

**POWERTRAX™ HG
GROUND & HARDENED SHAFTING**

Nook PowerTrax™ HG Shafting, made from high quality alloy steel, is manufactured and stocked for immediate shipment in our Cleveland, Ohio facility, in diameters from 5 to 80mm and 1/4 to 4 inches. Stainless Steel shafting is available from 1/4 thru 2 inch diameter.

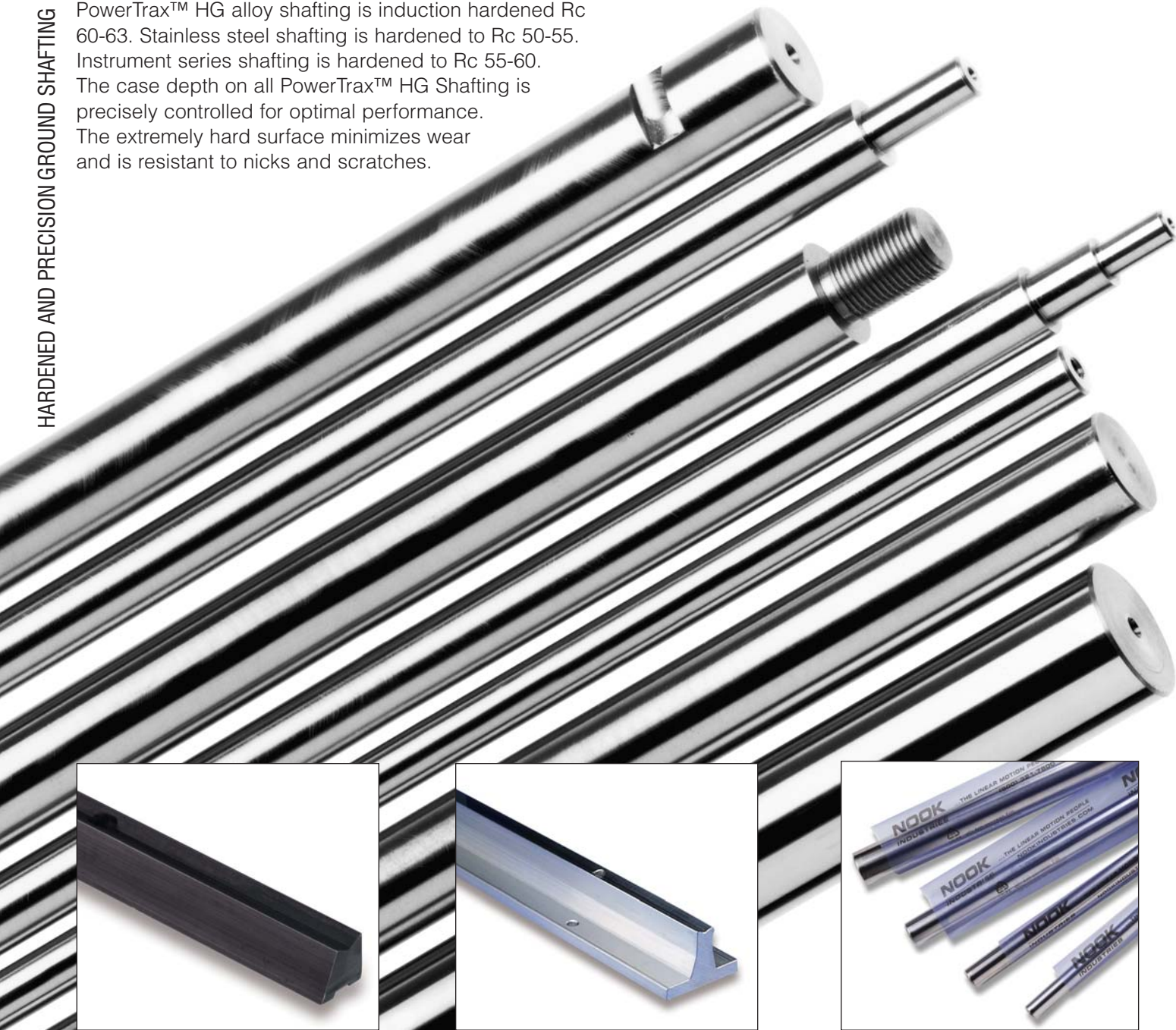
Standard diameters can be cut to your specified length and shipped within 24 hours of receipt of your order. Contact Nook Industries, Inc. for availability of special diameters.

CASE HARDNESS

PowerTrax™ HG alloy shafting is induction hardened Rc 60-63. Stainless steel shafting is hardened to Rc 50-55. Instrument series shafting is hardened to Rc 55-60. The case depth on all PowerTrax™ HG Shafting is precisely controlled for optimal performance. The extremely hard surface minimizes wear and is resistant to nicks and scratches.



