

# SPRING LOADED CASTERS

## CAPACITY RANGE 500-3000 LBS



### 141 Series

Unique polyurethane spring design is durable and corrosion resistant.

### Common Applications:

- Manufacturing Plant Carts
- Aerospace / Automotive
- Specialty Toolboxes
- Ground Support Equipment
- Technology Carts
- Portable Cranes & Hoists
- Mobile Workstations
- Monitoring Carts
- Laboratory Equipment

#### Kingpin Casters



**40 Series Medium Duty**  
Capacity to 500 ..... 88-89



**41 Series Medium Duty**  
Capacity to 800 ..... 90



**42 Series Heavy Duty**  
Capacity to 800 ..... 91



**44 Series Xtra Heavy Duty**  
Capacity to 1500 ..... 92

#### Kingpinless Casters



**141 Series**  
Capacity to 1500 ..... 93



**S310 Series**  
Capacity to 3000 ..... 94-95



**S410 Series**  
Capacity to 3000 ..... 96-97



**S610 Series**  
Capacity to 3000 ..... 98-99

### Benefits of Spring Loaded Casters:

- Better floor and equipment protection
- Reduce operating noise
- Reduce unwanted vibration
- Increase product life expectancy

### Need Even More Capacity Or A Custom Configuration?



**Excellent for Weight Carts**  
10,000 lbs load capacity!

You won't find this "bad boy" at just any caster source. Albion engineers and craftsmen can custom design and build a solution for even the most challenging applications.



Premium Quality



Environmentally Friendly

# 40

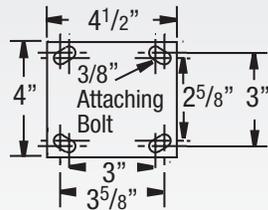
## Medium Duty Spring-Loaded Kingpin Casters

CAPACITY TO 500



Designed with the load in mind, 40 series protects from damaging shocks or unwanted vibration and movement. Noise levels are reduced through the dampening effect of these casters.

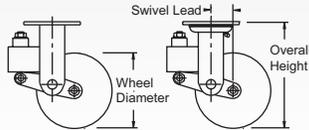
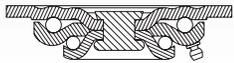
### MOUNTING OPTION



### TYPICAL APPLICATIONS

- Shock sensitive carts
- Aircraft jacks
- Monitoring equipment
- Material handling equipment

### SWIVEL CROSS SECTION



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

Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Rated for manual operation)	Overall Height (Inches)	Swivel Lead (Inches)	Approx. Wt. (Lbs)	Base Caster Number+
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### Neoprene on Aluminum (28 Precision Ball Bearing)

NP	5	2	500	8	13/4	10 1/2	40NP05228
	6	2	500	8 1/2	13/4	11	40NP06228
	8	2	500	10 1/2	13/4	13 1/4	40NP08228

### Mold-on Rubber on Cast Iron (01 Roller Bearing)\*

MR	5	2	450	8	13/4	10 1/2	40MR05201
	6 <td>2 <td>500 <td>8 1/2 <td>13/4 <td>11 <td>40MR06201</td> </td></td></td></td></td>	2 <td>500 <td>8 1/2 <td>13/4 <td>11 <td>40MR06201</td> </td></td></td></td>	500 <td>8 1/2 <td>13/4 <td>11 <td>40MR06201</td> </td></td></td>	8 1/2 <td>13/4 <td>11 <td>40MR06201</td> </td></td>	13/4 <td>11 <td>40MR06201</td> </td>	11 <td>40MR06201</td>	40MR06201
	8 <td>2 <td>500 <td>10 1/2 <td>13/4 <td>13 1/4</td> <td>40MR08201</td> </td></td></td></td>	2 <td>500 <td>10 1/2 <td>13/4 <td>13 1/4</td> <td>40MR08201</td> </td></td></td>	500 <td>10 1/2 <td>13/4 <td>13 1/4</td> <td>40MR08201</td> </td></td>	10 1/2 <td>13/4 <td>13 1/4</td> <td>40MR08201</td> </td>	13/4 <td>13 1/4</td> <td>40MR08201</td>	13 1/4	40MR08201

\*Industrial Ball (27) bearings available. To order change "01" to other bearing code. Industrial Ball example: 40MR05227.

