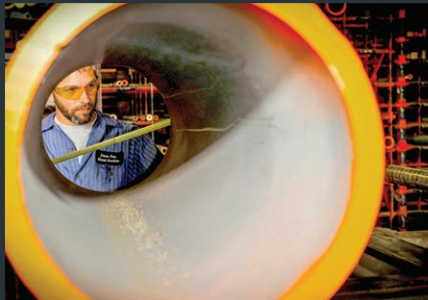


Dura-Bar Stock List





Dura-Bar is an engineered iron designed to meet our customers' most critical requirements. It is manufactured to strict process controls that provide world-class quality and uncompromising consistency. Dura-Bar is the only product of its type that comes with a Zero Defect Guarantee.*

Dura-Bar continuous cast iron bar stock is a high-quality alternative to steel and castings due to its superior machinability, strength, and dense fine-grained microstructure, which produces excellent surface finishes.

With Dura-Bar you will be able to:

- Machine more parts per hour, increasing profit margins
- Lower the total cost of machined component parts
- Experience longer tool life and less wear
- Significantly reduce scrap
- Outperform alternative materials

888-387-2227

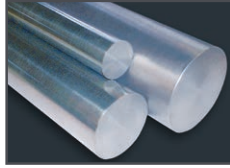
dura-barms.com

*Please visit dura-barms.com for rules and restrictions

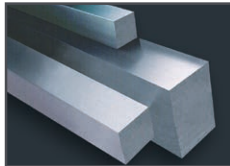
Information contained herein is for reference only. Please consult with your Dura-Bar Metal Services Account Manager or Inside Sales Representative for our most current specifications and material availability.

A high-quality alternative to steel

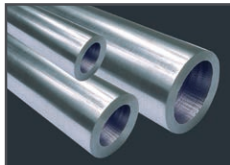
Dura-Bar is available in a wide variety of sizes and shapes, including: round bars, squares, rectangles, tubes, milled squares and rectangles and custom shapes.



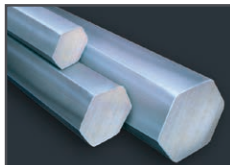
Rounds



Squares/Rectangles



Tubes



Custom Shapes



Cut-To-Size



Milled Squares/Rectangles

- **Ductile Iron**

65-45-12 – Excellent machinability; optimal impact strength and fatigue properties; not intended for hardening. Mechanical properties conform to ASTM A536 Grade 65-45-12. A good replacement for low-carbon steel grades such as 1018, 1117, 1212, 12L14.

80-55-06 – Higher wear resistance and strength than 65-45-12; readily machinable with good surface finishes; can be oil quench hardened to Rc50. Mechanical properties conform to ASTM A536 Grade 80-55-06. Can be used as an alternative to the medium-carbon steels such as 1141, 1144 and 1045.

100-70-03 – Maximum strength and wear characteristics in a non-alloyed as-cast ductile iron; can be oil quench hardened to Rc50. Mechanical properties conform to ASTM A536 Grade 100-70-03.

- **Gray Iron**

G2 – Well-suited for applications requiring high wear and response to heat treatment. The specification is similar to ASTM A48 Class 40. Contains type A graphite in a pearlitic matrix and has excellent wear resistance and vibration damping.

G1A – A fine-grain structure; minimal dimensional growth in applications of repeated heating and cooling cycles; not intended for hardening. Contains type D graphite in a mostly ferritic matrix and is often used in applications where a superior machining finish is required.

- **Ni-Resist**

201 Type 1 – Suitable for corrosive environments in sour oil wells, salts, salt water acids and alkalis. The iron is soft with chrome added to improve wear; it cannot be hardened. This specification is similar to ASTM A436 Type 1. Dura-Bar Ni-Resist contains flake graphite in an austenitic matrix with 10% alloy carbides.



