

# LOOSCO<sup>U.S.A.</sup>

WIRE AND WIRE ROPE DIVISION



## Pulley & Sheave Product Catalog



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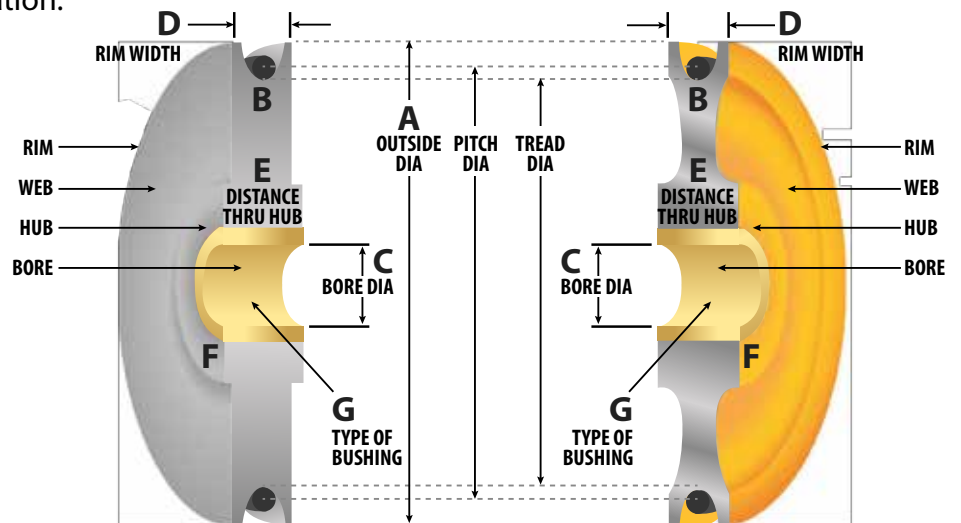
## Pulley or Sheave?

Regardless of what your industry calls it, it's a wheel with a groove that is designed to support movement and change the direction of force in a wire rope or belt. We will work with your design to exceed job requirements at the lowest possible cost to create the maximum value for you and your customers.

## Quote Requirements

When specifying the exact measurements of the pulley or sheave that you need, make sure to provide the following information:

- Outside Diameter
- Rope Diameter
- Bore Diameter
- Rim Width
- Distance through Hub
- Hub Diameter
- Bushing or Bearing
- Material



# About this catalog...

For over 50 years, Loos & Co., Inc. has pioneered and thrived in the highly critical profession of wire and wire rope manufacturing for use in applications where human lives are directly at stake. This valuable experience has taught us “the ropes” about what a difference quality and performance make in your wire and wire rope applications. Now, we can help make the difference for you with your pulley and sheave applications, too.



“ We don’t want to be the biggest, we want to be the best – to be able to provide each individual customer, no matter how small, with the best service and selection.

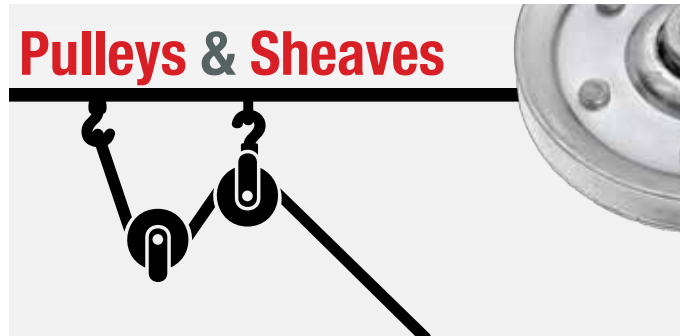
—A.W. “Gus” Loos ”

Loos & Co., Inc. is proud to be offering a wide variety of military specification and commercial pulleys and sheaves. We feel these products are the perfect compliment to the specialized wire and wire ropes used in markets that we have supported for years. If you pair your Loos & Co., Inc. wire with the highest quality pulleys and sheaves, it will repay you with the performance you have come to expect from our products.

## One Good Turn Deserves Another.

This catalog lists pulley and sheave products we provide for use in aerospace, military, medical and commercial applications, including aircraft flight controls, elevators, fitness equipment, surgical devices, rigging, lifting, and OEM equipment and operations. Pair these products with our wide range of wire, cable and wire rope products and you get the performance you need, when you need it.

## Pulleys & Sheaves



## What you spec is what you get.

Don’t see what you need? Our expertise is finding a solution that will work in your design and on your equipment. In addition to the stock and quick turnaround products we offer, we can take your technical requirements for sheaves and translate them into cost effective solutions without compromising quality or performance. Call us or visit our website today.

# MIL-SPEC Pulleys & Technical Information

## MIL-DTL-7034

All military specification (MIL-SPEC) pulleys conform to MIL-DTL-7034 (latest rev.). We offer the industry's leading products for use in a variety of applications, and pulleys are no different. MIL-SPEC pulleys are used in primary and secondary flight control systems and will exceed the performance of commercial pulleys in many applications. When quality and performance matter, trust Loos. & Co., Inc. to provide the highest quality MIL-SPEC pulleys.