### Heavy Duty Moldon Rubber on Cast Iron (01 Roller Bearing)\*

MH	5	2	500	8	13/4	10 1/2	40MH05201
	6 <td>2 <td>500 <td>8 1/2 <td>13/4 <td>11</td> <td>40MH06201</td> </td></td></td></td>	2 <td>500 <td>8 1/2 <td>13/4 <td>11</td> <td>40MH06201</td> </td></td></td>	500 <td>8 1/2 <td>13/4 <td>11</td> <td>40MH06201</td> </td></td>	8 1/2 <td>13/4 <td>11</td> <td>40MH06201</td> </td>	13/4 <td>11</td> <td>40MH06201</td>	11	40MH06201
	8 <td>2 <td>500 <td>10 1/2 <td>13/4 <td>13 1/4</td> <td>40MH08201</td> </td></td></td></td>	2 <td>500 <td>10 1/2 <td>13/4 <td>13 1/4</td> <td>40MH08201</td> </td></td></td>	500 <td>10 1/2 <td>13/4 <td>13 1/4</td> <td>40MH08201</td> </td></td>	10 1/2 <td>13/4 <td>13 1/4</td> <td>40MH08201</td> </td>	13/4 <td>13 1/4</td> <td>40MH08201</td>	13 1/4	40MH08201

\*Industrial Ball (27) bearings available. To order change "01" to other bearing code. Industrial Ball example: 40MH05227.

### FEATURES

- **Load Springs:** Maximum rated capacity loads will deflect wheel approximately 3/8" (50%). Different load springs for each series permits wide variation in ride "softness." They can be preloaded to obtain various degrees of deflection
- **Top Plate & Yoke Base:** Made from 1/4" steel plate and unnotched
- **Swivel Section:** Cold formed, hardened double ball bearing raceways minimize ball indentation and wear
- **Legs:** 1/4" steel cold formed to increase strength and welded to the yoke base
- **King Bolt:** 5/8" diameter orbitally spun steel rivet
- **Axle:** 1/2" diameter hollow axle complete with lock nut. Axle is solid for 28 & 29 ball bearings
- **Wheel Seals:** Nylon seal retaining/thrust washers
- Alternate or custom caster configurations available

### RIG OPTIONS

- Neoprene sealed swivel section specify **SS02**
- Hollow axle specify **ZF07**
- Available with **kingpinless** section, consult factory

### BRAKE OPTIONS

**Single Side and Double Sided Brakes** available, consult factory  
**Swivel Lock** available (welded), consult factory

### BEARING OPTIONS



Note: Wheel capacities can change with each bearing type. Consult factory.

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

Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Rated for manual operation)	Overall Height (Inches)	Swivel Lead (Inches)	Approx. Wt. (Lbs)	Base Caster Number+
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### Mold-on Rubber on Aluminum (01 Roller Bearing)\*

MD	5	2	500	8	13/4	8	40MD05201
	6 <td>2 <td>500 <td>8 1/2 <td>13/4 <td>9 <td>40MD06201</td> </td></td></td></td></td>	2 <td>500 <td>8 1/2 <td>13/4 <td>9 <td>40MD06201</td> </td></td></td></td>	500 <td>8 1/2 <td>13/4 <td>9 <td>40MD06201</td> </td></td></td>	8 1/2 <td>13/4 <td>9 <td>40MD06201</td> </td></td>	13/4 <td>9 <td>40MD06201</td> </td>	9 <td>40MD06201</td>	40MD06201
	8 <td>2 <td>500 <td>10 1/2 <td>13/4 <td>10 1/2</td> <td>40MD08201</td> </td></td></td></td>	2 <td>500 <td>10 1/2 <td>13/4 <td>10 1/2</td> <td>40MD08201</td> </td></td></td>	500 <td>10 1/2 <td>13/4 <td>10 1/2</td> <td>40MD08201</td> </td></td>	10 1/2 <td>13/4 <td>10 1/2</td> <td>40MD08201</td> </td>	13/4 <td>10 1/2</td> <td>40MD08201</td>	10 1/2	40MD08201

\*Industrial Ball (27) bearings available. To order change "01" to other bearing code. Industrial Ball example: 40MD05227.

### X-tra Soft Flat Tread (01 Roller Bearing)\*

XS	5	2	500	8	13/4	8	40XS05201
	6 <td>2 <td>500 <td>8 1/2 <td>13/4 <td>8 1/2</td> <td>40XS06201</td> </td></td></td></td>	2 <td>500 <td>8 1/2 <td>13/4 <td>8 1/2</td> <td>40XS06201</td> </td></td></td>	500 <td>8 1/2 <td>13/4 <td>8 1/2</td> <td>40XS06201</td> </td></td>	8 1/2 <td>13/4 <td>8 1/2</td> <td>40XS06201</td> </td>	13/4 <td>8 1/2</td> <td>40XS06201</td>	8 1/2	40XS06201
	8 <td>2 <td>500 <td>10 1/2 <td>13/4</td> <td>9 1/2</td> <td>40XS08201</td> </td></td></td>	2 <td>500 <td>10 1/2 <td>13/4</td> <td>9 1/2</td> <td>40XS08201</td> </td></td>	500 <td>10 1/2 <td>13/4</td> <td>9 1/2</td> <td>40XS08201</td> </td>	10 1/2 <td>13/4</td> <td>9 1/2</td> <td>40XS08201</td>	13/4	9 1/2	40XS08201

Prevenz™ antimicrobial models available. Add PREV to end of caster number.

