



FORMARK

STEELS RANGE

FORMARK.CO.NZ



ABOUT US

Formark is committed to 'supporting your engineering success' through our dedication to deliver world-class service, and our commitment to quality product.

Our products are designed, tried and proven in New Zealand conditions so you can be assured that your engineering job will go the distance! With direct access to manufacturers and mills all across the globe, Formark's offers a wide range of specialist hydraulic steel and parts.

Located in Hastings, New Zealand, Formark supplies engineers and distributors across the globe, primarily in New Zealand, but also in Canada, USA and Australia. As a family-owned company, we operate in an honest and fair manner.

Choose Formark... fast, fair & friendly!

WHY CHOOSE FORMARK?

FAST

We understand that when machinery breaks down, speed is critical. So, Formark holds stock of all our diameters in the country and, will dispatch your order on the same-day, if placed before 3pm. You will receive your repair in the shortest time possible, minimising costly downtime.

FAIR

We import directly, from steel mills across the globe so you will receive quality product, at a fair price. We supply large hydraulic cylinder manufacturers and engineering firms across New Zealand allowing us to buy in bulk, and sell at competitive prices!

FRIENDLY

Our team are always willing to help you achieve engineering success. As a family-owned business we operate on fair and honest values - you can trust and rely on Formark!

Our Ranges



HARD CHROME BAR



HONED CYLINDER TUBE



HOLLOW BAR



BRIGHT BAR



HARDENED STEEL BUSHES



HARDENED STEEL PINS

Contact Us

We are always expanding our ranges so if there is a product, or size, not listed in our brochure, give us a call, we may be able to help!

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CHROME BAR



TENSILE GRADES

1045 STD	Medium Tensile Chrome Bar, Standard (STD)
38MnVS6 STD	High Tensile Chrome Bar, Standard (STD)
38MnVS6 IH	High Tensile Chrome Bar, Induction Hardened (IH)

SPECIFICATIONS

Chrome Layer Thickness	20µm minimum
Surface Roughness	Ra 0.07 - 0.02µm
Surface Hardness Non Induction Hardened	20-30 HRC
Surface Hardness Induction Hardened	55-60 HRC
Induction Hardened Depth	1-3mm induction hardened depth
Outside Diameter Tolerance	ISO f7 is standard - other standards can be supplied.
Straightness	0.2mm p/metre maximum deviation.
Tensile Strength Rm (MPa)	600-800 (1045), 850-1000 (38MnVS6)
Corrosion Levels	Level 10 at 120 hours, Level 9 at 312 hours using ISO 9227 evaluated at ISO 10289 NSS

BENEFITS

Excellent machinability
Excellent weldability
High tensile premium material (38MnVS6)
Ideal for earthmoving or forestry application in Induction Hardened grade

CHROME BAR

STOCKED RANGE

METRIC (HCBM)

CODE	Ø	KGS/MTR	STD	IH
9249	12	0.89	✓	
9248	16	1.578	✓	
9887	18	2.000	✓	
9252	20	2.466	✓	
9253	22	3.045	✓	
9379	25	3.853	✓	
9241	25	3.853		✓
9255	28	4.833	✓	
9381	30	5.549	✓	
9440	30	5.549		✓
9383	32	6.313	✓	
9441	32	6.313		✓
9384	35	7.552	✓	
9442	35	7.552		✓
9259	36	7.990	✓	
9385	36	7.990		✓
9404	38	8.902	✓	
9386	40	9.864	✓	
9443	40	9.864		✓
9387	45	12.484	✓	
9444	45	12.484		✓
9391	50	15.413	✓	
9445	50	15.413		✓
9416	55	18.649	✓	
9446	55	18.649		✓
9665	56	19.333	✓	
9666	56	19.333		✓
9417	60	22.194	✓	
9447	60	22.194		✓
9418	63	24.469	✓	
9189	63	24.469		✓
9419	65	26.047	✓	
9448	65	26.047		✓
9267	70	30.209	✓	
9449	70	30.209		✓
9268	75	34.678	✓	
9450	75	34.678		✓
9269	80	39.456	✓	
9451	80	39.456		✓
9270	85	44.542	✓	
9452	85	44.542		✓
9280	90	49.937	✓	
9453	90	49.937		✓
9188	95	54.86		✓
9273	100	61.650	✓	
9454	100	61.650		✓
9281	105	67.969	✓	
9455	105	67.969		✓
9456	110	74.597		✓
9547	115	81.532		✓

IMPERIAL (HCBI)