## Department of Defense Specifications

Specification	Cross Reference	Supersedes	Aircraft	Anti-friction Bearing	Control	Flight Control	Secondary Control	Heavy Duty
MIL-DTL-7034/1	MS20219	AN219	X				X	
MIL-DTL-7034/2	MS20220	AN220	X			X		
MIL-DTL-7034/3	MS20221	AN221	X		X			X
MIL-DTL-7034/4	MS20222	AN210B	X	X	X			



MIL-SPEC Series Pulleys																
OD	IR OD	IR Width	Groove DIA	Cable Size	Bore DIA	Bearing, MS21443-#		Pulley Assembly Max Weight, Lbs.	Allowable Load on Pulley	Max Limit Load on Cable Independent of wrap angle, Lbs.			Item #			
													Non-metallc	Metallic		
<b>MS20219: Pulley, Groove, Secondary Control, Aircraft</b>																
1.312	0.423	0.438	1.000	1/16" - 5/32"	0.250	-4A	-4B	0.058	480	307	460	1/16"	5/32"	MS20219-1	MS20219A1	
1.750	0.769		1.438			-4B	0.066	MS20219-2						MS20219A2		
2.625	0.423		2.312			0.250	-4B	0.110						MS20219-3	MS20219A3	
	0.769					0.625	-10	0.125						MS20219-4	MS20219A4	
<b>MS20220: Pulley, Groove, Secondary Control, Aircraft</b>																
1.750	0.455	0.625	1.250	1/8" 5/32" 3/16"	0.3125	-5A	0.070	500	307	1040	1250	1/8"	5/32"	3/16"	MS20220-1	MS20220A1
3.000			2.500			0.175	1680	MS20220-2							MS20220A2	
4.250			3.750			0.260	2500	MS20220-3							MS20220A3	
5.500			5.000			0.370		MS20220-4							MS20220A4	
<b>MS20221: Pulley, Groove, Secondary Control, Aircraft</b>																
2.625	0.455	0.625	2.000	3/16"	0.3125	-5B	0.165	2800	2620	3060	3500	3/16"	7/32"	1/4"	NA	MS20221A1
4.125	0.768	0.750	3.500	7/32"	0.5000	-8	0.450	4900							MS20221-2	MS20221A2
5.625			5.000	1/4"			0.680	7000							MS20221-3	MS20221A3
<b>MS24566: Pulley, Groove, Anti-friction Bearing</b>																
OD	IR Width	Bore DIA	Cable Size	Groove DIA	Groove Radius	Width @ Flange Points	Flinge Thickness	Pulley Assembly Max Weight, lbs.	Allowable Load on Pulley	Item #						
1.250	0.297	0.190	1/16"	0.972	0.050	0.250	0.060	0.026	300	MS21443-3A						
2.500			3/32"	0.222	+0.000 -0.003	+0.000 -0.003	±0.005	0.075	500	MS21443-3B						
2.000	0.484	0.250	1/8"	1.510	0.112	0.422	0.086	0.090	600	MS21443-3C						
3.500			5/32" 3/16"	3.010	+0.000 -0.003	+0.000 -0.012	±0.006	0.200	1200							
5.000	0.620	0.375	3/16"	4.374	0.145	0.507	0.092	0.500	3000	MS27640-6						
6.000			7/32" 1/4"	5.374	+0.000 -0.005	+0.000 -0.014	±0.007	0.660	4000							

# Commercial Series Sheaves

Our commercial series sheaves support a wide variety of applications. We highly recommend that you use these products in conjunction with Loos & Co., Inc. wire and wire rope for the best possible performance.

## Small Cable Sheaves

Available in steel and stainless steel with several bushing/bearing options. These are commercial, general sheaves. Standard sizes are listed and are available for fast shipment. Custom specs are available upon request.

## Light Duty Sheaves

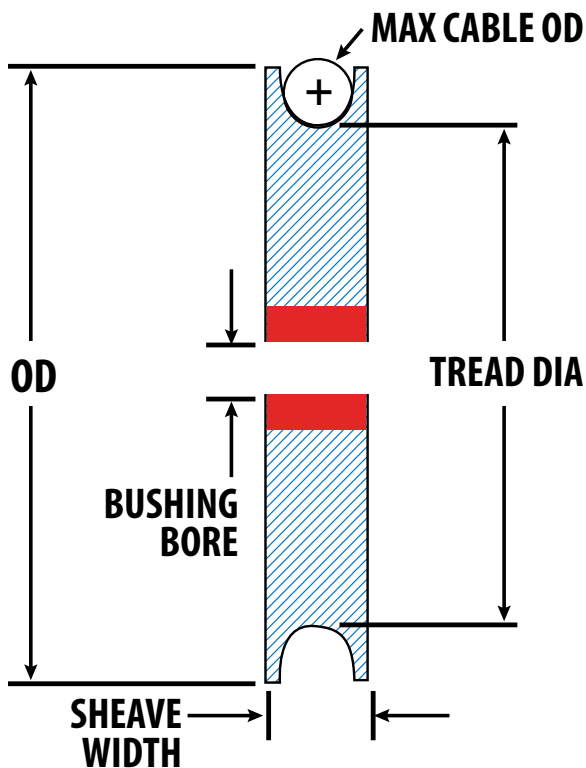
Available in nylon, spx polymer, aluminum, and Alum-ceramic materials, these sheaves are offered as high speed, light weight, high performance components for use on manufacturing and processing equipment. We can provide metric and inch bore options, a range of groove profiles, and custom configurations upon request. These sheaves are not intended for use with cable in lifting or high tension applications.

## On-Demand Sheaves

All components are made in the USA and are built from stock components to meet your specific requirements. Delivered in three days or less to your door or jobsite, these steel sheaves are available as a replacement to many popular Gunnebo Johnson and McKissick sheaves — or in your own design! Call or visit us on-line today for an immediate price quote.

## Custom Sheaves

If you don't see what you need in this catalog, we can find it for you. Provide us with the specifications you need and we will provide you with a quotation for your application. No requirement is out of the question — and if we can't provide it for you, we'll help you find who can. Call our sales team to get started or visit us on-line to complete our pulley and sheave request form.