\*Industrial Ball (27) bearings available. To order change "01" to other bearing code. Industrial Ball example: 40XS05227.

Continue on next page >>



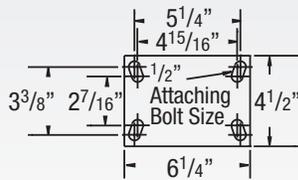
# 41

## SpringGuard™ Spring-Loaded Kingpin Casters CAPACITY TO 800



Spring into safety with this clever spring loaded caster featuring SpringGuard™, which is well suited for the automotive and aviation industries. The spring is not exposed; instead it is protected by a urethane guard for additional safety.

### MOUNTING OPTION



### TYPICAL APPLICATIONS

- Diagnostic and electrical
- Institutional and laboratory
- Medical equipment and carts
- Food processing
- Mobile workstations and storage racks
- Automotive seat racks
- Ground support equipment
- Packaging equipment
- Specialty toolboxes
- Tilt carts



Premium Quality



Environmentally Friendly



Towing^

### FEATURES

- **Load Springs:** Springs are encapsulated and protected by a urethane SpringGuard™ for added safety, plus noise and vibration reduction
- **Swivel Section:** Fully heat treated double ball raceway construction, extends the life of the caster
- **Swivel Lead:** Longer swivel lead allows the caster to index quicker into in-line position for easier movement.
- **Top Plate & Yoke Base:** Top plate and legs are made from 1/4" thick cold formed steel

### RIG OPTIONS

- Hollow axle specify **ZF07**

### BRAKE OPTIONS

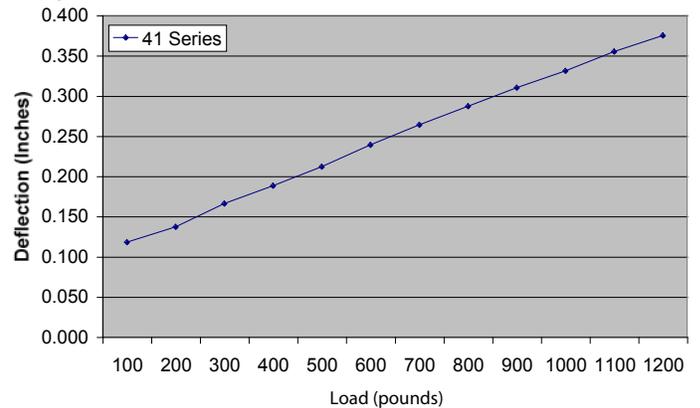
Consult Factory

### BEARING OPTION



Precision  
Ball (28)

### Spring Deflection Curve



Linear deflection curve demonstrates consistent smooth spring action with loads from 100 lbs. to 1200 lbs.

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

Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (rated for normal operation)	Overall Height (Inches)	Swivel Lead (Inches)	Approx. Wt. (LBS)	Base Caster Number+
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#### 41 Aubin Industries Swivel-EAZ® Crown Tread (Blue Tread with (28) Precision Bearing)

EY	6	2	800	77/8	2	41EY06228S
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#### 41 Aubin Industries Swivel-EAZ® Flat Tread (Blue Tread with (28) Precision Bearing)

EZ	6	2	800	77/8	2	41EZ06228S
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#### 41 Series Polyurethane on Aluminum 90A Durometer (Green Tread with (28) Precision Bearing)

PM	6	2	800	77/8	2	41PM06228S
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+ For swivel models add "S", for rigid model add "R" to end of base caster number.

Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (rated for normal operation)	Overall Height (Inches)	Swivel Lead (Inches)	Approx. Wt. (LBS)	Base Caster Number+
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#### 41 Series Polyurethane on Aluminum 80A Durometer (Butterscotch Tread with (28) Precision Bearing)

PM 80A	6	2	800	77/8	2	41PM06228S80A
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#### 41 Series X-tra Soft Rubber (Flat Tread with (28) Precision Bearing)

XS	6	2	600	77/8	2	41XS06228S
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#### 41 Series (Solid Elastomer (28) Precision Bearing)

SE	6	2	800	77/8	2	41SE06228S
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Premium Quality



Environmentally Friendly

# 42

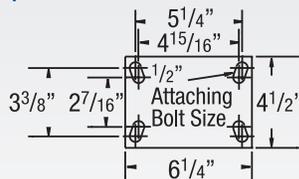
## Heavy Duty Spring-Loaded Kingpin Casters

CAPACITY TO 800

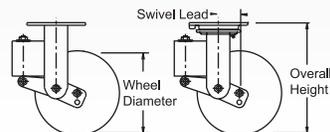
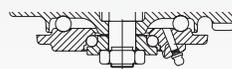


Designed with greater load capacity than our 40 series, this series protects from damaging shocks or unwanted vibration and movement. Noise levels are reduced through the dampening effect of these casters.

### MOUNTING OPTION



### SWIVEL CROSS SECTION



### TYPICAL APPLICATIONS

- Shock sensitive carts
- Aircraft jacks
- Monitoring equipment
- Material handling equipment
- Computer equipment

### FEATURES

- **Load Springs:** Maximum rated capacity loads will deflect wheel approximately 5/8" (50%). Different load springs for each series permits wide variation in ride "softness." They can be preloaded to obtain various degrees of deflection Top
- **Top Plate & Yoke Base:** AISI 1045 drop forged steel for extended service life
- **Swivel Section:** Double ball bearing with coined "deep-groove" load and machined thrust raceways provide optimal performance under extreme loads
- **Legs:** 1/4" steel, formed to increase strength
- **King Bolt:** 3/4" diameter heat treated bolt and nut for enhanced shock load capacity
- **Axle:** 1/2" diameter hollow axle with lock nut for easy lubrication of wheels with straight roller bearing. Solid axle for 28 ball bearing
- **Lubrication:** Zerk fitting in swivel section and in recessed head of hollow axle
- Alternate or custom caster configurations available

### RIG OPTIONS

- Neoprene sealed swivel section specify **SS05**
- Available with **kingpinless** section, consult factory

### BRAKE OPTIONS

**Single Side and Double Sided** Brakes available, consult factory

**Swivel Lock** available (welded), consult factory

### BEARING OPTIONS



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

Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Based on normal operation)	Overall Height (Inches)	Swivel Lead (Inches)	Approx. Wt. (LBS)	Base Caster Number+
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### Polyurethane on Cast Iron (07 Roller Bearing)

PY	8	2 1/2	800	11 1/2	2 1/4	23	42PY08407
	10	2 1/2	800	13 1/2	2 1/4	19 1/2	42PY10407

### Vulkollan on Iron (07 Roller Bearing)

VY	8	2 1/2	800	11 1/2	2 1/4	23	42VY08407
	10	2 1/2 <td>800 <td>13 1/2 <td>2 1/4</td> <td>21 1/4</td> <td>42VY10407</td> </td></td>	800 <td>13 1/2 <td>2 1/4</td> <td>21 1/4</td> <td>42VY10407</td> </td>	13 1/2 <td>2 1/4</td> <td>21 1/4</td> <td>42VY10407</td>	2 1/4	21 1/4	42VY10407

### Phenolic (07 Roller Bearing)\*

TM	8	2 1/2	800	11 1/2	2 1/4	23	42TM08407
	10	2 1/2 <td>800 <td>13 1/2 <td>2 1/4</td> <td>21 1/4</td> <td>42TM10407</td> </td></td>	800 <td>13 1/2 <td>2 1/4</td> <td>21 1/4</td> <td>42TM10407</td> </td>	13 1/2 <td>2 1/4</td> <td>21 1/4</td> <td>42TM10407</td>	2 1/4	21 1/4	42TM10407

\*Tapered Roller (09) bearing available. To order change "07" to other bearing code. Example: 42TM08409.

### Trionix™ High Impact Polymer (28 Precision Ball Bearing)

NX	8	2 1/2	800	11 1/2	2 1/4		42NX08428
	10	2 1/2 <td>800 <td>13 1/2 <td>2 1/4 <th></th> <th>42NX10428</th> </td></td></td>	800 <td>13 1/2 <td>2 1/4 <th></th> <th>42NX10428</th> </td></td>	13 1/2 <td>2 1/4 <th></th> <th>42NX10428</th> </td>	2 1/4 <th></th> <th>42NX10428</th>		42NX10428

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

Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Based on normal operation)	Overall Height (Inches)	Swivel Lead (Inches)	Approx. Wt. (LBS)	Base Caster Number+
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### Moldon Rubber on Cast Iron (07 Roller Bearing)

