

## Forged Steel Wheels

### Series FS & SD — Cap. to 20,000 lbs.

**HAMILTON®**


Forging technology produces the ultimate tensile strength in industrial wheels. Coupled with solid billet design, this makes Hamilton Forged Steel Wheels virtually indestructible. Consequently, load limits are governed by bearing capacity.

Wheel treads are machined smooth and concentric, with a slight crown that lessens energy requirements by aiding turnability under heavy loads. All sizes above 6" x 2" are available with preci-

sion tapered roller bearings in order to realize maximum benefits from the capacity potentials. All the wheels listed below come with machine gray enamel finish, and with ball-check lubrication fittings installed in the hubs.

Flanged and V-Grooved wheels of forged steel are also available—see catalog pages 56-59.

**To order, add bearing size to catalog number.**

**Example: W-840-FST-1¼.**

★ = available **PRONTO®** with bearing size in red.

Dimensions in Inches

| Dia. | Face | Hub Length | Cap. Lbs. | Plain Bore      |           | Straight Roller Bearings |                |               | Tapered Roller Bearings |                |               | Wt. Lbs. |
|------|------|------------|-----------|-----------------|-----------|--------------------------|----------------|---------------|-------------------------|----------------|---------------|----------|
|      |      |            |           | Cap. Lbs.       | Bore Size | Cap. Lbs.                | Catalog Number | Bearing Sizes | Cap. Lbs.               | Catalog Number | Bearing Sizes |          |
| 4    | 1½   | 2¼         | 1400      | ★ W-415-FSL-1⅜  | 1⅜        | 1400                     | ★ W-415-FS-    | ½-⅝-¾         | X                       | X              | X             | 5        |
| 5    | 2    | 2¼         | 1500      | ★ W-5-FSL-1⅜    | 1⅜        | 1500                     | ★ W-5-FS-      | ½-⅝-¾         | 2000                    | W-5-FST-½      | ½             | 6        |
| 6    | 2    | 2¼         | 2000      | ★ W-6-FSL-1⅜    | 1⅜        | 2000                     | ★ W-6-FS-      | ⅝-¾-1         | 2500                    | W-6-FST-½      | ½             | 7        |
|      | 2½   | 3¼         | 4500      | ★ W-625-FSL-1⅝  | 1⅝        | 3500                     | ★ W-625-FSH-   | 1-1¼          | 4500                    | W-625-FST-     | ¾-1           | 10       |
|      | 3    | 3¼         | 12,000    | ★ W-630-FSL-2⅜  | 2⅜        | 4500†                    | ★ W-630-FSH-   | 1-1¼-1½       | 12,000‡                 | ★ W-630-FST-   | ¾-1-1¼        | 16       |
| 8    | 3    | 3¼         | 6000      | ★ W-830-FSL-2⅜  | 2⅜        | 4800†                    | ★ W-830-FSH-   | 1-1¼-1½       | 6000‡                   | ★ W-830-FST-   | ¾-1-1¼        | 20       |
|      | 4    | 4¼         | 17,000    | W-840-FSL-2⅜    | 2⅜        | 6500†                    | W-840-FSH-     | 1¼-1½         | 17,000                  | ★ W-840-FST-   | 1¼-1½         | 35       |
| 10   | 3    | 3¼         | 6500      | ★ W-1030-FSL-2⅜ | 2⅜        | 5500†                    | ★ W-1030-FSH-  | 1-1¼-1½       | 6500‡                   | ★ W-1030-FST-  | ¾-1-1¼        | 27       |
|      | 4    | 4¼         | 18,000    | W-1040-FSL-2⅜   | 2⅜        | 7500†                    | W-1040-FSH-    | 1¼-1½         | 18,000                  | ★ W-1040-FST-  | 1¼-1½         | 44       |
| 12*  | 4    | 4¼         | 20,000    | W-1240-FSL-2⅜   | 2⅜        | 7500†                    | W-1240-FSH-    | 1¼-1½         | 20,000‡                 | W-1240-FST-1¼  | 1¼            | 130      |

