

McKISSICK SHEAVES

With Product Warnings and Application Information



"There is No Equal"



The Market Leader: Yesterday Today and Tomorrow

McKissick Sheaves

HISTORY & EXPERIENCE

The ability to match the sheave design and manufacturing process to meet the application requirements requires experience. It also requires the ability to creatively use this experience and manufacturing resources to provide the best solution.

THE COMPETITION

- Ask:** What is their history and experience?
- Ask:** What processes do they have available to draw upon?
- Ask:** What technical experience do they have available to provide technical solutions to technical demands?



McKissick has provided sheaves to energy and lifting industries since the early 1900's. Since McKissick became part of Crosby in the mid 1900's there has been a continuous history of product and process development. Crosby invented the roll forged sheave in 1978 and continues to be a leader today in sheave design and manufacturing process.

DELIVERY & ACCESSIBILITY

Many energy and lifting sheave applications require short delivery times and delivery to locations around the world. Response times require flexible manufacturing resources. Access around the world requires not only logistics experience and capabilities, but also requires manufacturing resources strategically located around the world.

THE COMPETITION

- Ask:** How do they support short deliveries?
- Ask:** What is their experience providing worldwide delivery?
- Ask:** What resources do they have in key areas of the world?



Crosby-McKissick stocks key raw materials and has an extensive bank of tooling and sufficient manufacturing capacity to support short deliveries. Crosby has McKissick block and sheave centers that serve their local markets in Tulsa, Oklahoma (USA); Putte, Belgium; Singapore; and Hangzhou, China.

FLEXIBILITY OF DESIGN

Matching the best solution to the application requires the ability to fabricate sheaves by a number of processes:

- 1) Heavy Duty – Roll forged sheaves are hot forged with no splitting stresses at base for sheaves up to 78".
- 2) Heavy Duty – Closed die forged sheaves with machined Wireline groove for sheaves up to 16".
- 3) Extreme Duty – Roll forged sheaves with welded dome reinforcement employ the latest welding technology with no shape cross brace stress concentration areas.
- 4) Heavy Duty fabricated sheaves – With welded rings and reinforced webs utilizing the latest welding technology.
- 5) The ability to provide sheave grooves with 30, 35 and 45 degree profiles as well as other special profile
- 6) The ability to provide bearings to match application: Plain bore, bronze bushed, roller bearings, tapered roller bearings and full complement bearings.
- 7) Heat treatment of Wireline groove to provide wear resistance.

THE COMPETITION

- Ask:** How do they achieve the performance required with a split or cast sheave?
- Ask:** How do they resolve the welding stresses induced when you fabricate the sheave?
- Ask:** What sheave groove profile do they provide on a regular basis?
- Ask:** Do they have technical expertise to recommend proper sheave bearings?
- Ask:** How do they provide for proper Wireline groove life?



McKissick offers roll forged sheaves that provide an upset metal flow without creating a stress zone at the splitting point. The dome-reinforced sheave design provides for a continuous weld in a circular pattern. McKissick produces sheaves in 30, 35, and 45 degree profiles, and can provide special profiles as required. Extensive experience underwater and in harsh and demanding environments gives McKissick the needed experience in selecting sheaves for all applications. From material selection to hardening of the groove, McKissick sheaves provide the needed wire-line life.

SPECIFICATIONS

Many energy and lifting sheaves must meet standards. These standards include API, ABS, DIN, DNV and ASME. Demanding specifications for sheaves used in demanding applications also include strength, fatigue, impact and non-destructive testing.

THE COMPETITION

- Ask:** Do they understand and have experience in meeting the industry standards such as API, ABS, DIN, DNV and ASME?
- Ask:** Do they have a history of gaining required approvals?
- Ask:** Are they licensed to manufacture sheaves to API 8C?



Crosby McKissick has achieved API Q1, and TS29001 Status, and is licensed to manufacture sheaves to API 8C. Sheaves are frequently provided to API, DNV and ABS requirements.

TECHNICAL SUPPORT & TRAINING

The selection, use, inspection and maintenance of sheaves requires technical support. This technical support includes engineering services, training support and the ability to meet the various industry requirements around the world.

THE COMPETITION

- Ask:** What technical support do they provide?
- Ask:** Where is this support provided from?
- Ask:** What training is available to support the selection, use, inspection and maintenance of sheaves?



Crosby has technical and operational support available from each of our McKissick Block and Sheave Centers around the world. Crosby provides extensive training through our one day Block and Sheave Clinics and our two-day Heavy Lift Seminars. Industry-specific training is also provided.

Remember: "When buying Crosby, you're buying more than product, you're buying Quality."

McKissick® Roll-Forged Heavy Duty Sheaves are made by upsetting and forming the groove and flange walls in multiple steps, eliminating the need to split and weaken the groove. This exclusive forging process adds extra strength to the critical groove section.

McKissick Domed Reinforced Extreme Duty Roll Forged Sheaves are welded in a circular pattern thus eliminating the higher stresses created by welding ribs or other forms of stiffeners.

McKissick Heavy Duty Sheaves are available with machined groove rings or machine forged rings utilized for the rim or hub.

McKissick Heavy Duty Closed-Die Forged Sheaves offer the performance of closed-die forging with the precision machining capabilities of CNC machinery.

McKissick Normal Duty Malleable Cast Sheaves provide economical solutions for normal service applications.

McKissick Sheaves come in a variety of sizes to suit your specific applications. Crosby offers many sheaves as standard and these are shown in the pages that follow. For applications that require unique specifications, Crosby can make minor modifications to many of the sheaves listed at a reasonable charge. We can also custom design and manufacture sheaves to your exact requirements. McKissick roll forged sheaves can be furnished balanced or with lightening holes at a reasonable charge on request.

Crosby's Hardening Technique is a science. It provides a precise maximum hardness for wear-resistance across the wire rope contact area. The McKissick sheave groove is flame hardened to a minimum 35 Rockwell C for a 140° contact area with the wire rope (upon special request the McKissick sheave groove can be flame hardened to a minimum 50 Rockwell C for a 150° contact area with the wire rope). The solid steel plate provides the ideal surface for flame hardening and a closer tolerance fit to the wire rope to reduce fatigue and wear.

The McKissick Hub is stepped to eliminate stress failure in the weld, common in traditional hub designs. The hub is pressed into place with complete metal-to-metal contact. This helps ensure an accurate alignment to the hub's axis so there is no wobble or lopping of the rotating sheave. The precision aligned hub / sheave wheel combination adds to the bearing life and keeps the sheave on the job longer.

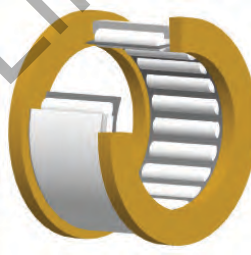
McKISSICK® STANDARD BEARINGS



(B) Bronze Bushing



(R) Roller Bearings



(W) Roller Bearing with Thrust Washers

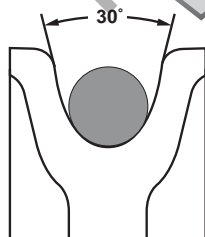


(C) Full Complement Cylindrical Roller Bearing

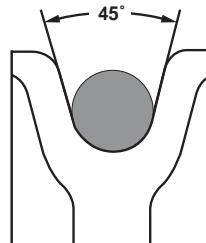


(T) Tapered Roller Bearing

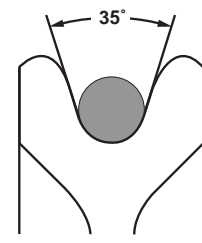
McKISSICK® Wireline GROOVE PROFILES



API STYLE
30 degrees



EUROPEAN STYLE
45 degrees



AISE STYLE
35 degrees

Custom sheaves are available. See page 287 for ordering details.

DO NOT BE FOOLED

The Elements of a Superior Sheave

Every McKissick® Roll-Forged sheave starts as a single piece of AISI C-1035 carbon steel plate. Utilizing a time proven proprietary roll forging process that adds extra strength to the critical groove section, the sheave is formed from a precision flame cut blank. The hub is then pressed into place with complete metal-to-metal contact and secured with a deep penetrating weld to ensure proper fit and longer life. Before the McKissick® name is added, each sheave is thoroughly inspected to meet applicable industry and Crosby® quality standards.

McKissick® Roll-Forged sheaves contain the following critical standard features required to meet your demanding applications:

1 Smooth radius at the rim provides superior transition from outside diameter to groove - eliminating sharp corners that can damage rope

- Cold formed split steel sheaves may contain a sharp transition radius at rim of sheave



2 Size for size, McKissick® Roll-Forged sheaves have a thicker section under the tread of the Wireline groove - providing more substantial support of the Wireline

- Cold formed split steel sheaves are limited to a thinner section thickness under the groove, reducing sheave life in heavy service conditions
- Thinner sections produce a sharp corner under the tread, resulting in potential stress risers



3 Thicker web on sheave provides required stiffness to support a stronger sheave that contains thicker flange sections

- The thinner web on cold formed split steel sheaves, inherent to the process, does not support thicker flange section
- The sharp, pointed cutter used in forming the groove during the cold formed split steel process may produce a concealed crack in the bottom of the groove

	McKissick®	Cold Formed Split Steel
Smooth Radius Edge - Better fit, less wear on rope	4	
Thicker Fleet Section - Better support, stronger sheave groove	4	
Deep Penetrating Weld at Hub - Longer life	4	
Flame Hardened Groove - Higher Rockwell C rating	35Rc	14Rc
Roll Forging Process - Provides superior grain flow	4	



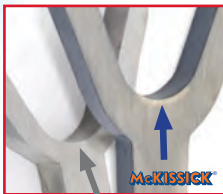
There is no sheave like a McKissick® Roll-Forged Sheave

...into thinking all sheaves produce the same results.



4 Heavier flange sections - provide a much stronger wire rope groove and maintain proper consistent groove angles, ensuring long term Wireline performance

- Cold formed split steel sheaves tend to have flange sections that are thinner as well as variations in thickness on the same sheave, resulting in less than desired performance during critical applications
- Cold formed split steel sheaves are limited to a maximum flange thickness of 50% of web section



5 Minimum 35Rc for higher hardness in the bottom of the groove - results in less wear to the sheave, thus extending life of Wireline

- Unless requested at time of order, cold formed split steel sheaves have a much lower hardness rating (approx. 14Rc)
- The standard material used in cold formed split steel process may not allow higher hardness in groove



6 Precision alignment of hub with blank, then finished with a deep penetrating weld - ensuring proper fit, longer life and confidence during the most extreme of applications

**Cold Formed
Split Steel
Sheave**

Additional Important Features of McKissick® Roll-Forged Sheaves

- The grain flow associated with the McKissick® Roll-Forged sheave process results in excellent performance properties.
- Each sheave is permanently marked with “McKissick®”, sheave outside diameter, Wireline size and Product Identification Code (PIC) that provides complete material traceability.

**Crosby® and McKissick® Roll-Forged Sheaves
Reliability You Can Depend On**



Crosby®

thecrosbygroup.com

HEAVY DUTY SHEAVES
FROM 305mm THROUGH 1981mm

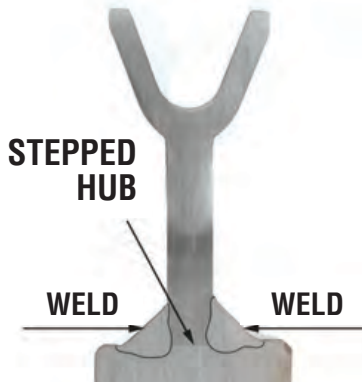
Stepped Hub Design Proves Better

The McKissick hub is stepped to eliminate stress failure in the weld, common in traditional hub designs. The hub is pressed into place with complete metal-to-metal contact. This helps ensure an accurate alignment to the hub's axis so there is no wobble or lopping of the rotating sheave. The precision aligned hub/sheave wheel combination adds to the bearing life and keeps the sheave on the job longer.



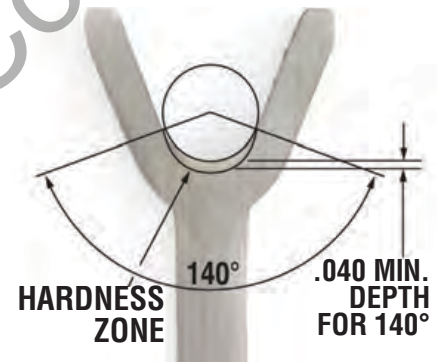
Flame Hardened Groove

Crosby's hardening technique is a science. It provides a precise maximum hardness for wear-resistance across the Wireline contact area. The McKissick sheave groove is flame hardened to a minimum 35 Rockwell C for a 140° contact area with the Wireline (upon special request the McKissick sheave groove can be flame hardened to a minimum 50 rockwell C for a 150° contact area with the Wireline). The solid steel plate provides the ideal surface for flame hardening and a closer tolerance fit to the Wireline to reduce fatigue and wear.



Full Range of Standard Sheave Sizes

McKissick Roll-Forged sheaves are available in a full range of sizes from 305mm to 1981mm and bearing styles and prices that best fit your application. Crosby also manufactures custom McKissick sheaves and can make minor modifications to standard sheaves as needed for special applications.



Closed Die Upset and Roll Forged – Not Split

Upsetting and roll forging forms the groove and flange walls in multiple steps, eliminating the need to split and weaken the groove. This exclusive forging process adds extra strength to the critical groove section. You can count on a McKissick sheave to give maximum life performance, because it's forged to distribute the Wireline forces evenly over an accurately formed load surface. Plus, uniformity of the roll forged groove adds longer Wireline life.