MR	8	2 1/2	800	11 1/2	2 1/4	22 1/2	42MR08407
	10 <th>2 1/2</th> <th>800</th> <th>13 1/2</th> <th>2 1/4</th> <th>26 1/2</th> <th>42MR10407</th>	2 1/2	800	13 1/2	2 1/4	26 1/2	42MR10407

### Pneumatic (28 Precision Ball Bearing)

SF	8	2.80/4	295	11 1/2	2 1/4	19 3/4	42SF08528
	10 <th>4.10/4</th> <th>350</th> <th>13 1/2</th> <th>2 1/4</th> <th>21</th> <th>42SF10628</th>	4.10/4	350	13 1/2	2 1/4	21	42SF10628

### Polyurethane on Cast Iron (07 Roller Bearing)\*

PY 80A	8	2 1/2	800	11 1/2	2 1/4	23	42PY0840780A
	10 <th>2 1/2</th> <th>800</th> <th>13 1/2</th> <th>2 1/4</th> <th>19 1/2</th> <th>42PY1040780A</th>	2 1/2	800	13 1/2	2 1/4	19 1/2	42PY1040780A

To Specify Rigid or Swivel, insert "R" or "S" before "80A." Ex: 42PY08407R80A.

42 SERIES • CAPACITY TO 800

SPRING LOADED

# 44

## Xtra Heavy Duty Spring-Loaded Kingpin Casters

### CAPACITY TO 1500



Premium Quality

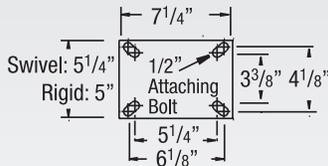


Environmentally Friendly

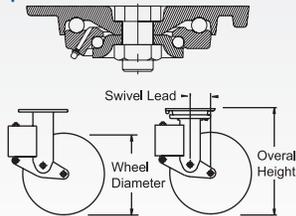


Designed with greater load capacity than our 40, 41, and 42 series, this series protects from damaging shocks or unwanted vibration and movement. Noise levels are reduced through the dampening effect of these casters.

#### MOUNTING OPTION



#### SWIVEL CROSS SECTION



#### TYPICAL APPLICATIONS

- Aircraft tripod jacks
- Portable medical equipment
- Computer equipment
- Shock sensitive loads

#### FEATURES

- **Load Springs:** Maximum rated capacity loads will deflect wheel approximately 3/4". Different load springs permit wide variation in ride "softness." They can be preloaded to obtain various degrees of deflection
- **Swivel Top Plate:** AISI 1045 drop forged steel for strength & reliability
- **Yoke Base:** AISI 1045 drop forged steel with machined raceway affords extreme wear and greater capacity
- **Swivel Section:** Swivel load bearing is 4" diameter deep grooved load raceway with 1/2" steel balls and the thrust race is 2-5/8" diameter using 3/8" diameter steel balls for maximum performance under extreme loads
- **Legs:** 3/8" steel plate, welded inside and out to the yoke base to handle side impacts
- **King Bolt:** 1" diameter bolt and nut heat-treated for maximum performance
- **Axle:** 3/4" diameter solid axle with lock nut

#### RIG OPTIONS

- **Neoprene sealed** swivel section specify **SS07**
- **Lubrication:** Zerk fitting in swivel section and in wheel hub for extended bearing life
- Available with **kingpinless** section, consult factory.
- Alternate or custom caster configurations available

#### BRAKE OPTIONS

**Single Side and Double Sided** Brakes available, consult factory

**Swivel Lock** available (welded), consult factory

#### BEARING OPTIONS



	Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Based on manual operation)	Overall Height (Inches)	Swivel Lead (Inches)	Approx. Wt. (Lbs)	Base Caster Number+
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+ 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	10	3	1000	13 1/2	3	42 1/2	44MR10501
	12	3	1200	15 1/2	3	47 1/2	44MR12501

\*Tapered Roller (09) bearing available.  
To order change "01" to other bearing code. Example: 44MR10509.

#### Pneumatic (01 Roller Bearing)\*

SF	12	4.10/6	445	17 1/2	4 1/2	40	44SF12701
	14	5.30/6 <td>785 <td>18 1/2 <th>4 1/2</th> <th>43</th> <th>44SF14801</th> </td></td>	785 <td>18 1/2 <th>4 1/2</th> <th>43</th> <th>44SF14801</th> </td>	18 1/2 <th>4 1/2</th> <th>43</th> <th>44SF14801</th>	4 1/2	43	44SF14801
	16	4.80/6	1000	19 1/2	4 1/2	45 3/4	44SF16801

\*Tapered Roller (09) bearing available.  
To order change "01" to other bearing code. Example: 44SF10509.

