

310

Made in the USA
Contender™
Kingpinless Casters
CAPACITY TO 4100



Constructed from high quality, heat treated AISI 1045 laser-cut steel. Precision machined raceway, fully welded legs (inside and outside), and kingpinless design delivers superior strength in rugged applications.

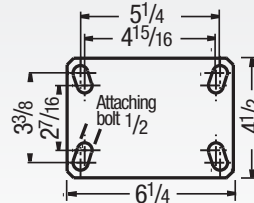
TYPICAL APPLICATIONS

- Conveyor-drawn tow-trucks
- Heavy duty bakery racks
- Production dollies
- Heavy duty dough troughs

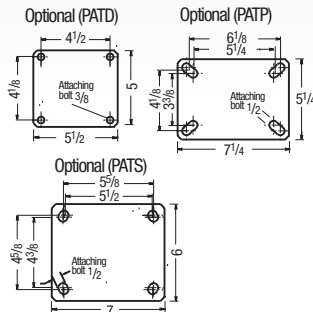
SWIVEL CROSS SECTION



MOUNTING OPTIONS Standard Plate



Special Order Plate



Premium Quality



Towing[^]



Environmentally Friendly

FEATURES

- **New laser cut steel construction**
- **3 Year warranty**
- **Top Plate:** 5/16" AISI 1045 heat treated steel welded inside and out for longer life
- **Swivel Section:** One row of 1/2" ball bearings mounted in a heat treated precision machined raceway. Zerk in swivel section
- **Yoke Base:** Notched AISI 1045 steel
- **Legs:** 3/8" thick welded inside and out
- **Axle:** 3/4" diameter
- **Finish:** RoHS Zinc plating, for greater corrosion resistance than paint
- Alternate or custom caster configurations available

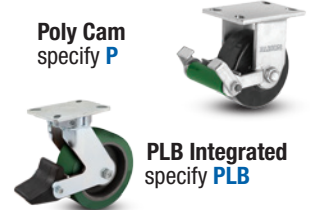
RIG OPTIONS

- **Optional Towable Swivel Leads:**
 6" dia. 2-7/32"
 8" dia. 2-15/16"
 10" dia. 3-3/8"
 12" dia. 4-5/16"
 Consult factory for capacity changes. To order add **XL** to end of model. Example: 310MR06401**SXL**
- **Optional Spring Loaded:** Greater capacity and better shock protection. Noise levels are reduced through the dampening effect of these casters. See pages 94-95

BRAKE OPTIONS

To order, add brake code below to end of model. Example: 310PY08401**SP**

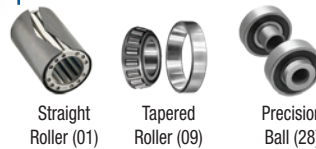
Poly Cam specify **P**



Single Side specify **SSB310**. Double Sided specify **DSB310**



BEARING OPTIONS



TOE GUARD

Specify **TOE** for caster integrated toe guard. Standard model toe guards are 1/2" from the floor.

STAINLESS STEEL OPTION

See page 84



+ For swivel models add "S", for rigid model add "R" to end of base caster number.

Moldon Rubber on Cast Iron (01 Roller Bearing)*

| MR/MH | Wheel Diameter (Inches) | Tread Width (Inches) | Capacity (Lbs) (Rate for manual operation) | Overall Height (Inches) | Swivel Lead (Inches) | Base Caster Number+ |
|-------|-------------------------|----------------------|--|-------------------------|----------------------|---------------------|
| | 6 | 2 1/2 | 700 | 7 1/2 | 1 3/8 | 310MR06401 |
| | 6 | 3 | 750 | 7 1/2 | 1 3/8 | 310MR06501 |
| | 8 | 2 1/2 | 850 | 10 1/8 | 2 1/16 | 310MR08401 |
| | 8 | 3 | 900 | 10 1/8 | 2 1/16 | 310MR08501 |
| | 10 | 2 1/2 | 950 | 11 1/2 | 2 1/4 | 310MR10401 |
| | 10 | 2 1/2** | 1500 | 11 1/2 | 2 1/4 | 310MH10401 |
| | 10 | 3 | 1000 | 11 1/2 | 2 1/4 | 310MR10501 |
| | 10 | 3** | 1800 | 11 1/2 | 2 1/4 | 310MH10501 |
| | 12 | 2 1/2 | 950 | 13 1/2 | 2 11/16 | 310MR12401 |
| | 12 | 2 1/2** | 1700 | 13 1/2 | 2 11/16 | 310MH12401 |
| | 12 | 3 | 1200 | 13 1/2 | 2 11/16 | 310MR12501 |

*MR available with Tapered Roller (09) bearings. Change "01" to "09". Example: 310MR10409.