# Commercial Series Sheaves | Small Cable Sheaves

	OD	MAX Cable Size	Tread DIA	Bearing Bore	Sheave Width	Bearing Width	Item #
Steel Sheaves WITHOUT Bearings	4	3/16	3 5/8	7/8	17/32	-	PLSS0400X1875
	4	1/4	3 5/8	7/8	17/32	-	PLSS0400X2500
	4	5/16	3 3/8	7/8	21/32	-	PLSS0400X3125
	5	5/16	4 3/8	1 1/4	7/8	-	PLSS0500X3125
	6	5/16	5 3/8	1 1/4	7/8	-	PLSS0600X3125
	4	3/8	3 3/8	7/8	21/32	-	PLSS0400X3750
	5	3/8	4 3/8	1 1/4	7/8	-	PLSS0500X3750
	6	3/8	5 3/8	1 1/4	7/8	-	PLSS0600X3750
	4	7/16	3 1/8	7/8	25/32	-	PLSS0400X4375
	5	7/16	4 1/8	1 1/4	7/8	-	PLSS0500X4375
	6	7/16	5 1/8	1 1/4	7/8	-	PLSS0600X4375
	4	1/2	3 1/8	7/8	25/32	-	PLSS0400X5000
5	1/2	4 1/8	1 1/4	7/8	-	PLSS0500X5000	
6	1/2	5 1/8	1 1/4	7/8	-	PLSS0600X5000	
Steel Sheaves WITH Bearings	4	3/16	3 5/8	1/2	17/32	17/32	PLSS0400X187501
	4	3/16	3 5/8	5/8	17/32	17/32	PLSS0400X187502
	4	3/16	3 5/8	3/4	17/32	17/32	PLSS0400X187503
	4	1/4	3 5/8	1/2	17/32	17/32	PLSS0400X250001
	4	1/4	3 5/8	5/8	17/32	17/32	PLSS0400X250002
	4	1/4	3 5/8	3/4	17/32	17/32	PLSS0400X250003
	4	5/16	3 5/8	1/2	21/32	21/32	PLSS0400X312501
	4	5/16	3 5/8	5/8	21/32	21/32	PLSS0400X312502
	4	5/16	3 5/8	3/4	21/32	21/32	PLSS0400X312503
	5	5/16	4 3/8	3/4	7/8	7/8	PLSS0500X312501
	5	5/16	4 3/8	7/8	7/8	7/8	PLSS0500X312502
	5	5/16	4 3/8	1	7/8	7/8	PLSS0500X312503
	5	5/16	4 3/8	1 1/8	7/8	7/8	PLSS0500X312504
	6	5/16	5 3/8	3/4	7/8	7/8	PLSS0600X312501
	6	5/16	5 3/8	7/8	7/8	7/8	PLSS0600X312502
	6	5/16	5 3/8	1	7/8	7/8	PLSS0600X312503
	6	5/16	5 3/8	1 1/8	7/8	7/8	PLSS0600X312504
	4	3/8	3 3/8	1/2	21/32	21/32	PLSS0400X375001
	4	3/8	3 3/8	5/8	21/32	21/32	PLSS0400X375002
	4	3/8	3 3/8	3/4	21/32	21/32	PLSS0400X375003
	5	3/8	4 3/8	3/4	7/8	7/8	PLSS0500X375001
	5	3/8	4 3/8	7/8	7/8	7/8	PLSS0500X375002
	5	3/8	4 3/8	1	7/8	7/8	PLSS0500X375003
	5	3/8	4 3/8	1 1/8	7/8	7/8	PLSS0500X375004
	6	3/8	5 3/8	3/4	7/8	7/8	PLSS0600X375001
	6	3/8	5 3/8	7/8	7/8	7/8	PLSS0600X375002
	6	3/8	5 3/8	1	7/8	7/8	PLSS0600X375003
	6	3/8	5 3/8	1 1/8	7/8	7/8	PLSS0600X375004
	4	7/16	3 1/8	1/2	25/32	25/32	PLSS0400X437501
	4	7/16	3 1/8	5/8	25/32	25/32	PLSS0400X437502
	4	7/16	3 1/8	3/4	25/32	25/32	PLSS0400X437503
	5	7/16	4 1/8	3/4	7/8	7/8	PLSS0500X437501
	5	7/16	4 1/8	7/8	7/8	7/8	PLSS0500X437502
	5	7/16	4 1/8	1	7/8	7/8	PLSS0500X437503
	5	7/16	4 1/8	1 1/8	7/8	7/8	PLSS0500X437504
	6	7/16	5 1/8	3/4	7/8	7/8	PLSS0600X437501
	6	7/16	5 1/8	7/8	7/8	7/8	PLSS0600X437502
	6	7/16	5 1/8	1 1/8	7/8	7/8	PLSS0600X437503
	4	1/2	3 1/8	1/2	25/32	25/32	PLSS0400X500001
	4	1/2	3 1/8	5/8	25/32	25/32	PLSS0400X500002
	4	1/2	3 1/8	3/4	25/32	25/32	PLSS0400X500003
	5	1/2	4 1/8	3/4	7/8	7/8	PLSS0500X500001
5	1/2	4 1/8	7/8	7/8	7/8	PLSS0500X500002	
5	1/2	4 1/8	1	7/8	7/8	PLSS0500X500003	
5	1/2	4 1/8	1 1/8	7/8	7/8	PLSS0500X500004	
6	1/2	5 1/8	3/4	7/8	7/8	PLSS0600X500001	
6	1/2	5 1/8	7/8	7/8	7/8	PLSS0600X500002	
6	1/2	5 1/8	1	7/8	7/8	PLSS0600X500003	
6	1/2	5 1/8	1 1/8	7/8	7/8	PLSS0600X500004	

