

About Our Blocks

Sheave Materials

Standard sheaves are available in nylon or grey iron. Nylon sheaves are injection molded from molybdenum disulphide filled nylon, such as Nylatron®. The low weight of the nylon sheaves reduces installation time, and can result in significant overall savings. The majority of the blocks we provide use nylon sheaves.

The grey iron used in our cast sheaves is ASTM A48 Class 30, a high-quality cast iron chosen for its ability to handle the static and dynamic loads involved in stage rigging. All grey iron sheaves have machined grooves.

Bearings

All J. R. Clancy sheaves, eight inches and larger, are equipped with either maintenance free, sealed precision ball bearings or tapered roller bearings, rated for the specified loads.

Shafts

Sheaves are supported by machined steel shafts. Shafts are keyed to the side plate at one end to prevent rotation, and have a fine thread self-locking nut on the other end to allow for bearing adjustment.

Applications

Several series of blocks are available to meet different installation requirements.

19 Series Underhung Loft Blocks mount directly to a single “I” beam. Single and multi-sheave blocks are available.

55 Series Upright Head Blocks may be mounted upright on one or two “I” beams, and have fully enclosed sheaves. Base angles are turned in and are notched to allow passage of lift lines.

59 Series Underhung Head Blocks may be underhung from one or two “I” beams, and have fully enclosed sheaves. These may need to be welded in position, depending on the application.

Universal Loft Blocks (55 Series) may be mounted upright or underhung from one or two “I” beams, or on loft wells. These have fully enclosed sheaves. Options include pivot adapters and Unistrut® adapter. These are normally mounted over two or channels. Head blocks, loft blocks, and multi-sheave blocks are available. On blocks with 8 or 10 lift lines the base angles are turned in, with 55 and 59 series variations as described for the head blocks.

Recommended Working Loads

Recommended Working Loads (RWL's) are for blocks mounted using standard design and construction. Ratings are for blocks mounted using standard hole spacing and Clancy mounting hardware in an approved manner. Data is based on correctly sized cables wrapped 90 degrees around the sheaves as shown on the outline drawings, except for mule blocks that assume 180 degrees of cable wrap. Contact J.R. Clancy if ratings are required for other conditions.

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