

IDA Motion, Inc. offers precision ground linear shafting case hardened to 60 - 65 HRC. Comparable to Thomson™ Class L shafting, the durable IDA linear shafting is ideal for use with self-aligning ball bearing and pillow block assemblies to maintain accuracy and continuous, long life.

Our customers love options!! Which is why we offer a variety of machining options! Whether as simple and standard threaded or tapped ends or as complex as steps, slots or keyways, IDA CNC machining does it all!

*Thomson is a common law trademark of Thomson Industries, Inc.

PRECISION HARDENED LINEAR SHAFTING

Part Number	Nominal Shaft Diameter	Diameter Tolerance (in.)	Weight (lbs./in.)	Standard Stocked Lengths*	
PGLS04-XX-I	1/4"	0.2495/0.2490	0.014	3", 4", 5", 6", 7", 8", 9", 10", 12", 14", 15", 16", 18", 20", 24", 30", 36", 42", 48", 60", 72", 84", 96"	
PGLS06-XX-I	3/8"	0.3745/0.3740	0.031	3", 4", 5", 6", 7", 8", 9", 10", 12", 14", 15", 16", 18", 20", 24", 30", 36", 42", 48", 60", 72", 84", 96"	
PGLS08-XX-I	1/2"	0.4995/0.4990	0.055	3", 4", 5", 6", 7", 8", 9", 10", 12", 14", 15", 16", 18", 20", 24", 30", 36", 42", 48", 60", 72", 84", 96"	
PGLS10-XX-I	5/8"	0.6245/0.6240	0.086	3", 4", 5", 6", 7", 8", 9", 10", 12", 14", 15", 16", 18", 20", 24", 30", 36", 42", 48", 60", 72", 84", 96"	
PGLS12-XX-I	3/4"	0.7495/0.7490	0.125	3", 4", 5", 6", 7", 8", 9", 10", 12", 14", 15", 16", 18", 20", 24", 30", 36", 42", 48", 60", 72", 84", 96"	
PGLS14-XX-I	7/8"	0.8745/0.8740	0.170	3", 4", 5", 6", 7", 8", 9", 10", 12", 14", 15", 16", 18", 20", 24", 30", 36", 42", 48", 60", 72", 84", 96"	
PGLS16-XX-I	1"	0.9995/0.9990	0.222	3", 4", 5", 6", 7", 8", 9", 10", 12", 14", 15", 16", 18", 20", 24", 30", 36", 42", 48", 60", 72", 84", 96"	
PGLS20-XX-I	1-1/4"	1.2495/1.2490	0.348	3", 4", 5", 6", 7", 8", 9", 10", 12", 14", 15", 16", 18", 20", 24", 30", 36", 42", 48", 60", 72", 84", 96"	
PGLS24-XX-I	1-1/2"	1.4994/1.4989	0.500	3", 4", 5", 6", 7", 8", 9", 10", 12", 14", 15", 16", 18", 20", 24", 30", 36", 42", 48", 60", 72", 84", 96"	
PGLS32-XX-I	2"	1.9994/1.9987	0.890	3", 4", 5", 6", 7", 8", 9", 10", 12", 14", 15", 16", 18", 20", 24", 30", 36", 42", 48", 60", 72", 84", 96"	
PGLS40-XX-I	2-1/2"	2.4993/2.4985	1.391	Consult Factory	
PGLS48-XX-I	3"	2.9992/2.9983	2.003	Consult Factory	
PGLS64-XX-I	4"	3.9988/3.9976	3.560	Consult Factory	

*Custom lengths available. Please contact our factory: 815-227-9010 or sales@idamotion.com

SPECIFICATIONS

Material: 1060 Case Hardened Steel or 440C Case Hardened Stainless Steel

Optional - Armoloy TDC® coating on 1060 steel provides corrosion resistance up to 78 HRC

Hardness: 60-65 HRC (1060 Steel) / 50-60 HRC (440 C Stainless Steel)

Min. Hardness Depth: 0.027" – 0.100", depending on nominal diameter

Straightness: 0.002" per foot

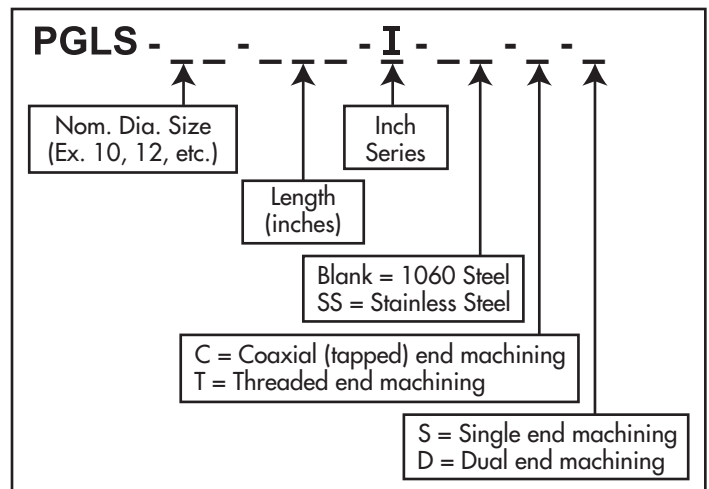
Finish: 8-12 rms (polished surface)

