

>> MONOCAST CABLE SHEAVES HAVE GREAT ADVANTAGES OVER METAL

MONOCAST® CABLE SHEAVES

Key benefits

● Longer-lasting hoisting cables

In comparative tests, recognised, independent research consultants have established conclusively that steel cables last longer in combination with Quadrant Engineering Plastic Products Monocast® sheaves than they do when used with steel sheaves.

Depending on the type of steel cable, the useful life was found to increase by 200 to 600% when a Monocast® sheave was used.

● Light weight

Since Monocast® sheaves weigh approximately one-seventh of the weight of cast steel sheaves, the use of Monocast® sheaves saves 'dead' weight at the end of the jib. This makes mobile cranes more stable and means that hoisting machines can lift greater loads. A great deal of expensive fitting time is also saved when installing the lightweight nylon sheaves.

● Wear resistant

Monocast® is corrosion resistant and cannot rust. This advantage is of major importance in offshore applications, where corrosion and rust are two of the principal causes of wear. For this reason, Monocast® sheaves are widely used in the offshore industry.

● Competitive prices

Monocast® sheaves are cast as economically as possible, so that additional mechanical finishing work on the moulded piece is kept to the minimum. Thanks to this economical production method in the most up-to-date "moulding line" in the world, Quadrant EPP can supply Monocast® sheaves at prices which compete with those of cast or welded steel cable sheaves.

● Standard and custom made sizes

Quadrant EPP has developed a range of standard sheaves. These sheaves can be finished mechanically to meet specific application. Special Monocast® cable sheaves can also be made according to the customer's drawings or specifications. Various designs are available: with or without ribs, open or closed. Call us with your requirement.

● Monocast® Nylon Sheaves Manual

Quadrant EPP has comprehensive documentation available to assist in designing Monocast® nylon sheaves.

This includes information on:

- calculating permitted loads (bearing and groove loads)
- the design of the cable groove
- press-fit allowance
- bearings

● Quality

Production, logistics and order entry are certified according to ISO 9002. For offshore applications Quadrant EPP supplies cable sheaves with Lloyd's; DNV, ABS or RINA certificates.

With the development of Monocast® cast nylon sheaves from Quadrant EPP, the search for improved wire rope life, reduced weight and corrosion resistance has been resolved. Quadrant EPP's Monocast® cable sheaves are being increasingly used on all kinds of hoisting machines: from huge container cranes to mobile cranes and from offshore cranes to grabs. These Monocast® nylon sheaves have considerable advantages over the usual steel sheaves.



Weight saving will never be an issue again

For years, people in the heavy crane-building sector have been looking for better materials for the cable sheave. The usual steel sheaves have several disadvantages:

- steel shortens the useful life of steel hoisting cables
- steel increases the “dead” weight when scalling up, particularly in mobile cranes
- steel suffers from corrosion problems, particularly in offshore applications



Property data shown are typical average material values and will vary on specific production lots and by size and configuration of product. Where no value is listed, sufficient details are not available to present a usable figure. All statements, technical information and recommendations contained in this publication are represented in good faith, based upon tests believed to be reliable and practical field experience. The reader is cautioned, however, that Quadrant EPP cannot guarantee the accuracy or completeness of this information, and it is the customer's responsibility to determine the suitability of Quadrant EPP products in any given application. ® Registered trademarks of Quadrant • © 2001 Quadrant Engineering Plastic Products

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