**Heavy-duty MH version of wheel.

Polyurethane on Cast Iron (01 Roller Bearing)*

| PY | Wheel Diameter (Inches) | Tread Width (Inches) | Capacity (Lbs) (Rate for manual operation) | Overall Height (Inches) | Swivel Lead (Inches) | Base Caster Number+ |
|----|-------------------------|----------------------|--|-------------------------|----------------------|---------------------|
| | 6 | 2 1/2 | 1600 | 7 1/2 | 1 3/8 | 310PY06401 |
| | 6 | 3 | 2000 | 7 1/2 | 1 3/8 | 310PY06501 |
| | 8 | 2 1/2 | 2000 | 10 1/8 | 2 1/16 | 310PY08401 |
| | 8 | 3 | 2500 | 10 1/8 | 2 1/16 | 310PY08501 |
| | 10 | 2 1/2 | 2300 | 11 1/2 | 2 1/4 | 310PY10401 |
| | 10 | 3 | 3000 | 11 1/2 | 2 1/4 | 310PY10501 |
| | 12 | 2 1/2 | 2700 | 13 1/2 | 2 11/16 | 310PY12401 |
| | 12 | 3 | 3500 | 13 1/2 | 2 11/16 | 310PY12501 |

*Tapered Roller (09) bearings available. Change "01" to "09". Example: 310PY10409.

80A Durometer available, add "80A" to end of caster number. 80A capacity reduced by approximately 20%. Swivel example: 310PY06401**S80A**.

+ For swivel models add "S", for rigid model add "R" to end of base caster number.



Polyurethane on Aluminum (01 Roller Bearing)*

| PD | Wheel Diameter (inches) | Tread Width (inches) | Capacity (lbs) (rated for manual operation) | Overall Height (inches) | Swivel Lead (inches) | Base Caster Number+ |
|----|-------------------------|----------------------|---|-------------------------|----------------------|---------------------|
| 8 | 2 1/2 | 2010 | 10 1/8 | 2 1/16 | 310PD08401 | |
| 8 | 3 | 2520 | 10 1/8 | 2 1/16 | 310PD08501 | |
| 10 | 2 1/2 | 2370 | 11 1/2 | 2 1/4 | 310PD10401 | |
| 10 | 3 | 3000 | 11 1/2 | 2 1/4 | 310PD10501 | |

Standard durometer 95 Shore A. Other durometers available.
*Tapered Roller (09) bearings available. Change "01" to "09".
Example: 310PD10409.

Thick Tread Polyurethane (01 Roller Bearing)*

| PX | Wheel Diameter (inches) | Tread Width (inches) | Capacity (lbs) (rated for manual operation) | Overall Height (inches) | Swivel Lead (inches) | Base Caster Number+ |
|----|-------------------------|----------------------|---|-------------------------|----------------------|---------------------|
| 6 | 3 | 2250 | 7 1/2 | 1 3/8 | 310PX06501 | |
| 8 | 3 | 2780 | 10 1/8 | 2 1/16 | 310PX08501 | |
| 10 | 2 1/2 | 2600 | 11 1/2 | 2 1/4 | 310PX10401 | |
| 10 | 3 | 3300 | 11 1/2 | 2 1/4 | 310PX10501 | |
| 12 | 3 | 3760 | 13 1/2 | 2 11/16 | 310PX12501 | |

Standard durometer 95 Shore A. Other durometers available.
*Tapered Roller (09) bearings available. Change "01" to "09".
Example: 310PX10409.