Steel Sheaves

**Steel Sheaves**

	OD	MAX Cable Size	Tread DIA	Bearing Bore	Sheave Width	Bearing Width	Item #	
Steel Sheaves with Bronze Bearings	1 1/2	3/16	1	1/2	7/16	15/32	PLSS0150X1875	
	2	3/16	1 1/2	1/2	7/16	15/32	PLSS0200X1875	
	2 1/2	1/4	2	1/2	7/16	15/32	PLSS0250X2500	
	3	1/4	2 1/2	1/2	7/16	15/32	PLSS0300X2500	
	3	5/16	2 1/2	1/2	7/16	15/32	PLSS0300X3125	
	3 1/2	5/16	3	3/4	5/8	11/16	PLSS0350X3125	
	3 1/2	3/8	3	3/4	5/8	11/16	PLSS0350X3750	
	4	3/8	3 1/4	3/4	5/8	11/16	PLSS0400X3750	
5	3/8	4 1/4	3/4	5/8	11/16	PLSS0500X3750		
Steel Sheaves with Bronze Bearings and Steel Inserts	1 1/2	3/16	1	1/4	7/16	1/2	PLSS0150X187501	
	1 1/2	3/16	1	5/16	7/16	1/2	PLSS0150X187502	
	1 1/2	3/16	1	3/8	7/16	1/2	PLSS0150X187503	
	2	3/16	1 1/2	1/4	7/16	1/2	PLSS0200X187501	
	2	3/16	1 1/2	5/16	7/16	1/2	PLSS0200X187502	
	2	3/16	1 1/2	3/8	7/16	1/2	PLSS0200X187503	
	2 1/2	1/4	2	1/4	7/16	1/2	PLSS0250X250001	
	2 1/2	1/4	2	5/16	7/16	1/2	PLSS0250X250002	
	2 1/2	1/4	2	3/8	7/16	1/2	PLSS0250X250003	
	3	1/4	2 1/2	1/4	7/16	1/2	PLSS0300X250001	
	3	1/4	2 1/2	5/16	7/16	1/2	PLSS0300X250002	
	3	1/4	2 1/2	3/8	7/16	1/2	PLSS0300X250003	
	3	5/16	2 1/2	1/4	7/16	1/2	PLSS0300X312501	
	3	5/16	2 1/2	5/16	7/16	1/2	PLSS0300X312502	
	3	5/16	2 1/2	3/8	7/16	1/2	PLSS0300X312503	
	3 1/2	5/16	3	3/8	5/8	3/4	PLSS0350X3125	
3 1/2	3/8	3	3/8	5/8	3/4	PLSS0350X3750		
4	3/8	3 1/4	3/8	5/8	3/4	PLSS0400X3750		
5	3/8	4 1/4	3/8	5/8	3/4	PLSS0500X3750		
Stainless Steel Sheaves with Bronze Bearings	1 1/2	3/16	1	1/2	7/16	15/32	PLSC0150X1875	
	2	3/16	1 1/2	1/2	7/16	15/32	PLSC0200X1875	
	2 1/2	1/4	2	1/2	7/16	15/32	PLSC0250X2500	
	3	1/4	2 1/2	1/2	7/16	15/32	PLSC0300X2500	
	3	5/16	2 1/2	1/2	7/16	15/32	PLSC0300X3125	
	3 1/2	5/16	3	3/4	5/8	11/16	PLSC0350X3125	
	3 1/2	3/8	3	3/4	5/8	11/16	PLSC0350X3750	
	4	3/8	3 1/4	3/4	5/8	11/16	PLSC0400X3750	
5	3/8	4	3/4	5/8	11/16	PLSC0500X3750		
Stainless Steel Sheaves with Stainless Steel Inserts	1 1/2	3/16	1	1/4	7/16	1/2	PLSC0150X187501	
	1 1/2	3/16	1	3/8	7/16	1/2	PLSC0150X187502	
	2	3/16	1 1/2	1/4	7/16	1/2	PLSC0200X187501	
	2	3/16	1 1/2	3/8	7/16	1/2	PLSC0200X187502	
	2 1/2	1/4	2	1/4	7/16	1/2	PLSC0250X250001	
	2 1/2	1/4	2	3/8	7/16	1/2	PLSC0250X250002	
	3	1/4	2 1/2	1/4	7/16	1/2	PLSC0300X250001	
	3	1/4	2 1/2	3/8	7/16	1/2	PLSC0300X250002	
	3	5/16	2 1/2	1/4	7/16	1/2	PLSC0300X312501	
	3	5/16	2 1/2	3/8	7/16	1/2	PLSC0300X312502	
	3 1/2	5/16	3	3/8	5/8	3/4	PLSC0350X3125	
	3 1/2	3/8	3	3/8	5/8	3/4	PLSC0350X3750	
	4	3/8	3 1/4	3/8	5/8	3/4	PLSC0400X3750	
5	3/8	4 1/4	3/8	5/8	3/4	PLSC0500X3750		
Steel inserts							Item #	
	1/2	1/2	-	-	-	-	100120	
	1/2	1/2	-	-	-	-	100122	
	1/2	1/2	-	-	-	-	100121	
	3/4	1/2	-	-	-	-	100123	
	Stainless Steel inserts	1/2	1/2	-	-	-	-	100124
		1/2	1/2	-	-	-	-	100125
3/4		3/4	-	-	-	-	100127	