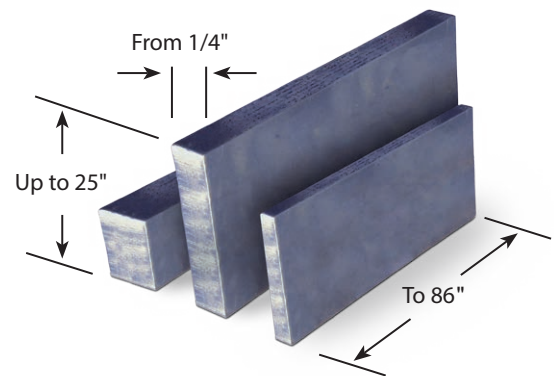
Superior Machinability

Saw Cut Cast Iron Plate

- G2 Gray Iron
- 65-45-12 Ductile Iron
- 80-55-06 Ductile Iron

Dura-Bar Metal Services will provide precision cut cast iron plate to your specifications. Thousands of size combinations are available. Ask your Dura-Bar Metal Services Account Manager or Inside Sales Representative for more details.

Dura-Bar saw cut plate stock is a fine grained, dense microstructure that provides excellent machinability plus outstanding vibration damping along with great wearability. Excellent material choice for foundry pattern tooling, fixture plates, mold plates, patterns, grid plates, core boxes, manifolds, valve bodies and more.



Mechanical Properties

Mechanical Properties (Typical)	Gray Iron	Ductile Iron			Ni-Resist
	G2	65-45-12	80-55-06	100-70-02	Type 1
Tensile Strength (psi) ¹	40,000	65,000	80,000	100,000	25,000
Yield Strength (psi) ¹	N/A	45,000	55,000	70,000	N/A
Elongation% ¹	N/A	12	6	2	N/A
Compressive Strength	120,000	110,000	115,000	120,000	100,000
Hardness (BHN) Average	241	180	229	279	155
Modulus of Elasticity (Million PSI) ¹	20	23	25	25	13
Heat-Treat Response	Rc 55-60 min	Rc 55-60 min	Rc 55-60 min	Rc 55-60 min	N/A
Microstructure	Highly Pearlitic	Ferritic (Min 75% ferrite)	Partially Pearlitic (Approx 50% pearlite)	Pearlitic (Min 75% pearlite)	Austenitic
Machinability Ratings ²	135%	150%	125%	75%	N/A

¹ Determined as prescribed by ASTM standards ² 1212 Steel = 100%

Nominal Diameter (Inches)	Weight/Foot (Lbs)		65-45-12				80-55-06	
			Est. Weight/Bar (Lbs)				Est. Wt/Bar (Lbs)	
			6 ft Bars		12 ft Bars		6 ft Bars	12 ft Bars
	A/C	C/F	A/C	C/F	A/C	C/F	A/C	A/C
1.000	2.9	2.5					17.8	
1.250	4.4	3.9	26.9		53.5		26.9	53.3
1.375	5.3	4.7					32.4	
1.500	6.2	5.6	38.2		75.9		38.2	75.9
1.625	7.2	6.5					44.4	88.3
1.750	8.3	7.5	51.2		101.6		51.2	101.6
2.000	10.7	9.9	66.0	60.7	131.1	118.4	66.0	131.1
2.125	12.2	11.1					75.5	149.9
2.250	13.6	12.5	84.2	76.8	167.2	149.7	84.2	167.2
2.375	15.1	13.9	93.3		185.4		93.3	185.4
2.500	16.7	15.4	102.9	94.8	204.5	188.4	102.9	204.5
2.625	18.3	16.9	113.0				113.0	221.5
2.750	20.0	18.6	123.6		245.5		123.6	
2.875	21.8	20.3			263.7			
3.000	23.7	22.1	146.2	136.5	290.3	265.9	146.2	290.3
3.125	25.9	24.0	159.6					
3.250	27.9	26.0	172.1		341.9		172.1	341.9
3.375	30.0	28.0	185.1		367.7			
3.500	32.2	30.1	198.6		394.5		198.6	394.5
3.625	34.5	32.3	212.5		422.1			
3.750	36.8	34.6	226.9		450.7		226.9	450.7
3.875	39.2	36.9	238.4					
4.000	41.7	39.3	260.6		514.2		260.6	514.2
4.125	44.0	41.8	275.0					
4.250	47.2	44.4	295.2		582.4		295.2	582.4
4.375	50.0	47.1	312.2					
4.500	52.8	49.8	329.7		650.7		329.7	650.7
4.625	55.6	52.6	343.1					
4.750	58.6	55.5	366.2		722.7		366.2	722.7
5.000	64.7	61.4	404.6		798.5		404.6	798.5
5.250	71.6		447.4		871.4		447.4	871.4
5.500	78.4		489.8		966.5		489.8	966.5
5.750	85.4		534.0		1039.5		534.0	1039.5
6.000	92.8		580.2		1144.9		580.2	1144.9
6.250	101.0		631.2		1229.3		631.2	
6.500	109.0		681.4		1344.6		681.4	1344.6
6.750	117.3		733.4		1427.6		733.4	1427.6
7.000	126.0		787.3		1553.7		787.3	1553.7
7.250	135.6		847.8				847.8	
7.500	144.9		905.7		1763.4		905.7	1763.4
7.750	154.5		965.5				965.5	

Notes: All bars are 72" in length unless otherwise noted.