Aubin Industries Swivel-EAZ® Crown Tread (28 Prec. Ball Bearing)

| EY | Wheel Diameter (inches) | Tread Width (inches) | Capacity (lbs) (rated for manual operation) | Overall Height (inches) | Swivel Lead (inches) | Base Caster Number+ |
|----|-------------------------|----------------------|---|-------------------------|----------------------|---------------------|
| 6 | 3 | 2137 | 7 1/2 | 1 3/8 | 310EY06528 | |
| 8 | 3 | 3250 | 10 1/8 | 2 1/16 | 310EY08528 | |
| 10 | 3 | 3800 | 11 1/2 | 2 1/4 | 310EY10528 | |
| 12 | 3 | 4000 | 13 1/2 | 2 11/16 | 310EY12528 | |

Aubin Industries Swivel-EAZ® Flat Tread (28 Prec. Ball Bearing)

| EZ | Wheel Diameter (inches) | Tread Width (inches) | Capacity (lbs) (rated for manual operation) | Overall Height (inches) | Swivel Lead (inches) | Base Caster Number+ |
|----|-------------------------|----------------------|---|-------------------------|----------------------|---------------------|
| 6 | 3 | 2850 | 7 1/2 | 1 3/8 | 310EZ06528 | |
| 8 | 3 | 4000 | 10 1/8 | 2 1/16 | 310EZ08528 | |
| 10 | 3 | 4100 | 11 1/2 | 2 1/4 | 310EZ10528 | |
| 12 | 3 | 4100 | 13 1/2 | 2 11/16 | 310EZ12528 | |

Polyurethane on Cast Iron (01 Roller Bearing)

| PI | Wheel Diameter (inches) | Tread Width (inches) | Capacity (lbs) (rated for manual operation) | Overall Height (inches) | Swivel Lead (inches) | Base Caster Number+ |
|----|-------------------------|----------------------|---|-------------------------|----------------------|---------------------|
| 6 | 2 1/2 | 1600 | 7 1/2 | 1 3/8 | 310PI06401 | |
| 6 | 3 | 2000 | 7 1/2 | 1 3/8 | 310PI06501 | |
| 8 | 2 1/2 | 2000 | 10 1/8 | 2 1/16 | 310PI08401 | |
| 8 | 3 | 2500 | 10 1/8 | 2 1/16 | 310PI08501 | |
| 10 | 2 1/2 | 2200 | 11 1/2 | 2 1/4 | 310PI10401 | |
| 10 | 3 | 2800 | 11 1/2 | 2 1/4 | 310PI10501 | |
| 12 | 2 1/2 | 2500 | 13 1/2 | 2 11/16 | 310PI12401 | |
| 12 | 3 | 3000 | 13 1/2 | 2 11/16 | 310PI12501 | |

Polyurethane on Heavy Duty Cast Iron (28 Precision Ball Bearing)*

| PF | Wheel Diameter (inches) | Tread Width (inches) | Capacity (lbs) (rated for manual operation) | Overall Height (inches) | Swivel Lead (inches) | Base Caster Number+ |
|----|-------------------------|----------------------|---|-------------------------|----------------------|---------------------|
| 6 | 2 1/2 | 2900 | 7 1/2 | 1 3/8 | 310PF06428 | |
| 8 | 2 1/2 | 3100 | 10 1/8 | 2 1/16 | 310PF08428 | |
| 8 | 3 | 4000 | 10 1/8 | 2 1/16 | 310PF08528 | |
| 10 | 3 | 4100 | 11 1/2 | 2 1/4 | 310PF10528 | |

95 Shore A
*Tapered Roller (09) bearings available. Change "28" to "09".
Example: 310PF10509.

Polyurethane Reactive on Iron (28 Precision Ball Bearing)*

| PR | Wheel Diameter (inches) | Tread Width (inches) | Capacity (lbs) (rated for manual operation) | Overall Height (inches) | Swivel Lead (inches) | Base Caster Number+ |
|----|-------------------------|----------------------|---|-------------------------|----------------------|---------------------|
| 10 | 3 | 2400 | 11 1/2 | 2 1/4 | 310PR10528 | |
| 12 | 3 | 2800 | 13 1/2 | 2 11/16 | 310PR12528 | |

80 Shore A
*Tapered Roller (09) bearings available. Change "28" to "09".
Example: 310PR10509.

Vulkollan on Cast Iron (01 Roller Bearing)*

| VY | Wheel Diameter (inches) | Tread Width (inches) | Capacity (lbs) (rated for manual operation) | Overall Height (inches) | Swivel Lead (inches) | Base Caster Number+ |
|----|-------------------------|----------------------|---|-------------------------|----------------------|---------------------|
| 6 | 2 1/2 | 2350 | 7 1/2 | 1 3/8 | 310VY06401 | |
| 6 | 3 | 3000 | 7 1/2 | 1 3/8 | 310VY06501 | |
| 8 | 2 1/2 | 2900 | 10 1/8 | 2 1/16 | 310VY08401 | |
| 8 | 3 | 4000 | 10 1/8 | 2 1/16 | 310VY08501 | |
| 10 | 3 | 4100 | 11 1/2 | 2 1/4 | 310VY10501 | |

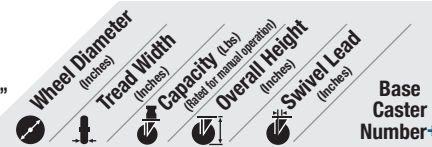
*Tapered Roller (09) bearings available. Change "01" to "09".
Example: 310VY10509.