**Inserts**

# Light Duty Sheaves

	OD	Tread DIA	MAX	Material	Bearing Bore	C-to-C Distance	Nominal Width	OAW	Item #		
<b>Aluminum Sheaves</b>	V-Groove Sheaves	for Optical Fibers (metric bore)									
		100 mm	90 mm	1 mm	Aluminum	5 mm	N/A	6.00	9.00	PLSA039330394	
	U-Groove Sheaves	5.94	5	1/4"	Alum-Ceramic	12MM	0.53	0.50	0.59	PLSM059432500	
		9.50	8	1/2"	Alum-Ceramic	30MM	0.97	0.94	1.06	PLSM095035000	
		14.38	12	5/8"	Alum-Ceramic	30MM	1.09	1.06	1.19	PLSM143836250	
		5.94	5	1/4"	Aluminum	12MM	0.50	0.50	0.59	PLSA059432500	
		9.50	8	1/2"	Aluminum	30MM	0.97	0.94	1.06	PLSA095035000	
		14.38	12	5/8"	Aluminum	30MM	1.06	1.06	1.19	PLSA143836250	
	<b>Plastic Sheaves</b>	Flat Groove Sheaves (metric/inch bore)	9.00	7.5	1/2"	SX Polymer	30MM	0.84	-	0.94	PLSP090045000
			15.00	13	1"	SX Polymer	1-1/2"	1.31	-	1.25	PLSP150040100
18.25			16	1 1/16"	Cast Nylon	40MM	1.50	-	1.44	PLSN182541625	
22.25			20	1"	Cast Nylon	40MM	1.50	-	1.44	PLSN222540100	
Interlocking Sheaves		U-Groove Sheaves (metric/inch bore)									
		3.94	3	1/4"	SX Polymer	1/2"	0.47	0.44	0.53	PLSP03941250001	
		4.75	4	1/4"	SX Polymer	1/2"	0.47	0.44	0.53	PLSP04751250001	
		5.94	5	1/4"	SX Polymer	1/2"	0.53	0.50	0.59	PLSP05941250001	
		6.56	5.37	3/16"	SX Polymer	3/4"	0.66	0.63	0.81	PLSP06561187501	
		3.94	3	1/4"	SX Polymer	12mm	0.47	0.44	0.53	PLSP03941250002	
		4.75	4	1/4"	SX Polymer	12mm	0.47	0.44	0.53	PLSP03941500002	
		5.94	5	1/4"	SX Polymer	12mm	0.53	0.50	0.59	PLSP05941500002	
		6.56	5.37	3/16"	SX Polymer	30mm	0.66	0.63	0.81	PLSP06561187502	
		9.50	8	1/2"	Cast Nylon	30mm	-	0.94	1.06	PLSP095015000	
		9.83	8	0.360	SX Polymer	30mm	0.79	0.74	0.89	PLSP098310360	
		10.69	9	0.740	SX Polymer	30mm	1.04	0.99	1.14	PLSP106910740	
		11.00	10	0.340	SX Polymer	30mm	0.82	0.51	0.60	PLSP110010340	
		13.50	12	0.500	SX Polymer	30mm	0.79	0.74	0.86	PLSP135010500	
		14.38	12	5/8"	Cast Nylon	30mm	1.12	1.06	1.19	PLSN143816250	
		V-Groove Sheaves (metric/inch bore)									
		4.0	4	0.180	SX Polymer	17MM	0.47	0.39	0.53	PLSP045030180	
		6.00	5	0.180	SX Polymer	17MM	0.57	0.47	0.59	PLSP060030180	
		7.00	6	0.200	SX Polymer	20MM	0.90	0.71	0.98	PLSP070030200	
		8.00	7	0.180	SX Polymer	20MM	0.71	0.59	0.76	PLSP080030180	
9.50		8	0.160	SX Polymer	25MM	0.71	0.59	0.77	PLSP095030160		
11.00		10	0.180	SX Polymer	30MM	0.80	0.63	0.90	PLSP110030180		
Large U-Groove Sheaves (metric/inch bore)		9.50	8	1/2"	SX Polymer	30mm	1.00	-	0.94	PLSP095015000	
		14.00	12	5/8"	SX Polymer	30mm	1.12	-	1.06	PLSP140016250	
		15.00	13	1/2"	Cast Nylon	1-1/2"	1.31	-	1.25	PLSN150015000	
		15.00	13	3/8"	Cast Nylon	1-1/2"	1.06	-	1.00	PLSN150013750	
	15.00	13	3/4"	SX Polymer	1-1/2"	1.31	-	1.25	PLSP150017500		
	15.75	14	15/16"	SX Polymer	40mm	1.00	-	1.25	PLSP15751937501		
	15.75	14	15/16"	SX Polymer	3/4"	1.00	-	1.25	PLSP15751937502		
	18.25	16	15/16"	Cast Nylon	40mm	1.18	-	1.44	PLSN182519375		
	22.25	20	15/16"	Cast Nylon	40mm	1.50	-	1.44	PLSN222519375		
	27.00	24	1 1/2"	Cast Nylon	40mm	2.18	-	2.13	PLSN270010150		
	34.00	30	1 3/4"	Cast Nylon	40mm	2.44	-	2.38	PLSN340010175		
	40.00	36	2"	Cast Nylon	50mm	2.80	-	2.75	PLSN400010200		
	54.00	48	3"	Cast Nylon	50mm	4.12	-	4.00	PLSN540010300		
Tracker Groove Sheaves (metric/inch bore)	12.00	10	3/4"	SX Polymer	30MM	1.44	-	1.38	PLSP120057500		
	14.00	12	3/4"	SX Polymer	30MM	1.20	-	1.13	PLSP140057500		

Light duty sheaves are not intended for use with cable in lifting or high tension applications."





