



*Sure to be Safe*

**ROPE SHEAVES**



# ROPE SHEAVES

## DESCRIPTION

Welded sheaves have proved their performance in both domestic and foreign markets. They are used as elements in machines for construction, extraction, in mines and for transportation. Our experience in the production of welded sheaves also allows us to offer you a wide range of products for the domestic and foreign markets. We can also offer you different types so that all technical requirements of a project or a certain product can be met.



## FEATURES

**The sheaves are made with different diameters according to DIN, FEM or on customers' requirements.**

Laminated sheaves are ideal to replace cast iron sheaves, which represent disadvantages such as frequent control, maintenance, etc. They have no pores, contamination, cavity, non-uniformity.

All sheaves are produced in a complete finished state and therefore can be used immediately. There is a considerable reduction of weight under equal conditions and depending upon the size, a 30% decrease in weight compared with a similar cast sheave can be achieved.

There is a low inertia torque and high reduction slippage between sheave and cable, thus reducing sheave throat wear. The use of welded sheaves therefore offers high economic advantages.

The ring forming the throat is laminated and cold formed. The hardness detailed in figure 1 below is achieved by this method, using S355J2G3 material. If a greater hardness of the throat is desired, then they can be hardened. We can thus achieve the values according to figure 2.

## MATERIAL

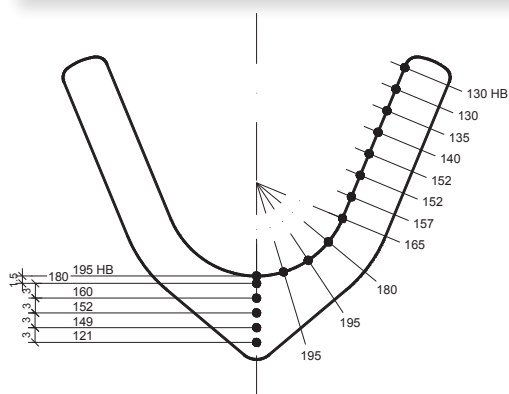
The usual rope sheave is made of the following material:

Ring	S355J2G3
Radii, sheave or core	S355J2G3
Hub	S355J2G3

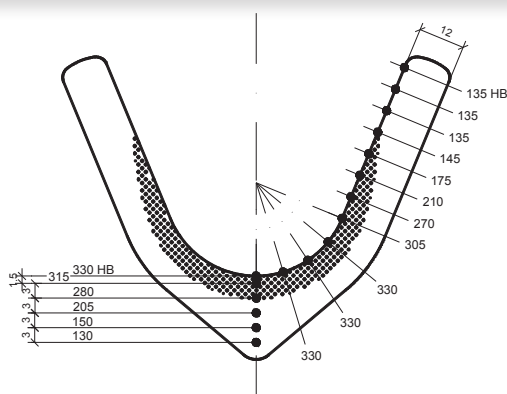
**Customized or special versions on customer request!**

**Please contact our sales team.**

Upon request sheaves can also be produced in stainless steel, S355J2G3, aluminium, etc.

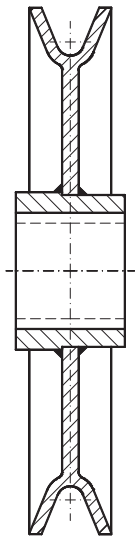


Non-hardened throat (fig.1)



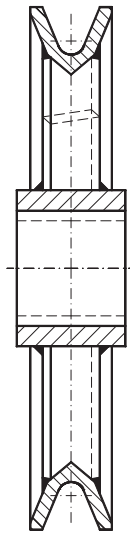
Hardened throat (fig. 2)

## TYPES OF ROPE SHEAVES



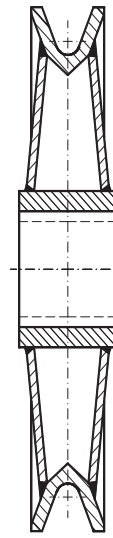
Type A

Sheaves made of plating open down the centre with the groove formed by cold forming. Due to their design and construction, they are normally used for small diameters.



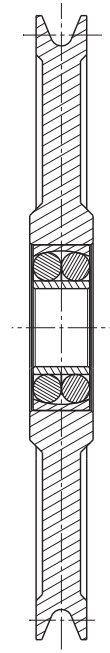
Type B

Sheaves with spokes, one of two spokes has an inclination of 30%, with variable sections. Depending on the diameter, end draw or the machine group, for which the sheaves are meant to be used, the spokes have a customised cross section.



Type C

Sheaves with convex pulleys which make a more even stress distribution on the hub possible. So that model C is of great practical use for very high starting torques.



Type D

Sheaves made with a light central core and lateral stiffeners, mounted in a radial pattern. Model D is used for heavy load responsibility machines.