Vulkollan Thick Tread Polyurethane (01 Roller Bearing)*

| VX | Wheel Diameter (inches) | Tread Width (inches) | Capacity (lbs) (rated for manual operation) | Overall Height (inches) | Swivel Lead (inches) | Base Caster Number+ |
|----|-------------------------|----------------------|---|-------------------------|----------------------|---------------------|
| 6 | 3 | 3000 | 7 1/2 | 1 3/8 | 310VX06501 | |
| 8 | 3 | 4000 | 10 1/8 | 2 1/16 | 310VX08501 | |
| 10 | 3 | 4100 | 11 1/2 | 2 1/4 | 310VX10501 | |

*Tapered Roller (09) bearings available. Change "01" to "09".
Example: 310VX10509.

+ For swivel models add "S", for rigid model add "R" to end of base caster number.



X-treme Plus Solid Polyurethane (28 Precision Ball Bearing)

| XP | Wheel Diameter (inches) | Tread Width (inches) | Capacity (lbs) (rated for manual operation) | Overall Height (inches) | Swivel Lead (inches) | Base Caster Number+ |
|----|-------------------------|----------------------|---|-------------------------|----------------------|---------------------|
| 8 | 2 1/2 | 2000 | 10 1/8 | 2 1/16 | 310XP08428 | |
| 8 | 3 | 2000 | 10 1/8 | 2 1/16 | 310XP08528 | |
| 10 | 2 1/2 | 2500 | 11 1/2 | 2 1/4 | 310XP10428 | |
| 10 | 3 | 2500 | 11 1/2 | 2 1/4 | 310XP10528 | |

Phenolic (01 Roller Bearing)*

| TM | Wheel Diameter (inches) | Tread Width (inches) | Capacity (lbs) (rated for manual operation) | Overall Height (inches) | Swivel Lead (inches) | Base Caster Number+ |
|----|-------------------------|----------------------|---|-------------------------|----------------------|---------------------|
| 6 | 2 1/2 | 1600 | 7 1/2 | 1 3/8 | 310TM06401 | |
| 6 | 3 | 2000 | 7 1/2 | 1 3/8 | 310TM06501 | |
| 8 | 2 1/2 | 2000 | 10 1/8 | 2 1/16 | 310TM08401 | |
| 8 | 3 | 2500 | 10 1/8 | 2 1/16 | 310TM08501 | |
| 10 | 2 1/2 | 2500 | 11 1/2 | 2 1/4 | 310TM10401 | |
| 10 | 3 | 2900 | 11 1/2 | 2 1/4 | 310TM10501 | |
| 12 | 2 1/2 | 3000 | 13 1/2 | 2 11/16 | 310TM12401 | |
| 12 | 3 | 3500 | 13 1/2 | 2 11/16 | 310TM12501 | |

*Tapered Roller (09) bearings available. Change "01" to "09".
Example: 310TM10409.

Trionix™ High Impact Polymer (28 Precision Ball Bearing)

| NX | Wheel Diameter (inches) | Tread Width (inches) | Capacity (lbs) (rated for manual operation) | Overall Height (inches) | Swivel Lead (inches) | Base Caster Number+ |
|----|-------------------------|----------------------|---|-------------------------|----------------------|---------------------|
| 6 | 2 1/2 | 4100 | 7 1/2 | 1 3/8 | 310NX06428 | |
| 6 | 3 | 4100 | 7 1/2 | 1 3/8 | 310NX06528 | |
| 8 | 2 1/2 | 4100 | 10 1/8 | 2 1/16 | 310NX08428 | |
| 8 | 3 | 4100 | 10 1/8 | 2 1/16 | 310NX08528 | |
| 10 | 2 1/2 | 4100 | 11 1/2 | 2 1/4 | 310NX10428 | |
| 10 | 3 | 4100 | 11 1/2 | 2 1/4 | 310NX10528 | |