CONTINUED

Nominal Diameter (Inches)	Weight/Foot (Lbs)		65-45-12				80-55-06	
			Est. Weight/Bar (Lbs)				Est. Wt/Bar (Lbs)	
			6 ft Bars		12 ft Bars		6 ft Bars	12 ft Bars
	A/C	C/F	A/C	C/F	A/C	C/F	A/C	A/C
8.000	164.4		1027.3		2027.2		1027.3	2027.2
8.250	175.6		1097.7				1097.7	
8.500	186.2		1163.5		2265.2		1163.5	2265.2
9.000	208.1		1300.8		2566.9		1300.8	2566.9
9.250	221.3						1383.4	
9.500	233.1		1457.1		2836.9		1457.1	2836.9
10.000	257.7		1610.3		3177.7		1610.3	3177.7
10.500	291.1		1831.7		3554.3		1831.7	
11.000	318.5		2003.6		3886.9		2003.6	
11.500	357.7						2369.8	
12.000	387.9		2440.7		4675.1		2440.7	
12.500	419.4		2638.5					
13.000	452.0		2844.1		5445.2		2844.1	
14.000	521.0		3278.3				3278.3	
15.000	595.0		3743.3				3743.3	
16.000	673.8		4239.2				4239.2	
17.000	773.1		4864.0				4864.0	
18.000	862.6		5427.1				5427.1	
*20.000	1056.3		5061.4				5061.4	

Notes: All bars are 72" in length unless otherwise noted. * 20.0" diameter is 54" long.

As-Cast Size (Inches)			Maximum Finish Size (Inches)			Full Bar Length (Inches)	As-Cast Weight/Foot (Lbs)	As-Cast Est. Weight/Bar (Lbs)
2.15	x	2.930	1.970	x	2.750	74	19.7	124.5
		2.930			2.750	144	19.7	240.8
2.25	x	3.250	2.070	x	3.070	72	22.8	140.7
		3.750			3.570	72	26.3	162.3
		4.250			4.070	72	29.8	189.0
2.55	x	2.930	2.350		2.730	74	23.3	147.6
		2.930			2.730	144	23.3	285.6
2.75	x	3.000	2.550	x	2.800	72	25.7	158.7
		4.250			4.050	72	36.5	224.9
3.25	x	4.250	3.050	x	4.050	72	43.1	265.8
		4.750			4.550	72	48.2	297.0
		5.250			5.050	72	53.2	328.3
		5.750			5.550	72	58.3	359.5
		6.250			6.050	72	63.4	390.8
3.50	x	4.550	3.300	x	4.350	72	49.7	310.5
3.75	x	4.250	3.550	x	4.050	72	49.7	306.6
		4.750			4.550	72	55.6	342.7
4.25	x	5.250	4.026	x	5.026	72	69.6	435.1
		5.750			5.526	72	76.2	476.5
		6.250			6.026	72	82.9	518.0
		6.750			6.526	72	89.5	559.4
		7.250			7.026	72	96.1	613.0
4.75	x	6.250	4.526	x	6.026	72	92.6	578.9
5.00	x	6.500	4.776	x	6.276	72	101.4	633.8
5.25	x	6.250	5.026	x	6.026	72	102.4	639.8
		7.250			7.026	72	118.8	742.2
		8.250			8.026	72	135.1	844.6
6.25	x	7.250	6.000	x	7.000	72	141.4	883.6
		8.250			8.000	72	160.9	1005.5
6.08	x	9.040	5.830	x	8.790	72	171.5	1143.2
7.25	x	8.250	7.000	x	8.000	72	186.6	1166.3
		10.250			10.000	72	231.9	1449.1
7.68		9.180	7.430	x	8.930	79	220.0	1503.1
*8.00	x	21.000	7.500	x	20.500	72	524.2	3276.0
8.25	x	10.250	8.000	x	10.000	72	263.8	1649.0
		12.250			12.000	72	315.3	1970.7
8.75	x	9.250	8.374	x	8.874	72	252.5	1578.3
		10.750			10.374	73	293.5	1858.7
9.30	x	11.500	8.924	x	11.124	79	333.7	2280.2
10.25	x	12.250	9.874	x	11.874	72	391.8	2464.8
10.34	x	13.540	9.964	x	13.164	79	436.8	3003.1
12.10	x	12.400	11.600	x	11.900	74	468.1	2945.3
12.54	x	14.540	12.040	x	14.040	72	568.9	3484.4
14.00	x	25.000	13.000	x	24.000	83	1092.0	7689.5
14.50	x	21.500	13.500	x	20.500	54	972.7	4498.6
15.50	x	17.500	14.500	x	16.500	75	846.3	5395.2
16.00	x	24.000	15.000	x	23.000	54	1198.1	5541.1
		24.000			23.000	72	1198.1	7338.2
18.50	x	22.000	17.500	x	21.000	60	1269.8	6507.9
		22.000			21.000	54	1269.8	5873.0