#### Polyurethane on Cast Iron (01 Roller Bearing)\*

PY	10	3	1500	13 1/2	3	48 1/2	44PY10501
	12	3	1500	15 1/2	3	56 1/4	44PY12501

\*Tapered Roller (09) bearing available.  
To order change "01" to other bearing code. Example: 44PY10509.

#### Polyurethane on Cast Iron (01 Roller Bearing)\*

PY 80A	10	3	1500	13 1/2	3	48 1/2	44PY1050180A
	12	3	1500	15 1/2	3	56 1/4	44PY1250180A

To Specify Rigid or Swivel, insert "R" or "S" before "80A".  
Example: 42PY08228R80A.  
\*Tapered Roller (09) bearing available.  
To order change "01" to other bearing code. Example: 44PY1050980A.

#### Vulkollan on Cast Iron (01 Roller Bearing)\*

VY	10	3	1500	13 1/2	3	48 1/2	44VY10501
	12	3	1500	15 1/2	3	56 1/4	44VY12501

\*Tapered Roller (09) bearing available.  
To order change "01" to other bearing code. Example: 44VY10509.

#### X-Treme™ Plus Solid Polyurethane (01 Roller Bearing)\*

XP	10	3	1500	13 1/2	3	35	44XP10501
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\*Tapered Roller (09) and Precision Ball (28) bearings available.  
To order change "01" to other bearing code. Example: 44XP10509.

#### Trionix™ High Impact Polymer (28 Precision Ball Bearing)\*

NX	10	3	1500	13 1/2	3	35	44NX10528
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\*Tapered Roller (09) bearing available.  
To order change "01" to other bearing code. Example: 44NX10509.

#### Polyurethane on Aluminum (Flat Tread) (28 Precision Ball Bearing)\*

PD	10	2 1/2	1500	13 1/2	3	38 1/2	44PD10428
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\*Tapered Roller (09) bearing available.  
To order change "01" to other bearing code. Example: 44PD10509.

# 141

## Kingpinless Contender Poly Spring Casters

CAPACITY TO 1500

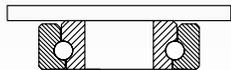


This poly spring caster has been designed with features tailored to meet the varied needs of the aviation ground support equipment and automotive industries. 141 series are equally at home in other extremely abusive and rugged applications.

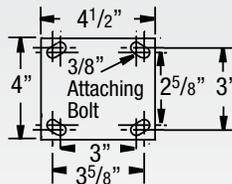
### TYPICAL APPLICATIONS

- Aircraft tripod jacks
- Portable medical equipment, computer equipment
- Any shock sensitive load
- Automotive seat racks
- Tilt carts
- Heavy duty toolboxes

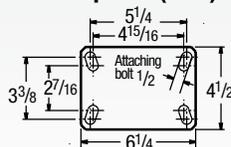
### SWIVEL CROSS SECTION



### MOUNTING OPTION



### Optional (PATK)



Quiet



Premium Quality



Towing<sup>^</sup>

### FEATURES

- Protects cargo from damaging shocks and unwanted vibration
- Unique polyurethane spring design is durable and corrosion resistant
- Solid spring material features no spring coil where debris can jam spring action
- Yellow Dichromate finish is attractive and features better corrosion resistance compared to zinc plating
- Quiet rolling, rugged kingpinless caster rig
- 5", 6" and 8" wheel diameters available to meet overall load height and application requirements
- Longer swivel lead allows the caster to index quicker into in-line position for easier movement

### BRAKE OPTIONS

6" and 8" only. Specify **B**. To order, add brake code below to end of model. Example: 141AX06228SB