Bearing Selection to Match Your Job Requirement

The McKissick Roll-Forged sheave is available in the following configurations

- Plain bore
- Bronze bushed
- Roller bearing
- Tapered roller bearing
- Lubrication thru hub
- Key ways
- Set screws
- Full Complement Bearing

Solid Steel – No Casting

Every McKissick sheave starts as a single piece of solid carbon steel plate. It's flame-cut from closely checked stock, so there's no inherent web/rim flaw as you find in cast sheaves. There's better balance and better distribution of forces with a McKissick Roll-Forged sheave too. Casting can result in groove wall variations – either too thick or too thin – causing uneven stresses and early failure.

NOTE: Custom Sheaves are Available. See Page 287 for Ordering Details.

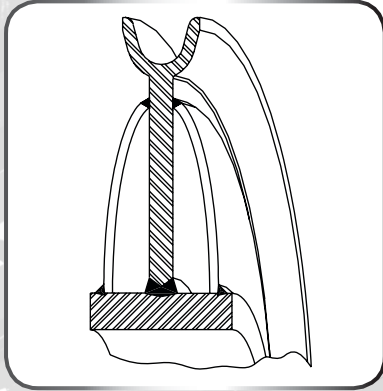


Licensed Under
API Spec 8C-0021

Sheaves are available to API 8C.



DOMED SHEAVES 610mm AND LARGER



Eliminates High Stress Weld Intersections

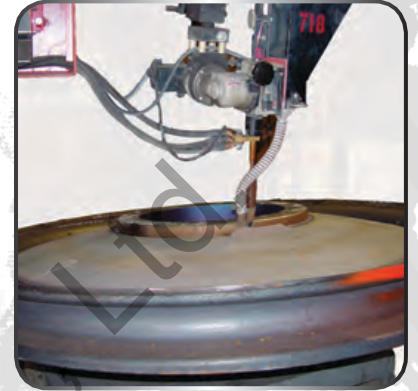
McKissick® Domed Roll-Forged sheaves are welded in a circular pattern thus eliminating the higher stresses created by welding ribs or other forms of stiffeners.



U.S. Patents D621, 240

Large Range of Sheave Sizes Available

McKissick Domed reinforced Roll-Forged sheaves are available in sizes 610mm and larger, and bearing styles that best fit your extreme duty applications.



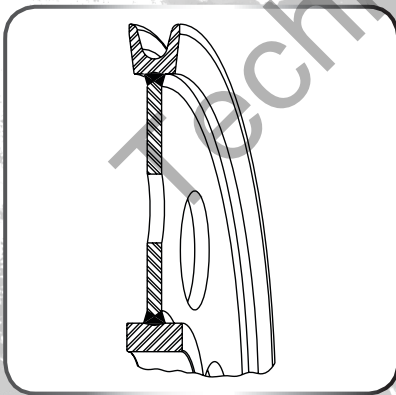
Roll Forged Sheave and Latest in Welding Technology

McKissick Domed Roll-Forged™ sheaves have the strength, fatigue properties and rigidity needed for those “extreme duty sheaves” with high working stress and side loading.

McKissick® Fabricated Sheaves

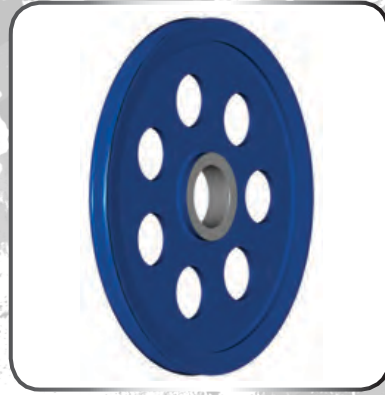
Custom sheaves are available. See page 287 for ordering details.

HEAVY DUTY SHEAVES AVAILABLE THROUGH 2,946mm IN OUTSIDE DIAMETER.



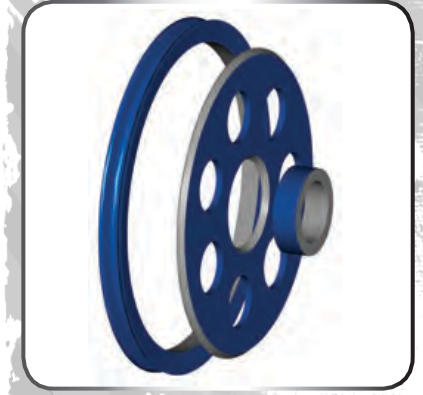
The Best Solution for Large Sheave Sizes

McKissick fabricated sheaves are available with machined groove rings or machined forged rings utilized for the rim or hub.



Large Range of Sheave Sizes Available

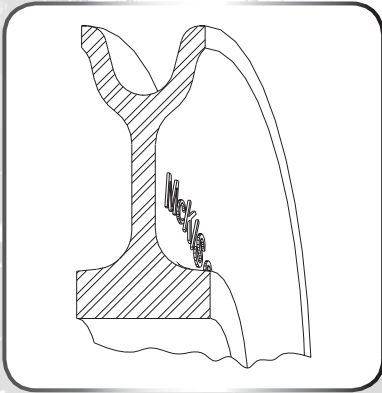
McKissick fabricated sheaves are available in multiple sizes, and bearing styles that best fit your heavy duty applications



For Larger Sheave Sizes

McKissick fabricated sheaves are an excellent solution when the required sheave size is too large to be manufactured by the roll forged sheave process.

HEAVY DUTY SHEAVES
FROM 102mm THROUGH 305mm



Closed Die Forging

McKissick closed die forged sheaves offer the performance of closed die forging with the precision machining capabilities of CNC machinery.

For Smaller Sheaves in Heavy Duty Application

McKissick closed die forged sheaves are available in sizes from 102mm to 305mm. An extremely effective solution for heavy duty applications where high loads are applied.

Any of the bearings we offer with the roll forged sheaves are available.



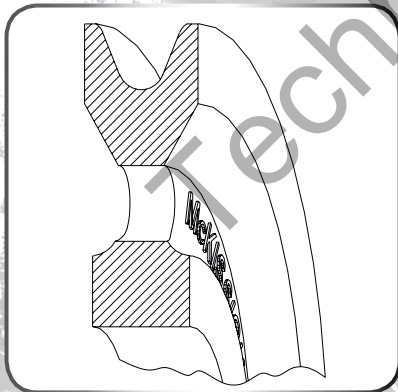
Select Range of Sheave Sizes Available

McKissick closed die forged sheaves are available in sizes from 102mm to 305mm, and bearing styles that best fit your heavy duty applications.

McKissick® Ductile Iron Sheaves

Custom sheaves are available. See page 287 for ordering details.

NORMAL SERVICE DUTY SHEAVES
FROM 76mm THROUGH 406mm



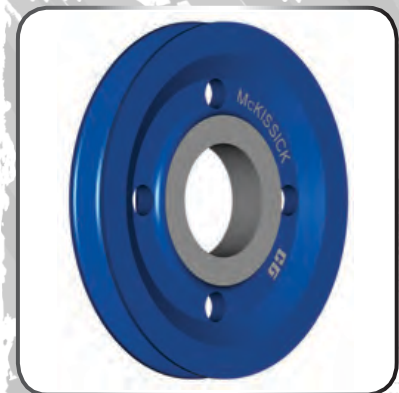
Machined Ductile Iron

McKissick ductile iron sheaves are manufactured with material that meets ASTM A-536.

For Smaller Sheaves in Normal Duty Applications

McKissick ductile iron sheaves are an acceptable solution for light or normal duty applications where sheaves are protected by sheave guards and minimal side loads are applied.

Standard roller bearings and bronze bushings are typically appropriate for use in these applications.

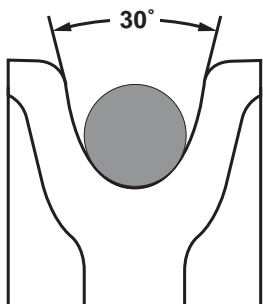


Select Range of Sheave Sizes Available

McKissick ductile iron sheaves are available in sizes from 76mm to 406mm, and bearing styles that best fit your normal service duty applications.

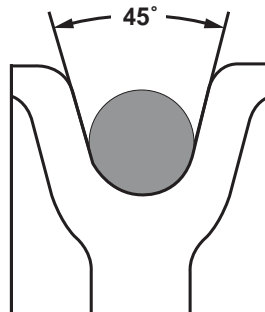
McKissick® Sheaves Groove Profile Available

McKISSICK® Wireline GROOVE PROFILES



API STYLE
30 degrees

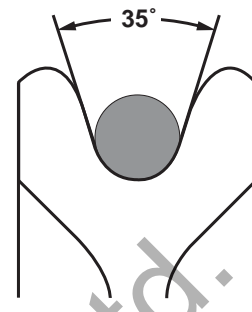
The sheave profile is a very important feature of all sheaves. McKissick manufactures standard sheaves for general use in hoisting Wireline guide applications to minimal API Specifications. The profile includes included groove angle of 30°. This groove profile is used in mobile cranes, drilling rigs, working units, tubing blocks, traveling blocks, crown blocks and many other general hoisting applications.



EUROPEAN STYLE
45 degrees

DIN 15061 lifting appliances defines groove profiles for Wireline sheaves

Nominal tread depth is 1.5 times Wireline diameter.



AISE STYLE
35 degrees

McKissick manufactures sheaves to meet the specifications of AISE Standard Number 6. AISE Sheaves must meet specified criteria established by the Association of Iron and Steel Engineers for special use in electric over-head Traveling Cranes for Steel Mill Service. The profile included groove angle of 35°. Dimensional details are also different from the API profile. This groove profile is used in overhead traveling cranes, mobile cranes, portal cranes, power shovels and other equipment using Wireline.

Contact Crosby for additional available groove angles.

McKissick® Sheaves Available to API Standards

- McKissick® Products has been licensed by the American Petroleum Institute to manufacture Roll-Forged Sheaves under API specifications 8C. In addition, McKissick® Products is API Q1 certified
- McKissick® Products also produces sheaves to the requirements of API 2C.
- API sheaves must meet the criteria established by the American Petroleum Institute for drilling and production hoisting equipment.
- Typical oilfield applications include: Heavy Haul Trucking, Workover and Well Servicing Units, Tubing Blocks, Traveling Blocks, Crown Blocks and Offshore Cranes.

API 8C Requires

- Databook
- Material certs and traceability
- D/d ratio per API RP9B
- MPI
- UT of full penetration weld
- 30° groove angle. Groove depth a minimum 1.33 d and maximum 1.75 d, where d=nominal rope diameter.
- Manufactured by an API-8C licensed facility
- Specific groove radius
- Can be furnished to API 8C PSL1 or PSL2

API 2C Requires

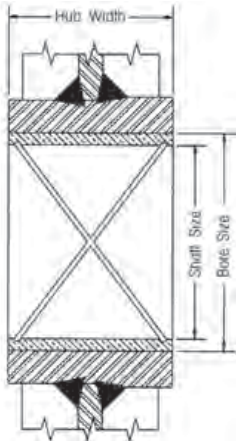
- Material certs and traceability
- D/d ratio 18/1 or greater, based on pitch diameter
- At least 30° groove angle
- Specific groove radius



Licensed Under
API Spec 8C-0021

McKissick® Sheaves Bearings Application Information

(B) Bronze Bushing



Bronze Bushing

Slow line speed, moderate load and moderate use

- Maximum Bearing Pressure (BP): 31N/mm²
- Maximum Velocity at Bearing (BV): 366m/min
- Maximum Pressure Velocity Factor (PV): 114

$$\text{Formula for BP} = \frac{\text{Line Pull} \times \text{Angle Factor (See Page 383)}}{\text{Shaft Size} \times \text{Hub Width (See example)}}$$

For underwater sheave applications, special bronze bushings are available. Consult the bearing manufacturer for applicable load.

Example:

Using a 356mm sheave (917191) with a 20,000 N line pull and an 80 degree angle between lines, determine maximum allowable line speed.

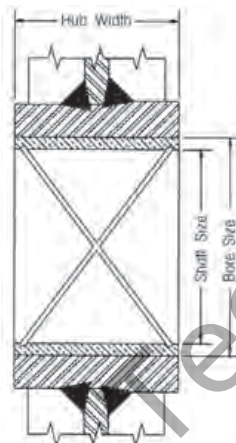
$$\text{BP} = \frac{\begin{matrix} \text{(Line Pull)} \\ 20,000\text{N} \end{matrix} \times \begin{matrix} \text{(Angle Factor)} \\ 1.53 \end{matrix}}{\begin{matrix} \text{(Shaft Size)} \\ 38 \end{matrix} \times \begin{matrix} \text{(Hub Width)} \\ 41 \end{matrix}} = 19,64\text{N/m}^2$$

$$\text{BV} = \frac{\begin{matrix} \text{(PV Factor)} \\ 114 \end{matrix}}{\begin{matrix} \text{(BP)} \\ 19,64 \end{matrix}} = 5,8\text{m/min}$$

(R) Roller Bearings

ROLLER BEARINGS

Bronze Bushings with "Figure 8" oil grooves are made from S.A.E. 660 bronze for cold finished shafts

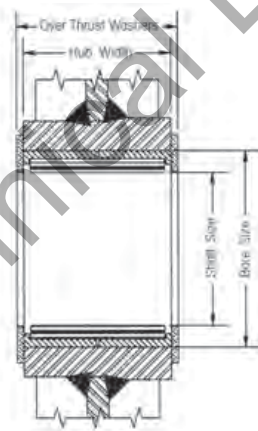


Roller Bearings are designed to operate on shafts carburized to 60 Rockwell C and grounded to +/- .0005 of shaft size.

