

# Seatrax Forged Steel Sheaves

*with hardened grooves*



Seatrax offers **forged steel sheaves** with hardened grooves for maximum **sheave** durability. **Steel sheaves** provide a robust alternative to **nylon sheaves** in applications with high duty cycle requirements or floating applications with significant motions.

## **Features:**

- Forged **high strength alloy steel sheaves** with hardened grooves.
- Available with Timken® **tapered roller bearings** or **straight roller bearings**.
- Precision **ground grooves** for **imperial** or **metric wire ropes**.
- Can be fitted for use in **boom suspensions**, **boom tip load reeving** and **block sheaves** on most Seatrax crane models.
- Excellent **wear** and **strength characteristics**.
- Include **lightning holes** to **reduce weight**.
- Specified with D:d ratios ranging from 15%-40% greater than those required by typical certifying authority rules for increased wire rope life.
- Improved **compressive loading characteristics** in elevated temperature environments.
- Shafts are equipped with grease channels and fittings allowing for proper and easy lubrication of



individual **sheaves**.

- **Custom spacers** are provided for each crane configuration assuring proper fit and function of the **sheaves**.
- **Nuts** and **lock washers** are provided for adjusting and tightening the spacers against the **sheave's bearing cones**.

## **Forged Steel vs. Nylon/Tapered Roller Bearings vs. Straight Roller Bearings**

Categorizing the application can provide the best balance between initial costs versus downstream cost. For example, a small utility crane on an unmanned platform would be best served with **nylon sheaves** with **straight roller bearings**. The added cost of **steel sheaves** with **tapered roller bearings** would typically not balance with the low downstream costs during the life of the low use crane.

A drilling support crane on a floating facility with a 200-foot **boom** would be an example of an arrangement where the added cost would be of benefit, particularly in the **boom suspension**, because **nylon sheaves** with **straight rollers** would typically be replaced several times over the life of the crane.