### BEARING OPTIONS



### SWIVEL LOCK OPTIONS

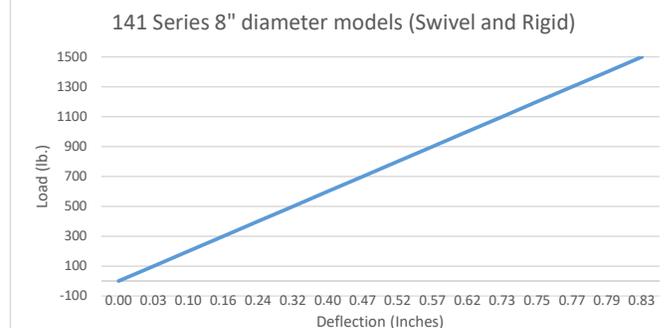
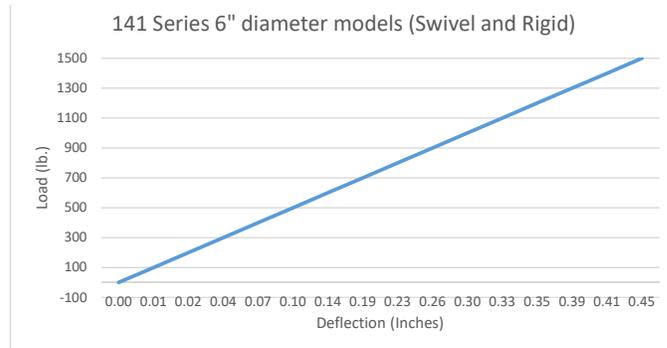
Hand operated field installable swivel lock order **SL160000** separately. For optional PATK plate use model **SL160000K**



The 141's unique polyurethane spring design is quiet, durable and corrosion resistant

### SPRING DEFLECTIONS

Linear deflection curve demonstrates consistent smooth spring action with loads from 0 lbs. to 800 lbs.



Caster was pre-loaded to maximum capacity for 1 minute to seat all component parts before test was initiated. Deflection shown is average among select yoke swivel and rigid sizes.

Drive lasting results with

## CG-MAX EFFICIENCY WHEEL™



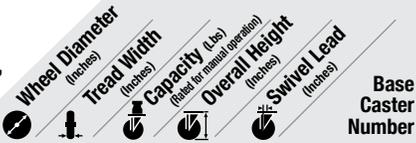
- Our most advanced polyurethane wheel
- ANSI:ICWM tested to outlast and outperform the competition
- Best-in-class ergonomics increase user safety and reduce fatigue
- Patent pending self-retaining top hats reduce environmental and assembly waste
- Debris resistant



Visit [albioncasters.com/CG-MAX](http://albioncasters.com/CG-MAX) for additional information and CAD models.

<sup>^</sup>Towing: Consult factory prior to ordering to ensure selection supports your towing requirement

Base Swivel Caster  
Number In Chart  
For rigid models change "S"  
to "R" at end of base  
caster number.



**POLYURETHANE MODELS**

**CG-MAX EFFICIENCY WHEEL™ Orange Round Polyurethane on Aluminum**

AN	5	2	1000	7 1/2	3	141AN05228S
	6	2	1250	8	3	141AN06228S
	8	2	1500	10 1/8	3	141AN08228S

**85 Shore A**  
Learn more on previous page

Standard Bearing: Precision Ball (28)  
with new patent pending top hats.

**CG-MAX EFFICIENCY WHEEL™ Maroon Round Polyurethane on Aluminum**

AX	5	2	1000	7 1/2	3	141AX05228S
	6	2	1250	8	3	141AX06228S
	8	2	1500	10 1/8	3	141AX08228S

**85 Shore A**  
Learn more on previous page

Standard Bearing: Precision Ball (28)  
with new patent pending top hats.

**Green Polyurethane Round Tread on Aluminum**

PM	5	2	1000	7 1/2	3	141PM05228S
	6	2	1250	8	3	141PM06228S
	8	2	1500	10 1/8	3	141PM08228S

**95 Shore A**

Standard Bearing: Precision Ball (28).

**Butterscotch Polyurethane Round Tread on Aluminum**

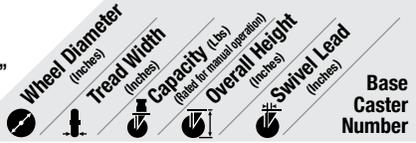
PM 80A	5	2	1000	7 1/2	3	141PM05228S80A
	6	2	1250	8	3	141PM06228S80A
	8	2	1500	10 1/8	3	141PM08228S80A

**80 Shore A**

Standard Bearing: Precision Ball (28).

To Specify Rigid or Swivel, insert "R" or "S" before "80A".

Base Swivel Caster  
Number In Chart  
For rigid models change "S"  
to "R" at end of base  
caster number.



**POLYURETHANE MODELS (CONTINUED)**

**Yellow Polyurethane on Heavy Duty Cast Iron**

PF	6	2	1500	8	3	141PF06228S
	8	2	1500	10 1/8	3	141PF08228S

Standard Bearing: Precision Ball (28).

**RUBBER MODELS**

**X-tra Soft Rubber Flat Tread on Polypropylene**

XS	5	2	500	7 1/2	3	141XS05228S
	6	2	600	8	3	141XS06228S
	8	2	675	10 1/8	3	141XS08228S

Standard Bearing: Precision Ball (28).