Note: *8.00 x 21.00 is also available in grade 80-55-06.

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As-Cast Size (Inches)			Maximum Finish Size (Inches)			Full Bar Length (Inches)	As-Cast Weight/Foot (Lbs)	As-Cast Est. Weight/Bar (Lbs)
2.180	x	2.180	2.000	x	2.000	74	14.8	91.4
2.750	x	2.750	2.570	x	2.570	144	23.6	289.0
3.250	x	3.250	3.050	x	3.050	72	33.0	203.2
3.250	x	3.250	3.050	x	3.050	144	33.0	403.7
3.750	x	3.750	3.550	x	3.550	72	43.9	270.6
4.250	x	4.250	4.026	x	4.026	72	56.4	352.2
4.710	x	4.710	4.486	x	4.486	74	69.2	444.1
5.250	x	5.250	5.026	x	5.026	72	86.0	537.5
6.250	x	6.250	6.000	x	6.000	72	121.9	761.7
6.680	x	6.680	6.430	x	6.430	74	139.2	893.3
7.250	x	7.250	7.000	x	7.000	72	164.0	1025.0
8.250	x	8.250	8.000	x	8.000	72	212.4	1327.2
9.375	x	9.375	9.000	x	9.000	72	274.2	1713.9
10.375	x	10.375	10.000	x	10.000	72	335.8	2113.0

Ductile Iron 2-Side Milled
65-45-12 • 80-55-06

Milled Dimension				Est. Weight/Bar (Lbs)	
Thick		Width	Length	65-45-12	80-55-06
7.750"	x	20.500"	x 72"	3098.1	3098.1
13.750"	x	20.750"	x 54"	4242.4	
15.500"	x	23.500"	x 54"	5256.1	

Notes: Above bars milled top and one sided, then stress relieved.

65-45-12 Milled Size				Weight/Foot (Lbs)	4-Side Milled Est. Weight/Bar (Lbs)	Dimensional Tolerances
2.030"	x	2.030"	x 72"	12.9	79.3	+/- .005"
		2.530"	x 72"	16.0	98.8	+/- .005"
		3.030"	x 72"	19.2	118.3	+/- .005"
		4.030"	x 72"	25.5	157.4	+/- .005"
2.530"	x	2.530"	x 72"	20.0	123.2	+/- .005"
3.030"	x	3.030"	x 72"	28.6	176.6	+/- .005"
		3.530"	x 72"	33.4	205.8	+/- .005"
		4.030"	x 72"	38.1	234.9	+/- .005"
		4.530"	x 72"	42.8	264.1	+/- .005"
		5.030"	x 72"	47.6	288.6	+/- .005"
		6.030"	x 72"	57.0	351.5	+/- .005"
3.530"	x	3.530"	x 72"	38.9	239.7	+/- .005"
4.030"	x	4.030"	x 72"	50.7	316.7	+/- .005"
		5.030"	x 72"	63.2	395.3	+/- .005"
		5.530"	x 72"	69.5	434.6	+/- .005"
		6.030"	x 72"	75.8	473.9	+/- .005"
		7.030"	x 72"	88.4	552.5	+.030" / -.000"
5.030"	x	5.030"	x 72"	78.9	493.4	+/- .005"
		6.030"	x 72"	94.6	591.5	+/- .005"
6.030"	x	6.030"	x 72"	113.4	709.0	+/- .005"
		7.030"	x 72"	132.3	826.6	+.030" / -.000"
		8.030"	x 72"	151.1	944.2	+.030" / -.000"
7.030"	x	7.030"	x 72"	151.2	963.7	+.030" / -.000"
8.000"	x	12.000"	x 72"	299.5	1872.0	+.030" / -.000"