CODE	Ø	Ø (MM)	KGS/MTR	STD	IH
9199	1/2"	12.7	0.994	✓	
9202	3/4"	19.05	2.237	✓	
9488	3/4"	19.05	2.237		✓
9200	7/8"	22.225	3.045	✓	
9203	1"	25.4	3.977	✓	
9226	1"	25.4	3.977		✓
9204	1-1/8"	28.575	5.034	✓	
9205	1-1/4"	31.75	6.215	✓	
9558	1-1/4"	31.75	6.215		✓
9206	1-3/8"	34.925	7.520	✓	
9559	1-3/8"	34.925	7.520		✓
9207	1-1/2"	38.1	8.949	✓	
9225	1-1/2"	38.1	8.949		✓
9294	1-5/8"	41.275	10.503	✓	
9208	1-3/4"	44.45	12.181	✓	
9228	1-3/4"	44.45	12.181		✓
9282	1-7/8"	47.625	13.983	✓	
9209	2"	50.8	15.910	✓	
9231	2"	50.8	15.910		✓
9210	2-1/4"	57.15	20.136	✓	
9196	2-1/4"	57.15	20.136		✓
9211	2-1/2"	63.5	24.859	✓	
9234	2-1/2"	63.5	24.859		✓
9212	2-3/4"	69.85	30.079	✓	
9236	2-3/4"	69.85	30.079		✓
9213	3"	76.20	35.797	✓	
9239	3"	76.20	35.797		✓
9214	3-1/4"	82.55	42.011	✓	
9998	3-1/4"	82.55	42.011		✓
9238	3-1/2"	88.90	48.723	✓	
9468	3-1/2"	88.90	48.723		✓
9588	3-3/4"	95.25	55.932	✓	
9589	3-3/4"	95.25	55.932		✓
9217	4"	101.6	63.639	✓	
9469	4"	101.6	63.639		✓
9470	4-1/2"	114.3	80.543		✓
9219	5"	127	99.44		✓
9220	6"	152.4	143.187		✓
9651	7"	177.8	194.893		✓

CODE	Ø	KGS/MTR	STD	IH
9277	120	88.776	✓	
9457	120	88.776		✓
9549	125	96.328		✓
9431	130	104.189		✓
9458	140	120.84		✓
9454	150	138.713		✓
9455	160	157.824		✓
9460	200	246.6		✓



HONED CYLINDER

HONED CYLINDER

STOCKED RANGE



SPECIFICATIONS

Internal Roughness	Ra 0.2 - 0.4µm
Grade	EN10305-2
Internal Diameter Tolerance	ISO H7
Straightness Tolerance	0.5mm p/metre maximum deviation.
Tensile Strength Rm (MPa)	700-800 (N/mm ² or MPa) Tensile.

BENEFITS

Excellent machinability
Excellent weldability
Premium quality welded seam tube.
No steady tracking required.
Good concentricity.

METRIC (HCBM)

CODE	I.D.	O.D.	WIDTH	KGS/MTR
9340	25	35	5	3.699
9341	30	40	5	4.31
9342	35	45	5	4.932
9343	40	50	5	5.549
9344	45	55	5	6.165
9345	50	60	5	6.78
9346	50	65	7.5	10.635
9347	55	70	7.5	11.560
9348	60	75	7.5	12.485
9350	63	75	6	10.210
9338	65	80	7.5	13.410
9329	70	80	5	9.248
9349	70	85	7.5	14.334
9376	75	90	7.5	15.25
9295	75	95	10	20.962
9351	80	95	7.5	16.184
9352	80	100	10	22.195
9353	85	105	10	23.428
9354	90	110	10	24.662
9296	95	115	10	25.895
9372	100	115	7.5	19.87
9355	100	120	10	27.11
9355	100	125	12.5	34.680
9336	110	130	10	29.594
9358	110	140	15	46.240
9382	115	135	10	30.827
9361	115	140	12.5	39.304
9359	120	140	10	32.04
9362	125	150	12.5	42.387
9363	130	160	15	53.639
9370	140	160	10	36.992
9364	140	170	15	57.338
9365	150	180	15	61.037
9366	155	170	7.5	30.056
9367	160	190	15	64.736
9374	160	200	20	88.781
9368	170	210	20	93.714
9369	180	210	15	72.135
9373	200	250	25	138.721
9375	220	260	20	118.375
9397	250	300	25	169.548

IMPERIAL (HCBI)