(W) Roller Bearing with Thrust Washers

STANDARD STRAIGHT ROLLER BEARINGS

Heavier loads, higher speeds, more frequent use, radial loads only.

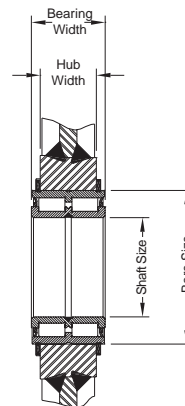


Roller Bearings without inner races are designed to operate on shafts carburized to 60 Rockwell C and grounded to +/- .0005 of shaft size.

(C) Full Complement Cylindrical Roller Bearing

FULL COMPLEMENT, DOUBLE ROW, ROLLER BEARING

Heavy load, high speeds, continuous operation, axial and radial loads.

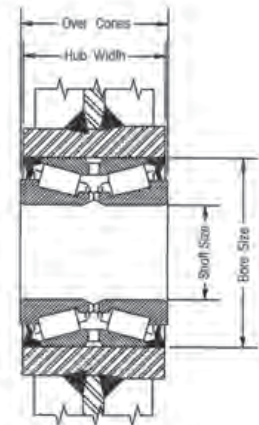


Cylindrical Roller Bearings with snap ring grooves are complete units with outer and inner rings, rib guided cylindrical rollers and sealing rings. They can support axial forces in both directions as well as radial forces. They have high dynamic and static load ratings.

(T) Tapered Roller Bearing

TAPERED ROLLER BEARINGS

Heavy loads, high speeds, continuous operation, axial and radial loads.

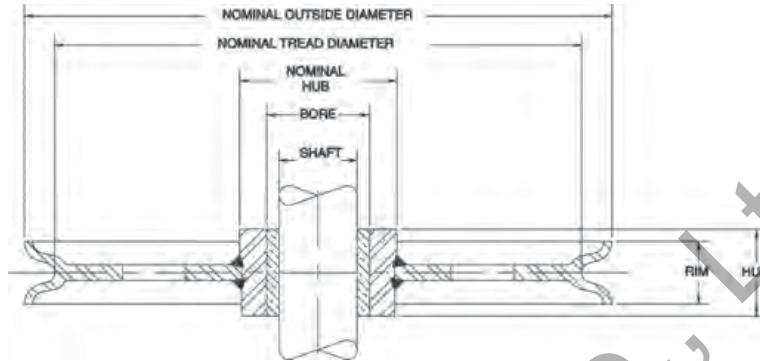


Tapered Bearings are designed to operate on shafts machined to +/- .0005 of shaft size. Applications should provide for tightening separator plates against bearing cones to adjust and insure proper function of bearings.

McKissick® Sheaves Selection Guide

McKissick® Sheaves come in a variety of sizes to suit your specific applications. Crosby offers many sheaves as standard and these are shown in the pages that follow.

For applications that require unique specifications, Crosby can make minor modifications to many of the sheaves listed at a reasonable charge. We can also custom design and manufacture sheaves to your exact requirements. Contact Crosby Sales to order McKissick® sheaves and include the stock number and quantity. For help in finding that standard sheave or for help with special requirements or custom designed sheaves, furnish the following important information:



DIMENSIONAL INFORMATION

Nominal Outside Diameter: _____ Wire Rope Size: _____ Rim Width: _____

+ Shaft Size: _____ *Hub Width: _____

Nominal Tread Diameter (Optional): _____ Nominal Hub Diameter (Optional): _____

*Hub width is measured over the cone of the Tapered Bearing Sheaves.

+ Shaft Size is Bore Size on Plain Bore Sheaves.

BEARING TYPE

- Bronze Bushing
 ++ Roller Bearing
 Tapered Roller Bearing
 Finish / Plain Bore
 Full Complement Cylindrical Roller Bearing
 Underwater
 Other

MATERIAL TYPE

- Roll-Forged (Flame hardened 14" and larger)
 Forged Steel
 Domed
 Cast Steel
 Fabricated
 Other

APPLICATION INFORMATION

Line Pull: _____ Fleet Angle: _____ Degree of Wrap: _____

Line Speed: _____ Environment: _____ Groove Angle: _____

SPECIAL REQUIREMENTS

Special Testing: _____

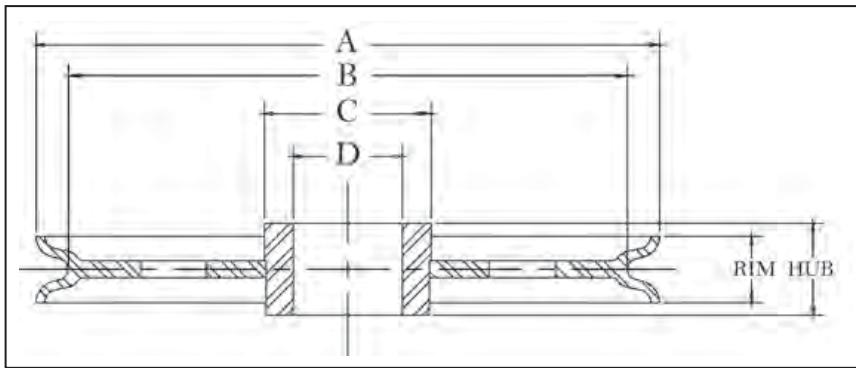
Finish: _____

Third Party Inspection / Approval: _____

In USA: Crosby's Special Engineered Product Group at 1-800-777-1555, fax (918) 834-5035, specials@thecrosbygroup.com

In Canada: Crosby Canada at (905) 451-9261

In Europe: N.V. Crosby Europe at 32 15 757125(26).



Finished Bore Sheaves

- Roll-Forged™ sheaves are available in sizes up to 1981mm diameter.
- McKissick® Finished Bore Sheaves can be equipped with bushings or bearings at an optional charge.
- 356mm diameter sheaves and larger are Roll-Forged with Flame hardened grooves to minimum Rockwell 35C.

"A" Nominal Outside Diameter (mm)	Stock Number	Wire Line Size (mm)	"D" Bore Size (mm)	Hub Width (mm)	Rim Width (mm)	"C" Nominal Hub Outside Diameter (mm)	"B" Nominal Tread Diameter (mm)	Material	Approx. Weight (kg)
76.0	51008	6	19.1	33.3	31.8	28.6	52.5	B.S.	.45
76.0	11310	10	19.1	33.3	31.8	28.6	52.5	B.S.	.45
102	51053	3	39.9	25.4	22.2	51.0	79.5	B.S.	.91
102	51044	6	39.9	25.4	22.2	51.0	79.5	B.S.	.91
102	1189	10	39.9	25.4	22.2	51.0	79.5	B.S.	.91
102	2023185	10	39.9	38.1	34.9	51.0	76.0	F.S.	1.59
102	2023182	13	39.9	38.1	34.9	51.0	76.0	F.S.	1.59
102	2023187	16	39.9	38.1	34.9	51.0	76.0	F.S.	1.59
108	50553	10	20.7	30.2	23.8	54.0	85.5	B.S.	1.09
108	25939	13	20.7	30.2	23.8	54.0	85.5	B.S.	1.09
121	51222	8	22.2	39.7	34.9	38.1	92.0	D.I.	1.59
121	51231	10	22.2	39.7	34.9	38.1	92.0	D.I.	1.59
121	11622	13	22.2	39.7	34.9	38.1	92.0	D.I.	1.59
124	2026411	10	44.4	31.8	28.6	57.0	103	F.S.	1.63
124	62149	10	46.9	33.3	28.6	57.0	103	F.S.	1.13
124	2026413	13	44.4	31.8	28.6	57.0	103	F.S.	1.63
124	2026409	16	44.4	31.8	28.6	57.0	103	F.S.	1.63
127	51071	8	28.6	25.4	22.2	38.1	102	F.S.	1.13
127	51062	10	28.6	25.4	22.2	38.1	102	F.S.	1.13
127	25948	11	28.6	25.4	22.2	38.1	102	F.S.	1.13
133	2026426	16	39.8	38.1	34.9	52.3	98.4	F.S.	1.81
133	2026422	19	39.8	38.1	34.9	52.3	98.4	F.S.	1.81
149	2023133	16	47.6	44.5	41.3	63.5	111	F.S.	2.72
149	2023136	19	47.6	44.5	41.3	63.5	111	F.S.	2.72
149	2023134	22	47.6	44.5	41.3	63.5	111	F.S.	2.72
152	51124	10	41.3	28.6	25.4	57.0	125	F.S.	1.81
152	51375	13	34.9	38.1	31.8	79.5	121	B.S.	3.18
152	13014	13	41.3	28.6	25.4	57.0	125	F.S.	1.81
152	60695	13	60.5	44.5	31.8	79.5	121	F.S.	2.13
152	2023263	16	63.5	58.5	55.5	79.5	108	F.S.	4.31
152	1410	19	34.9	38.1	31.8	79.5	121	B.S.	3.18
152	2023257	19	63.5	58.5	55.5	79.5	108	F.S.	4.31
152	2023261	22	63.5	58.5	55.5	79.5	108	F.S.	4.31
178	61872	6	46.9	33.3	19.1	60.5	159	B.S.	1.81
178	51437	6	47.6	34.9	19.1	60.5	159	B.S.	2.81
178	3203	10	47.6	34.9	19.1	60.5	159	B.S.	2.81
191	2026452	16	39.9	38.1	34.9	52.5	176	F.S.	3.40
191	2026450	19	39.9	38.1	34.9	52.5	160	F.S.	3.40
194	51605	10	39.9	38.1	31.8	60.5	157	D.I.	3.18
194	5498	13	39.9	38.1	31.8	60.5	157	D.I.	3.18
194	51614	16	39.9	38.1	31.8	60.5	157	D.I.	3.18

Custom sheaves are available. See page 287 for ordering details.

McKissick® Finished Bore Sheaves

"A" Nominal Outside Diameter (mm)	Stock Number	Wire Line Size (mm)	"D" Bore Size (mm)	Hub Width (mm)	Rim Width (mm)	"C" Nominal Hub Outside Diameter (mm)	"B" Nominal Tread Diameter (mm)	Material	Approx. Weight (kg)
203	2023466	26	70.0	63.5	60.5	102	133	F.S.	6.80
203	6353	29	70.0	63.5	60.5	102	137	F.S.	6.80
203	2023152	19	47.7	44.5	41.3	65.0	160	F.S.	4.54
203	61710	13	46.9	33.3	31.8	62.0	168	F.S.	3.63
203	51589	13	47.6	38.1	34.9	62.0	168	F.S.	3.18
203	2023144	13	47.7	44.5	41.3	65.0	160	F.S.	4.54
203	51598	16	47.6	38.1	34.9	62.0	168	F.S.	3.18
203	2023146	16	47.7	44.5	41.3	65.0	160	F.S.	4.54
203	5194	19	47.6	38.1	34.9	62.0	168	F.S.	3.18
203	2028226	19	63.5	58.5	54.0	82.5	156	F.S.	5.67
203	2023403	19	65.0	58.5	54.0	82.5	156	F.S.	4.65
203	2023385	19	63.5	58.5	54.0	82.5	156	F.S.	5.67
203	2023765	19	65.0	58.5	54.0	82.5	156	C.S.	4.65
216	61747	10	46.9	33.3	25.4	70.0	191	D.I.	4.99
248	2026492	10	76.0	55.6	25.4	95.5	222	F.S.	4.08
251	51918	10	76.0	44.5	28.6	95.5	217	F.S.	6.35
251	51749	13	34.9	38.1	34.9	82.5	216	F.S.	4.31
251	2023154	13	47.6	44.5	41.3	65.0	211	F.S.	6.58
251	6040	13	76.0	44.5	28.6	95.5	217	B.S.	6.35
251	5675	16	34.9	38.1	34.9	82.5	216	F.S.	4.31
251	2023169	16	47.6	44.5	41.3	65.0	211	F.S.	6.58
251	2023173	19	47.6	44.5	41.3	65.0	211	F.S.	6.58
251	2023435	19	65.0	58.5	55.5	89.0	206	F.S.	7.30
251	2023419	22	63.5	58.5	55.5	89.0	206	F.S.	6.80
251	2023427	26	63.5	58.5	55.5	89.0	206	F.S.	6.80
254	2023484	28	70.0	63.5	60.5	102	187	F.S.	8.62
254	2023784	28	102	63.5	60.5	146	187	F.S.	12.3
302	62096	6	76.0	55.5	25.4	95.5	273	D.I.	5.44
302	6193	10	76.0	58.5	25.4	95.5	273	D.I.	5.08
305	2023247	16	47.7	44.5	41.3	82.5	257	F.S.	8.15
305	2023234	19	47.7	44.5	41.3	82.5	248	F.S.	8.15
305	2023251	22	47.7	44.5	41.3	82.5	260	F.S.	8.15
305	2026531	16	76.0	44.5	41.3	114	257	R.F.	7.26
305	52285	19	76.0	44.5	41.3	114	248	R.F.	7.26
305	2030851	16	63.5	58.5	55.5	114	257	R.F.	10.9
305	2030847	19	63.5	58.5	55.5	114	248	R.F.	10.9
305	60007	19	70.0	58.5	55.5	114	248	R.F.	10.9
305	2026537	19	76.0	55.5	55.5	114	248	R.F.	10.9
305	74724	19	76.0	58.5	55.5	114	248	R.F.	10.9
305	2030842	22	63.5	58.5	55.5	114	260	R.F.	10.9
305	2023553	22	70.0	63.5	60.5	114	260	R.F.	12.7
305	62283	22	76.0	55.5	55.5	114	260	R.F.	10.9
305	4016594	22	76.0	44.5	41.3	114	260	R.F.	10.4
305	2030845	26	63.5	58.5	55.5	102	238	R.F.	10.9
305	2023551	28	70.0	63.5	60.5	114	238	R.F.	10.9
330	33653	10	63.5	38.1	28.6	89.0	295	R.F.	6.35
330	50704	13	63.5	38.1	28.6	89.0	295	R.F.	6.35
356	2023249	16	47.7	44.5	41.3	82.5	308	R.F.	9.07
356	2023243	19	47.7	44.5	41.3	82.5	299	R.F.	9.07
356	2023250	22	47.7	44.5	41.3	82.5	311	R.F.	9.07
356	2023567	22	70.0	63.5	60.5	114	311	R.F.	12.7
356	2023570	26	70.0	63.5	60.5	114	289	R.F.	12.7
356	2023564	28	70.0	63.5	60.5	114	289	R.F.	12.7
356	* 52720	13	108	63.5	34.9	129	321	D.I.	6.80
356	4013098	16	63.5	44.5	41.3	114	308	R.F.	14.1
356	4013187	16	60.5	44.5	41.3	114	308	R.F.	13.6
356	2029220	16	110	55.3	52.5	146	308	R.F.	13.6
356	4013196	19	60.5	44.5	41.3	114	299	R.F.	13.6
356	4013105	19	63.5	44.5	41.3	114	299	R.F.	14.1
356	4016503	19	82.5	58.5	55.5	140	299	R.F.	15.4
356	2029222	19	110	55.3	52.5	146	299	R.F.	14.5

