Johnson Sheaves

- Forged sheaves
- Cast sheaves
- Machined sheaves
### Johnson Sheaves

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**WARNING:**
Failure to read, understand and comply with the instructions, working load limits and specifications in this publication may result in serious injury or damage to property.
At Gunnebo Industries, we develop and manufacture sheaves for all purposes. It is our commitment to always provide optimized solutions for our customers’ specific needs. Regardless if it’s time, price, weight, volume or something else, we will supply the best possible solution based on application and need.

With production facilities in USA and Europe, we serve customers on a global scale, always close, for the best possible support.

We have one of the world’s largest engineering staffs within our field, in order to be able to offer flexible design, quick delivery and long-lasting high quality products. The combination of our long heritage of technical knowhow and innovation, together with an extensive engineering team, makes our offering unique.

We offer our Johnson sheaves from 76 mm, up to 7.5 m and 20 000 kg. We have standard sheaves as well as customized solutions. We offer sheaves in all geographies, for every application. Our sheaves have a proven track record and have been in use in the industry for decades.

As experts within the sheaves business, we support our customers to find the best solution for their specific need, every day, everywhere.

A solution provider since 1764

With more than 80 years experience in the sheaves business and a 250-year legacy in the lifting and rigging industry, Gunnebo Industries has an in-depth knowledge of the industry, and an extensive product offering to all markets and applications.
Johnson Sheaves by Gunnebo Industries

Solutions for every application and all conditions

Johnson sheaves are highly trusted, preferred and utilized by many crane and rig manufacturers around the world. Our sheaves are designed to optimize performance and quality, providing a number of advantages to our customers;

Superior durability

- Made of high-strength materials to handle tough applications
- Optimized material specification enables the best possible weight, sheave performance and service life

Optimal design

- Superior stress flow to assure high resistance against fatigue
- Optimized weight to fit project needs
- Adjustable designs to provide capacity in extreme load case
- Design to optimize product functionality

Reliable delivery

- Flexibility in production to shorten lead-times
- Custom sheaves can be made in small and large quantities with virtually no tooling cost
- We can also build to your forecast to maximize the efficiency of your production schedule and shorten lead time

Longer life

- Deep hardening of the sheave groove extends life of the rope and the sheave
- Broad range of hardeness to accommodate wire and sheave properties for maximum service life
- Our unique concurrent hardening can be provided for forged sheaves 0.6 m - 1.8 m which provides the additional benefit of hardened groove walls

World-class engineering team

- Engineering team with comprehensive know-how of the rules and regulations for most class societies - DNV GL, ABS, API, CCS, BV, LRS, Machine Directive
- Capacity to provide solutions for extraordinary project specifications, up to 20,000 kg and 7.5 meters
- Specialists in delivering large sheave diameters with FEM analysis. Design reports available upon request
Applications

Gunnebo Industries offers a wide range of sheaves, for all applications. Below are some of the most common applications where we serve our customers with different sheaves. Sheaves can be manufactured for ForgeFab, cast ductile iron, cast steel or welded assemblies depending on the size, quantity, delivery and application requirements.

**Offshore crane sheaves** – Specially designed to handle heavy loads and large fleet angles. Can be designed to meet the requirements of API 2C, ABS, DNV, LR, BV and CCS. Sizes up to 7.5 m in diameter available.

**Drilling and well servicing sheaves** – Manufactured to API specification 8C to withstand the high intensity application on drilling and well servicing rigs. These sheaves are used in crown assemblies, drilling/traveling blocks and tubing blocks. These are available from 0.5 m - 2 m in diameter.

**Riser tensioning and motion compensation sheaves** – Fully optimized for the high load and long life requirements of an offshore environment. Available up to 2.7 m outer diameter.

**Launch and recovery systems (LARS) sheaves** – Optimized weight/capacity ratio and come in standard outer diameter size of 1580 mm, or as customized sizes. These are manufactured with a standard groove size with other sizes available upon request.

**Mobile crane sheaves** – Used in boom points, boom extensions and hook blocks. Available in variety of sizes from 0.25 m to 1.2 m in diameter and can be grooved for up to 38 mm wire rope ideally suited for heavy lifting.

**Overhead crane sheaves** – Used both in upper sheave nests and hook blocks and are designed for continuous heavy use. Sizes available from 127 mm up to 1.2 m in diameter.

**Mooring sheaves** – Designed to be used in an offshore environment for towing, pulling and anchoring of ships. Available in 457 mm to 1.5 m in diameters.

**Deflector sheaves** – Used in a fairleader block to accommodate the directional change of the wire rope. Available in 76 mm up to 3 m in diameter.

**General industrial sheaves** – Built for a high variety of applications where wire rope is used to lift or pull such as tilting and lifting of flare stacks, roll on and roll off truck bodies, tower erection and anywhere the change of direction of wire rope is required.

For information about our forged Johnson wire rope sheaves, please contact your Gunnebo Industries representative.
High quality sheaves - flexible design

All sheaves are designed and manufactured according to customer requirements and applicable class regulations. The sheaves can be supplied with bearings, bushings or as plain bore. If required, the groove for the steel wire rope can be hardened up to a hardness of 550 HB. Sheaves can be compliant with the following classes: DNV GL, ABS, Lloyd's Register, BV, CCS, API.