Cast Iron (01 Roller Bearing)*

| CA | Wheel Diameter (inches) | Tread Width (inches) | Capacity (lbs) (rated for manual operation) | Overall Height (inches) | Swivel Lead (inches) | Base Caster Number+ |
|----|-------------------------|----------------------|---|-------------------------|----------------------|---------------------|
| 6 | 2 1/2 | 2300 | 7 1/2 | 1 3/8 | 310CA06401 | |
| 6 | 3 | 2800 | 7 1/2 | 1 3/8 | 310CA06501 | |
| 8 | 2 1/2 | 2300 | 10 1/8 | 2 1/16 | 310CA08401 | |
| 8 | 3 | 2800 | 10 1/8 | 2 1/16 | 310CA08501 | |
| 10 | 2 1/2 | 2300 | 11 1/2 | 2 1/4 | 310CA10401 | |
| 10 | 3 | 2800 | 11 1/2 | 2 1/4 | 310CA10501 | |
| 12 | 3 | 2800 | 13 1/2 | 2 11/16 | 310CA12501 | |

*Tapered Roller (09) bearings available. Change "01" to "09".
Example: 310CA10409.

V-Groove Cast Iron (01 Roller Bearing)*

| VG/VF | Wheel Diameter (inches) | Tread Width (inches) | Capacity (lbs) (rated for manual operation) | Overall Height (inches) | Swivel Lead (inches) | Base Caster Number+ |
|-------|-------------------------|----------------------|---|-------------------------|----------------------|---------------------|
| 6 | 2 1/2 | 2500 | 7 1/2 | 1 3/8 | 310VG06401 | |
| 8 | 2 1/2 | 2500 | 10 1/8 | 2 1/16 | 310VG08401 | |
| 8 | 3 | 2500 | 10 1/8 | 2 1/16 | 310VG08501 | |
| 10 | 3 | 3500 | 11 1/2 | 2 1/4 | 310VG10501 | |

V-Groove Drop Forged Steel (01 Roller Bearing)

| | Wheel Diameter (inches) | Tread Width (inches) | Capacity (lbs) (rated for manual operation) | Overall Height (inches) | Swivel Lead (inches) | Base Caster Number+ |
|---|-------------------------|----------------------|---|-------------------------|----------------------|---------------------|
| 8 | 3 | 4100 | 10 1/8 | 2 1/16 | 310VF08501 | |

*Tapered Roller (09) bearings available. Change "01" to "09".
Example: 310VF10409.

Drop Forged Steel (01 Roller Bearing)*

| FS | Wheel Diameter (inches) | Tread Width (inches) | Capacity (lbs) (rated for manual operation) | Overall Height (inches) | Swivel Lead (inches) | Base Caster Number+ |
|----|-------------------------|----------------------|---|-------------------------|----------------------|---------------------|
| 6 | 2 1/2 | 4000 | 7 1/2 | 1 3/8 | 310FS06401 | |
| 8 | 2 1/2 | 4000 | 10 1/8 | 2 1/16 | 310FS08401 | |
| 8 | 3 | 4100 | 10 1/8 | 2 1/16 | 310FS08501 | |
| 10 | 3 | 4100 | 11 1/2 | 2 1/4 | 310FS10501 | |

*Tapered Roller (09) bearings available. Change "01" to "09".
Example: 310FS10509.

Ductile Iron Crowned Tread (01 Roller Bearing)*

| FR, FM, VM | Wheel Diameter (inches) | Tread Width (inches) | Capacity (lbs) (rated for manual operation) | Overall Height (inches) | Swivel Lead (inches) | Base Caster Number+ |
|------------|-------------------------|----------------------|---|-------------------------|----------------------|---------------------|
| 6 | 2 1/2 | 3500 | 7 1/2 | 1 3/8 | 310FR06401 | |
| 6 | 3 | 4100 | 7 1/2 | 1 3/8 | 310FR06501 | |
| 8 | 3 | 4100 | 10 1/8 | 2 1/16 | 310FR08501 | |
| 10 | 3 | 4100 | 11 1/2 | 2 1/4 | 310FR10501 | |

*Tapered Roller (09) bearings available.
Change "01" to other bearing code. Example: 310FR08509.
Ductile Iron Flat Tread (FM) and V-Groove (VM) models available.
Change FR wheel code to FM or VM. Example: 310FM08501.