



# WHEELS AT A GLANCE



### **Forged Steel**

Forged steel wheels are precision machined to offer the greatest load capacity, impact strength and rollability. Precision tapered bearings complement the characteristics of these wheels.



### **Cast Iron**

Precision machined cast iron wheels feature premium Class 30 gray iron with a heavy duty cross section. These wheels are excellent for high heat applications.



### **Ductile Iron**

Ductile iron wheels feature many of the same characteristics of cast iron; however, the ductile iron wheel has higher tensile and yield strengths.



### **Polyurethane**

Polyurethane wheels feature a higher capacity material than rubber, longer wear, and will not damage your floors like cast iron or steel. A wide variety of liquid cast polyurethane wheels are offered.



### **Mold On Rubber**

Rubber offers a cost effective alternative to polyurethane while providing a cushioned and quiet ride for the product being transported. Neoprene and high load compounds are also available.

### **Protech™**

Protech wheels feature a soft, non-marking treatment on a rust-free polyolefin core. Protech wheels reject floor debris and are highly resistant to most chemicals.



### **Nylatron**

Nylatron wheels provide a tough material which is approximately 80% the weight of steel or cast iron. Nylatron has excellent load carrying capacities and resists corrosion. Nylatron provides a long wearing material and is especially suitable when maintenance is an issue.



### **Phenolic Resin**

Phenolic resin wheels offer a load carrying capacity approaching that of cast iron or steel wheels. Phenolic resin wheels are a cost effective alternative with increased rollability and will not damage floors.



### **Solid Elastomer**

Solid, non-marking polyurethane is used for high load capacities. These wheels are harder than soft rubber and softer than hard rubber and will not damage floors. Solid elastomer wheels do not develop flat spots under standing loads.



## WHEELS AT A GLANCE cont.



**V-Groove**  
 “V” grooves are machined from either cast iron or hot forged steel wheels. V-grooves work on track or off track and are vital where precise alignment or indexing of equipment is necessary.



**Flanged**  
 Single- and dual-flanged wheels operate on a rail for locating fixtures in a precise position for indexing through a work cycle. Premium cast iron and steel is used for the wheel material to provide high strength and long wear.



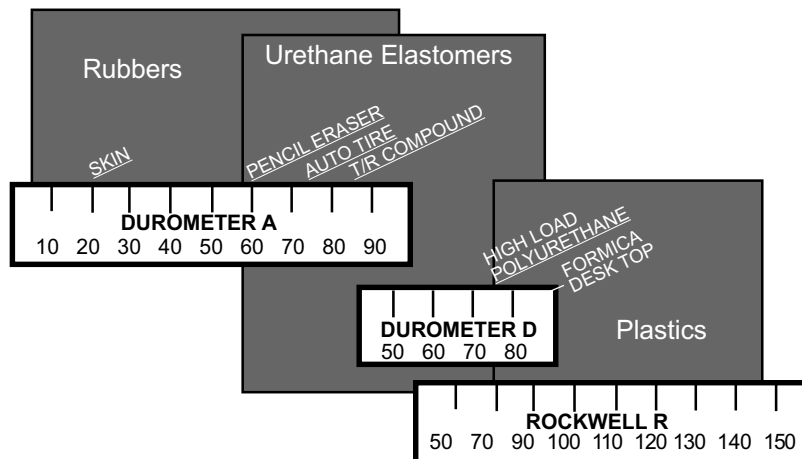
**Pneumatic**  
 Pneumatic wheels offer the highest cushioning, shock absorbing caster/wheel, without moving to a more expensive spring loaded caster. Capacities of pneumatics are limited due to the soft cushioning characteristics of the wheel.



**Drive/Keyway**  
 Drive and keyway wheels have excellent surfaces of 82 Shore A durometer soft poly or 70Shore A durometer mold on rubber. Drive wheels contain two set screws per wheel, one over the key and one 90 degrees to the key.

## HARDNESS COMPARISON CHART

Wheel Type	Tread Material	Durometer	Scale
N/A	Soft Tread Rubber	70 – 80	A
N/A	Hard Tread Rubber	75 – 85	D
30 & 35	Phenolics	145 – 150	R
60 & 65 & 68	Polyurethane	90 – 95	A
61 & 66 & 69	80 A Polyurethane	80 – 85	A
63 & 67	70D H.L. Poly	70	D
70	Rubber	70 – 80	A
71	Gray Rubber	70 – 80	A
72	Semi-Hard Rubber	90 – 100	A
73	Neoprene	65 – 75	A
76	Pneumatic	55 – 60	A



**CASTER CONCEPTS WILL MODIFY ANY CASTER TO MEET CUSTOMER SPECIFICATIONS**

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