

# 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 62 RC including our standard heat treatments.

- Untreated, Annealed, Normalized
- Rim Toughened (34-40 RC)
- Deep Hardened (Up to 62 RC)
- Super Tough AISI-4140

## SHEAVE WHEELS Dimensional Data

| Wheel Section Number | Nominal Weight lbs. | Rope Dia. | Outside Dia. D | Pitch Dia. A | Root Dia. B | Rim Width L | Groove Radius C | Rope Wall (Min.) E | Clearance Offset F | Groove Depth G | Hub Dia. 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               | 1-5/16         | 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               | 1-5/16         | 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                      |

## STANDARD WHEEL 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 Dia.****     | +1/8                                                                                                                                                                                                    | -1/8  | +1/64             | -1/64 | +3/16                      | -1/16       | N/A                        | N/A   |
| Wheel Cir.**       | N/A                                                                                                                                                                                                     | N/A   | N/A               | N/A   | +4 Tapes***                | -1 Tapes*** | N/A                        | N/A   |
| Rim Outside Dia.   | N/A                                                                                                                                                                                                     | N/A   | N/A               | N/A   | N/A                        | N/A         | +1/16                      | -1/8  |
| Root Dia.          | 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 Dia.           | +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 Forgings standards. McKees Rocks Forgings can produce wheels to most customers specification. \*\*Wheels are mated in pairs within one tape. \*\*\*As measured by standard tapes. \*\*\*\*For Deep Hardened Crane Wheels standard tread diameter tolerance is +/-0.010 and will be supplied with an as heat treated surface. Tighter tolerances require finish machining after heat treatment.