McKissick® Roll-Forged sheaves highlighted above in bold italic are available with reduced lead times due to our advanced manufacturing process.

*Without flame hardening

Custom sheaves are available. See page 287 for ordering details.

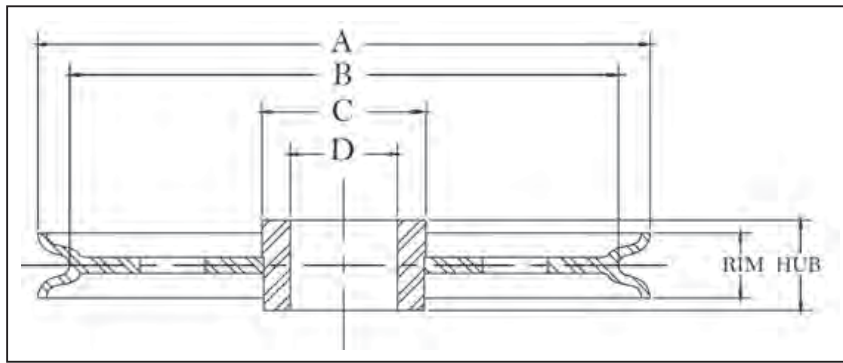
"A" Nominal Outside Diameter (mm)	Stock Number	Wire Line Size (mm)	"D" Bore Size (mm)	Hub Width (mm)	Rim Width (mm)	"C" Nominal Hub Outside Diameter (mm)	"B" Nominal Tread Diameter (mm)	Material	Approx. Weight (kg)
356	4013114	22	63.5	44.5	41.3	114	311	R.F.	13.6
356	52695	22	63.5	58.5	54.0	114	311	R.F.	20.4
406	4010000	13	108	70.0	60.3	146	362	R.F.	20.0
406	4010046	19	108	70.0	63.5	146	340	R.F.	11.3
406	4010171	22	76.0	55.5	55.5	114	329	R.F.	15.9
406	4013294	22	76.0	58.5	55.5	114	329	R.F.	21.3
406	4013258	22	82.5	58.5	55.5	114	329	R.F.	21.3
406	4010126	26	108	70.0	63.5	146	340	R.F.	19.1
432	62559	16	120	70.0	63.5	165	381	R.F.	23.6
457	2026599	19	108	70.0	55.5	165	406	R.F.	24.5
457	4010493	22	89.0	58.7	55.5	140	379	R.F.	29.0
457	2029269	22	155	73.0	66.5	203	379	R.F.	39.0
457	4013490	26	82.5	58.5	55.5	140	378	R.F.	24.0
457	4013524	26	89.0	58.5	55.5	140	378	R.F.	29.0
457	2023608	26	114	76.0	70.0	165	384	R.F.	27.2
457	2023602	28	114	76.0	70.0	165	384	R.F.	27.2
508	*4014024	8	108	70.0	34.9	146	479	R.F.	20.4
508	4010616	19	89.0	58.5	55.5	140	457	R.F.	29.9
508	4010885	19	108	70.0	54.0	165	457	R.F.	36.3
508	2029300	22	155	73.0	66.5	203	430	R.F.	31.8
508	4010634	26	89.0	58.5	55.5	140	419	R.F.	36.7
508	4013613	26	95.0	58.5	55.5	140	419	R.F. 7	34.5
508	2029304	26	155	73.0	66.5	203	419	R.F.	36.3
508	4010625	22	89.0	58.5	55.5	140	430	R.F.	33.6
508	4010901	26	108	70.0	54.0	165	419	R.F.	36.3
610	4012749	14	165	85.5	79.5	203	559	R.F.	67.0
610	*4014408	16	120	70.0	38.1	165	553	R.F.	54.0
610	2026108	22	165	85.5	79.5	203	530	R.F.	58.1
610	4011385	26	76.0	63.5	60.5	114	537	R.F.	56.7
610	4011214	26	114	76.0	70.0	165	537	R.F.	61.2
610	4012785	26	155	73.0	66.5	203	537	R.F.	59.0
610	2025931	26	165	85.5	79.5	203	537	R.F.	56.7
610	4011223	28	114	76.0	70.0	165	510	R.F.	59.0
610	2026646	28	120	70.0	70.0	165	510	R.F.	57.6
610	4012794	28	155	73.0	66.5	203	510	R.F.	54.0
610	2029333	28	165	85.5	79.5	203	510	R.F.	60.0
610	4011410	38	165	85.5	79.5	210	508	R.F.	84.3
762	2026302	22	165	85.5	79.5	203	686	R.F.	84.3
762	2029351	26	165	85.5	79.5	203	686	R.F.	85.0
762	2029375	26	200	89.0	79.5	241	686	R.F.	116
762	2029364	28	165	85.5	79.5	203	686	R.F.	84.3
762	2029378	28	200	89.0	79.5	241	670	R.F.	100
762	2029382	32	200	89.0	79.5	241	670	R.F.	102
762	4011839	38	200	89.0	79.5	241	660	R.F.	111
914	4012222	26	225	92.0	82.5	279	794	R.F.	160
914	4012160	28	165	85.5	79.5	210	819	R.F.	154
914	2027080	28	225	92.0	82.5	279	819	R.F.	140
914	2027967	32	200	89.0	82.5	241	819	R.F.	154
914	2026695	32	225	92.0	82.5	279	819	R.F.	163
914	4012730	38	200	89.0	82.5	241	813	R.F.	137
1067	4015844	38	225	92.0	82.5	279	978	R.F.	209
1067	4015728	28	276	92.0	85.5	318	978	R.F.	201
1067	4015853	32	225	92.0	82.5	279	975	R.F.	209
1067	4015719	32	276	92.0	85.5	318	975	R.F.	201
1219	4016736	52	352	105	95.5	432	1067	R.F.	333
1270	4016745	32	352	105	95.5	432	1175	R.F.	306
1397	4016282	28	165	85.5	76.0	210	1299	R.F.	244
1524	4016754	35	352	105	92.1	432	1410	R.F.	425
60	4016763	38	352	105	92.1	432	1407	R.F.	425
1626	8060983	51	356	152	108	432	1473	R.F.	519
1829	4016772	44	394	105	95.0	483	1702	R.F.	812
1981	2032626	64	422	173	125	533	1813	R.F./F.	998

McKissick® Roll-Forged sheaves highlighted above in bold italic are available with reduced lead times due to our advanced manufacturing process.

*Without flame hardening groove

Custom sheaves are available. See page 287 for ordering details.

McKissick® Common Bore Sheaves



Common Bore Sheaves

- Roll-Forged sheaves are available in sizes up to 1981mm diameter.
- Common Bore or Plain Bore are terms used when there is merely a hole bored in the center of the sheave.
- Common Bore Sheaves are machined for a running fit for the shaft size listed

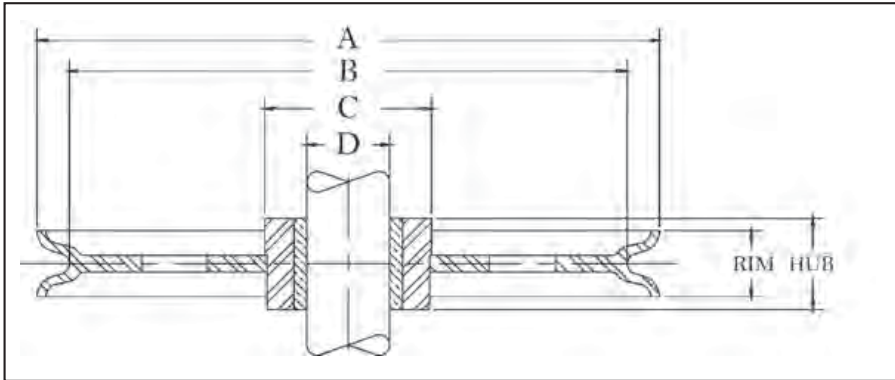
"A" Nominal Outside Diameter (mm)	Stock Number	Wireline Size (mm)	"D" Bore Size (mm)	Hub Width (mm)	Rim Width (mm)	"C" Nominal Hub Outside Diameter (mm)	"B" Nominal Tread Diameter (mm)	Material	Approx. Weight (kg)
76.0	905051	5	9.55	19.8	19.1	25.4	60.5	P.M.	.45
76.0	905079	5	12.7	19.8	19.1	25.4	60.5	P.M.	.45
76.0	905097	5	15.9	19.8	19.1	25.4	60.5	P.M.	.45
76.0	905024	6	9.55	12.7	12.7	25.4	66.5	P.M.	.34
76.0	905042	6	12.7	12.7	12.7	25.4	66.5	P.M.	.34
76.0	15410	10	9.55	19.8	19.1	25.4	60.5	P.M.	.45
76.0	905088	10	12.7	19.8	19.1	25.4	60.5	P.M.	.45
76.0	905104	10	15.9	19.8	19.1	25.4	60.5	P.M.	.27
102	905113	5	12.7	19.1	15.9	34.9	89.0	P.M.	.45
102	905131	5	15.9	19.1	15.9	34.9	89.0	P.M.	.45
102	905122	8	12.7	19.1	15.9	34.9	89.0	P.M.	.45
102	905140	8	15.9	19.1	15.9	34.9	89.0	P.M.	.45
102	905168	10	12.7	20.6	19.1	38.1	82.5	P.M.	.57
102	905186	10	15.9	20.6	19.1	38.1	82.5	P.M.	.57
102	905202	10	19.1	20.6	19.1	38.1	82.5	P.M.	.57
102	905220	13	12.7	27.0	25.4	41.3	81.0	P.M.	.68
102	905248	13	15.9	27.0	25.4	41.3	81.0	P.M.	.68
102	905266	13	19.1	27.0	25.4	41.3	81.0	P.M.	.68
127	905275	5	15.9	23.8	22.2	57.0	108	P.M.	1.02
127	905293	5	19.1	23.8	22.2	57.0	108	P.M.	1.02
127	905284	10	15.9	23.8	22.2	57.0	108	P.M.	1.25
127	905300	10	19.1	23.8	22.2	57.0	108	P.M.	1.02
127	905328	13	15.9	27.0	25.4	57.0	102	P.M.	1.13
127	905364	13	15.9	30.2	28.6	57.0	102	D.I.	1.81
127	905346	13	19.1	27.0	25.4	57.0	102	P.M.	1.13
127	905382	13	19.1	30.2	28.6	57.0	102	D.I.	1.81
127	905408	13	22.2	30.2	28.6	57.0	102	D.I.	1.81
152	905426	10	12.7	20.6	19.1	47.6	127	D.I.	1.13
152	905480	10	12.7	27.0	25.4	47.6	127	D.I.	1.13
152	905462	10	15.9	20.6	19.1	47.6	127	P.M.	1.13
152	905523	10	19.1	27.0	25.4	47.6	127	P.M.	1.89
152	909020	13	22.2	27.0	25.4	47.6	124	P.M.	1.70
152	909066	16	19.1	33.3	31.8	47.6	121	P.M.	1.70
152	909084	16	22.2	33.3	31.8	47.6	121	P.M.	1.70
152	909100	16	25.4	33.3	31.8	47.6	121	P.M.	1.70
152	909164	19	25.4	39.7	38.1	76.2	117	P.M.	3.06
171	905694	6	19.1	30.2	28.6	51.0	149	D.I.	2.27
171	905710	6	25.4	30.2	28.6	51.0	149	D.I.	2.27
171	905701	10	19.1	30.2	28.6	51.0	149	D.I.	2.27
171	905729	10	25.4	30.2	28.6	51.0	149	D.I.	2.27
178	905621	13	19.1	27.0	25.4	51.0	140	D.I.	2.38
178	905649	13	22.2	27.0	25.4	51.0	140	D.I.	2.38
203	905747	13	19.1	28.6	25.4	60.5	175	D.I.	2.27
203	905765	13	22.2	28.6	25.4	60.5	175	D.I.	2.27

Custom sheaves are available. See page 287 for ordering details.

