# Wheel Bearing Selection Guide

To understand how bearing codes are represented in part numbers, please visit page 18.

## Roller

Roller bearings are the standard bearing in most caster applications. 1-1/2 and 2 inch width wheels feature a cage separating hardened steel rollers and a hardened steel split outer race. These bearings must be used on a hardened bushing or shaft. Maximum temperature range is 350°F. All Casters and wheels are rated up to 2.5 mph operation per the Institute of Caster & Wheel Manufacturers Guidelines.

### Bearing Code: 01, 05, 07

## Precision Sealed Ball

Completely sealed, these precision ground ball bearings are held in a metal spacer ring between two hardened raceways. This bearing never needs to be lubricated, and with the lowest rolling resistance of all bearings it provides the most ergonomic situation available. Maximum temperature range is 250°F.

### Bearing Code: 28

## Pedestal Precision Ball

These sealed precision ball bearings include an integral spanner which eliminates need for separate spanner. Maximum temperature range is 250°F.

### Bearing Code: 29

## Precision Tapered Roller

The tapered roller is the most effective bearing for heavy or towed loads. The taper allows for some thrust loading, while the heat-treated inner and outer race allow for maximum load capacity. Maximum temperature range is 400°F.

### Bearing Code: 09

## Bronze

Excellent for wash-down or steam cleaning applications. Bronze bearings are designed for temperatures up to 525°F.

### Bearing Code: 22

## Oilex

These bearings are made of oil-impregnated sintered iron. Completely self-lubricating, these are ideal for situations where rolling force is less critical and accessibility for lubrication is difficult. Maximum temperature range is 450°F.

### Bearing Code: 23

## Radial Ball (Industrial Ball)

Shielded ball bearings are often referred to as “industrial grade” bearings. Pressed into the hub of lower capacity wheels, these low cost bearings decrease the effort required to move a load. Maximum temperature range is 250°F.

### Bearing Code: 27

## Plain Bore

In this option, no bearing material is used. The wheel runs directly on the axle or spanner bushing. This is the least expensive bearing option, but also results in a higher rolling resistance.

### Bearing Code: 41

## Two Piece Delrin

A DuPont™ engineered material, Delrin is designed for use in situations in which a self-lubricating material is optimal and corrosion cannot be tolerated. Ideal for wash-down or steam-cleaning applications as well as total immersion. Maximum temperature range is 160°F.

### Bearing Code: 51

## One Piece Delrin

This is a one-piece version of the Delrin bearing listed above. Good for use where thrust washers are needed or to add rigidity to a soft wheel which might cause the two piece bearing to be ejected from the bore of the wheel. Maximum temperature range is 160°F.

### Bearing Code: 52

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**Wheel Bearing Selection**

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