

## Ultralast™ & Super Ultralast™ Wheels



#W-820-TRB-1/2  
Ultralast™



#W-1040-STRT-1 1/4  
Super Ultralast™

Hamilton is proud to introduce the new *Ultralast™ Wheel* – representing the highest performing urethane we've ever offered. The new *Ultralast™ Wheel* possesses "off the chart" performance characteristics—specifically in the areas of thermal retention and rollability. Heat buildup in polyurethane, due to high loads or continuous duty applications, is the most common cause for material breakdown over the life of the wheel. *Ultralast™* polyurethane operates much cooler under load and at higher speeds compared to most other urethanes. The result is a simply superior dynamic performance and a longer service life.

*Ultralast™* also represents the best rolling polyurethane wheel we've ever offered and by a wide margin. For example, the urethane's rebound test results, which can be a proxy for rollability, measures 110% higher than *Duralast®*, 60% higher than *PolySoft®* and 20% higher than *Vulkollan®*.

So the combination of *Ultralast™*'s very low thermal retention and extremely high rollability characteristics results in an ultra high performance wheel that's designed to outperform and outlast other polyurethanes in the marketplace.

Hamilton recommends *Ultralast™* wheels for continuous duty/power-towed, and higher speed applications on smooth surfaces.

The *Ultralast™ Wheel Series* is offered in two types: The standard *Ultralast™* wheel has 3/8" thick red tread chemically bonded to gray heavy duty cast iron center. The *Super Ultralast™* is the ultimate with 1" extra thick tread molded to a super heavy duty forged steel center. *Ultralast™* and *Super Ultralast™* wheels are available in Hamilton's forged steel casters including the popular Workhorse, Heavy Service, Extra Heavy Duty, Kingpin-less Endurance Series, and many more.

The tables below offer our most popular sizes, yet the new *Ultralast™* polyurethane can be molded to Hamilton's other cast iron, forged steel, and/or aluminum centers in finished sizes ranging from 3 1/4" to 20" diameter. Consult factory for pricing and availability.

Note: Test data illustrates the *Ultralast™* wheel dynamics are equivalent to or superior to *Vulkollan®*.

*Vulkollan®* is a registered trademark of Bayer Material Science.

### PHYSICAL PROPERTIES

- **Composition** – high performance liquid cast polyurethane.
- **Hardness** – 93-94 Durometer (Shore A).
- **Bashore Rebound** – 57%.
- **Elongation at Break** – 550%.
- **Tensile Strength** – 6500 psi.
- **Temperature Range** – -50° to +200° F, intermittent; 0° to 180° continuous.

For help selecting the best polyurethane tread type for your application, see the *Wheel Performance Characteristics chart* on pages 18 & 19.

### THREE YEAR WARRANTY



The *Ultralast™ (TR)* and *Super Ultralast™ (STR)* Series are backed by Hamilton's Three Year Product Warranty.



### FEATURED WHEEL BEARINGS



**Precision Ball Bearings:** double sealed, maintenance free, superior rollability aids manual applications, not recommended if shock loading is prevalent.



**Tapered Roller Bearings:** best for most severe heavy duty and power-towed applications.

To order, add bearing size to Hamilton number.  
Example: W-820-TRB-1/2.

### Super Ultralast™ Selection Table

3YR = 3 Year Warranty applies

| Dia. | Face | Hub Length | Cap. Lbs. | Precision Ball Bearings      |            | Tapered Roller Bearings     |             | Wt. Lbs. |
|------|------|------------|-----------|------------------------------|------------|-----------------------------|-------------|----------|
|      |      |            |           | Hamilton Model No.           | Brg. Sizes | Hamilton Model No.          | Brg. Sizes  |          |
| 8    | 3    | 3 1/4      | 4200      | W-830-STRB- <sup>3YR</sup>   | 3/4-1      | W-830-STRT- <sup>3YR</sup>  | 3/4-1-1 1/4 | 26       |
| 10   | 4    | 4 1/4      | 6000      | W-1040-STRB-1 <sup>3YR</sup> | 1          | W-1040-STRT- <sup>3YR</sup> | 1 1/4-1 1/2 | 45       |
| 12   | 4    | 4 1/4      | 7200      | W-1240-STRB-1 <sup>3YR</sup> | 1          | W-1240-STRT- <sup>3YR</sup> | 1 1/4-1 1/2 | 60       |

★ = same day/next day  
PRONTO® shipment.

### Ultralast™ Selection Table

3YR = 3 Year Warranty applies

| Dia. | Face | Hub Length▲ | Cap. Lbs. | Precision Ball Bearings    |            | Tapered Roller Bearings    |             | Hub Outside Dia. | Wt. Lbs. |
|------|------|-------------|-----------|----------------------------|------------|----------------------------|-------------|------------------|----------|
|      |      |             |           | Hamilton Model No.         | Brg. Size* | Hamilton Model No.         | Brg. Size   |                  |          |
| 4    | 2    | 2 1/4       | 900       | W-420-TRB- <sup>3YR</sup>  | 1/2        | X                          | X           | 1 1/8            | 4        |
| 5    | 2    | 2 1/4       | 1250      | W-520-TRB- <sup>3YR</sup>  | 1/2        | W-520-TRT- <sup>3YR</sup>  | 3/4         | 2 1/4            | 5        |
| 6    | 2    | 2 1/4       | 1400      | ★W-620-TRB- <sup>3YR</sup> | 1/2-3/4    | W-620-TRT- <sup>3YR</sup>  | 3/4         | 2 1/4            | 6        |
|      | 3    | 3 1/4       | 2600      | ★W-630-TRB- <sup>3YR</sup> | 3/4        | W-630-TRT- <sup>3YR</sup>  | 3/4-1-1 1/4 | 2 3/4            | 12       |
| 8    | 2    | 2 1/4       | 1800      | ★W-820-TRB- <sup>3YR</sup> | 1/2-3/4    | W-820-TRT- <sup>3YR</sup>  | 3/4         | 2 3/8            | 9        |
|      | 3    | 3 1/4       | 3000      | ★W-830-TRB- <sup>3YR</sup> | 3/4-1      | W-830-TRT- <sup>3YR</sup>  | 3/4-1-1 1/4 | 2 3/4            | 17       |
| 10   | 3    | 3 1/4       | 3600      | W-1030-TRB- <sup>3YR</sup> | 3/4-1      | W-1030-TRT- <sup>3YR</sup> | 3/4-1-1 1/4 | 3                | 21       |
| 12   | 3    | 3 1/4       | 4200      | W-1230-TRB- <sup>3YR</sup> | 3/4-1      | W-1230-TRT- <sup>3YR</sup> | 3/4-1-1 1/4 | 3 1/2            | 38       |

▲ Precision Ball Bearings include top hat spanners that add 1/4" to the published hub length.  
\* The bearing size represents the inside diameter of the top hat bushing (included).