

Duralast® XC/Superlast® XC Wheels



#W-620-DB70-1/2
Duralast® XC

Are you looking for improved rollability and extra capacity in a resilient tread wheel? If so, Hamilton's 70-Durometer polyurethane (Shore D) wheels will deliver. Because the polyurethane is harder than standard 95A poly, these wheels roll more easily and carry up to 30% more capacity- thus the suffix XC, as in eXtra Capacity! In addition, they effectively repel foreign objects and debris. Hamilton furnishes this new poly in two wheel configurations: 1/2" thick tread chemically bonded to cast iron centers (Duralast® XC) and 1" thick tread chemically bonded to forged steel centers (Superlast® XC).

Duralast® XC wheels (bottom chart) have precision ball bearings in all sizes from 4" x 2" to 12" x 3". In towing applications, Hamilton recommends precision tapered bearings which are available in all 3" wide models. These wheels can also be mounted in Hamilton's forged steel casters, including the popular Workhorse, Heavy Service, Champion and kingpinless Endurance series.

Superlast® XC models (top chart) are offered in sizes from 8" x 3" to 12" x 4" and all models are equipped with precision tapered roller bearings. These are among the highest capacity polyurethane wheels on the market today. They are well suited for towing applications and can be used in many Hamilton forged steel caster series including Maxi-Duty, Precision Super Duty, and kingpinless Super Endurance casters.

PHYSICAL PROPERTIES

- **Composition** – high grade liquid cast polyurethane.
- **Hardness** – 70 Durometer (Shore D).
- **Bashore Rebound** – 40%.
- **10% Compression** – 2600 psi.
- **Elongation at Break** – 250%.
- **Tensile Strength** – 7000 psi.
- **Tear Strength** – Split Tear 130 lb./in., Die C Tear 800 lb./in.
- **Temperature Range** – -50° to 180° F.

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

OPTIONAL EXTRAS (more help on page 12)

- **Tapered Roller Bearing Seals.**
- **Available Plain Bore or with roller bearings.**
- **Special Hub Length** – hubs can be cut to provide shorter length, spacer washers furnished to increase length.
- **Keyways, and/or set screws** – for locking wheels on shaft (plain bore).
- **Other sizes are available on special order** – Consult factory.



#W-1040-SYT70-1 1/4
Superlast® XC

FEATURED WHEEL BEARINGS



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

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

To order, add bearing size to Hamilton number.
Example: W-620-DB70-1/2.

Superlast® XC Selection Table

3YR = 3 Year Warranty applies

Dia.	Face	Hub Length	Cap. Lbs.	Tapered Roller Bearings		
				Hamilton Model No.	Brg. Size	Wt. Lbs.
8	3	3/4	4400	W-830-SYT70- ^{3YR}	3/4-1-1/4	26
10	4	4/4	6500	W-1040-SYT70- ^{3YR}	1 1/4-1 1/2	45
12	4	4/4	7800	W-1240-SYT70- ^{3YR}	1 1/4-1 1/2	60

THREE YEAR WARRANTY



The Duralast XC (D70) and Superlast XC (SY70) Series are backed by Hamilton's Three Year Product Warranty.

Duralast® XC 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	975	★ W-420-DB70-1/2 ^{3YR}	1/2	X	X	1 7/8	4
5	2	2 1/4	1360	★ W-520-DB70-1/2 ^{3YR}	1/2	W-520-DT70-3/4 ^{3YR}	3/4	2 1/4	4 1/2
6	2	2 1/4	1560	★ W-620-DB70- ^{3YR}	1/2-3/4	W-620-DT70-3/4 ^{3YR}	3/4	2 1/4	5 3/4
	3	3 1/4	2860	★ W-630-DB70-3/4 ^{3YR}	3/4	W-630-DT70- ^{3YR}	3/4-1-1/4	2 3/4	12
8	2	2 1/4	1950	★ W-820-DB70- ^{3YR}	1/2-3/4	W-820-DT70-3/4 ^{3YR}	3/4	2 3/8	8 3/4
	3	3 1/4	3250	★ W-830-DB70-3/4 ^{3YR}	3/4	W-830-DT70- ^{3YR}	3/4-1-1/4	2 3/4	16 3/4
10	3	3 1/4	3900	★ W-1030-DB70-3/4 ^{3YR}	3/4	W-1030-DT70- ^{3YR}	3/4-1-1/4	3	20 1/2
12	3	3 1/4	4550	W-1230-DB70-3/4 ^{3YR}	3/4	W-1230-DT70- ^{3YR}	3/4-1-1/4	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).