



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 (N)	GRADE 4 (D)				
1/4	.2495 / .2490	.2490 / .2485			.014	60/65 R.C.	.040	144"
3/8	.3745 / .3740	.3740 / .3735			.031	60/65 R.C.	.040	144"
1/2	.4995 / .4990	.4990 / .4985	.5000 / .4998		.055	60/65 R.C.	.060	184"
5/8	.6245 / .6240	.6240 / .6235	.6250 / .6248		.070	60/65 R.C.	.060	184"
3/4	.7495 / .7490	.7490 / .7485	.7500 / .7498		.125	60/65 R.C.	.060	184"
7/8	.8745 / .8740				.170	60/65 R.C.	.060	208"
1	.9995 / .9990	.9990 / .9985	1.0000 / .9998		.222	60/65 R.C.	.080	208"
1-1/8	1.1245 / 1.1240				.282	60/65 R.C.	.080	208"
1-1/4	1.2495 / 1.2490	1.2490 / 1.2485	1.2500 / 1.2498		.348	60/65 R.C.	.080	208"
1-3/8	1.3745 / 1.3740				.421	60/65 R.C.	.080	208"
1-1/2	1.4994 / 1.4989	1.4989 / 1.4984	1.5000 / 1.4997		.500	60/65 R.C.	.080	208"
1-3/4	1.7495 / 1.7490				.681	60/65 R.C.	.100	208"
2	1.9994 / 1.9987	1.9987 / 1.9980	2.0000 / 1.9997	2.0000 / 2.0003	.890	60/65 R.C.	.100	208"
2-1/4	2.2493 / 2.2486				1.127	60/65 R.C.	.100	208"
2-1/2	2.4993 / 2.4985	2.4985 / 2.4977			1.392	60/65 R.C.	.100	208"
3	2.9992 / 2.9983	2.9983 / 2.9974	3.0000 / 2.9996		2.004	60/65 R.C.	.100	208"
3-1/2	3.4990 / 3.4980				2.728	60/65 R.C.	.100	208"
4	3.9988 / 3.9976	3.9976 / 3.9964			3.565	60/65 R.C.	.100	208"

Carbon (1060) Metric Sizes

METRIC DIAMETER	GRADE M	TOLERANCE	WEIGHT PER INCH	SURFACE HARDNESS	HARDNESS	BAR LENGTHS
8	.3150 / .3146		.022	60/65 R.C.	.040	144"
10	.3937 / .3933		.035	60/65 R.C.	.040	144"
12	.4724 / .4720		.050	60/65 R.C.	.060	184"
14	.5512 / .5508		.069	60/65 R.C.	.060	184"
16	.6299 / .6295		.088	60/65 R.C.	.060	184"
18	.7087 / .7083		.112	60/65 R.C.	.060	184"
20	.7874 / .7869		.138	60/65 R.C.	.060	184"
25	.9843 / .9838		.216	60/65 R.C.	.080	208"
30	1.1811 / 1.1806		.311	60/65 R.C.	.080	208"
32	1.2598 / 1.2593		.349	60/65 R.C.	.081	208"
35	1.3780 / 1.3775		.417	60/65 R.C.	.082	208"
40	1.5748 / 1.5743		.553	60/65 R.C.	.080	208"
45	1.7717 / 1.7710		.698	60/65 R.C.	.080	208"
50	1.9685 / 1.9679		.864	60/65 R.C.	.100	208"
60	2.3622 / 2.3615		1.240	60/65 R.C.	.100	208"
63	2.4803 / 2.4799		1.343	60/65 R.C.	.100	208"
80	3.1496 / 3.1489		2.210	60/65 R.C.	.100	208"
100	3.9370 / 3.9363		3.397	60/65 R.C.	.100	208"

The specifications and data in this publication are believed to be accurate and reliable. However, it is the responsibility of the user to determine the suitability of the product for a specific application. While defective product will be replaced without charge, no liability is assumed beyond such replacement.





CASE HARDENED LINEAR SHAFTING

Stainless (440C) English Sizes

NOMINAL DIAMETER	TOLERANCE		WEIGHT PER/INCH	SURFACE HARDNESS	DEPTH OF HARDNESS	BAR LENGTHS
	S.S. GR-1(L)	S.S. GR-2 (S)				
1/2	.4995 / .4990	.4990 / .4985	.055	50/550R.C	.060	184"
5/8	.6245 / .6240	.6240 / .6235	.086	50/550R.C	.060	184"
3/4	.7495 / .7490	.7490 / .7485	.125	50/550R.C	.060	184"
1	.9995 / .9990	.9990 / .9985	.222	50/550R.C	.080	208"
1-1/4	1.2495 / 1.2490	1.2490 / 1.2485	.348	50/550R.C	.080	208"
1-1/2	1.4994 / 1.4989	1.4989 / 1.4984	.500	50/550R.C	.080	208"
2	1.9994 / 1.9987	1.9987 / 1.9980	.890	50/550R.C	.100	208"

Diamond Case Linear Shafting Specifications:

- ◆ **Material-** 1060 or 440C stainless.
- ◆ **Dimensional Tolerance-** See previous page.
- ◆ **Roundness-** Superior.
- ◆ **Cylindricity-** High.
- ◆ **Straightness-** .001/.002 TIR cumulative.
- ◆ **Surface Finish-** 8 RMS or better.
- ◆ **Case Hardness-** See previous page.
- ◆ **Depth of Hardness-** See previous page.

Diamond Case Linear Shafting Deliverables:

- ◆ World class quality.
- ◆ Delivery performance second to none.
- ◆ Virtually all orders shipped same or next day.
- ◆ Customer service requests answered immediately.
- ◆ No need to wait for your answers.
- ◆ ISO 9001:2000

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