

DO NOT BE FOOLED... into thinking all sheaves produce the same results.

The Elements of a Superior Sheave.

Every McKissick® Roll-Forged™ sheave starts as a single piece of AISI C-1035 carbon steel plate. Utilizing a "time proven" proprietary roll forging process that adds extra strength to the critical groove section, the sheave is formed from a precision flame cut blank. The hub is then pressed into place with complete metal-to-metal contact and secured with a deep penetrating weld to ensure proper fit and longer life. Before the McKissick name is added, each sheave is thoroughly inspected to meet applicable industry and Crosby® quality standards.

McKissick® Roll-Forged™ sheaves contain the following critical standard features required to meet your demanding applications.

1 Smooth radius at the rim provides superior transition from outside diameter to groove - eliminating sharp corners that can damage rope

- Cold formed split steel sheaves may contain a sharp transition radius at rim of sheave



2 Size for size, McKissick® Roll-Forged™ sheaves have a thicker section under the tread of the wire rope groove - providing more substantial support of the wire rope

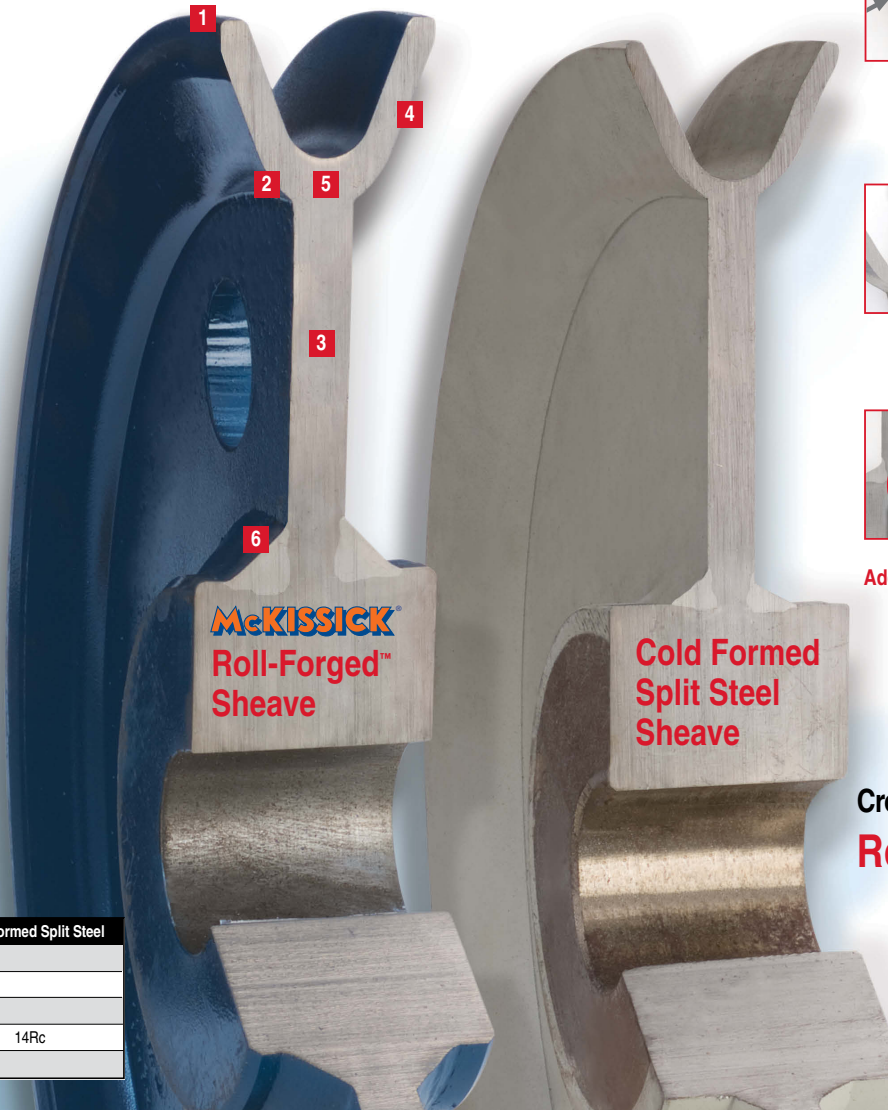
- Cold formed split steel sheaves are limited to a thinner section thickness under the groove, reducing sheave life in heavy service conditions
- Thinner sections produce a sharp corner under the tread, resulting in potential stress risers



3 Thicker web on sheave provides required stiffness to support a stronger sheave that contains thicker flange sections

- The thinner web on cold formed split steel sheaves, inherent to the process, does not support thicker flange sections
- The sharp, pointed cutter used in forming the groove during the cold formed split steel process may produce a concealed crack in the bottom of the groove.

	McKissick®	Cold Formed Split Steel
Smooth Radius Edge - Better fit, less wear on rope	✓	
Thicker Fleet Section - Better support, stronger sheave groove	✓	
Deep Penetrating Weld at Hub - Longer life	✓	
Flame Hardened Groove - Higher Rockwell C rating	35Rc	14Rc
Roll Forging Process - Provides superior grain flow	✓	



4 Heavier flange sections - provide a much stronger wire rope groove and maintain proper consistent groove angles, ensuring long term wire rope performance

- Cold formed split steel sheaves tend to have flange sections that are thinner as well as variations in thickness on the same sheave, resulting in less than desired performance during critical applications
- Cold formed split steel sheaves are limited to a maximum flange thickness of 50% of web section



5 Minimum 35Rc for higher hardness in the bottom of the groove - results in less wear to the sheave, thus extending life of wire rope

- Unless requested at time of order, cold formed split steel sheaves have a much lower hardness rating (approx. 14Rc)
- The standard material used in cold formed split steel process may not allow higher hardness in groove



6 Precision alignment of hub with blank, then finished with a deep penetrating weld - ensuring proper fit, longer life and confidence during the most extreme of applications

Additional Important Features of McKissick® Roll-Forged Sheaves

- The grain flow associated with the McKissick® Roll-Forged™ sheave process results in excellent performance properties.
- Each sheave is permanently marked with "McKissick®", sheave outside diameter, wire rope size and Product Identification Code (PIC) that provides complete material traceability

Crosby® and McKissick® Roll-Forged™ Sheaves
Reliability You Can Depend On



Crosby®

www.thecrosbygroup.com

There is no sheave like a McKissick® Roll-Forged™ Sheave

E-mail: crosbygroup@thecrosbygroup.com • (918) 834-4611, Fax: (918) 832-0940