Note: All dimensions are Square, Parallel and Flat within .010" within any 6" section.

Nominal Diameter (Inches)	Full Bar Length (Inches)	65-4512 - 80-55-06 Ductile Iron	
		Weight/Foot (Lbs)	Est. Wt/Bar (Lbs)
21.000	42.000	1068.0	3915.8
22.000	38.000	1171.7	3905.6
23.000	34.000	1280.2	3840.7
24.000	33.000	1393.6	4064.5
25.000	30.000	1511.7	4031.2
26.000	28.000	1634.7	4086.7

Notes: Bars are turned to the size listed +0.080"/-0.000" and cut to the length listed +2.000"/-0.000".
 Finish size is 0.250" under turned diameter. Zero Defect Guarantee does not apply to Dura-Bar XL.

Nominal Diameter (Inches)	Weight/Foot (Lbs)		G2			
			Est. Weight/Bar (Lbs)			
	A/C	C/F	6 ft Bars		12 ft Bars	
		A/C	C/F	A/C	C/F	
0.625	1.2	1.0	7.6	6.0		
0.750	1.7	1.4	10.5	8.6		
0.875	2.3	1.9	13.9	11.7		
1.000	2.9	2.5	17.8	15.3	35.3	
1.125	3.6	3.1	22.1	19.3	43.9	
1.250	4.4	3.9	26.9	23.8	53.5	
1.375	5.3	4.7	32.4	28.8	64.4	
1.500	6.2	5.6	38.2	34.2	75.9	
1.625	7.2	6.5	44.4	40.1	88.3	
1.750	8.3	7.5	51.2	46.5	101.6	
1.875	9.5	8.7	58.3	53.4	115.9	106.1
2.000	10.7	9.9	66.0	60.7	131.1	
2.125	12.2	11.1	75.5	68.6	149.9	136.2
2.250	13.6	12.5	84.2	76.8	167.2	
2.375	15.1	13.9	93.3	85.6	185.4	170.0
2.500	16.7	15.4	102.9	94.8	204.5	188.4
2.625	18.3	16.9	113.0			207.6
2.750	20.0	18.6	123.6	114.7	245.5	
2.875	21.8	20.3	134.6			249.0
3.000	23.7	22.1	146.2	136.5	290.3	
3.125	25.9	24.0	159.6		317.1	294.1
3.250	27.9	26.0	172.1		341.9	
3.375	30.0	28.0	185.1	172.6	367.7	342.9
3.500	32.2	30.1	198.6	185.6	394.5	
3.625	34.5	32.3	212.5		422.1	395.5
3.750	36.8	34.6	226.9		450.7	
4.000	41.7	39.3	260.6	245.7	514.2	
4.250	47.2	44.4	295.2		582.4	
4.375	50.0	47.1	312.2		616.1	
4.500	52.8	49.8	329.7		650.7	
4.750	58.6	55.5	366.2		722.7	
5.000	64.7		404.6		798.5	
5.250	71.6		447.4			
5.500	78.4		489.8		966.5	
5.750	85.4		534.0			
6.000	92.8		580.2		1144.9	
6.250	101.0		631.2			
6.500	109.0		681.4		1344.6	
6.750	117.3		733.4			
7.000	126.0		787.3		1553.7	
7.250	135.6		847.8			
7.500	144.9		905.7			
7.750	154.5		965.5		1905.3	

Notes: All bars are 72" in length unless otherwise noted.

