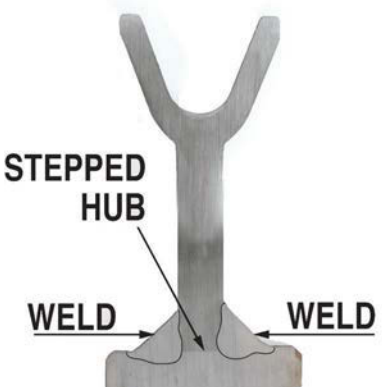
McKissick® Roll-Forged™ Sheaves

HEAVY DUTY SHEAVES FROM 305mm THROUGH 1981mm

Stepped Hub Design Proves Better

The McKissick hub is stepped to eliminate stress failure in the weld, common in traditional hub designs. The hub is pressed into place with complete metal-to-metal contact. This helps ensure an accurate alignment to the hub's axis so there is no wobble or lopping of the rotating sheave. The precision aligned hub/sheave wheel combination adds to the bearing life and keeps the sheave on the job longer.



Full penetration weld is standard on 1016mm and larger sheaves.

Closed Die Upset and Roll Forged – Not Split

Upsetting and roll forging forms the groove and flange walls in multiple steps, eliminating the need to split and weaken the groove. This exclusive forging process adds extra strength to the critical groove section. You can count on a McKissick sheave to give maximum life performance, because it's forged to distribute the wire rope forces evenly over an accurately formed load surface. Plus, uniformity of the roll forged groove adds longer wire rope life.

Full Range of Standard Sheave Sizes

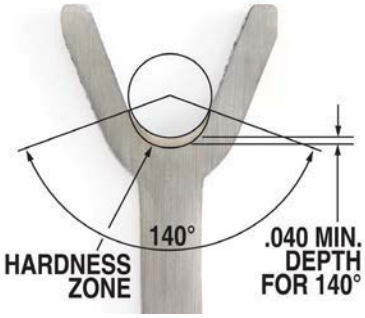
McKissick Roll-Forged™ sheaves are available in a full range of sizes from 305mm to 1981mm, and bearing styles and prices that best fit your application. Crosby also manufactures custom McKissick sheaves and can make minor modifications to standard sheaves as needed for special applications.

Solid Steel – No Casting

Every McKissick sheave starts as a single piece of solid carbon steel plate It's flame-cut from closely checked stock, so there's no inherent web/rim flaw as you find in cast sheaves. There's better balance and better distribution of forces with a McKissick Roll-Forged™ sheave too. Casting can result in groove wall variations – either too thick or too thin – causing uneven stresses and early failure.

Flame Hardened Groove

Crosby's hardening technique is a science. It provides a precise maximum hardness for wear-resistance across the wire rope contact area. The McKissick sheave groove is flame hardened to a minimum 35 Rockwell C for a 140° contact area with the wire rope (upon special request the McKissick sheave groove can be flame hardened to a minimum 50 rockwell C for a 150° contact area with the wire rope). The solid steel plate provides the ideal surface for flame hardening and a closer tolerance fit to the wire rope to reduce fatigue and wear.



Bearing Selection to Match Your Job Requirement

The McKissick Roll-Forged™ sheave is available in the following configurations:

- Plain bore
- Bronze bushed
- Roller bearing
- Tapered roller bearing
- Lubrication thru hub
- Key ways
- Set screws
- Full Complement Bearing

Licensed Under
API Spec 8C-0021

Sheaves are available to API 8C.

Custom sheaves are available. See page 281 for ordering details.