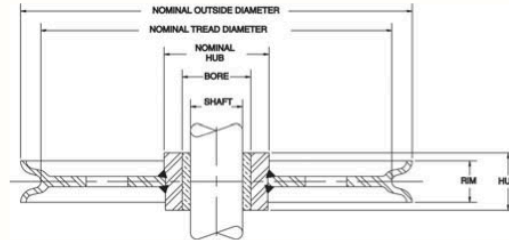


# THE JAMES WALKER CO.

## McKISSICK SHEAVES

McKissick® sheaves come in a variety of sizes to suit your specific applications. Check the tables for the size, bearing style and price that best fits your application. For applications that require unique specifications, Crosby can make minor modifications to many of the sheaves listed at a reasonable charge. We can also custom design and manufacture sheaves to your exact requirements. Contact Crosby Sales to order McKissick® sheaves and include the stock number and quantity. For special requirements or custom designed sheaves, furnish the following important information:

- Wireline Size
- Shaft Diameter
- Weight Requirements
- Hub Diameter
- Bore Finished
- Nominal Outside Diameter
- Hub Width
- Rim Width
- Nominal Tread Diameter
- Other Special Requirements



### ROLL FORGED™ SHEAVE FEATURES

- Unique upset roll forging process provides a thicker groove section for extra strength.
- Stepped Hubs are precisely centered and mechanically locked in place.
- Wireline grooves on sheave diameters of 14" and larger are flamed hardened for extra wear resistance.
- All sheaves have solid steel webs with holes for easy handling.
- Sheave weights can be made heavier or lighter than shown to fit your specific application.
- For more information ask for our special brochure describing the complete roll forging process.

### McKISSICK® ROLL FORGED™ SHEAVE CONFIGURATOR

The McKissick® Roll Forged™ Sheave CONFIGURATOR system has been developed to simplify the selection and ordering of McKissick® Roll Forged™ sheaves. Although McKissick® can custom manufacture any Roll-Forged™ sheave to your exact requirement, we have developed a system to allow quick and easy selection of the proper standard McKissick® Roll Forged™ sheave required to meet your applications. Using standard sheaves will reduce the lead time in getting the sheave to you, thus saving time and money.

### SHEAVE BEARING APPLICATION INFORMATION

#### Bronze Bushing -

Slow line speed, moderate load and moderate use,  
 Maximum Bearing Pressure (BP): 4500 PSI  
 Maximum Velocity at Bearing (BV): 1200 FPM  
 Maximum Pressure Velocity Factor (PV): 55000

$$\text{Formula for BP} = \frac{\text{Line Pull} \times \text{Angle Factor (See Page 345)}}{\text{Shaft Size} \times \text{Hub Width (See example)}}$$

#### Plain Bore -

Very slow line speed, very infrequent use, low load.

#### Roller Bearing -

Faster line speeds, more frequent use, greater load.

#### Example:

Using a 14 in. sheave (917191) with a 4600 lbs. line pull and a 80 degree angle between lines, determine maximum allowable line speed.

$$\text{BP} = 4600 \text{ lbs.} \times 1.53 \div 1.50 \times 1.62 = 2896 \text{ PSI}$$

(Line Pull) (Angle Factor) (Shaft Size) (Hub Width)

$$\text{BV} = 55000 \div 2896 = 19 \text{ FPM}$$

(PV Factor) (BP)

**WARNING: DO NOT EXCEED RATED CAPACITIES**

# THE JAMES WALKER CO.

## McKISSICK ROLL FORGED SHEAVES

### ROLL FORGED™ SHEAVE CONFIGURATOR WORKSHEET

Customer Name			Date		
Address					
City		State	Country		Zip
Phone			Fax		
Customer Contact Name					
E-Mail				Quantity	
<p><b>Crosby, please quote on the following McKissick® Roll Forged™ Sheave</b>  <b>ALL SPACES MUST BE COMPLETE</b></p>					
<b>Additional Information</b>					
<b>Application Information</b>					
Line Pull		Fleet Angle		Degree of Wrap	
Line Speed		Environment			
<b>Special Testing</b>					
<b>Finish</b>					
Third Party Inspection / Approval					

**WARNING: DO NOT EXCEED RATED CAPACITIES**