CODE	I.D.	O.D.	WIDTH	KGS/MTR
9295	25.4 (1")	31.75	3.175 (1/8)	2.24
9298	25.4 (1")	38.1	6.35 (1/4)	4.97
9297	31.75 (1-1/4")	44.45	6.35 (1/4)	5.96
9300	38.1 (1-1/2")	50.8	6.35 (1/4)	6.774
9299	44.45 (1-3/4")	57.15	6.35 (1/4)	7.955
9301	50.8 (2")	63.5	6.35 (1/4)	8.950
9302	57.15 (2-1/4")	69.85	6.35 (1/4)	9.944
9303	63.50 (2-1/2")	76.20	6.35 (1/4)	10.939
9335	63.50 (2-1/2")	88.9	12.7 (1/2)	23.866
9333	69.85 (2-3/4")	82.55	6.35 (1/4)	11.933
9304	76.20 (3")	88.9	6.35 (1/4)	12.927
9305	76.20 (3")	92.1	7.95 (5/16)	15.25
9306	76.20 (3")	95.25	9.525 (3/8)	20.137
9311	76.20 (3")	101.6	12.7 (1/2)	27.844
9545	82.55 (3-1/4")	95.25	6.35 (1/4)	13.922
9291	82.55 (3-1/4")	101.6	9.525 (3/8)	21.628
9307	88.9 (3-1/2")	104.8	6.35 (1/4)	14.916
9310	88.9 (3-1/2")	107.95	9.35 (3/8)	23.12
9334	88.9 (3-1/2")	114.3	12.7 (1/2)	31.821
9312	101.6 (4")	114.3	6.35 (1/4)	16.9
9313	101.6 (4")	117.5	7.95 (5/16)	21.43
9319	101.6 (4")	120.65	9.525 (3/8)	29.087
9315	101.6 (4")	127	12.7 (1/2)	35.799
9316	107.95 (4-1/4")	127	9.525 (3/8)	27.595
9317	114.3 (4-1/2")	127	6.35 (1/4)	18.88
9318	114.3 (4-1/2")	130.2	7.95 (5/16)	23.96
9319	114.3 (4-1/2")	133.35	9.525 (3/8)	29.07
9320	114.3 (4-1/2")	139.7	12.7 (1/2)	39.777
9322	127 (5")	146.05	9.525 (3/8)	32.05
9330	127 (5")	152.4	12.7 (1/2)	43.73
9327	127 (5")	158.75	18.143 (5/8)	55.936
9323	139.7 (5-1/2")	165.1	12.7 (1/2)	47.732
9324	152.4 (6")	171.45	9.525 (3/8)	38.036
9325	152.4 (6")	177.8	12.7 (1/2)	51.68
9293	177.8 (7")	203.2	12.7 (1/2)	59.665
9326	203.2 (8")	228.6	12.7 (1/2)	67.620
9292	228.6 (9")	254	12.7 (1/2)	75.575
9544	254 (10")	304.8	25.4 (1)	174.93



HOLLOW BAR



BRIGHT BAR (4140)



CUT-LENGTH SERVICE AVAILABLE!

HOLLOW BAR

STOCKED RANGE

METRIC (HBM)

CODE	I.D.	O.D.	WIDTH	KGS/MTR
9847	45	65	10	13.564
9853	55	85	15	25.895
9856	60	100	20	39.458
9854	70	125	27.5	66.124
9855	80	150	35	99.263
9863	140	170	15	57.338
9866	150	180	15	61.037
9870	150	200	25	107.894

SPECIFICATIONS

Material	Hot Finished Seamless Hollow Bars for Machining
Grade	EN10294-1, E470 Steel Grade
Tolerances	OD Tol 0.75% Wall Thickness Tol 10%
Yield Strength Rp (MPa)	Min. 440 (N/mm ² or MPa)
Tensile Strength Rm (MPa)	Min. 600 (N/mm ² or MPa)
Elongation	Min. 17%

BRIGHT BAR (4140)

STOCKED RANGE

METRIC (CPBM)

CODE	OD	KGS/MTR
7010	40	9.86
7011	50	15.41
7012	60	22.2
7013	65	26.05
7014	70	30.21
7015	80	39.46
7016	90	49.94
7017	100	61.65

IMPERIAL (CPBI)

CODE	OD	KGS/MTR
7050	2"	15.91
7051	2-1/2"	24.86
7052	3"	35.8
7053	3-1/2"	48.73

SPECIFICATIONS

Material	CG Bright Bar - Centreless Ground, Quench & Tempered, Peeled and Polished
Grade	SAE4140
Hardness	Max. 35 HRC
Yield Strength Rp (MPa)	Min. 550 (N/mm ² or MPa)
Tensile Strength Rm (MPa)	Min. 800 (N/mm ² or MPa), Max. 950 (N/mm ² or MPa)
Elongation	Min. 14%
Tolerance	H8

ARE YOU NEEDING CUSTOM MATERIAL?

Let's get it repaired or rebuilt!

Need something custom? Our team can help you find — or fabricate — the right material for your job. Whether it's a one-off or a full production run, we'll get it done.

Whether you need non-standard diameters, specific tensile strengths, unique material grades, or custom lengths, we can deliver to your exact requirements. We also offer a range of surface finishes, including chrome plating, zinc plating, or special treatments for added durability. Need a custom internal bore? Our precision honing services can finish cylinders to your required specification — fast, accurate, and ready to perform.

Talk to us today.



DIAMETER

Struggling to find the correct diameter? We can custom machine the OD or ID of the bar, or tube, to your required diameter.

INTERNAL FINISH

Our machining facilities can bore and hone any steel material to a honed finish up to Ra 20um!

WALL THICKNESS

Create the perfect tube! If you have specific wall thicknesses, weight requirements or dimensions to achieve, we can help!

OUTSIDE FINISH

We can peel, polish and electro-plate the outside of your material. Extra chrome-layer for more protection? Or need the outer to be honed?

MATERIAL GRADE

Do you need a specific material for a specific application? We can provide 1040, 4140, E355, S304, S316 and much more!

LENGTH

We can source and machine custom-lengths up to max. 12 metres long!

CONTACT US


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