

## CASE HARDENED LINEAR SHAFTING

### Carbon (1060) English Sizes

Nominal Diameter	Tolerance				Weight Per Inch	Surface Hardness	Depth of Hardness	Bar Lengths
	Grade 1 (L)	Grade 2 (S)	Grade 3 (S)	Grade 4 (D)				
1/4	.2495 / .2490	.2490 / .2485			.014	60/65 RC	.040	144"
3/8	.3745 / .3740	.3740 / .3735			.031	60/65 RC	.040	144"
1/2	.4995 / .4990	.4990 / .4985	.5000 / .4998		.055	60/65 RC	.060	184"
5/8	.6245 / .6240	.6240 / .6235	.6250 / .6248		.070	60/65 RC	.060	184"
3/4	.7495 / .7490	.7490 / .7485	.7500 / .7498		.125	60/65 RC	.060	184"
7/8	.8745 / .8740				.170	60/65 RC	.060	208"
1	.9995 / .9990	.9990 / .9985	1.0000 / .9998		.222	60/65 RC	.080	208"
1-1/8	1.1245 / 1.1240				.282	60/65 RC	.080	208"
1-1/4	1.2495 / 1.2490	1.2490 / 1.2485	1.2500 / 1.2498		.348	60/65 RC	.080	208"
1-3/8	1.3745 / 1.3740				.421	60/65 RC	.080	208"
1-1/2	1.4994 / 1.4989	1.4989 / 1.4984	1.5000 / 1.4997		.500	60/65 RC	.080	208"
1-3/4	1.7495 / 1.7490				.681	60/65 RC	.100	208"
2	1.9994 / 1.9987	1.9987 / 1.9980	2.0000 / 1.9997	2.0000 / 2.0003	.890	60/65 RC	.100	208"
2-1/4	2.2493 / 2.2486				1.127	60/65 RC	.100	208"
2-1/2	2.4993 / 2.4985	2.4985 / 2.4997			1.392	60/65 RC	.100	208"
3	2.9992 / 2.9983	2.9983 / 2.9974	3.0000 / 2.9996		2.004	60/65 RC	.100	208"
3-1/2	3.4990 / 3.4980				2.728	60/65 RC	.100	208"
4	3.9988 / 3.9976	3.9976 / 3.9964			3.565	60/65 RC	.100	208"

### Carbon (1060) Metric Sizes

Nominal Diameter	Tolerance		Weight Per Inch	Surface Hardness	Depth of Hardness	Bar Lengths
	Grade M					
6	.2362 / .2358		.012	60/65 RC	.040	144"
8	.3150 / .3146		.022	60/65 RC	.040	144"
10	.3937 / .3933		.035	60/65 RC	.040	144"
12	.4724 / .4720		.050	60/65 RC	.060	184"
14	.5512 / .5508		.069	60/65 RC	.060	184"
16	.6299 / .6295		.088	60/65 RC	.060	184"
18	.7087 / .7083		.112	60/65 RC	.060	184"
20	.7874 / .7869		.138	60/65 RC	.080	184"
25	.9843 / .9838		.216	60/65 RC	.080	208"
30	1.1811 / 1.1806		.311	60/65 RC	.080	208"
32	1.2598 / 1.2593		.349	60/65 RC	.080	208"
35	1.3780 / 1.3775		.417	60/65 RC	.080	208"
40	1.5748 / 1.5743		.553	60/65 RC	.080	208"
45	1.7717 / 1.7710		.698	60/65 RC	.100	208"
50	1.9685 / 1.9679		.864	60/65 RC	.100	208"
60	2.3622 / 2.3615		1.240	60/65 RC	.100	208"
63	2.4803 / 2.4799		1.343	60/65 RC	.100	208"
80	3.1496 / 3.1489		2.210	60/65 RC	.100	208"
100	3.9370 / 3.9363		3.397	60/65 RC	.100	208"