1060 Steel Nominal Diameter Sizes: 1/4" – 4", 1060 and 10 mm – 80 mm (metric available upon request)

Stainless Steel Nominal Diameter Sizes: 1/4" – 2-1/2"

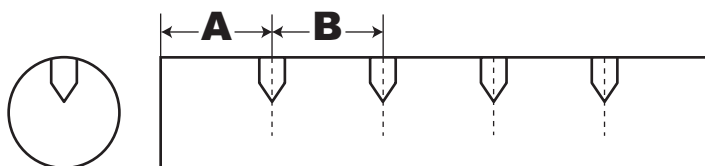
*Armoloy TDC is a registered trademark of the Armoloy Corporation

ORDERING GUIDE



MACHINED LINEAR SHAFTING

PRE-DRILLED LINEAR SHAFTING (1060 Hardened Steel and 440C Stainless Steel)



Nominal Shaft Diameter	Hole Type x Depth	A*	B*	Standard Stocked Lengths*
1/2"	6-32 x 1/4"	2"	4"	12", 24", 48", 72" and 96" (Max. length 186")
5/8"	8-32 x 5/16"	2"	4"	12", 24", 48", 72" and 96" (Max. length 189")
3/4"	10-32 x 3/8"	3"	6"	12", 24", 48", 72" and 96" (Max. length 186")
1"	1/4"-20 x 1/2"	3"	6"	12", 24", 48", 72" and 96" (Max. length 208")
1-1/4"	5/16"-18 x 5/8"	3"	6"	12", 24", 48", 72" and 96" (Max. length 210")
1-1/2"	3/8"-16 x 3/4"	4"	8"	12", 24", 48", 72" and 96" (Max. length 208")

*Custom lengths available. Please contact our factory: 815-227-9010 or sales@idamotion.com

END MACHINED LINEAR SHAFTING

SINGLE AND DOUBLE TAPPED END (s) LINEAR SHAFTING (1060 Hardened Steel and 440C Stainless Steel)*



Nominal Shaft Diameter	Hole Type x Depth	Standard Stocked Lengths
3/8"	8-32 x 21/64"	6", 8", 9", 10", 12", 18", 24", and 36" (call for custom length)
1/2"	1/4"-20 x 1/2"	6", 8", 9", 10", 12", 18", 24", and 36" (call for custom length)
5/8"	1/4"-20 x 1/2"	6", 8", 9", 10", 12", 18", 24", and 36" (call for custom length)
3/4"	5/16"-18 x 5/8"	6", 8", 9", 10", 12", 18", 24", and 36" (call for custom length)
1"	3/8"-16 x 3/4"	6", 8", 9", 10", 12", 18", 24", and 36" (call for custom length)
1-1/4"	1/2"-13 x 1"	6", 8", 9", 10", 12", 18", 24", and 36" (call for custom length)

*All sizes and lengths available with one or both ends tapped

SINGLE AND DOUBLE THREADED END (s) LINEAR SHAFTING (1060 Hardened Steel and 440C Stainless Steel)*



Nominal Shaft Diameter	Thread Type (UNC 2A) x Min. Length	Standard Stocked Travel Lengths
3/8"	1/4"-20 x 5/16"	6", 8", 9", 10", 12", 18", 24", and 36" (call for custom length)
1/2"	5/16"-18 x 25/64"	6", 8", 9", 10", 12", 18", 24", and 36" (call for custom length)
5/8"	3/8"-16 x 15/32"	6", 8", 9", 10", 12", 18", 24", and 36" (call for custom length)
3/4"	1/2"-13 x 5/8"	6", 8", 9", 10", 12", 18", 24", and 36" (call for custom length)
1"	5/8"-11 x 25/32"	6", 8", 9", 10", 12", 18", 24", and 36" (call for custom length)
1-1/4"	3/4"-10 x 15/16"	6", 8", 9", 10", 12", 18", 24", and 36" (call for custom length)
1-1/2"	1"-8 x 1-1/4"	6", 8", 9", 10", 12", 18", 24", and 36" (call for custom length)
2"	1-1/4"-7 x 1-9/16"	6", 8", 9", 10", 12", 18", 24", and 36" (call for custom length)

*All sizes and lengths available with one or both ends threaded