Forged sheaves

Our forged sheaves are field proven and have a short manufacturing time. Forging provides good material flow in the groove providing longer service life for both sheave and wire rope.

- Size: 0.25 - 1.8 m
- Ideal for any application, especially high use applications
- 2 - 6 weeks manufacturing time. Suitable for any quantity
- Steel construction sustains low temperatures

Cast sheaves, iron

We offer cast sheaves in iron, with a flexible design in any size. Cast design provides a smooth stress flow giving long durability.

- Size: 0.2 - 7.5 m
- Flexible design, casting provides smoother stress flow, lower weight and can be optimized to specific applications
- 6 - 14 weeks manufacturing time. Minimum order might apply

Cast sheaves, steel

Our cast sheaves, made in steel, enables a flexible design and are available in any size. These have similar advantages as to our casted sheaves in iron.

- Size: 0.2 - 7.5 m
- Flexible design, no welds means smoother stress flow
- 6 - 14 weeks manufacturing time. Suitable for any quantity
- Sustains low temperatures

Machined sheaves, steel

Our machined sheaves, in steel, are field proven and have a fast delivery time. They are available in any size and can endure low temperature.

- Size: < 2 m
- Manufacturing lead times from 2 weeks. Suitable for small quantities
- Sustains low temperatures

Optional features:

- Custom design to customer shaft, bearing mounting, hub, sheave O.D. or wire rope size requirement
- Modifications as required to API and other applicable industry standards
- Electroplating, inorganic zinc compound and other corrosion resistant coatings available
- Hub-located grease fittings
- AISE No. 6 specifications
- Cold weather properties
- Special shaft, furnished for any sheave listed

ForgeFab® sheaves

Our ForgeFab sheaves have been the first choice for many crane and rig manufacturers for decades. Our unique production process supports quick deliveries without compromising on the high quality of our sheaves.

Unique production process for a long product life

Each ForgeFab sheave begins as precision disc cut from superior chemistry alloy steel plate
The steel disc is heated to forging temperature and its edge rotated against a system of staged rollers to forge the sheave rim and wire rope groove
A precisely machined hub is arc welded to the forged disc. A variety of welding techniques is used, including: fillet, submerged arc, partial penetration and full penetration, depending on the application
The result: A precision built ForgeFab sheave, resistant to wear giving a long product life span as well as decreased wear on the wire rope

ForgeFab concurrent hardened sheaves

Concurrent hardening up to 440 HB
Strengthens groove as well as entire flange and penetrates deeply into webbing to handle the most difficult applications. (0.6 m to 2 m diameter)

ForgeFab flame hardened sheaves

Flame hardened to minimum 325 HB
Toughens the groove for long life in most applications. (0.4 m to 0.6 m in diameter)
Information needed for quotation

Dimensional information

- Wire line diameter
- Sheave outside diameter (A or OD)
- Bore size, if plain or finished bore (E)
- Hub width (G)
- Hub outside diameter (T)
- Shaft size with bearing (E)
- Rim width (C)
- Tread diameter (TD)

Bearing options

- Finish/plain bore
- Bronzed bushing
- Roller bearing
- Tapered roller bearing
- Ball bearing
- Full complement cylindrical roller bearing

Type of application

- Description
- Line load
- Line speed
- Degree of wrap
- Fleet angle
- Weight restrictions
- Pitch Diameter (PD)

Are there other requirements?

- Flame hardened groove
- Hardness level
- Paint or finish requirements
- DVR (Design Verification Review) by a 3rd party
- Third party inspection/approval
Tapered roller bearing sheaves

Rim width (not shown) allows for adequate running clearance.

To order, please specify; nominal sheave O.D., model number and wire rope size.

Wire Wrap: 180° contact around sheave.
Bearing: Tapered Roller Bearing.
Surface Coating: Standard Enamel with or 2 or 3 coat marine system available upon request.
Hardening of Wire Groove: Flame hardened to a minimum 35 Rc. Concurrent hardening upon request.
Certificate: Certification according to ABS, API-8C, BV, CCS, DNVGL or Lloyds on request.

<table>
<thead>
<tr>
<th>Art. number</th>
<th>Code</th>
<th>Material</th>
<th>Wire Rope Size</th>
<th>Weight (kg)</th>
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<td>A Nominal O.D.</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>E Shaft size</td>
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<td></td>
<td></td>
<td></td>
<td>G Hub width</td>
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<td></td>
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<td></td>
<td>T Hub O.D.</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>B Web (mm)</td>
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<td>Min. (mm)</td>
<td>Max. (mm)</td>
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</table>

Material F.F. = ForgeFab

1.4 m and larger diameters available on request.
### Finish bored sheaves

#### Wire Wrap:
180° contact around sheave.

#### Bearing:
A wide range of bearing options available.

#### Surface Coating:
Standard Enamel with or 2 or 3 coat marine system available upon request.

#### Hardening of Wire Groove:
Flame hardened to a minimum 35 Rc. Concurrent hardening upon request.

#### Certificate:
Certification according to ABS, API-8C, BV, CCS, DNVGL or Lloyds on request.

<table>
<thead>
<tr>
<th>Art. number</th>
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Material F.F. = ForgeFab  D.I. = Cast Ductile Iron  1.4 m and larger diameters available on request.
Finish bored sheaves

Wire Wrap: 180° contact around sheave.
Bearing: A wide range of bearing options available.
Surface Coating: Standard Enamel with or 2 or 3 coat marine system available upon request.
Hardening of Wire Groove: Flame hardened to a minimum 35 Rc.
Certificate: Certification according to ABS, API-8C, BV, CCS, DNVGL or Lloyds on request.