# On-demand Sheaves

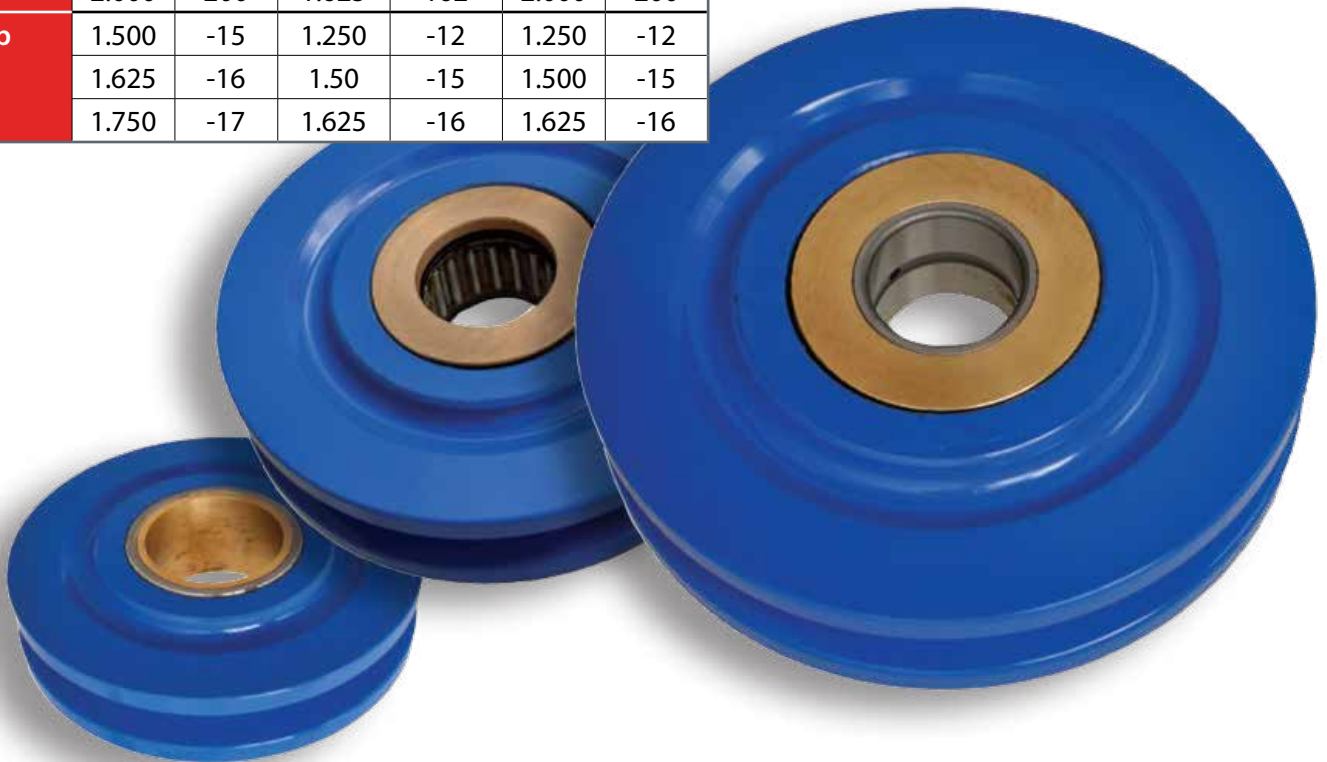
## Need a sheave right now?

Use this table to configure the sheave you need and call us for an immediate price and delivery in three days or less. We provide hundreds of configurations to get you up and running again in no time.

Select OD	Size, Inches		Part# Call Out			
		6		PL060		
	8		PL080			
	10		PL100			
	12		PL120			
Select Rope Size	3/8		12*			
	7/16		14*			
	1/2		16			
	5/8		18			
	3/4		20**			
Select Bearing	Bronze Bushed		Roller-Bearing (inner race)		Roller Bearing	
	Z		Y		W	
Select Shaft Size	1.000	100	1.000	100	1.250	125
	1.250	125	1.250	125	1.500	150
	1.500	150	1.375	137	1.625	162
	1.785	175	1.500	150	1.750	175
	2.000	200	1.625	162	2.000	200
Select Hub Width	1.500	-15	1.250	-12	1.250	-12
	1.625	-16	1.500	-15	1.500	-15
	1.750	-17	1.625	-16	1.625	-16

### Example: PL06012Y125-15

6" Sheave	PL060
3/8" Wire Rope	12
Roller Bearing (inner bore)	Y
1.250" Shaft	125
1.500" Hub Width	-15



\* 12" not available

\*\* only available in 12"

# On-demand Cross Reference

## Replacing an existing sheave?

Use this to cross-reference McKissick and Gunnebo Johnson part numbers.