CONTINUED

Nominal Diameter (Inches)	Weight/Foot (Lbs)		G2			
			Est. Weight/Bar (Lbs)			
	A/C	C/F	6 ft Bars		12 ft Bars	
		A/C	C/F	A/C	C/F	
8.000	164.4		1027.3		2027.2	
8.250	175.6		1097.7			
8.500	186.2		1163.5			
8.750	197.0		1231.2			
9.000	208.1		1300.8		2566.9	
9.250	221.3		1383.4			
9.500	233.1		1457.1			
10.000	257.7		1610.3		3177.7	
10.250	277.9		1748.7			
10.500	291.1		1831.7			
11.000	318.5		2003.6			
*11.500	357.7		2369.8			
12.000	387.9		2440.7			
12.500	419.4		2638.5			
13.000	452.0		2844.1			
14.000	521.1		3278.3			
15.000	595.0		3743.3			
16.000	673.8		4239.2			
17.000	773.1		4864.0			
18.000	862.6		5427.1			
** 19.000	957.0		4585.6			
***20.000	1056.3		5061.4			

Notes: All bars are 72" in length unless otherwise noted. *11.500"= 76" length, **19.000"= 54" length, ***20.000"= 54" length

Nominal Diameter (Inches)	G2 Gray Iron		
	Full Bar Length (Inches)	Weight/Foot (Lbs)	Est. Wt/Bar (Lbs)
21.000	42.000	1088.9	3992.6
22.000	38.000	1194.7	3982.2
23.000	34.000	1305.3	3916.0
24.000	33.000	1420.9	4144.2
25.000	30.000	1541.3	4110.3
26.000	28.000	1666.7	4166.8

Notes: Bars are turned to the size listed +0.080"/ -0.000" and cut to the length listed +2.000" / -0.000".
 Zero Defect Guarantee does not apply to Dura-Bar XL.

Nominal Size (Inches)			As-Cast Weight/Foot (Lbs)	As-Cast Est. Weight/Bar (Lbs)
OD	x	ID		
3.500	x	1.500	28.4	174.8
4.000	x	2.000	34.2	213.4
4.500	x	2.500	40.4	251.9
5.000	x	2.000	57.2	357.5
		3.000	46.2	288.4
5.500	x	2.500	66.0	411.9
		3.500	52.5	327.5
6.000	x	2.000	85.3	533.0
		3.000	74.3	464.0
		4.000	58.4	364.3
6.500	x	3.500	83.1	519.1
		4.500	64.8	403.8
7.000	x	3.000	107.4	671.1
		4.000	91.5	571.4
		5.000	70.7	440.7
8.000	x	3.000	145.8	911.0
		6.000	86.3	519.6
9.000	x	7.000	96.5	601.4

Notes: All full bar tube lengths are 72". Other OD / ID combinations can be made.
 For more information, please contact your Dura-Bar Metal Services Account Manager.

As-Cast Size (Inches)			Maximum Finish Size (Inches)			As-Cast Weight/Foot (Lbs)	As-Cast Est. Weight/Bar (Lbs)										
0.750	x	1.500	0.550	x	1.300	3.5	21.6										
1.250	x	2.250	1.070	x	2.070	8.8	54.1										
		3.250						12.7	78.2								
		4.250								16.6	105.0						
		5.250										20.5	126.3				
		6.250												24.4	156.0		
0.874	x	5.874															
1.500	x	2.250	1.320	x	2.070	10.5	64.9										
		4.250						1.300	x	4.050	19.9					126.0	
		6.250										1.250	x				6.000
1.750	x	4.250	1.550	x	4.050	23.2	143.1										
		6.250						1.500	x	6.000	34.1			216.0			
2.250	x	3.250	2.070	x	3.070	22.8	140.7										
		4.250						4.070	29.8	184.0							
		5.250									2.050	x	5.050	36.9	227.3		
		6.250														6.050	43.9
2.500	x	3.250	2.320	x	3.070	25.4	160.0										
		4.250						4.070	33.2	204.4							
		6.250									2.300	x	6.050	48.8	300.6		
		8.250														2.250	x
2.750	x	3.500	2.550	x	3.300	30.0	185.2										
		4.250						4.050	36.5	224.9							
3.250	x	4.250	3.050	x	4.050	43.1	271.0										
		6.250						6.050	63.4	390.8							
4.250	x	5.250	4.026	x	5.026	69.6	444.0										
		6.250						6.026	82.9	528.0							
5.250	x	6.250	5.026	x	6.026	102.4	639.8										
8.000	x	21.000	7.500	x	20.500	524.2	3276.0										
14.000	x	25.000	13.000	x	24.000	1092.0	6870.5										
14.500	x	21.500	13.500	x	20.500	972.7	6119.7										

Notes: All bars are 72" in length.