"A" Nominal Outside Diameter (mm)	Stock Number	Wireline Size (mm)	"D" Bore Size (mm)	Hub Width (mm)	Rim Width (mm)	"C" Nominal Hub Outside Diameter (mm)	"B" Nominal Tread Diameter (mm)	Material	Approx. Weight (kg)
203	905783	13	25.4	28.6	25.4	60.5	175	D.I.	3.86
203	905809	16	19.1	34.9	31.8	51.0	165	D.I.	2.72
203	905827	16	22.2	34.9	31.8	51.0	165	D.I.	3.06
203	909306	16	22.2	34.9	31.8	63.5	168	D.I.	3.86
203	905845	16	25.4	34.9	31.8	51.0	165	D.I.	3.06
203	909324	16	25.4	34.9	31.8	63.5	168	D.I.	3.86
203	909342	16	28.6	34.9	31.8	63.5	168	D.I.	3.86
203	909360	16	31.8	34.9	31.8	63.5	168	D.I.	3.86
203	909388	16	38.1	34.9	31.8	63.5	168	D.I.	3.86
254	905925	13	22.2	28.6	25.4	73.0	222	D.I.	4.54
254	905943	13	25.4	28.6	25.4	73.0	222	D.I.	4.54
254	905961	16	19.1	34.9	31.8	51.0	216	D.I.	4.20
254	905989	16	22.2	34.9	31.8	51.0	216	D.I.	4.20
254	909681	16	22.2	34.9	31.8	76.0	216	D.I.	6.12
254	906005	16	25.4	34.9	31.8	76.0	216	D.I.	4.20
254	909761	16	38.1	34.9	31.8	76.0	216	D.I.	6.12
305	906041	13	25.4	28.6	25.4	102	270	D.I.	7.48
305	906087	13	31.8	28.6	25.4	102	270	D.I.	7.48
305	906121	19	25.4	41.3	38.1	70.0	260	D.I.	8.28
305	910107	19	25.4	41.3	38.1	133	260	D.I.	11.6
305	906149	19	28.6	41.3	38.1	70.0	260	D.I.	8.28
305	910125	19	28.6	41.3	38.1	133	260	D.I.	11.6
305	906167	19	31.8	41.3	38.1	70.0	260	D.I.	8.28
305	910143	19	31.8	41.3	38.1	133	260	D.I.	11.6
305	910161	19	38.1	41.3	38.1	133	260	D.I.	11.6
305	906229	22	31.8	51.0	44.5	95.5	254	D.I.	9.19
305	906247	22	38.1	51.0	44.5	95.5	254	D.I.	9.19
356	*906283	19	28.6	41.3	38.1	82.5	311	C.I.	12.0
356	*906309	19	31.8	41.3	38.1	82.5	311	C.I.	12.0
356	*910456	22	38.1	41.3	38.1	89.0	308	C.I.	15.4
356	*910447	22	31.8	41.3	38.1	89.0	308	C.I.	15.4
406	910713	26	51.0	51.0	44.5	114	346	R.F.	21.3
406	910697	26	38.1	51.0	44.5	114	346	R.F.	21.3
457	910820	26	51.0	51.0	47.6	102	378	R.F.	28.1

Material: B.S.=Bar Steel, C.I.=Cast Iron, F.S.=Forged Steel, D.I.=Ductile Iron, C.S.=Cast Steel, P.M.=Powdered Metal, R.F.=Roll-Forged.
 McKissick® Roll-Forged sheaves highlighted above in bold italic are available with reduced lead times due to our advanced manufacturing process.
 *Without flame hardening groove

McKissick® Bronze Bushed Sheaves



Bronze Bushed Sheaves

- Roll-Forged sheaves are available in sizes up to 1981mm diameter.
- McKissick® Bronze Bushed Sheaves are equipped with S.A.E. 660 Bronze Bushings for cold finished shafts with "Figure 8" oil groove.
- For sizes not listed, McKissick Finished Bore Sheaves can be equipped with bronze bushings at an optional charge.

"A" Nominal Outside Diameter (mm)	Stock Number	Wireline Size (mm)	"D" Shaft Size (mm)	Hub Width (mm)	Rim Width (mm)	"C" Nominal Hub Outside Diameter (mm)	"B" Nominal Tread Diameter (mm)	Material	Approx. Weight (kg)
57.0	907004	6	9.55*	15.9	14.3	19.1	47.6	B.S.	.34
76.0	907059	5	9.55*	19.8	19.1	25.4	60.5	P.M.	.45
76.0	907077	5	12.7*	19.8	19.1	25.4	60.5	P.M.	.45
76.0	907095	5	15.9*	19.8	19.1	25.4	60.5	P.M.	.45
76.0	907022	6	9.55*	12.7	12.7	25.4	66.5	P.M.	.34
76.0	907040	6	12.7*	12.7	12.7	25.4	66.5	P.M.	.34
76.0	460165	6	12.7*	33.3	30.0	28.6	52.5	B.S.	.45
76.0	2030896	8	19.1	25.4	22.2	44.5	57.0	P.M.	.68
76.0	907068	10	9.55*	19.1	19.1	25.4	60.5	P.M.	.45
76.0	916101	10	9.55*	19.8	19.1	38.1	60.5	B.S.	.45
76.0	907086	10	12.7*	19.1	19.1	25.4	60.5	P.M.	.45
76.0	916110	10	12.7*	19.8	19.1	38.1	60.5	B.S.	.45
76.0	460156	10	12.7	33.3	30.0	28.6	52.5	B.S.	.45
76.0	907102	10	15.9*	19.1	19.1	25.4	60.5	P.M.	.45
76.0	2030895	10	19.1	25.4	22.2	44.5	57.0	P.M.	.68
76.0	2023202	11	19.1	25.4	22.2	44.5	57.0	P.M.	.68
76.0	916129	13	9.55*	31.8	28.6	47.6	51.0	B.S.	.60
76.0	916138	13	12.7*	31.8	28.6	47.6	51.0	B.S.	.68
102	460290	3	25.4	25.4	22.2	51.0	79.5	B.S.	.91
102	907111	5	12.7*	19.1	15.9	34.9	89.0	P.M.	.45
102	907139	5	15.9*	19.1	15.9	34.9	89.0	P.M.	.45
102	916147	6	12.7*	20.6	19.1	51.0	82.5	B.S.	.68
102	916165	6	19.1*	20.6	19.1	51.0	82.5	B.S.	.68
102	460307	6	25.4	25.4	22.2	51.0	79.5	B.S.	.91
102	907120	8	12.7*	19.1	15.9	34.9	89.0	P.M.	.45
102	907148	8	15.9*	19.1	15.9	34.9	89.0	P.M.	.45
102	907166	10	12.7*	20.6	19.1	38.1	82.5	P.M.	.57
102	916156	10	12.7*	20.6	19.1	51.0	82.5	B.S.	.68
102	907184	10	15.9*	20.6	19.1	38.1	82.5	P.M.	.64
102	907200	10	19.1*	20.6	19.1	38.1	82.5	P.M.	.57
102	460316	10	25.4	25.4	22.2	51.0	79.5	B.S.	.91
102	907228	13	12.7*	27.0	25.4	41.3	81.0	P.M.	.68
102	916192	13	12.7*	28.6	25.4	41.3	81.0	B.S.	.91
102	907246	13	15.9*	27.0	25.4	41.3	81.0	P.M.	.68
102	907264	13	19.1*	27.0	25.4	41.3	81.0	P.M.	.68
102	2028640	10	19.1*	20.6	19.1	51.0	82.5	B.S.	.68
105	2023186	10	25.4	38.1	34.9	51.0	76.0	F.S.	1.59
105	2029618	13	25.4	38.1	34.9	51.0	76.0	F.S.	1.59
105	2023188	16	25.4	38.1	34.9	51.0	76.0	F.S.	1.59
108	460450	10	15.9*	30.2	23.8	54.0	85.5	B.S.	1.09
108	460441	13	15.9*	30.2	23.8	54.0	85.5	B.S.	1.09
121	460575	8	15.9	39.7	34.9	38.1	92.0	D.I.	1.59
121	460584	10	15.9	39.7	34.9	38.1	92.0	D.I.	1.59
121	460593	13	15.9	39.7	34.9	38.1	92.0	D.I.	1.59

Custom sheaves are available. See page 287 for ordering details.

McKissick® Bronze Bushed Sheaves

"A" Nominal Outside Diameter (mm)	Stock Number	Wireline Size (mm)	"D" Shaft Size (mm)	Hub Width (mm)	Rim Width (mm)	"C" Nominal Hub Outside Diameter (mm)	"B" Nominal Tread Diameter (mm)	Material	Approx. Weight (kg)
124	460478	10	31.8	31.8	28.6	57.0	103	F.S.	1.63
124	2026414	13	31.8	31.8	28.6	57.0	103	F.S.	1.63
124	460469	16	31.8	31.8	28.6	57.0	103	F.S.	1.63
127	907273	5	15.9*	23.8	22.2	57.0	108	P.M.	1.02
127	907291	5	19.1*	23.8	22.2	57.0	108	P.M.	1.02
127	460511	8	19.1	25.4	22.2	38.1	102	F.S.	1.13
127	907282	10	15.9*	23.8	22.2	57.0	108	P.M.	1.02
127	907308	10	19.1*	23.8	22.2	57.0	108	P.M.	1.02
127	460520	10	19.1	25.4	22.2	38.1	102	F.S.	1.13
127	460539	11	19.1	25.4	22.2	38.1	102	F.S.	1.13
127	907326	13	15.9*	27.0	25.4	57.0	102	P.M.	1.13
127	907362	13	15.9*	30.2	28.6	57.0	102	D.I.	1.81
127	907344	13	19.1*	30.2	25.4	57.0	102	P.M.	1.13
127	907380	13	19.1*	30.2	28.6	57.0	102	D.I.	1.81
127	907406	13	22.2*	30.2	28.6	57.0	102	D.I.	1.81
133	460628	16	25.4	38.1	34.9	52.5	98.5	F.S.	1.81
133	460637	19	25.4	38.1	34.9	52.5	98.5	F.S.	1.81
149	2023129	16	38.1	44.5	41.3	63.5	111	F.S.	2.72
149	2023137	19	38.1	44.5	41.3	63.5	111	F.S.	2.72
149	2023135	22	38.1	44.5	41.3	63.5	111	F.S.	2.72
152	907424	10	12.7*	20.6	19.1	47.6	127	P.M.	1.13
152	907488	10	12.7*	27.0	25.4	47.6	127	P.M.	1.13
152	907442	10	15.9*	20.6	19.1	47.6	127	P.M.	1.13
152	907503	10	15.9*	27.0	25.4	47.6	127	P.M.	1.13
152	907460	10	19.1*	20.6	19.1	47.6	127	P.M.	1.13
152	907521	10	19.1*	27.0	25.4	47.6	127	P.M.	1.13
152	2026483	10	19.1*	27.0	25.4	51.0	130	F.S.	1.81
152	916245	10	22.2*	27.0	25.4	51.0	130	F.S.	1.81
152	2028641	10	25.4*	27.0	25.4	51.0	130	F.S.	1.81
152	460682	10	31.8	28.4	25.4	57.0	125	F.S.	1.68
152	907549	13	15.9*	30.2	28.6	47.6	124	P.M.	2.27
152	907567	13	19.1*	30.2	28.6	47.6	124	P.M.	2.14
152	913024	13	22.2*	27.0	25.4	47.6	124	P.M.	1.70
152	460879	13	25.4	38.1	31.8	79.5	121	B.S.	3.18
152	460673	13	31.8*	28.6	25.4	57.0	125	F.S.	1.81
152	2028048	13	25.4*	27.0	25.4	47.6	124	P.M.	4.31
152	2026938	16	19.1*	27.0	25.4	51.0	130	F.S.	3.18
152	913060	16	19.1*	33.3	31.8	47.6	121	P.M.	1.81
152	916254	16	22.2*	27.0	25.4	51.0	130	F.S.	1.81
152	913088	16	22.2*	33.3	31.8	47.6	121	P.M.	1.70
152	2026822	16	25.4*	27.0	25.4	51.0	130	F.S.	1.81
152	913104	16	25.4*	33.3	31.8	47.6	121	P.M.	1.70
152	2023264	16	51.0	58.5	55.5	79.5	108	F.S.	4.31
152	460897	19	25.4	38.1	31.8	79.5	121	B.S.	3.18
152	913168	19	25.4	39.7	38.1	76.0	117	P.M.	3.06
152	2023260	19	51.0	58.5	55.5	79.5	108	F.S.	4.31
152	2023262	22	51.0	58.5	55.5	79.5	108	F.S.	4.31
171	907692	6	19.1*	30.2	28.6	51.0	149	D.I.	2.27
171	907718	6	25.4*	30.2	28.6	51.0	149	D.I.	2.27
171	907709	10	19.1*	30.2	28.6	51.0	149	D.I.	2.27
171	907727	10	25.4*	30.2	28.6	51.0	149	D.I.	2.27
178	461020	6	38.1	34.9	19.1	60.5	159	B.S.	2.81
178	461039	10	38.1	34.9	19.1	60.5	159	B.S.	2.81
178	907629	13	19.1*	27.0	25.4	51.0	143	D.I.	1.93
178	907647	13	22.2*	27.0	25.4	51.0	143	D.I.	1.93
191	460986	16	25.4	38.1	34.9	52.5	160	F.S.	3.40
191	460977	19	25.4	38.1	34.9	52.5	160	F.S.	3.40
194	461262	10	25.4	38.1	31.8	60.5	157	D.I.	3.18
194	461280	13	25.4	38.1	31.8	60.5	157	D.I.	3.18
194	461271	16	25.4	38.1	31.8	60.5	157	D.I.	3.18
203	2023467	26	57.0	63.5	60.3	114	137	F.S.	8.16
203	2023463	28	57.0	63.5	60.3	114	137	F.S.	8.16

Custom sheaves are available. See page 287 for ordering details.