McKissick Stock #	Sheave OD	Rope OD	Shaft Size	Bearing Type	Hub Width	On Demand Part#
460879	6	1/2	1	BB	1 1/2	PL06016Z100-15
461235	8	1/2	1 1/2	BB	1 1/2	PL08016Z150-15
461244	8	5/8	1 1/2	BB	1 1/2	PL08018Z150-15
462154	9 7/8	1/2	1	BB	1 1/2	PL10016Z100-15
462163	9 7/8	5/8	1	BB	1 1/2	PL10018Z100-15
472875	6	1/2	1	RB	1 3/4	PL06016W100-17
908003	10	5/8	1	BB	1 3/8	PL10018Z100-15
908129	12	3/4	1	BB	1 5/8	PL12020Z100-16
908147	12	3/4	1 1/8	BB	1 5/8	PL12020Z125-16
913104	6	5/8	1	BB	1 5/16	PL06018Z100-12
913328	8	5/8	1	BB	1 3/8	PL08018Z100-12
913346	8	5/8	1 1/8	BB	1 3/8	PL08018Z100-12
913364	8	5/8	1 1/4	BB	1 3/8	PL08018Z125-12
913382	8	5/8	1 1/2	BB	1 3/8	PL08018Z150-12
913765	10	5/8	1 1/2	BB	1 3/8	PL10018Z150-12
914121	12	3/4	1 1/8	BB	1 5/8	PL12020Z150-16
914149	12	3/4	1 1/4	BB	1 5/8	PL12020Z125-16
914167	12	3/4	1 1/2	BB	1 5/8	PL12020Z150-16
916520	8	1/2	1	BB	1 3/8	PL08016Z100-12
916726	10	5/8	1	BB	1 3/8	PL10018Z100-12
917002	12	5/8	1	BB	1 5/8	PL12018Z100-16
917011	12	5/8	1 1/8	BB	1 5/8	PL12018Z150-16
2023129	5 7/8	5/8	1 1/2	BB	1 3/4	PL06018Z150-17
2023141	5 7/8	5/8	1 1/2	RB	1 3/4	PL06018W150-17
2023145	8	1/2	1 1/2	RB	1 3/4	PL08016W150-17
2023147	8	5/8	1 1/2	BB	1 3/4	PL08018Z150-17
2023155	8	1/2	1 1/2	BB	1 3/4	PL08016Z150-17
2023159	8	5/8	1 1/2	RB	1 3/4	PL08016W150-17
2023166	9 7/8	1/2	1 1/2	BB	1 3/4	PL10016Z150-17
2023170	9 7/8	5/8	1 1/2	BB	1 3/4	PL10018Z150-17
2023179	9 7/8	5/8	1 1/2	RB	1 3/4	PL10018W150-17
2023227	12	5/8	1 1/2	BB	1 3/4	PL12018Z150-17
2023235	12	3/4	1 1/2	BB	1 3/4	PL12020Z150-17
2023236	12	3/4	1 1/2	RB	1 3/4	PL12020W150-17
2023248	12	5/8	1 1/2	RB	1 3/4	PL12018W150-17
2026433	9 7/8	1/2	1 1/2	RB	1 3/4	PL10016W150-17
2026841	8	1/2	1 1/8	BB	1 3/8	PL08016Z150-12
2026844	8	1/2	1 1/4	BB	1 3/8	PL08016Z125-12
2027291	10	5/8	1 1/4	BB	1 3/8	PL10018W150-12
Johnson Stock #	Sheave OD	Rope OD	Shaft Size	Bearing Type	Hub Width	On Demand Part#
452504012	6	3/8	1	BB	1 1/16	PL06012Z100-15
452504016	6	1/2	1	BB	1 1/16	PL06016Z100-15
452504020	6	5/8	1	BB	1 5/8	PL06018Z100-16
452505012	6	3/8	1 1/2	BB	1 5/8	PL06012Z150-16
452505016	6	1/2	1 1/2	BB	1 5/8	PL06016Z150-16
452505020	6	5/8	1 1/2	BB	1 5/8	PL06018Z150-16
452506012	6	3/8	1 1/4	BB	1 5/8	PL06012Z125-16
452506016	6	1/2	1 1/4	BB	1 5/8	PL06016Z125-16
452506020	6	5/8	1 1/4	BB	1 5/8	PL06018Z125-16
452507016	6	1/2	2	BB	1 1/16	PL06016Z200-15
452507020	6	5/8	2	BB	1 1/16	PL06018Z200-15
452508012	8	3/8	1	BB	1 1/16	PL08012Z100-15
452508016	8	1/2	1	BB	1 1/16	PL08016Z100-15
452508020	8	5/8	1	BB	1 1/16	PL08018Z100-15
452510012	8	3/8	1	BB	1 3/8	PL08018Z100-12

Johnson Stock #	Sheave OD	Rope OD	Shaft Size	Bearing Type	Hub Width	On Demand Part#
452510016	8	1/2	1	BB	1 3/8	PL08016Z100-12
452510020	8	5/8	1	BB	1 3/8	PL08018Z100-12
452511012	8	3/8	1 1/2	BB	1 5/8	PL08018Z150-16
452511016	8	1/2	1 1/2	BB	1 5/8	PL08016Z150-16
452511020	8	5/8	1 1/2	BB	1 5/8	PL08018Z150-16
452512012	8	3/8	1 1/4	BB	1 5/8	PL08018Z125-16
452512016	8	1/2	1 1/4	BB	1 5/8	PL08016Z125-16
452512020	8	5/8	1 1/4	BB	1 5/8	PL08018Z125-16
452515012	10	3/8	1 1/4	BB	1 9/16	PL10018Z125-15
452515016	10	1/2	1 1/4	BB	1 9/16	PL10016Z125-15
452515020	10	5/8	1 1/4	BB	1 9/16	PL10018Z125-15
452516012	10	3/8	1 1/2	BB	1 5/8	PL10018Z125-15
452516016	10	1/2	1 1/2	BB	1 5/8	PL10016Z150-15
452516020	10	5/8	1 1/2	BB	1 5/8	PL10018Z150-15
452517012	10	3/8	1 1/4	BB	1 5/8	PL10018Z125-15
452517016	10	1/2	1 1/4	BB	1 5/8	PL10016Z125-15
452517020	10	5/8	1 1/4	BB	1 5/8	PL10018Z125-15
452522016	12	1/2	1	BB	1 9/16	PL12016Z100-15
452522020	12	5/8	1	BB	1 9/16	PL12018Z100-15
452522024	12	3/4	1	BB	1 9/16	PL12020Z100-15
452523016	12	1/2	1 1/4	BB	1 9/16	PL12016Z125-15
452523020	12	5/8	1 1/4	BB	1 9/16	PL12018Z125-15
452523024	12	3/4	1 1/4	BB	1 9/16	PL12020Z125-15
452524016	12	1/2	1 1/2	BB	1 5/8	PL12016Z150-16
452524020	12	5/8	1 1/2	BB	1 5/8	PL12018Z150-16
452524024	12	3/4	1 1/2	BB	1 5/8	PL12020Z150-16
452525016	12	1/2	1 1/4	BB	1 5/8	PL12016Z125-16
452525020	12	5/8	1 1/4	BB	1 5/8	PL12018Z125-16
452525024	12	3/4	1 1/4	BB	1 5/8	PL12020Z125-16
4525252012	6	3/8	1 1/2	RB-IR	1 5/8	PL06018Y150-16
4525252016	6	1/2	1 1/2	RB-IR	1 5/8	PL06016Y150-16
4525252020	6	5/8	1 1/2	RB-IR	1 5/8	PL06018Y150-16
4525254012	8	3/8	1 1/2	RB-IR	1 5/8	PL08018Y150-16
4525254016	8	1/2	1 1/2	RB-IR	1 5/8	PL08016Y150-16
4525254020	8	5/8	1 1/2	RB-IR	1 5/8	PL08018Y150-16
4525257012	10	3/8	1 1/4	RB-IR	1 9/16	PL10018Y125-15
4525257016	10	1/2	1 1/4	RB-IR	1 9/16	PL10016Y125-15
4525257020	10	5/8	1 1/4	RB-IR	1 9/16	PL10018Y125-15
4525258012	10	3/8	1 1/2	RB-IR	1 5/8	PL10018Y150-16
4525258016	10	1/2	1 1/2	RB-IR	1 5/8	PL10016Y150-16
4525258020	10	5/8	1 1/2	RB-IR	1 5/8	PL10018Y150-16
4525261016	12	1/2	1 1/4	RB-IR	1 9/16	PL12016Y125-15
4525261020	12	5/8	1 1/4	RB-IR	1 9/16	PL12018Y125-15
4525261024	12	3/4	1 1/4	RB-IR	1 9/16	PL12020Y125-15
4525262016	12	1/2	1 1/2	RB-IR	1 5/8	PL12016Y150-16
4525262020	12	5/8	1 1/2	RB-IR	1 5/8	PL12018Y150-16
4525284012	6	3/8	1	RB	1 9/16	PL06018W100-15
4525284016	6	1/2	1	RB	1 9/16	PL06016W100-15
4525284020	6	5/8	1	RB	1 9/16	PL06018W100-15
4525285012	8	3/8	1	RB	1 9/16	PL08018W100-15
4525285016	8	1/2	1	RB	1 9/16	PL08016W100-15
4525285020	8	5/8	1	RB	1 9/16	PL08018W100-15
4525288016	12	1/2	1	RB	1 9/16	PL12016W100-15
4525288020	12	5/8	1	RB	1 9/16	PL12018W100-15
4525288024	12	3/4	1	RB	1 9/16	PL12020W100-15