### STEELTEST (DUCTILE) WHEELS

|    |   |    |      |   |   |   |              |         |      |            |      |    |
|----|---|----|------|---|---|---|--------------|---------|------|------------|------|----|
| 12 | 4 | 4¼ | 5000 | X | X | X | † W-124-SDH- | 1-1¼-1½ | 5000 | W-124-SDT- | 1-1¼ | 36 |
|----|---|----|------|---|---|---|--------------|---------|------|------------|------|----|

‡ Based on 1400 hours of bearing life at 1 m.p.h., or 610 hours of life at 2 m.p.h. using largest bearing size. Bearing capacities depend upon the interrelationships of load, speed and life—e.g., load can be increased 50% if designing for only 500 hours of life at 2 m.p.h.; or load can be increased approximately 1000 lbs. by reducing speed to 1 m.p.h. Other rules of thumb: reducing load by one half increases life by ten times; reducing speed by one half doubles the life.

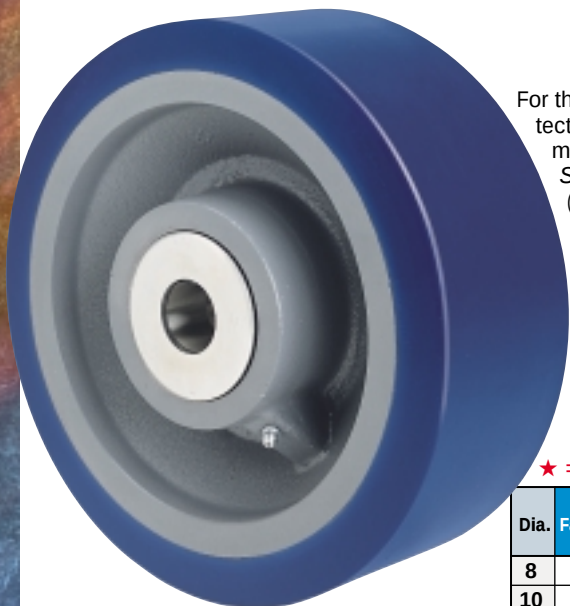
‡ Based on largest bearing size and 2500 hours of life at 2 m.p.h.

\* This wheel is of 1045 steel.

† Runs undersize after machining.

## Superlast® Wheels

### Series SY — Cap. to 6,000 lbs.



For the extra tough jobs requiring protective polyurethane treads, Hamilton manufactures these top-of-the-line Superlast® Wheels. The extra-thick (1") blue treads (hardness of 90-95 Shore A) are liquid cast and chemically bonded to solid-web, drop forged steel centers. Precision

tapered roller bearings are standard, making these high capacity wheels ideal for power towing at limited speeds. Ball-check lubrication fittings are provided in the hubs.

For casters utilizing these wheels, see pages 22, 23, and 24.

**To order, add bearing size to catalog number.**

**Example: W-1040-SYT-1¼.**

★ = available **PRONTO®** with bearing size in red.

Dimensions in Inches

| Dia. | Face | Hub Length | Cap. Lbs. | Plain Bore      |           | Straight Roller Bearings |               | Tapered Roller Bearings |               | Wt. Lbs. |
|------|------|------------|-----------|-----------------|-----------|--------------------------|---------------|-------------------------|---------------|----------|
|      |      |            |           | Catalog Number  | Bore Size | Catalog Number           | Bearing Sizes | Catalog Number          | Bearing Sizes |          |
| 8    | 3    | 3¼         | 3500      | ★ W-830-SYL-2⅜  | 2⅜        | ★ W-830-SYH-             | 1-1¼-1½       | ★ W-830-SYT-            | ¾-1-1¼        | 26       |
| 10   | 4    | 4¼         | 5000      | ★ W-1040-SYL-2⅜ | 2⅜        | ★ W-1040-SYH-            | 1¼-1½         | ★ W-1040-SYT-           | 1¼            | 45       |
| 12   | 4    | 4¼         | 6000      | ★ W-1240-SYL-2⅜ | 2⅜        | ★ W-1240-SYH-            | 1¼-1½         | ★ W-1240-SYT-           | 1¼            | 60       |