
42-80mm	1.25-2.5mm
82.55-125mm	2.0-3.0mm

38MnVS6 Chemical Analysis %

Carbon	Silicon	Manganese	Sulphur	Phosphorus	Vanadium	Chromium	Molybdenum	Nitrogen
0.34-0.41	0.15-0.80	1.20-1.60	< 0.035	< 0.025	0.08-0.20	< 0.30	< 0.08	0.01-0.02

Non-Induction Hardened High Tensile Chrome Bar

METRIC

Description	Size (mm)	Kgs/Metre
42CrMo4 (4140) Chrome Bar	12.00	0.89
42CrMo4 (4140) Chrome Bar	15.00	1.39
42CrMo4 (4140) Chrome Bar	16.00	1.58
42CrMo4 (4140) Chrome Bar	18.00	2.00
38MnVS6 Chrome Bar	20.00	2.47
42CrMo4 (4140) Chrome Bar	22.00	2.98
38MnVS6 Chrome Bar	25.00	3.85
38MnVS6 Chrome Bar	28.00	4.83
38MnVS6 Chrome Bar	30.00	5.55
38MnVS6 Chrome Bar	32.00	6.31
38MnVS6 Chrome Bar	35.00	7.55
38MnVS6 Chrome Bar	36.00	8.00
42CrMo4 (4140) Chrome Bar	38.00	8.90
38MnVS6 Chrome Bar	40.00	9.86
38MnVS6 Chrome Bar	45.00	12.48
38MnVS6 Chrome Bar	50.00	15.41
38MnVS6 Chrome Bar	55.00	18.65
38MnVS6 Chrome Bar	56.00	19.33
38MnVS6 Chrome Bar	60.00	22.20
38MnVS6 Chrome Bar	63.00	24.47
38MnVS6 Chrome Bar	65.00	26.05
38MnVS6 Chrome Bar	70.00	30.20
38MnVS6 Chrome Bar	75.00	34.68
38MnVS6 Chrome Bar	80.00	39.46
38MnVS6 Chrome Bar	85.00	44.54
38MnVS6 Chrome Bar	90.00	49.94
38MnVS6 Chrome Bar	95.00	55.64
38MnVS6 Chrome Bar	100.00	61.65

Description	Size (")	Size (mm)	Kgs/Metre
42CRM04 (4140) Chrome Bar	1/2	12.70	0.99
42CRM04 (4140) Chrome Bar	5/8	15.875	1.55
38MnVS6 Chrome Bar	3/4	19.05	2.24
38MnVS6 Chrome Bar	7/8	22.225	3.05
38MnVS6 Chrome Bar	1	25.40	3.98
38MnVS6 Chrome Bar	1-1/8	28.575	5.03
38MnVS6 Chrome Bar	1-1/4	31.75	6.22
38MnVS6 Chrome Bar	1-3/8	34.925	7.52
38MnVS6 Chrome Bar	1-1/2	38.10	8.95
38MnVS6 Chrome Bar	1-5/8	41.275	10.50
38MnVS6 Chrome Bar	1-3/4	44.45	12.18
38MnVS6 Chrome Bar	1-7/8	47.625	13.98
38MnVS6 Chrome Bar	2	50.80	15.91
38MnVS6 Chrome Bar	2-1/4	57.15	20.14
38MnVS6 Chrome Bar	2-1/2	63.50	24.86
38MnVS6 Chrome Bar	2-3/4	69.85	30.08
38MnVS6 Chrome Bar	3	76.20	35.78
38MnVS6 Chrome Bar	3-1/4	82.55	42.01
38MnVS6 Chrome Bar	3-1/2	88.90	48.72
38MnVS6 Chrome Bar	3-3/4	95.25	55.93
38MnVS6 Chrome Bar	4	101.6	63.64