# Custom Pulleys & Sheaves | Wire Rope & Cable

Don't spend your valuable time designing sheaves and pulleys. Call to speak to one of our sales team today for an immediate response with technical answers and practical solutions. We offer:

## Custom steel sheaves fit your requirements without:

- ... modification of existing equipment
- ... compromising new designs for 'catalog' sheaves "trial and error" – recommendations are just a phone call or email away.
- ... jeopardizing performance. Machined from solid 1045 round steel w/grooves hardened to 35-40 RC

## Fast delivery for custom sheaves

- Short lead times to get your project back on track
- Domestic sourcing reduces shipment times

## Custom nylon sheaves for performance applications

- Improved durability and service life in demanding applications
- Corrosion protection in salt water and high humidity applications
- Reduced weight vs. steel and aluminum sheaves
- Full customization to fit your exact needs

## Reliable service and support

One of the industry's largest sales and customer service teams with over 70 years of wire rope experience

## Wire Rope & Cable Products

### Standard Materials

#### 302/304 STAINLESS | Good corrosion resistance

Also known as 18-8 (18% chromium 8% nickel). Most common grade of stainless steel. Good corrosion resistance with strength slightly lower than galvanized.

#### GALVANIZED | Minimal corrosion resistance

Some corrosion resistance, remains ductile over long periods of working. Generally higher breaking strength than stainless steels.

### Military Specifications

#### MIL-DTL-83420

Flexible wire rope for aircraft control

#### MIL-DTL-18375

Flexible, corrosion-resistant, non-magnetic wire rope used for aircraft control

#### 316 STAINLESS | Very good corrosion resistance

Used in highly corrosive environments as well as food and medical industries. Strength is approximately 10% less than 302/304 stainless.

#### 305 STAINLESS | Low magnetism; good corrosion resistance

Slightly more corrosion-resistant than 302/304, mostly non-magnetic, perfectly suited for naval and aerospace applications.

#### MIL-DTL-87161

Non-flexible wire strand for aircraft application

#### MIL-DTL-83140

Rotation-resistant stainless steel preformed wire rope for aircraft rescue hoist, utility hoist and winching.

### Common Constructions



#### 1x7 STRAND | Non-flexible

For straight load applications in smaller diameters, used as fishing line and leaders, as well as guy wire and messenger strand applications



#### 7x7 AIRCRAFT CABLE | Moderately flexible

Used where extreme flexibility is not required, commonly in aircraft and automotive controls. Performs well in wide range of mechanical applications.



#### 19x7 HOIST CABLE | Non-rotating, very flexible

Used when a single line hoisting operation is necessary. Standard equipment on helicopter rescue winches.



#### 6x19 CLASS | Flexible wire rope

True working wire ropes used extensively in heavy duty hoisting cranes. Also used in dredges, skidders, excavators, logging, and oil field applications.



#### 1x19 STRAND | Non-flexible

Widely used as standard rigging on sailboats. It is well-suited for push/pull operations and guying applications.



#### 7x19 AIRCRAFT CABLE | Very flexible

Used when flexibility and fatigue are concerns. Aircraft controls, running rigging on sailboats, exercise equipment, winches and garage doors are common applications



#### 6x42 TILLER ROPE | Extremely flexible

Designed for flexibility, and used in specialized applications. Often used as tiller rope on sailboats.



#### 6x37 CLASS | Flexible wire rope

True working wire ropes used extensively in heavy duty hoisting cranes. Also used in dredges, skidders, excavators, logging, and oil field applications.



P.O. Box 98  
Pomfret, CT 06258

Tel.: 800-928-7981  
Fax: 860-928-6167  
sales@loosco.com

[www.loosco.com](http://www.loosco.com)