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**XS-100
Series**

All You Need To Know about the XS-100-B

XS-100-B Sheave Options



Polished Groove Sheave - Standard (Original)

The 7" x 3" aluminum alloy sheave is a permanent mold casting that is heat treated for strength and extended life for multiple applications of conductor stringing and cable placement. The sheave has anti-friction sealed ball bearings lubricated for life under normal conditions. This sheave will provide a constant 98% efficiency during stringing to reduce the amount of force during pulling and tensioning operations. This reduces the strain on the conductor.



Neoprene Lined Sheave

This sheave is the same profile as the polished groove above but is designed to accept **semi-conductive** 70 - "A" scale durometer hardness GNA type neoprene to provide abrasion resistance to the conductor while offering an excellent conductivity when stringing near or around other energized lines. This makes an excellent choice for re-conductoring applications, etc. The neoprene lining is vulcanized under heat and pressure and post cured in large ovens guaranteeing the quality of the lining to withstand extreme conditions.

Effective grounding of stringing blocks is extremely important in areas where induced, static, or impulse voltages might be encountered during construction. Establishment of typical values of the conductivity of the entire block including the neoprene lining were needed. Having a value expressing the conductivity of neoprene per cubic centimeter as it is usually measured is meaningless in this application. This sheave is also interchangeable with all XS-100 frames.



Urethane Lined Sheave

This sheave has the same profile as the polished groove and neoprene but has a **cast-in-place** polymer urethane. S&R Urethane is a polymer that has a special kind of thermo-setting characteristic. It combines in one material the resiliency of rubber and the hardness of structural plastics and possesses the additional important properties such as high load bearing capacities, resistance to impact, abrasion, compression set, ozone, oil, and many chemicals. Sherman & Reilly premium grade urethane elastomer should be very much distinguished from the weaker urethanes, which are better suited for filling voids, insulation and other uses not requiring great structural strength. In addition to its unique accommodation of properties, it also differs from conventional elastomers in several ways. It is a liquid polymer, which is compounded chemically (to initiate curing), and from which sheave linings are fabricated by casting with a 90 - 92 "A" scale durometer hardness.

Sherman & Reilly urethane possess the important property of elasticity, which makes it ideal for use as a sheave lining. When the wire rope pulling line or conductor is in the sheave under load, the material will flow in accordance with the force exerted on it. This makes an ideal application for conductor, static wire or even fiber optic cables. This sheave is also interchangeable with the XS-100 Frame. This same material is currently used on all S & R bullwheel tensioners.



Ductile Iron Sheave

The toughest and most durable of all the sheaves is the 60-45-10 ductile iron-galvanized sheave. This sheave has the same profile as all the other 7" x 3" sizes and is totally interchangeable in any XS-100 Frame. This sheave is ideal for stringing steel static, new or re-conductoring. The block weight will increase approximately 7 lb. when using the ductile iron sheave. This sheave is not recommended for aluminum conductor.



Nylatron Sheave

Nylatron is one of the oldest and most widely used engineered mechanical plastics. Its combination of toughness, dimensional stability, wear resistance, and versatility make it a natural choice for conductor stringing sheaves. Nylatron has performed well in replacing many metals and offers a long life.

This sheave has the same profile as all the other 7" x 3" sheaves and it is also totally interchangeable with all S&R XS-100 frames. This material can be extruded or machined from solid stock and has excellent resistance to abrasion, impact, and compression. The entire sheave is manufactured from nylatron which has the following qualities: tough, wear resistant, high heat distortion temperature, vibration resistant, dimensional stability, chemical resistant. Therefore, this sheave can be used for almost all stringing applications, and cable placement.

* Dimensions, weights, capacities are approximate. Manufacturer's specifications subject to change without notice.