



# McKEES ROCKS FORGED STEEL SHEAVE WHEELS

Forged Steel Sheave Wheels are available in the wide range of standard sizes shown below. *In addition, wheels to meet your special design requirements can be produced in virtually any size, configuration and surface finish condition.* We maintain a large inventory of carbon and alloy steels to meet your specific needs.

Forged Wheels are available in any surface hardness up to 62Rc including our standard heat treatments.

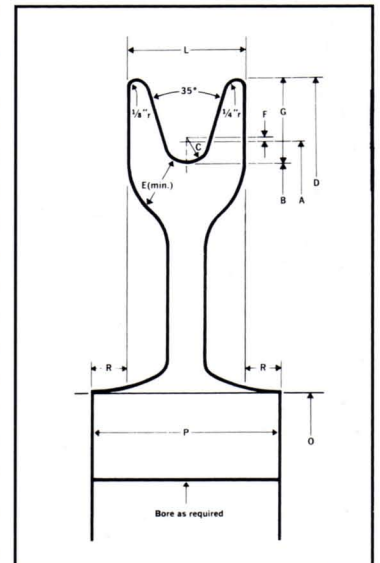
- Untreated, Annealed, Normalized
- Rim Toughened (34-40Rc)
- Deep Hardened (Up to 62Rc)
- Super Tough AISI-4140 Heat Treated to 450-500 BHN

## McKEES ROCKS Sheave Wheels Dimensional Data

| Wheel Section Number | Nominal Weight Lbs. | Rope Diameter | Outside Diameter D | Pitch Diameter A | Root Diameter B | Rim Width L | Groove Radius C | Rope Wall (Min.) E | Clearance Offset F | Groove Depth G | Hub Diameter O | Hub Length P | Hub Projection R | Standard Rough Bore (Min.) |
|----------------------|---------------------|---------------|--------------------|------------------|-----------------|-------------|-----------------|--------------------|--------------------|----------------|----------------|--------------|------------------|----------------------------|
| WSW-162              | 100                 | 1/2           | 16                 | 15               | 14 1/2          | 1 3/4       | 9/32            | 1/2                | 1/32               | 3/4            | 8              | 3 1/2        | 7/8              | 3                          |
| WSW-202              | 150                 | 5/8           | 20                 | 18 3/4           | 18 1/8          | 2           | 11/32           | 5/8                | 1/32               | 15/16          | 9 1/2          | 3 1/2        | 3/4              | 4                          |
| WSW-222              | 170                 | 5/8           | 21 3/4             | 20 1/2           | 19 7/8          | 2           | 11/32           | 5/8                | 1/32               | 15/16          | 9 1/2          | 3 1/2        | 3/4              | 4                          |
| WSW-242              | 235                 | 3/4           | 24                 | 22 1/2           | 21 3/4          | 2 1/4       | 13/32           | 3/4                | 1/32               | 1 1/8          | 11             | 3 1/2        | 5/8              | 4                          |
| WSW-262              | 255                 | 3/4           | 26                 | 24 1/2           | 23 3/4          | 2 1/4       | 13/32           | 3/4                | 1/32               | 1 1/8          | 11             | 3 1/2        | 5/8              | 4                          |
| WSW-282              | 315                 | 7/8           | 28                 | 26 1/4           | 25 3/8          | 2 1/2       | 31/64           | 7/8                | 3/64               | 15/16          | 12             | 3 3/4        | 5/8              | 5 1/4                      |
| WSW-302              | 355                 | 7/8           | 30                 | 28 1/4           | 27 3/8          | 2 1/2       | 31/64           | 7/8                | 3/64               | 15/16          | 12             | 3 3/4        | 5/8              | 5 1/4                      |
| WSW-322              | 420                 | 1             | 32                 | 30               | 29              | 2 3/4       | 35/64           | 1                  | 3/64               | 1 1/2          | 12 1/2         | 3 3/4        | 1/2              | 5 1/4                      |
| WSW-342              | 430                 | 1             | 34                 | 32               | 31              | 2 3/4       | 35/64           | 1                  | 3/64               | 1 1/2          | 12 1/2         | 3 3/4        | 1/2              | 5 1/4                      |
| WSW-362              | 560                 | 1 1/8         | 36                 | 33 3/4           | 32 5/8          | 3           | 39/64           | 1 1/8              | 3/64               | 1 11/16        | 14             | 4            | 1/2              | 5 1/4                      |
| WSW-382              | 675                 | 1 1/8         | 38 1/4             | 36               | 34 7/8          | 3           | 39/64           | 1 1/8              | 3/64               | 1 11/16        | 14             | 4            | 1/2              | 5 1/4                      |
| WSW-402              | 795                 | 1 1/4         | 40                 | 37 1/2           | 36 1/4          | 3 1/4       | 11/16           | 1 1/4              | 1/16               | 1 7/8          | 14             | 4 1/4        | 1/2              | 5 1/4                      |
| WSW-422              | 860                 | 1 1/4         | 42 1/2             | 40               | 38 3/4          | 3 1/4       | 11/16           | 1 1/4              | 1/16               | 1 7/8          | 14             | 4 1/4        | 1/2              | 5 1/4                      |
| WSW-442              | 975                 | 1 3/8         | 44                 | 41 1/4           | 39 7/8          | 3 1/2       | 3/4             | 1 3/8              | 1/16               | 2 1/16         | 14             | 4 1/2        | 1/2              | 5 1/4                      |
| WSW-482              | 1100                | 1 1/2         | 48                 | 45               | 43 1/2          | 3 3/4       | 13/16           | 1 1/2              | 1/16               | 2 1/4          | 15             | 4 3/4        | 1/2              | 5 1/4                      |

