

LINEAR SHAFT AVAILABILITY

	WZ Series (Carbon Steel – Case hardened)	WRBZ Series (Stainless Steel)	WVZ Series (Carbon Steel – Case hardened and Chrome Plated)
Material	Carbon steel (Ck55 or Cf53)	Stainless steel (440C equivalent or X46Cr13)	Carbon steel (Ck55 or Cf53)
Surface hardness	HRc 60 – 64	HRc 55 – 60	HRc 60 – 64
Case hardened depth	0.030 to 0.098 inch (Depending on shaft OD)	0.030 to 0.098 inch (Depending on shaft OD)	0.030 to 0.098 inch (Depending on shaft OD)
Hard Chrome plated	-	-	HRc 60 - 65
Shaft OD surface finish	8 Ra Max	8 Ra Max	8 Ra Max
Straightness	0.001" per foot cumulative (0.002" TIR)	0.001" per foot cumulative (0.002" TIR)	0.001" per foot cumulative (0.002" TIR)
Roundness	0.0001 max	0.0001 max	0.0001 max

Also available upon requested

- Cut-to-length per customer requirements
- Additional machining operations or custom designed shafting can be manufactured per specific customer or application requirements
- Extra deep case hardened per customer requirements
- Hollow shaft with OD larger than ½ inch (~12 mm)



WZ Series - Carbon Steel

Nominal Diameter (in)	Basic Part Number	Diameter Tolerance per Class "L" (in)	Weight per inch (lb)	Max. Length (in)
1/4	WZ 1/4 L	0.2495 / 0.2490	0.014	94
3/8	WZ 3/8 L	0.3745 / 0.3740	0.031	166
1/2	WZ 1/2 L	0.4995 / 0.4990	0.055	166
5/8	WZ 5/8 L	0.6245 / 0.6240	0.086	202
3/4	WZ 3/4 L	0.7495 / 0.7490	0.125	202
1	WZ 1 L	0.9995 / 0.9990	0.222	202
1¼	WZ 1¼ L	1.1245 / 1.1240	0.348	202
1½	WZ 1½ L	1.4994 / 1.4989	0.500	202
2	WZ 2 L	1.9994 / 1.9987	0.890	202

WRBZ Series - Stainless Steel

Nominal Diameter (in)	Basic Part Number	Diameter Tolerance per Class "L" (in)	Weight per inch (lb)	Max. Length (in)
1/4	WRBZ 1/4 L	0.2495 / 0.2490	0.014	94
3/8	WRBZ 3/8 L	0.3745 / 0.3740	0.031	166
1/2	WRBZ 1/2 L	0.4995 / 0.4990	0.055	166
5/8	WRBZ 5/8 L	0.6245 / 0.6240	0.086	202
3/4	WRBZ 3/4 L	0.7495 / 0.7490	0.125	202
1	WRBZ 1 L	0.9995 / 0.9990	0.222	202
1¼	WRBZ 1¼ L	1.1245 / 1.1240	0.348	202
1½	WRBZ 1½ L	1.4994 / 1.4989	0.500	202
2	WRBZ 2 L	1.9994 / 1.9987	0.890	202

WVZ Series - Carbon Steel - Chrome Plated

Nominal Diameter (in)	Basic Part Number	Diameter Tolerance per Class "L" (in)	Weight per inch (lb)	Max. Length (in)
1/4	WVZ 1/4 L	0.2495 / 0.2490	0.014	94
3/8	WVZ 3/8 L	0.3745 / 0.3740	0.031	166
1/2	WVZ 1/2 L	0.4995 / 0.4990	0.055	166
5/8	WVZ 5/8 L	0.6245 / 0.6240	0.086	202
3/4	WVZ 3/4 L	0.7495 / 0.7490	0.125	202
1	WVZ 1 L	0.9995 / 0.9990	0.222	202
1¼	WVZ 1¼ L	1.1245 / 1.1240	0.348	202
1½	WVZ 1½ L	1.4994 / 1.4989	0.500	202
2	WVZ 2 L	1.9994 / 1.9987	0.890	202

W Series - Carbon Steel

Nominal Diameter (mm)	Basic Part Number	Diameter Tolerance per Class "h7" (mm)	Diameter Tolerance per Class "h7" (in)	Weight per m (kg)	Weight per inch (lb)	Max. Length (m)	Max. Length (in)
6	W 6	6.00 / 5.99	0.2362 / 0.2358	0.230	0.013	1905	54
8	W 8	8.00 / 7.99	0.3150 / 0.3146	0.39	0.022	4216	166
10	W 10	10.00 / 9.99	0.3937 / 0.3932	0.63	0.035	4216	166
12	W 12	12.00 / 11.99	0.4724 / 0.4720	0.89	0.050	4216	166
13	W 13	13.00 / 12.99	0.5118 / 0.5114	1.04	0.058	4216	166
16	W 16	16.00 / 15.99	0.6299 / 0.6295	1.57	0.880	4521	202
20	W 20	20.00 / 19.99	0.7874 / 0.7869	2.47	0.138	4521	202
25	W 25	25.00 / 24.99	0.9843 / 0.9838	3.87	0.216	4521	202
30	W 30	30.00 / 29.99	1.1811 / 1.1806	5.57	0.311	4521	202
35	W 35	35.00 / 34.99	1.3780 / 1.3776	7.55	0.422	4521	202
40	W 40	40.00 / 39.99	1.5748 / 1.5743	9.90	0.553	4521	202
50	W 50	50.00 / 49.98	1.9685 / 1.9679	15.46	0.864	4521	202
60	W 60	60.00 / 59.98	2.3622 / 2.3615	22.19	1.240	4521	202
80	W 80	80.00 / 79.97	3.1496 / 3.1486	39.55	2.210	4521	202

Note: Also available in Stainless Steel (WRB) and Chrome Plated (WV)