McKissick® Bronze Bushed Sheaves

"A" Nominal Outside Diameter (mm)	Stock Number	Wireline Size (mm)	"D" Shaft Size (mm)	Hub Width (mm)	Rim Width (mm)	"C" Nominal Hub Outside Diameter (mm)	"B" Nominal Tread Diameter (mm)	Material	Approx. Weight (kg)
203	2023153	19	38.1	44.5	41.3	65.0	160	F.S.	4.54
203	907745	13	19.1*	28.6	25.4	60.5	175	D.I.	2.27
203	916487	13	19.1*	34.9	31.8	51.0	168	F.S.	3.18
203	907763	13	22.2*	28.6	25.4	60.5	175	D.I.	2.27
203	916502	13	22.2*	34.9	31.8	51.0	168	F.S.	3.18
203	907781	13	25.4*	28.6	25.4	60.5	175	D.I.	2.27
203	916520	13	25.4*	34.9	31.8	51.0	168	F.S.	3.18
203	2026841	13	28.6*	34.9	31.8	51.0	168	F.S.	3.18
203	2026844	13	31.8*	34.9	31.8	51.0	168	F.S.	3.18
203	461235	13	38.1	38.1	34.9	62.0	168	F.S.	3.18
203	2023145	13	38.1	44.5	41.3	65.0	160	F.S.	4.54
203	907807	16	19.1*	34.9	31.8	51.0	165	D.I.	3.06
203	913300	16	22.2*	34.9	31.8	51.0	165	D.I.	3.06
203	913328	16	25.4*	34.9	31.8	63.5	168	D.I.	3.86
203	913346	16	28.6*	34.9	31.8	63.5	168	D.I.	3.86
203	913364	16	31.8*	34.9	31.8	63.5	168	D.I.	3.86
203	913382	16	38.1*	34.9	31.8	63.5	168	D.I.	3.86
203	461244	16	38.1	38.1	34.9	62.0	168	F.S.	3.18
203	2023147	16	38.1	44.5	41.3	65.0	160	F.S.	4.54
203	461253	19	38.1	38.1	34.9	62.0	168	F.S.	3.18
203	2028227	19	51.0	58.5	54.0	82.5	156	F.S.	5.67
203	461397	19	70.0	58.5	55.5	95.5	152	R.F.	4.76
203	2023386	22	51.0	58.5	54.0	82.5	156	F.S.	5.67
203	461501	32	89.0	63.5	60.5	127	138	C.S.	6.80
251	462831	10	63.5	44.5	28.6	95.0	217	F.S.	6.35
251	462154	13	25.4*	38.1	34.9	82.5	216	F.S.	4.31
251	2023166	13	38.1	44.5	41.3	65.0	211	F.S.	6.58
251	462840	13	63.5	44.5	28.6	95.5	217	F.S.	6.35
251	462163	16	25.4*	38.1	34.9	82.5	216	F.S.	4.31
251	2023170	16	38.1	44.5	41.3	65.0	211	F.S.	6.58
251	2023174	19	38.1	44.5	41.3	65.0	211	F.S.	6.58
251	2023420	22	51.0	58.5	55.5	89.0	206	F.S.	6.80
251	2023428	25	51.0	58.5	55.5	89.0	206	F.S.	6.80
254	2026861	28	57.0	63.5	60.5	114	187	F.S.	12.3
254	2023785	28	89.0	63.5	60.5	146	187	F.S.	12.7
254	907923	13	22.2*	28.6	25.4	73.0	222	D.I.	4.54
254	907941	13	25.4*	28.6	25.4	73.0	222	D.I.	5.35
254	907969	16	19.1*	34.9	31.8	51.0	216	D.I.	4.20
254	916717	16	22.2*	34.9	31.8	70.0	216	F.S.	4.54
254	913685	16	22.2*	34.9	31.8	76.0	216	D.I.	6.12
254	908003	16	25.4*	34.9	31.8	51.0	216	D.I.	4.20
254	916726	16	25.4*	34.9	31.8	70.0	216	F.S.	6.35
254	2027291	16	31.8*	34.9	31.8	70.0	216	F.S.	6.35
254	913765	16	38.1*	34.9	31.8	76.0	216	D.I.	5.72
254	913863	19	38.1*	41.3	38.1	89.0	210	F.S.	7.26
254	916824	19	31.8*	41.3	38.1	89.0	197	F.S.	7.71
254	913845	19	31.8*	41.3	38.1	89.0	210	F.S.	7.26
254	916833	19	38.1*	41.3	38.1	82.5	197	F.S.	7.71
254	913807	19	25.4*	41.3	38.1	89.0	210	F.S.	7.26
302	462323	10	63.5	58.7	25.4	95.5	273	D.I.	5.08
305	2023227	16	38.1	44.5	41.3	82.5	260	F.S.	9.98
305	2023235	19	38.1	44.5	41.3	82.5	238	F.S.	9.98
305	2023252	22	38.1	44.5	41.3	82.5	260	F.S.	9.98
305	462564	16	63.5	44.5	41.3	114	271	R.F.	10.9
305	462573	19	63.5	44.5	41.3	114	238	R.F.	10.9
305	908049	13	25.4*	28.6	25.4	102	270	D.I.	7.48
305	908085	13	31.8*	28.6	25.4	102	270	D.I.	7.48
305	917002	16	25.4*	41.3	38.1	82.5	257	F.S.	8.16
305	917011	16	28.6*	41.3	38.1	82.5	257	F.S.	8.16
305	462387	16	51.0*	58.5	55.5	114	257	R.F.	11.8
305	908129	19	25.4*	41.3	38.1	70.0	260	D.I.	8.28
305	908147	19	28.6	41.3	38.1	70.0	260	D.I.	8.28
305	914121	19	28.6*	41.3	38.1	133	260	D.I.	11.6

McKissick® Roll-Forged sheaves highlighted above in bold italic are available with reduced lead times due to our advanced manufacturing process. *Self-lubricating bushing.

Custom sheaves are available. See page 287 for ordering details.

McKissick® Bronze Bushed Sheaves

"A" Nominal Outside Diameter (mm)	Stock Number	Wireline Size (mm)	"D" Shaft Size (mm)	Hub Width (mm)	Rim Width (mm)	"C" Nominal Hub Outside Diameter (mm)	"B" Nominal Tread Diameter (mm)	Material	Approx. Weight (kg)
610	4105382	26	140	73.0	66.5	203	537	R.F.	59.0
610	4100868	28	102	76.0	70.0	165	510	R.F.	49.9
610	4105391	28	140	73.0	66.5	203	510	R.F.	60.8
610	4105373	28	146	85.5	79.5	203	510	R.F.	62.1
762	4105426	22	146	85.5	79.5	203	686	R.F.	92.1
762	4101215	22	152	89.0	79.5	203	686	R.F.	63.5
762	4105435	26	146	85.5	79.5	203	686	R.F.	92.1
762	4105453	26	178	89.0	79.5	241	686	R.F.	95.7
762	4105444	28	146	85.5	79.5	203	686	R.F.	92.1
762	4105462	28	178	89.0	79.5	241	670	R.F.	95.7
762	4105471	28	178	89.0	79.5	241	670	R.F.	95.7

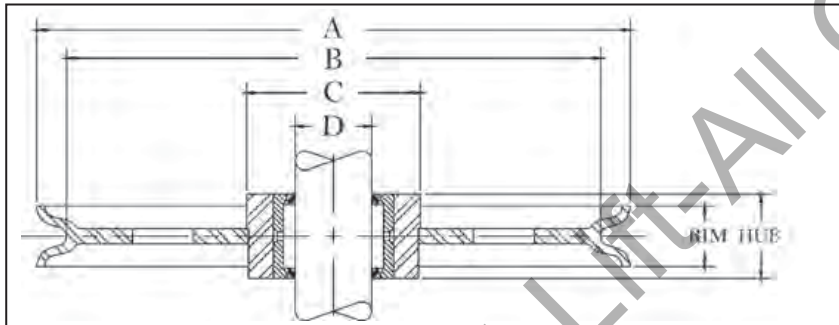
Self Lubricating Bronze Bushing.

Without Flame Hardening.

Material: B.S.=Bar Steel, C.I.=Cast Iron, F.S.=Forged Steel, D.I.=Ductile Iron, C.S.=Cast Steel, P.M.=Powdered Metal, R.F.=Roll-Forged.

McKissick® Roll-Forged sheaves highlighted above in bold italic are available with reduced lead times due to our advanced manufacturing process.

McKissick® Roller Bearing Sheaves



Roller Bearing Sheaves

- Roll-Forged sheaves are available in sizes up to 1981mm diameter.
- McKissick® Roller Bearing Sheaves are designed to operate on shafts carburized to 60 Rockwell C and groove to +/- .0005 of the indicated shaft size. Some sizes are available with an optional inner race. Check with Crosby Sales for prices and correct shaft size.
- Application should provide for 79mm running clearance over the hub width.
- For sizes not listed, McKissick Finished Bore Sheaves can be equipped with Roller Bearings at an optional charge.

"A" Nominal Outside Diameter (mm)	Stock Number	Wireline Size (mm)	"D" Shaft Size (mm)	Hub Width (mm)	Rim Width (mm)	"C" Nominal Hub Outside Diameter (mm)	"B" Nominal Tread Diameter (mm)	Material	Approx. Weight (kg)
102	472508	3	25.3	25.4	22.2	51.0	79.5	B.S.	.91
102	472517	6	25.3	25.4	22.2	51.0	79.5	B.S.	.91
102	472535	10	25.3	25.4	22.2	51.0	79.5	B.S.	.91
102	2025893	10	25.3	38.1	34.9	51.0	76.0	F.S.	1.59
102	2028063	13	25.3	38.1	34.9	51.0	76.0	F.S.	1.59
102	2025891	16	25.3	38.1	34.9	51.0	76.0	F.S.	1.59
124	472768	10	31.7	31.8	28.6	57.0	103	F.S.	1.63
124	472777	13	31.7	31.8	28.6	57.0	103	F.S.	1.63
124	472786	16	31.7	31.8	28.6	57.0	103	F.S.	1.63
133	2026427	16	25.3	38.1	34.9	52.5	98.5	F.S.	1.81
133	2026423	19	25.3	38.1	34.9	52.5	98.5	F.S.	1.81
149	2023141	16	38.0	44.5	41.3	63.5	111	F.S.	2.72
149	2023143	19	38.0	44.5	41.3	63.5	111	F.S.	2.72
149	2023142	22	38.0	44.5	41.3	63.5	111	F.S.	2.72

McKissick® Roll-Forged sheaves highlighted above in bold italic are available with reduced lead times due to our advanced manufacturing process.

* Without Flame Harden groove.