## McKEES ROCKS Standard Wheels Tolerances \* (Inches)

| Dimension                  | Crane Track Wheels   |       |                   |       | Industrial Wheels          |             | Sheave Wheels              |       |
|----------------------------|--|-------|-------------------|-------|----------------------------|-------------|----------------------------|-------|
|                            | Rough Machined   |       | Finished Machined |       | Standard Finish Rough Bore |             | Standard Finish Rough Bore |       |
|                            | Max.   | Min.  | Max.              | Min.  | Max.                       | Min.        | Max.                       | Min.  |
| Wheel Diameter****         | +1/8   | -1/8  | +1/64             | -1/64 | +3/16                      | -1/16       | N/A                        | N/A   |
| Wheel Circumference**      | N/A  | N/A   | N/A               | N/A   | +4 Tapes***                | -1 Tapes*** | N/A                        | N/A   |
| Rim Outside Diameter       | N/A  | N/A   | N/A               | N/A   | N/A                        | N/A         | +1/16                      | -1/8  |
| Root Diameter              | N/A  | N/A   | N/A               | N/A   | N/A                        | N/A         | +3/16                      | -0    |
| Flange Height              | +1/16  | -1/16 | +1/16             | -1/16 | +1/16                      | -1/16       | N/A                        | N/A   |
| Flange Thickness           | +3/16  | -1/16 | +1/32             | -1/32 | +1/16                      | -1/16       | N/A                        | N/A   |
| Rim Thickness              | N/A  | N/A   | N/A               | N/A   | +3/8                       | -3/16       | N/A                        | N/A   |
| Rim Width                  | +3/16  | -1/16 | +1/16             | -1/16 | +1/8                       | -1/8        | +1/8                       | -1/8  |
| Hub Length                 | +1/8   | -1/8  | +1/16             | -1/16 | +3/8                       | +1/8        | +3/8                       | +1/8  |
| Hub Diameter               | +1   | -1/4  | +1                | -1/4  | +1                         | -1/4        | +3/4                       | -1/4  |
| Hub Proj. or Depr.         | N/A  | N/A   | N/A               | N/A   | +1/8                       | -1/8        | +3/16                      | -1/16 |
| Bore                       | Rough bore shall be 1/4" +/- 1/8" less in diameter than finished bore size. Rough bore eccentricity in relation to tread: -3/32" max. Finish bore and hub length tolerance to customer's specifications. |       |                   |       |                            |             |                            |       |
| Minimum Hub Wall Thickness | Bores 7" diameter and under, hub wall 1" minimum. Bores over 7" diameter, hub wall 1-1/4" minimum.   |       |                   |       |                            |             |                            |       |



\*Values listed on tables are in inches, and are McKees Rocks standards, McKees Rocks Forgings can produce Wheels to most customer's specifications. \*\*Wheels are mated in pairs within one tape. \*\*\*As measured by standard tapes. \*\*\*\*For Deep Hardened Crane Wheels standard tread diameter tolerance is +/- .010 and will be supplied with an as heat treated surface. Tighter tolerances require finish machining after heat treatment.