HARDENED AND PRECISION GROUND SHAFTING





LINEAR SHAFTING

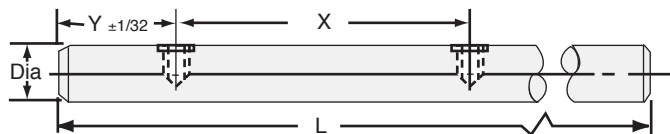
PART NUMBER	NOMINAL DIAMETER (inches)	TOLERANCES CLASS "L" DIAMETER (inches)	MAXIMUM LENGTH (feet)	MINIMUM DEPTH OF HARDNESS (inches)	WEIGHT PER INCH OF LENGTH (pounds)
L-1/4*	1/4	.2495/.2490	10 (12)*	.030	.014
L-3/8*	3/8	.3745/.3740	10 (12)*	.030	.03
L-1/2*	1/2	.4995/.4990	18 (12)*	.050	.06
L-5/8*	5/8	.6245/.6240	18 (12)*	.050	.09
L-3/4*	3/4	.7495/.7490	18 (12)*	.060	.13
L-1*	1	.9995/.9990	18 (12)*	.080	.22
L-1-1/4	1-1/4	1.2495/1.2490	18 (12)*	.080	.35
L-1-1/2	1-1/2	1.4994/1.4989	18 (12)*	.080	.50
L-2	2	1.9994/1.9987	18 (12)*	.100	.89
L-2-1/2	2-1/2	2.4993/2.4985	18	.100	1.39
L-3	3	2.9992/2.9983	18	.100	2.00
L-4	4	3.9988/3.9976	18	.100	3.56

* Available in 440C stainless steel. For longer lengths contact Nook Industries.

PRE-DRILLED AND TAPPED LINEAR SHAFTING

PART NUMBER	NOMINAL DIAMETER (inches)	TOLERANCES CLASS "L" DIAMETER (inches)	HOLE SPACING (inches)		THREAD SIZE	WEIGHT PER INCH OF LENGTH (pounds)	MAXIMUM LENGTH (feet)
			X	Y			
PDL 1/2*	1/2	.4995/.4990	4	2	6-32	.06	12
PDL 5/8*	5/8	.6245/.6240	4	2	8-32	.09	12
PDL 3/4*	3/4	.7495/.7490	6	3	10-32	.13	12
PDL 1*	1	.9995/.9990	6	3	1/4-20	.22	12
PDL 1-1/4	1-1/4	1.2495/1.2490	6	3	5/16-18	.35	12
PDL 1-1/2	1-1/2	1.4994/1.4989	8	4	3/8-16	.50	12
PDL 2	2	1.9994/1.9987	8	4	1/2-13	.89	12

Holes are drilled and tapped to center of shaft. For different hole spacing contact Nook Industries.



HARDENED AND PRECISION GROUND SHAFTING TECHNICAL DATA



Precut and Packaged Stock Length Shafting

- 1/2" to 1-1/2" diameters from 6" to 72" in length
- Precision center-less ground to 14 microinches rms surface finish or better
- 3 Materials to choose from:
 - Alloy Steel hardened to Rc 60
 - Stainless Steel hardened to Rc 50-55
 - Chrome-plated Alloy Steel
- Straightness: 0.001"/foot accumulative
- Cut length tolerance $\pm 0.032"$
- End cut perpendicularity $\pm 0.032"$
- Meets or exceeds specifications required by all other linear bearing manufacturers
- Packaged in VCI anti-corrosion protective sleeve
- Stocked for Immediate Availability
- Non-precision chamfered ends

NS - 1 1/2 - L / SS / 18

DIAMETER

Available Diameters

Part#	Dia.	Part#	Dia.	Part#	Dia.
1/4-L	= 1/4"	5/8-L	= 5/8"	1 1/4-L	= 1 1/4"
3/8-L	= 3/8"	3/4-L	= 3/4"	1 1/2-L	= 1 1/2"
1/2-L	= 1/2"	1-L	= 1"		

MATERIAL

HC = High Carbon Alloy Steel Heat Treated to Rc 60
 SS = Stainless Steel - 440C
 CP = Chrome Plated Alloy

OVERALL LENGTH

OAL tolerances will be $\pm 0.010"$

Part #	Length	Part #	Length	Part #	Length
6	= 6"	24	= 24"	48	= 48"
12	= 12"	30	= 30"	60	= 60"
18	= 18"	36	= 36"	72	= 72"

NOOK SHAFT PRECUT STOCKED LINEAR SHAFTING				
NOMINAL DIAMETER (inches)	STOCK LENGTHS (inches)	TOLERANCES CLASS "L" DIAMETER (inches)	MINIMUM DEPTH OF HARDNESS (inches)	WEIGHT PER INCH OF LENGTH (pounds)
1/4	6, 12, 18, 24, 30, 36, 48, 60	.2495/.2490	.030	.014
3/8	6, 12, 18, 24, 36, 48, 60	.3745/.3740	.030	.031
1/2	12, 18, 24, 30, 36, 42, 48, 60	.4995/.4990	.050	.055
5/8	12, 18, 24, 30, 36, 42, 48, 54, 60	.6245/.6240	.050	.086
3/4	12, 18, 24, 30, 36, 42, 48, 54, 60	.7495/.7490	.060	.125
1	18, 24, 30, 36, 42, 48, 54, 60, 72	.9995/.9990	.080	.222
1-1/4	18, 24, 30, 36, 42, 48, 54, 60, 72	1.2495/1.2490	.080	.348
1-1/2	18, 24, 36, 48, 54, 60, 72	1.4994/1.4989	.080	.500