"A" Nominal Outside Diameter (mm)	Stock Number	Wireline Size (mm)	"D" Shaft Size (mm)	Hub Width (mm)	Rim Width (mm)	"C" Nominal Hub Outside Diameter (mm)	"B" Nominal Tread Diameter (mm)	Material	Approx. Weight (kg)
152	472875	13	50.5	44.5	31.8	79.5	121	F.S.	3.18
191	2025898	16	25.3	38.1	34.9	52.5	160	F.S.	3.40
191	2025892	19	25.3	38.1	34.9	52.5	160	F.S.	3.40
194	473311	10	25.3	38.1	31.8	50.5	157	D.I.	3.18
194	473320	13	25.3	38.1	31.8	60.5	157	D.I.	3.18
194	473339	16	25.3	38.1	31.8	60.5	157	D.I.	3.18
203	2023163	19	38.0	44.5	41.3	65.0	160	F.S.	4.54
203	2023155	13	38.0	44.5	41.3	65.0	160	F.S.	4.54
203	2023159	16	38.0	44.5	41.3	65.0	160	F.S.	4.54
203	2023404	19	50.5	58.5	54.0	82.5	156	F.S.	5.67
251	2026433	13	38.0	44.5	41.3	65.0	211	F.S.	6.58
251	2023179	16	38.0	44.5	41.3	65.0	211	F.S.	6.58
251	2023181	19	38.0	44.5	41.3	65.0	211	F.S.	6.58
251	2023436	19	50.5	58.5	55.6	89.0	206	F.S.	6.80
305	2023248	16	38.0	44.5	41.3	82.5	257	F.S.	8.16
305	2023236	19	38.0	44.5	41.3	82.5	248	F.S.	8.16
305	2026441	22	38.0	44.5	41.3	82.5	260	F.S.	8.16
305	474365	16	57.0	44.5	41.3	114	257	F.S.	7.26
305	474374	19	57.0	44.5	41.3	114	248	R.F.	7.26
356	2026445	16	38.0	44.5	41.3	82.5	305	R.F.	9.07
356	2026444	22	38.0	44.5	41.3	82.5	298	R.F.	9.07
356	474784	22	38.0	44.5	41.3	82.5	311	R.F.	9.07
356	4200563	16	50.5	44.5	41.3	114	308	R.F.	14.1
356	4200572	19	50.5	44.5	41.3	114	298	R.F.	14.1
406	4200705	22	63.5	58.5	55.5	114	329	R.F.	21.7
457	4201438	22	70.0	58.5	55.5	140	379	R.F.	19.4
457	4200867	25	70.0	58.5	55.5	140	378	R.F.	29.9
508	4200929	25	76.0	58.5	55.5	140	419	R.F.	34.9
610	4200117	25	57.0	63.5	60.5	140	537	R.F.	34.0

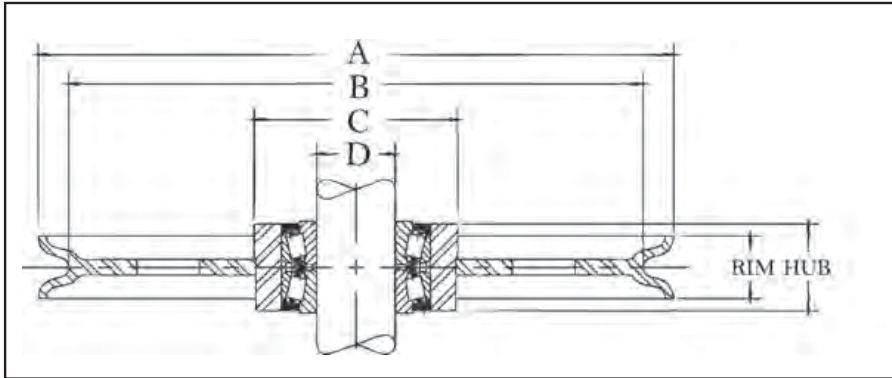
* Without Flame Hardening

Material: B.S.=Bar Steel, C.I.=Cast Iron, F.S.=Forged Steel, D.I.=Ductile Iron, C.S.=Cast Steel, P.M.=Powdered Metal, R.F.=Roll-Forged.

McKissick® Roll-Forged sheaves highlighted above in bold italic are available with reduced lead times due to our advanced manufacturing process.

Custom sheaves are available. See page 287 for ordering details.

McKissick® Tapered Bearing Sheaves



Tapered Bearing Sheaves

- Roll-Forged sheaves are available in sizes up to 1981mm diameter.
- Tapered Bearing Sheaves are designed to operate on shafts machined to +/- .0005 of the indicated shaft size.
- Applications should provide for tightening separator plates against bearing cones to adjust and insure proper function of bearing.
- For sizes not listed, McKissick® Finished Bore Sheaves can be equipped with tapered bearing at an optional charge.

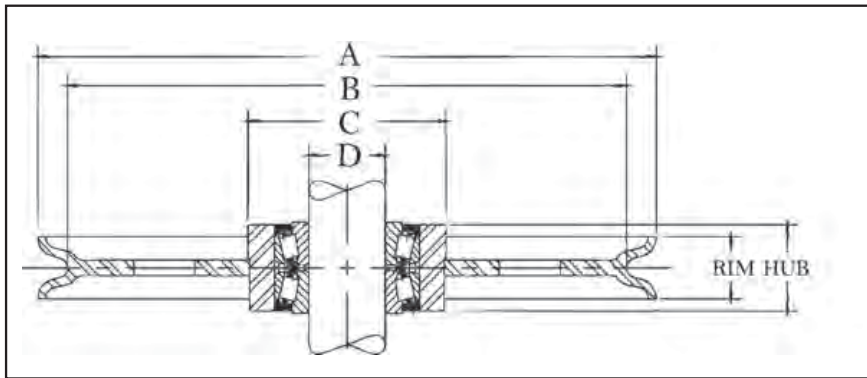
"A" Nominal Outside Diameter (mm)	Stock Number	Wireline Size (mm)	"D" Shaft Size (mm)	Hub Width (mm)	Rim Width (mm)	"C" Nominal Hub Outside Diameter (mm)	"B" Nominal Tread Diameter (mm)	Material	Approx. Weight (kg)
124	480269	10	19.0	34.9	28.6	57.0	103	F.S.	1.63
178	480777	6	19.0	34.9	19.1	60.5	159	B.S.	4.08
203	481017	13	19.0	34.9	31.8	62.0	168	F.S.	3.18
216	481044	10	19.0	34.9	25.4	70.0	191	D.I.	3.40
248	481295	10	38.1	58.5	25.4	95.5	222	F.S.	5.08
302	481552	6	38.1	58.5	25.4	95.5	273	D.I.	5.44
305	481455	19	38.1	58.5	55.5	114	248	R.F.	10.9
305	481446	22	38.1	58.5	55.5	114	260	R.F.	10.9
406	4302793	13	51.0	74.5	63.5	146	362	R.F.	22.7
406	4300599	19	51.0	74.5	63.5	146	340	R.F.	24.9
406	4300018	22	38.1	58.5	55.5	114	329	R.F.	16.8
406	4300054	26	51.0	74.5	63.5	146	340	R.F.	19.1
457	4300081	19	51.0	74.5	55.5	165	406	R.F.	18.1
508	*4302524	8	51.0	74.5	34.9	146	479	R.F.	24.5
508	4300161	19	51.0	74.5	54.0	165	457	R.F.	39.5
508	4300189	26	51.0	74.5	54.0	165	419	R.F.	38.1
610	4301721	14	108	89.0	79.5	203	559	R.F.	57.0
610	*4302720	16	70.0	74.5	38.1	165	552	R.F.	62.0
610	4300312	22	108	89.0	79.5	203	530	R.F.	57.0
610	4300321	26	108	89.0	79.5	194	537	R.F.	57.0
610	4300401	28	70.0	74.5	70.0	165	510	R.F.	36.0
610	4300330	28	108	89.0	79.5	203	510	R.F.	57.0
610	4300269	38	108	89.0	79.5	210	508	R.F.	57.0
762	4300483	22	108	89.0	79.5	203	686	R.F.	64.0
762	4300492	26	108	89.0	79.5	194	686	R.F.	95.0
762	4300526	26	143	93.5	79.5	241	686	R.F.	86.0
762	4300508	28	108	89.0	79.5	203	686	R.F.	64.0
762	4300535	28	143	93.5	79.5	241	670	R.F.	64.0
762	4300704	32	143	93.5	79.5	241	670	R.F.	64.0

* Without Flame Harden groove.

Material: B.S.=Bar Steel, C.I.=Cast Iron, F.S.=Forged Steel, D.I.=Ductile Iron, C.S.=Cast Steel, P.M.=Powdered Metal, R.F.=RollForged.

McKissick® Roll-Forged sheaves highlighted above in bold italic are available with reduced lead times due to our advanced manufacturing process.

Custom sheaves are available. See page 287 for ordering details.



Plain Bore Oilfield Sheave

McKissick® Roll-Forged Sheaves are available in many configurations in order to meet various oilfield applications

- Roll-Forged sheaves are available in sizes up to 1981mm diameter.
- Applications should provide for tightening separator plates against bearing cones to adjust and insure proper function of bearing.
- Each sheave in the table below has a machined bore sized to accept the respective bearing number shown.
- The sheaves are provided from the factory plain bore (the bearings are not included)

"A" Nominal Outside Diameter (mm)	Stock Number	Wireline Size (mm)	Bore Information			Hub Width (mm)	Rim Width (mm)	"C" Nominal Hub Outside Diameter (mm)	"B" Nominal Tread Diameter (mm)	Material	Approx. Weight (kg)
			"D" Bore Size (mm)	Bearing Info. (Bearing not included)							
		Shaft Size (mm)		Bearing or Equivalent Description							
508mm Sheave											
508	2030311	14	120	70	NA-483-SW-472-D	70.0	70.0	165	448	R.F.	36.3
508	2029285	16	120	70	NA-483-SW-472-D	70.0	70.0	165	452	R.F.	34.0
610mm Sheave											
610	2030941	14	165	108	NA56425-SW-56650D	35.7	79.4	203	549	R.F.	46.7
610	2030905	16	165	108	NA56425-SW-56650D	35.7	76.2	203	559	R.F.	53.1
610	2026108	22	165	108	NA56425-SW-56650D	35.7	79.4	203	532	R.F.	58.1
610	2025931	26	165	108	NA56425-SW-56650D	35.7	79.4	229	536	R.F.	57.7
610mm Crown Sheave**											
610	2027885	14	165	108	NA56425-SW-56650D	85.7	79.4	203	549	R.F.	40.8
610	2027887	16	165	108	NA56425-SW-56650D	85.7	69.9	203	559	R.F.	36.3
610	2027880	22	165	108	NA56425-SW-56650D	85.7	79.4	203	532	R.F.	56.7
610	2023993	26	165	108	NA56425-SW-56650D	85.7	79.4	229	536	R.F.	49.9
762mm Sheave											
762	2026299	26	165	108	NA56425-SW-56650D	85.7	79.4	216	673	R.F.	86.2
762	2026036	28	165	108	NA56425-SW-56650D	85.7	79.4	229	662	R.F.	104
762	2026230	26	200	143	NA48685-SW/48620	88.9	79.4	260	573	R.F.	116
762	2026003	28	200	143	NA48685-SW/48620	88.9	79.4	260	662	R.F.	116
762	2030906	26	225	165	NA46790-SW-46720	92.1	85.7	260	673	R.F.	83.9
762	2030907	28	225	165	NA46790-SW-46720	92.1	85.7	305	662	R.F.	120
762mm Crown Sheave**											
762	2027941	26	165	108	NA56425-SW-56650D	85.7	79.4	229	673	R.F.	68.0
762	2027945	28	165	108	NA56425-SW-56650D	85.7	79.4	229	662	R.F.	90.7
762	2030274	26	200	143	NA48685-SW/48620	88.9	79.4	260	673	R.F.	73.0
762	2030260	28	200	143	NA48685-SW/48620	88.9	79.4	260	662	R.F.	98.9
917mm Sheave											
917	2030942	26	200	143	NA48685-SW/48620	88.9	82.6	260	841	R.F.	159
917	2030908	28	200	143	NA48685-SW/48620	88.9	82.6	260	854	R.F.	159
917	2027967	32	200	143	NA48685-SW/48620	88.9	82.6	305	819	R.F.	145
917	2030943	26	225	165	NA46790-SW-46720	92.1	79.4	292	841	R.F.	160
917	2029390	28	225	165	NA46790-SW-46720	92.1	82.6	279	854	R.F.	136
917	2029392	32	225	165	NA46790-SW-46720	92.1	82.6	279	819	R.F.	136
917	2030944	26	276	203	LM241149NW/241110-D	92.1	79.4	356	841	R.F.	168
917	2030909	28	276	203	LM241149NW/241110-D	92.1	88.9	356	814	R.F.	162
917	2030945	32	276	203	LM241149NW/241110-D	92.1	85.7	356	819	R.F.	150
917mm Crown Sheave**											
917	2030282	26	200	143	NA48685-SW/48620	88.9	82.6	260	841	R.F.	109
917	2030284	28	200	143	NA48685-SW/48620	88.9	82.6	260	829	R.F.	113

** Crown Sheaves contain lightening holes.

Custom sheaves are available. See page 287 for ordering details.