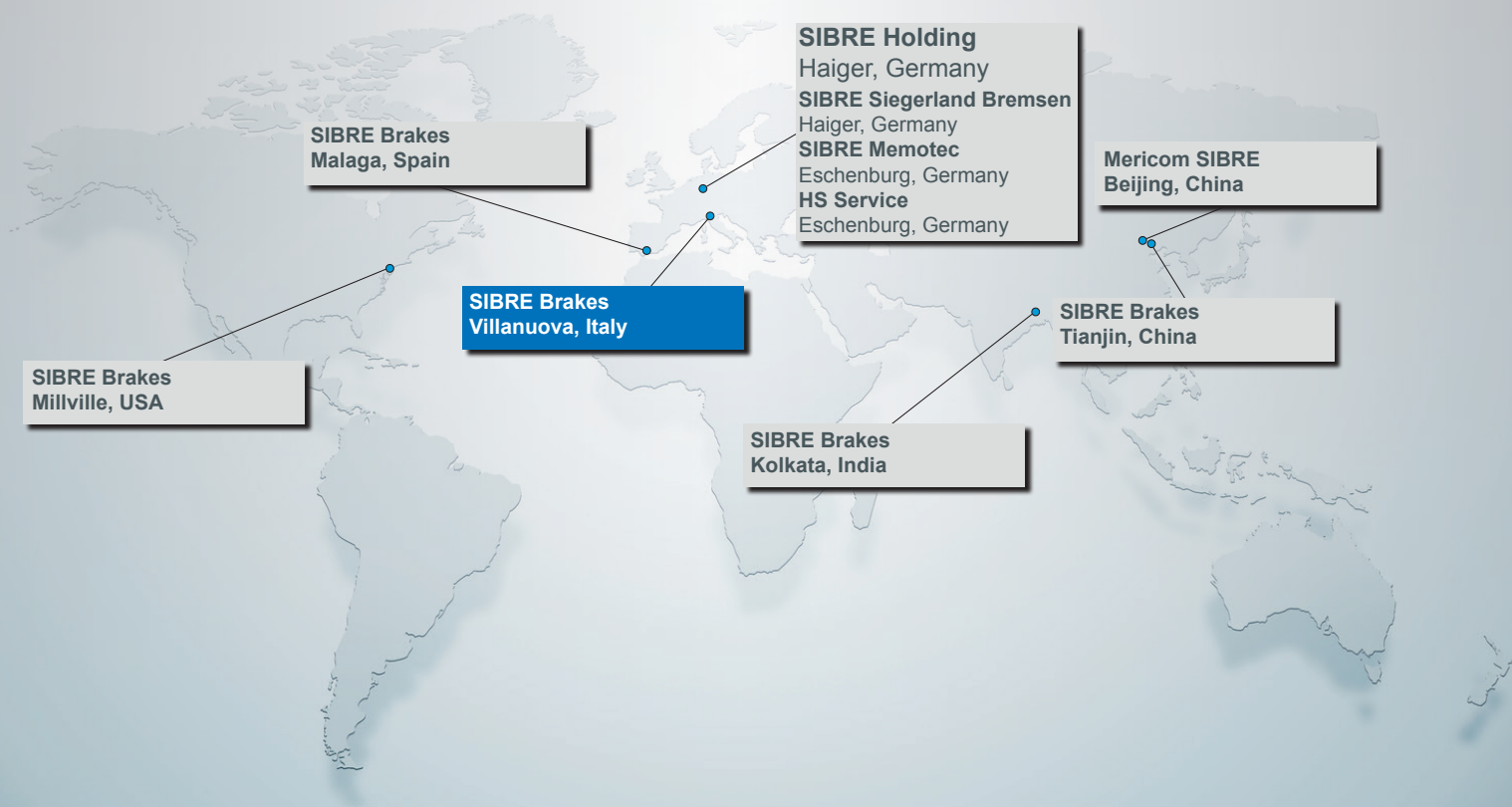
Are you ready to order? Please specify ...

- Amount of sheaves
- Bottom of groove diameter (nominal diameter) or overall diameter (mm)
- Rope diameter or groove radius (mm)
- Shaft diameter (mm)
- Bearing or load (kN)
- Arc of contact / diagonal pull
- Bushings (yes / no)
- Bearings cap (retainer) (yes / no)
- Groove or shaft seal (yes / no)
- Total mounting width (mm)
- Type of application



## STRENGTHENING THE PORTFOLIO OF DRIVE COMPONENTS

With expanded capacity and larger machinery SIBRE Italia s.r.l. offers a wide range of customisable drive components such as hooks, rope sheaves, limit switches and crane buffers for applications in the steel industry and materials handling. Please ask for our other brochures! Our sales team is looking forward to advise you. You are always welcome!



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