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<th>Art.number</th>
<th>Material</th>
<th>Wire Rope Size</th>
<th>A Nominal O.D.</th>
<th>F Hub bore (mm)</th>
<th>G Hub width (mm)</th>
<th>T Hub O.D.</th>
<th>B Web thick (mm)</th>
<th>Weight (kg)</th>
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1.4 m and larger diameters available on request.
Sheaves with PD 18× steel wire rope diameter

These sheaves have a universal design for use onshore, offshore and subsea in adverse service conditions.

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Machined or cast ductile iron depending on quantity.
Sheaves with PD 19x steel wire rope diameter

These sheaves have a universal design for use onshore, offshore and subsea in adverse service conditions.

- **Wire Wrap:** 180° contact around sheave.
- **Bearing:** Glide bearing or double row cylindrical roller bearing.
- **Surface Coating:** NORSOK M-501 System No. 1 with topcoat colour RAL 1003 (Signal Yellow) with option for System No. 7 or other topcoat colour on request.
- **Hardening of Wire Groove:** Induction hardening on request up to 550 Brinell Hardness.
- **Certificate:** Manufacturer work certificate acc. to DNV GL, Lloyd's, ABS, BV or CCS.
- **Regulations:** European Machinery Directive.

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Machined or cast ductile iron depending on quantity.
Sheaves with PD 20x steel wire rope diameter

These sheaves have a universal design for use onshore, offshore and subsea in adverse service conditions. This size is also suited for systems with heave compensation.

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**Wire Wrap:** 180° contact around sheave.

**Bearing:** Glide bearing or double row cylindrical roller bearing.

**Surface Coating:** NORSOK M-501 System No. 1 with topcoat colour RAL 1003 (Signal Yellow) with option for System No. 7 or other topcoat colour on request.

**Hardening of Wire Groove:** Induction hardening on request up to 550 Brinell Hardness.

**Certificate:** Manufacturer work certificate acc. to DNV GL, Lloyds, ABS, BV or CCS.

**Regulations:** European Machinery Directive.

Machined or cast ductile iron depending on quantity.
# Sheaves with PD 22× steel wire rope diameter

These sheaves have a universal design for use onshore, offshore and subsea in adverse service conditions. This size is also suited for systems with heave compensation.

**Wire Wrap:** 180° contact around sheave.

**Bearing:** Glide bearing or double row cylindrical roller bearing.

**Surface Coating:** NORSOK M-501 System No. 1 with topcoat colour RAL 1003 (Signal Yellow) with option for System No. 7 or other topcoat colour on request.

**Hardening of Wire Groove:** Induction hardening on request up to 550 Brinell Hardness.

**Certificate:** Manufacturer work certificate acc. to DNV GL, Lloyds, ABS, BV or CCS.

**Regulations:** European Machinery Directive.

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Machined or cast ductile iron depending on quantity.
Sheaves with PD 24× steel wire rope diameter

These sheaves have a universal design for use onshore, offshore and subsea in adverse service conditions. This size is also suited for systems with heave compensation.

Wire Wrap: 180° contact around sheave.
Bearing: Glide bearing or double row cylindrical roller bearing.
Surface Coating: NORSOK M-501 System No. 1 with topcoat colour RAL 1003 (Signal Yellow) with option for System No. 7 or other topcoat colour on request.
Hardening of Wire Groove: Induction hardening on request up to 550 Brinell Hardness.
Certificate: Manufacturer work certificate acc. to DNV GL, Lloyds, ABS, BV or CCS.
Regulations: European Machinery Directive.

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Machined or cast ductile iron depending on quantity.
Sheaves with PD 25x steel wire rope diameter

These sheaves have a universal design for use onshore, offshore and subsea in adverse service conditions. This size is also suited for systems with heave compensation.

**Wire Wrap:** 180° contact around sheave.
**Bearing:** Glide bearing or double row cylindrical roller bearing.
**Surface Coating:** NORSOK M-501 System No. 1 with topcoat colour RAL 1003 (Signal Yellow) with option for System No. 7 or other topcoat colour on request.
**Hardening of Wire Groove:** Induction hardening on request up to 550 Brinell Hardness.
**Certificate:** Manufacturer work certificate acc. to DNV GL, Lloyd’s, ABS, BV or CCS.
**Regulations:** European Machinery Directive.

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Machined or cast ductile iron depending on quantity.