Induction Hardened High Tensile Chrome Bar

METRIC

Description	Size (mm)	Kgs/Metre
38MnVS6 Chrome Bar Induction Hardened	20.00	2.72
38MnVS6 Chrome Bar Induction Hardened	25.00	4.24
38MnVS6 Chrome Bar Induction Hardened	30.00	6.11
38MnVS6 Chrome Bar Induction Hardened	32.00	6.31
38MnVS6 Chrome Bar Induction Hardened	35.00	8.31
38MnVS6 Chrome Bar Induction Hardened	40.00	7.99
38MnVS6 Chrome Bar Induction Hardened	45.00	10.85
38MnVS6 Chrome Bar Induction Hardened	50.00	13.73
38MnVS6 Chrome Bar Induction Hardened	55.00	16.95
38MnVS6 Chrome Bar Induction Hardened	56.00	20.52
38MnVS6 Chrome Bar Induction Hardened	60.00	21.26
38MnVS6 Chrome Bar Induction Hardened	63.00	24.41
38MnVS6 Chrome Bar Induction Hardened	65.00	26.92
38MnVS6 Chrome Bar Induction Hardened	70.00	29.66
38MnVS6 Chrome Bar Induction Hardened	75.00	33.23
38MnVS6 Chrome Bar Induction Hardened	80.00	38.15
38MnVS6 Chrome Bar Induction Hardened	85.00	43.41
38MnVS6 Chrome Bar Induction Hardened	90.00	48.99
38MnVS6 Chrome Bar Induction Hardened	95.00	54.93
38MnVS6 Chrome Bar Induction Hardened	100.00	61.20
38MnVS6 Chrome Bar Induction Hardened	105.00	67.82
38MnVS6 Chrome Bar Induction Hardened	110.00	74.77
38MnVS6 Chrome Bar Induction Hardened	115.00	82.06
38MnVS6 Chrome Bar Induction Hardened	120.00	89.68
42CRM04 (4140) Chrome Bar Induction Hardened	125.00	96.33
42CRM04 (4140) Chrome Bar Induction Hardened	130.00	104.19
42CRM04 (4140) Chrome Bar Induction Hardened	140.00	120.83
42CRM04 (4140) Chrome Bar Induction Hardened	150.00	138.71
42CRM04 (4140) Chrome Bar Induction Hardened	160.00	157.82
42CRM04 (4140) Chrome Bar Induction Hardened	170.00	178.17
42CRM04 (4140) Chrome Bar Induction Hardened	180.00	199.75
42CRM04 (4140) Chrome Bar Induction Hardened	200.00	246.60

Description	Size (")	Size (mm)	Kgs/Metre
38MnVS6 Chrome Bar Induction Hardened	3/4	19.05	2.24
38MnVS6 Chrome Bar Induction Hardened	1	25.4	4.38
38MnVS6 Chrome Bar Induction Hardened	1 1/4	31.75	6.84
38MnVS6 Chrome Bar Induction Hardened	1 3/8	34.925	8.27
38MnVS6 Chrome Bar Induction Hardened	1 1/2	38.1	9.84
38MnVS6 Chrome Bar Induction Hardened	1 3/4	44.45	13.40
38MnVS6 Chrome Bar Induction Hardened	2	50.8	17.50
38MnVS6 Chrome Bar Induction Hardened	2 1/4	57.15	22.15
38MnVS6 Chrome Bar Induction Hardened	2 1/2	63.5	27.34
38MnVS6 Chrome Bar Induction Hardened	2 3/4	69.85	33.09
38MnVS6 Chrome Bar Induction Hardened	3	76.2	39.38
38MnVS6 Chrome Bar Induction Hardened	3 1/4	82.55	46.21
38MnVS6 Chrome Bar Induction Hardened	3 1/2	88.9	53.60
38MnVS6 Chrome Bar Induction Hardened	3 3/4	95.525	61.88
38MnVS6 Chrome Bar Induction Hardened	4	101.6	70.00
38MnVS6 Chrome Bar Induction Hardened	4 1/4	107.95	79.03
38MnVS6 Chrome Bar Induction Hardened	4 1/2	114.4	88.60
42CRM04 (4140) Chrome Bar Induction Hardened	5	127	109.38
42CRM04 (4140) Chrome Bar Induction Hardened	5 1/2	139.7	132.35
42CRM04 (4140) Chrome Bar Induction Hardened	6	152.4	157.51
42CRM04 (4140) Chrome Bar Induction Hardened	7	177.8	194.90
42CRM04 (4140) Chrome Bar Induction Hardened	8	203.2	254.55

CYLINDER TUBE



VH Steels supply high performance honed hydraulic cylinder tube manufactured by Alta Spa, Italy, an internationally recognised leader in cylinder tube technology. All tubes are honed using Alta's proprietary, patented tooling system, producing what is known as the **Alta Finish**.

This advanced honing method achieves superior dimensional accuracy and a highly refined internal surface finish of **$Ra \leq 0.30\mu m$** , significantly outperforming conventional honing, skiving, and roller burnishing processes. The result is enhanced hydraulic fluid distribution, reduced wear, and prolonged seal life, critical for high duty cycle and precision hydraulic systems.

Tubes are supplied **ready to perform** with no further internal processing required, and tolerances exceed standard H8 norms, ensuring a consistent and interference-free fit with seals and piston components.

Key Advantages

- Superior surface finish and dimensional consistency
- Improved lubrication and extended seal service life
- High strength and dimensional stability
- Proven performance in demanding hydraulic and pneumatic applications

For engineers and manufacturers seeking unmatched surface quality and tolerance reliability, **Alta Finish tubes** from VH Steels deliver a trusted, ready to install solution.