McKissick® Standard API 8c Oilfield Sheaves

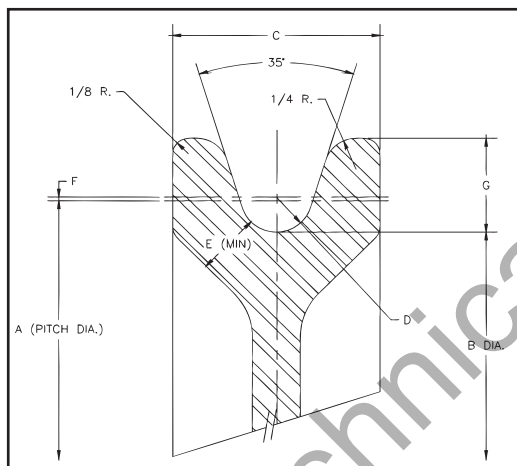
"A" Nominal Outside Diameter (mm)	Stock Number	Wireline Size (mm)	Bore Information			Hub Width (mm)	Rim Width (mm)	"C" Nominal Hub Outside Diameter (mm)	"B" Nominal Tread Diameter (mm)	Material	Approx. Weight (kg)
			"D" Bore Size (mm)	Bearing Info. (Bearing not Included)							
				Shaft Size (mm)	Bearing or Equivalent Description						
1067mm Sheave											
1067	2030949	22	276	203	LM241149NW/241110-D	92.1	82.6	356	972	R.F.	209
1067	2030950	28	327	235	NA8575SW-8520CD	114	88.9	406	981	R.F.	211
1067	2030951	32	327	235	NA8575SW-8520CD	114	85.7	406	972	R.F.	215
1118mm Sheave											
1118	2030952	28	276	203	LM241149NW/241110-D	92.1	85.7	356	1018	R.F.	279
1118	2030953	32	276	203	LM241149NW/241110-D	92.1	76.2	356	1022	R.F.	247
1270mm Sheave											
1219	2030954	28	276	203	LM241149NW/241110-D	92.1	82.6	356	1133	R.F.	263
1219	2030955	32	276	203	LM241149NW/241110-D	92.1	69.9	356	1124	R.F.	232
1219	2030956	32	348	251	LM249747NW/LM249710D	98.4	82.6	432	1124	R.F.	290
1270mm Sheave											
1270	2030938	28	276	203	LM241149NW/241110-D	92.1	85.7	356	1175	R.F.	347
1270	2030957	28	276	251	LM241149NW/241110-D	98.4	82.6	432	1175	R.F.	347
1270	2030958	35	348	251	LM249747NW/ LM249710D	98.4	95.3	432	1159	R.F.	333
1397mm Sheave											
1397	2030959	28	327	235	NA8575SW-8520CD	114	88.9	406	1297	R.F.	404
1397	2030960	32	327	235	NA8575SW-8520CD	114	85.7	406	1302	R.F.	374
1397	2030961	32	348	251	LM249747NW/ LM249710D	98.4	88.9	483	1302	R.F.	267
1524mm Sheave											
1524	2030879	32	348	251	LM249747NW/ LM249710D	98.4	82.6	432	1429	R.F.	497
1524	2030880	35	352	267	LM251649NW/251610-D	105	92.1	483	1419	R.F.	533
1524	2030881	35	394	305	L357049NW/L357010D	105	95.3	483	1419	R.F.	533
1524	2030875	38	348	251	LM249747NW/ LM249710D	98.4	88.9	483	1410	R.F.	533
1524	2030872	38	352	267	LM251649NW/251610-D	105	92.1	483	1410	R.F.	533
1524	2030876	38	394	305	L357049NW/L357010D	105	88.9	483	1410	R.F.	528
1524	2030877	38	394	305	L357049NW/L357010D	105	88.9	483	1400	R.F.	1150

Custom sheaves are available. See page 287 for ordering details.

McKissick® manufactures special Roll-Forged Sheaves to meet the Specifications of AISE Standard Number 6.

- AISE Sheaves must meet specified criteria established by the Association of Iron and Steel Engineers for special use in electric overhead Traveling Cranes for Steel Mill Service.
- Other typical applications that may specify AISE sheaves:
 - Mobile Cranes
 - Portal Cranes
 - Power Shovels
 - Other equipment using Wireline

Typical AISE Sheave Rim Profile with Specified Dimensional Requirements



Sheave Wheel Contours							
Rope Diameter* (mm)	Dimensions (mm)						
	A	B	C	D	E	F	G
13	381	368	44.5	7.1	12.7	.8	19.1
16	476	461	51.0	8.7	16.0	.8	23.8
19	572	552	57.0	10.3	19.1	.8	28.6
22	667	645	63.5	12.3	22.2	1.2	33.4
25	762	737	70.0	13.9	25.4	1.2	38.1
28	857	829	76.0	15.4	28.6	1.2	42.9
32	953	921	82.5	17.5	31.8	1.6	47.6
35	1048	1013	89.0	19.1	34.9	1.6	52.5
38	1143	1105	95.5	20.6	38.1	1.6	57.0

* Sheaves with other Wireline sizes are available upon request. Other pitch diameters available on application basis. Grooves are flame hardened to min. RC35 for 12.7mm Wireline and larger.

For additional information concerning special AISE sheaves, contact:

In U.S.A. - Crosby's Special Engineered Product Group at 1-800-777-1555

In Canada - Crosby Canada at (877) 462-7672

In Europe - N.V. Crosby Europe at (+32) (0)15 75 71 25

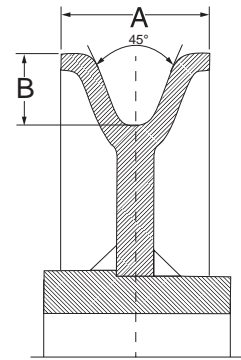
McKissick® European Style 45° Metric Sheaves

Selecting your Sheave O.D. / Wireline Size Combinations

To ease the effort in choosing the proper standard McKissick® Roll-Forged sheave required for your application, we have simplified our product offering. The table below indicates the standard Sheave O.D. / Wireline sizes that are available.

How to Read the Table

- Cells outlined in RED represent the standard O.D. / Wireline combinations available with the Sheave Configurator program.

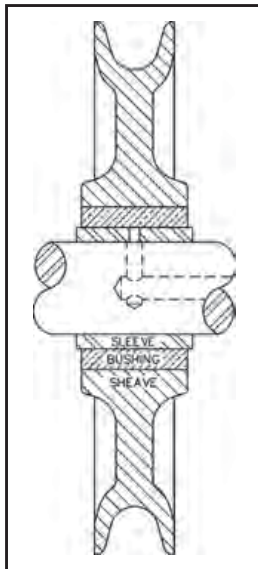


45° SHEAVE PROFILE

Sheave O.D. / Wireline Information

Wireline Size (mm)	Nominal Dimensions (mm)		Groove Radius (mm)		Sheave O.D. (mm)														
	A	B	MIN	MAX	280	300	320	350	400	450	500	520	550	600	630	650	700	800	
11	40	19	5.83	6.05															
12	40	18	6.36	6.60															
13	40	18	6.89	7.15															
11	40	19.5	5.38	6.05															
12	40	20.5	6.36	6.60															
13	40	19.5	6.89	7.15															
14	40	21	7.42	7.70															
15	40	21	7.95	8.25															
16	45	25	8.48	8.80															
17	45	25	9.01	9.35															
13	40	23	6.89	7.15															
14	40	22	7.42	7.70															
15	40	22	7.95	8.25															
15	45	25	7.95	8.25															
16	45	24	8.48	8.80															
17	45	24	9.01	9.35															
15	45	26	7.95	8.25															
16	45	25	8.48	8.80															
17	50	28	9.01	9.35															
18	50	27	9.54	9.90															
19	55	28.5	10.07	10.45															
20	55	25.5	10.60	11.00															
21	60	34	11.13	11.55															
22	60	33	11.66	12.10															
23	60	33	12.19	12.65															
19	55	31	10.07	10.45															
20	55	30	10.60	11.00															
21	55	30	11.13	11.55															
21	60	34	11.13	11.55															
22	60	33	11.66	12.10															
23	60	33	12.19	12.65															
21	60	34	11.13	11.55															
22	60	33	11.66	12.10															
23	60	33	12.19	12.65															
23	65	37	12.19	12.65															
24	65	36	12.72	13.20															
25	65	36	13.25	13.75															
26	70	39	13.78	14.30															
27	70	39	14.31	14.85															
23	65	37	12.19	12.65															
24	65	36	12.72	13.20															
25	65	36	13.25	13.75															
26	70	39	13.78	14.30															
27	75	43	14.31	14.85															
28	75	42	14.84	15.40															
29	75	42	15.37	15.95															
27	75	43	14.31	14.85															
28	75	43	14.84	15.40															
29	75	42	15.37	15.95															
28	80	47	14.84	15.40															
29	80	46	15.37	15.95															
30	80	45	15.90	16.50															
32	80	45	16.96	17.60															
30	90	50	15.90	16.50															
32	90	48	16.96	17.60															
34	90	48	18.02	18.70															
34	100	56	18.02	18.70															
36	100	54	19.08	19.80															
38	100	54	20.14	20.90															

McKissick Sheaves



IRON SHEAVES FOR USE WITH MANILA ROPE BLOCKS

- 1101 – 1141
Common Iron Bushed
- 1102 – 1142
Roller Bushed
- 1103 – 1143
Bronze Bushed, Self-Lubricating

FOR REGULAR MANILA ROPE BLOCKS – OLD STYLE

Block Size	Stock No.			Manila Rope Size (mm)	Sheave Size (mm)			Weight Each (kg)
	1101 Galv.	1102 Galv.	1103 Galv.		Outside Dia. (A)	Rim Width (B)	Bore Size (C)	
76.2	900010	900216	900412	10	44.5	12.7	9.55	.11
102	900038	900234	900430	13	57.0	15.9	9.55	.34
127	900056	900252	900458	16	76.0	19.1	9.55	.23
152	900074	900270	900476	19	89.0	25.4	12.7	.45
178	900092	900298	900494	22	108	25.4	12.7	.57
203	900118	900314	900519	25	121	28.6	15.9	.79

FOR REGULAR MANILA ROPE BLOCKS – NEW STYLE

Block Size	Stock No.	Manila Rope Size (mm)	Sheave Size (mm)			Sleeve Diameter (mm)		Weight Each (kg)
			Outside Dia.	Rim Width	Bearing Diam. (C)	I.D. (F)	O.D. (E)	
102	2028373	13	57.0	15.9	15.9	9.52	15.9	.34
152	2028375	19	88.9	25.4	19.1	12.7	19.1	.45
203	2028376	25	121	28.6	22.2	15.9	22.2	.79

FOR MANILA ROPE SNATCH BLOCKS – OLD STYLE

Block Size	Stock No.			Manila Rope Size (mm)	Sheave Size (mm)			Sleeve Diameter (mm)		Weight Each (kg)
	1104 Galv.	1142 Galv.	1143 Galv.		Outside Dia.	Rim Width	Bearing Diam. (C)	I.D. (F)	O.D. (E)	
152	902018	902214	902410	19	76.0	28.6	19.1	12.7	19.1	.45
178	902036	902232	902438	22	89.0	31.8	19.1	12.7	19.1	.91
203	902054	902250	902456	25	114	34.9	22.2	15.9	22.2	1.36
254	902072	902278	902474	32	146	47.6	25.4	19.1	25.4	3.18
304	902090	902296	902492	38	171	54.0	25.4	19.1	25.4	5.44

FOR MANILA ROPE SNATCH BLOCKS – NEW STYLE

Block Size	Stock No.			Manila Rope Size (mm)	Sheave Size (mm)			Sleeve Diameter (mm)		Weight Each (kg)
	Bronze Bushed Red	Bronze Bushed Galv.			Outside Dia.	Rim Width	Bearing Diam. (C)	I.D. (F)	O.D. (E)	
152	2027020	2027021	19	76.2	22.2	19.1	-	-	.59	
203	2028971	2027015	25	105	34.9	25.4	-	-	1.70	
254	2028972	2026507	28	152	41.3	38.1	-	-	4.54	
305	2028973	2026509	32	203	41.3	38.1	-	-	5.44	

FOR MANILA AND Wireline SNATCH BLOCKS – OLD STYLE

- 1298 - Bronzed Brushed, Self-Lubricating Steel sheave for Wireline.
- 1192 - Bronzed Brushed, Self-Lubricating Iron sheave for Wireline.
- 1293 - Bronzed Brushed, Self-Lubricating Steel sheave for Manila Rope.

Snatch Block Style	Shell Length	Stock No.				Sheave Size (mm)					Bush-ing I.D.	Sleeve Dimensions (mm)			Weight Each (kg)		
		1298 Painted	1192 Painted	1298 Wireline Size	1293 Painted Stock No.	1293 Manila Rope Size	Out-side Dia.	Hub Width	Rim Width	Bore Size		I.D.	O.D.	Length	1298	1192	1293
924	-	922005	-	16	-	-	152	34.9	31.8	41.3	31.8	25.4	31.8	38.1	2.72	-	-
924	-	922023	-	19	-	-	203	41.3	38.1	47.6	38.1	31.8	38.1	44.5	4.99	-	-
924	-	922041	-	22	-	-	254	41.3	38.1	63.5	50.8	38.1	50.8	44.5	8.62	-	-
924	-	922069	-	22	-	-	305	50.8	44.5	63.5	50.8	38.1	50.8	54.0	9.98	-	-
940-941	-	922078	920579	10	-	-	102	20.6	19.1	28.6	19.1	12.7	19.1	22.2	1.36	.90	-
940-941	-	922087	920588	13	-	-	152	27.0	25.4	34.9	25.4	19.1	25.4	28.6	3.18	2.25	-
940-941	-	922103	920604	16	-	-	203	34.9	31.8	38.1	28.6	22.2	28.6	38.1	3.63	4.50	-
940-941	-	922121	920622	16	-	-	254	34.9	31.8	41.3	31.8	25.4	31.8	38.1	5.44	7.70	-
940-941	-	922149	920640	19	-	-	305	41.3	38.1	47.6	38.1	31.8	38.1	44.5	17.7	14.5	-
1096	152	-	-	-	921505	22.2	76.0	41.3	28.6	41.3	25.4	15.9	32.1	38.1	-	-	.90
1096	203	-	-	-	921523	25.4	114	41.3	41.3	41.3	32.0	22.2	32.1	38.1	-	-	2.70
961	-	922407	-	16	-	-	152	41.3	38.1	50.8	41.3	31.8	41.3	41.3	4.08	-	-
961	-	922425	-	22	-	-	203	42.9	38.1	63.5	50.8	-	-	-	6.80	-	-

Mckissick® Roll-Forged™ sheaves highlighted above in bold italic are available with reduced lead times due to our advanced manufacturing process.