As-Cast Size (Inches)			Maximum Finish Size (Inches)			Full Bar Length (Inches)	As-Cast Weight/Foot (Lbs)	As-Cast Est. Weight/Bar (Lbs)
1.500	x	1.500	1.320	x	1.320	72	7.0	43.3
2.250	x	2.250	2.070	x	2.070	72	15.8	97.4
2.500	x	2.500	2.320	x	2.320	72	19.5	123.0
3.000	x	3.000	2.800	x	2.800	72	28.1	177.0
3.250	x	3.250	3.050	x	3.050	72	33.0	203.2
4.250	x	4.250	4.026	x	4.026	72	56.4	352.2
5.250	x	5.250	5.026	x	5.026	72	86.0	548.0
6.250	x	6.250	6.000	x	6.000	72	121.9	761.7
7.250	x	7.250	7.000	x	7.000	72	164.0	1025.0
8.250	x	8.250	8.000	x	8.000	72	212.4	1327.2
9.250	x	9.250	8.874	x	8.874	72	267.0	1668.5
10.250	x	10.250	9.874	x	9.874	72	327.8	2062.4
12.250	x	12.250	11.750	x	11.750	72	468.2	2945.7

Gray Iron 2 Side Milled
G2

Milled Dimension			Est. Weight / Bar (Lbs)
Thick	Width	Length	G2
7.750"	x 20.500"	x 72"	3098.1

Notes: Above bars milled top and one side, then stress relieved.

Nominal Diameter (Inches)	Stock Condition	Weight/Foot (Lbs)	Ni-Resist Est. Weight/Bar (Lbs)
1.000	Cold Finished	2.5	15.6
1.250	Cold Finished	3.9	24.3
1.500	Cold Finished	5.7	34.9
1.625	Cold Finished	6.6	40.9
1.750	Cold Finished	7.7	47.4
2.000	Cold Finished	10.0	61.9
2.125	Cold Finished	11.3	69.9
2.250	Cold Finished	12.7	78.3
2.500	Cold Finished	15.7	96.6
2.750	Cold Finished	19.0	116.9
3.000	Cold Finished	22.6	139.1
3.250	Cold Finished	26.5	163.2
3.500	Cold Finished	30.7	189.2
3.750	Cold Finished	35.2	217.2
4.000	Cold Finished	40.1	250.4
4.500	As Cast	53.8	336.1
5.000	As Cast	66.0	412.4
5.500	As Cast	79.9	499.2
6.000	As Cast	94.6	591.4

All bars are 72" length.

Dimensional Tolerances for As-Cast Round Bars
Stock Allowances (Inches)

Nominal Diameter (Inches)	Gray Iron	Ductile Iron & Ni-Resist	Stock Allowance Variation (+/-) all Metal Specs
0.750 - 1.250	0.085	0.085	0.017
1.251 - 2.000	0.090	0.095	0.024
2.001 - 3.000	0.110	0.118	0.030
3.001 - 4.000	0.125	0.136	0.038
4.001 - 5.000	0.140	0.154	0.048
5.001 - 6.000	0.155	0.172	0.055
6.001 - 7.000	0.170	0.190	0.062
7.001 - 8.000	0.190	0.213	0.085
8.001 - 9.000	0.216	0.242	0.108
9.001 - 10.000	0.254	0.432	0.129
10.001 - 11.000	0.400	0.623	0.150
11.001 - 16.000	0.582	0.623	0.206
16.001 - 18.000	0.762	0.815	0.262
18.001 - 20.000	0.762	0.819	0.262

Cold-Finished Tolerances

Nominal Length (Inches)	Bar Diameter (Inches)	Cold-Finished Tolerances (Inches)
72	0.750 - 4.00	+0.010 / -0.000
72	4.001 - 6.00	+0.015 / -0.000
144	0.750 - 3.00	+0.010 / -0.000
144	3.001 - 4.00	+0.015 / -0.000

Cold-finished bars in sizes 1.000" through 5.000" can be centerless turned. All others available are centerless ground. Centerless turning tolerance is +0.003 / +0.008.

Straightness Specification

Bend-and-bow tolerance is 1/8" per 6' section.



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