Mechanical Properties

Tensile Strength (Rm)	580 MPa minimum
Yield Strength (ReH)	440 MPa minimum
Elongation (A5)	12% minimum
Internal Surface Roughness	0.30 μm maximum
Straightness	1mm/1000mm or better
Standards	EN 10305-1 (seamless) and EN 10305-2 (welded)
Material Certification	Acc EN 10204:2004/3.1

Cylinder Tube – Inside Honed H8

METRIC

ID	OD	WT	Kgs/Metre
25	35	5	3.7
30	40	5	4.32
35	45	5	4.93
40	50	5	5.55
45	55	5	6.17
50	60	5	6.78
50	65	7.5	10.64
55	70	7.5	11.56
60	75	7.5	12.48
63	75	6	10.21
65	80	7.5	13.41
70	80	5	9.25
70	85	7.5	14.33
75	90	7.5	15.26
75	95	10	20.96
80	92	6	12.73
80	95	7.5	16.18
80	100	10	22.2
80	105	12.5	28.51
85	100	7.5	17.11
85	105	10	23.43
90	105	7.5	18.03
90	110	10	24.66
95	115	10	25.89
95	120	12.5	33.14
100	120	10	27.13
100	125	12.5	34.68
105	125	10	28.36
110	125	7.5	21.73
110	130	10	29.59

ID	OD	WT	Kgs/Metre
110	140	15	46.24
115	130	7.5	22.66
115	135	10	30.83
115	140	12.5	39.3
120	140	10	32.06
120	145	12.5	40.85
125	150	12.5	42.39
130	155	12.5	43.93
130	160	15	53.64
135	160	12.5	45.47
140	160	10	36.99
140	170	15	57.34
150	180	15	61.04
155	170	7.5	30.06
160	190	15	64.74
160	195	17.5	76.6
165	200	17.5	78.76
170	200	15	68.44
170	210	20	93.71
180	210	15	72.13
180	220	20	98.65
200	230	15	79.53
200	245	22.5	123.46
200	250	25	138.72
210	245	17.5	98.18
220	260	20	118.38
229	270	20	151.05
230	270	20	123.31
250	300	25	169.55

ID (")	OD (")	WT (")	ID (mm)	OD (mm)	WT (mm)	Kgs/Metre
1 1/2	1 3/4	1/8	38.10	44.45	3.18	3.23
1 1/2	1 7/8	3/16	38.10	47.63	4.77	5.04
1 1/2	2	1/4	38.10	50.80	6.35	6.96
1 3/4	2 1/4	1/4	44.45	57.15	6.35	7.96
2	2 3/8	3/16	50.80	60.30	4.76	6.52
2	2 1/2	1/4	50.80	63.50	6.35	8.95
2 1/4	2 3/4	1/4	57.15	69.85	6.35	9.94
2 1/2	2 7/8	3/16	63.50	73.03	4.76	8.02
2 1/2	3	1/4	63.50	76.20	6.35	10.94
2 3/4	3 1/4	1/4	69.85	82.55	6.35	11.93
3	3 1/2	1/4	76.20	88.90	6.35	12.93
3	3 3/4	3/8	76.20	95.25	9.53	20.14
3 1/4	3 3/4	1/4	82.55	95.25	6.35	13.92
3 1/4	4	3/8	82.55	101.60	9.53	21.63
3 1/2	4	1/4	88.90	101.60	6.35	14.92
3 1/2	4 1/4	3/8	88.90	107.95	9.53	23.12
3 3/4	4 1/4	1/4	95.25	107.95	6.35	15.91
4	4 1/2	1/4	101.60	114.30	6.35	16.91
4	4 3/4	3/8	101.60	120.65	9.53	26.10
4	5	1/2	101.60	127.00	12.70	35.80
4 1/4	4 3/4	1/4	107.95	120.65	6.35	17.90
4 1/4	5	3/8	107.95	127.00	9.53	27.60
4 1/2	5	1/4	114.30	127.00	6.35	18.89
4 1/2	5 1/4	3/8	114.30	133.35	9.53	29.09
4 1/2	5 1/2	1/2	114.30	139.70	12.70	39.78
4 3/4	5 1/4	1/4	120.65	133.35	6.35	19.89
5	5 1/2	1/4	127.00	139.70	6.35	20.88
5	5 3/4	3/8	127.00	146.00	9.53	32.06
5	6	1/2	127.00	152.40	12.70	43.75
5 1/2	6 1/8	5/16	139.70	155.57	7.94	28.89
5 1/2	6 1/4	3/8	139.70	158.75	9.53	35.05

Cylinder Tube – Inside Honed H8

IMPERIAL

ID (")	OD (")	WT (")	ID (mm)	OD (mm)	WT (mm)	Kgs/Metre
5 1/2	6 1/2	1/2	139.70	165.10	12.70	47.73
6	6 1/2	1/4	152.40	165.10	6.35	24.86
6	6 3/4	3/8	152.40	171.45	9.53	38.04
6	7	1/2	152.40	177.80	12.70	51.71
6 1/2	7 1/2	1/2	165.10	190.50	12.70	55.69
7	8	1/2	177.80	203.20	12.70	59.66
7 1/2	8 1/2	1/2	190.50	215.90	12.70	63.64
8	9	1/2	203.20	228.60	12.70	67.62
9	10	1/2	228.60	254.00	12.70	75.58
10	12	1	254.00	304.80	25.40	175.02