**X-tra Soft Rubber Round Tread on Polypropylene**

XR	6	2	450	8	3	141XR06228S
	8	2	600	10 1/8	3	141XR08228S

Standard Bearing: Precision Ball (28).

**Magnum Polyurethane Round Tread on Aluminum**

UA	6	2	750	8	3	141UA06228S
	8	2	900	10 1/8	3	141UA08228S

Standard Bearing: Precision Ball (28).

Optional durometers and colors available; consult factory.

Blue  
Shore 95A Standard



**CG-MAX EFFICIENCY WHEEL™**

New CG-MAX EFFICIENCY wheels feature a unique polyurethane blend that is more debris resistant compared to other polyurethane wheels

**141 Series Wheel Selection Hints**



**CG-MAX PM UA PF**

**Polyurethane**

- Excellent multi-purpose wheels
- Non-marking, floor protective
- Excellent capacity, wear resistance, and strength
- Various durometers, thicknesses



**XS XR**

**Rubber/Pneumatic Style**

- Floor protection
- Quiet mobility
- Cost effective
- Shock absorption
- Debris rejection

# S310 Contender Spring Loaded Kingpinless Casters

CAPACITY TO 3000

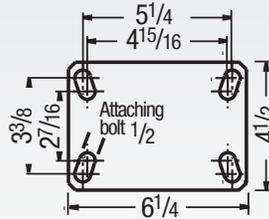


Designed from high quality, heat treated AISI 1045 stamped steel. Zinc plating delivers greater corrosion resistance than paint. Inside and outside welds deliver superior strength.

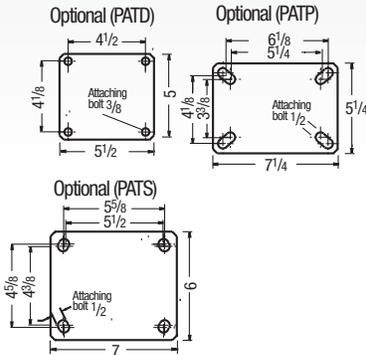
Great capacity and shock protection. Noise levels are reduced through the dampening effect of these casters.

Capacities listed at 50% of wheel deflection (21/32"). Total wheel deflection is 1-5/16".

## MOUNTING OPTIONS Standard Plate



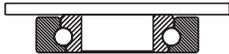
## Special Order Plates



## TYPICAL APPLICATIONS

- Conveyor-drawn tow-trucks
- Heavy duty bakery racks
- Production dollies
- Heavy duty dough troughs
- Aviation Ground Support
- Aircraft Tripod Jacks
- Shock Sensitive Loads

## SWIVEL CROSS SECTION



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

## Molded Rubber on Cast Iron (09 Tapered Roller Bearing)\*

MR/MH	Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Roller for manual operation)	Overall Height (Inches)	Swivel Lead (Inches)	Base Caster Number+
	6	2 1/2	700	10 7/8	4 7/8	S310MR06409
	6	3	750	10 7/8	4 7/8	S310MR06509
	8	2 1/2	850	11 7/8	4 7/8	S310MR08409
	8	3	900	11 7/8	4 7/8	S310MR08509
	10	2 1/2	950	14	4 7/8	S310MR10409
	10	2 1/2**	1500	14	4 7/8	S310MH10409
	10	3	1000	14	4 7/8	S310MR10509
	10	3**	1800	14	4 7/8	S310MH10509
	12	2 1/2	950	16	5 11/16	S310MR12409
	12	2 1/2**	1700	16	5 11/16	S310MH12409
	12	3	1200	16	5 11/16	S310MR12509

\*Roller (01) bearings available. To order change "09" to "01". Example: S310MR10401.

\*\*Heavy-duty MH version of wheel.



Premium Quality



Environmentally Friendly



Towing^

## FEATURES

- **Load Springs:** Protect from damaging shocks and reduce noise levels through the dampening effect of the springs
- **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 heat treated steel
- **Legs:** welded inside and out
- **Axle:** 3/4" diameter
- **Finish:** Zinc plating
- Alternate or custom caster configurations available

## RIG OPTIONS

- For non-spring loaded versions, see 310 Series on pages 48-49
- 310 Optional Plates also available, consult factory

## BRAKE OPTIONS

Consult factory

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

## Mold-on Polyurethane on Aluminum (01 Roller Bearing)\*

PD	Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Roller for manual operation)	Overall Height (Inches)	Swivel Lead (Inches)	Base Caster Number+
	8	2 1/2	2010	11 7/8	4 7/8	S310PD08401
	8	3	2520	11 7/8	4 7/8	S310PD08501
	10	2 1/2	2370	14	4 7/8	S310PD10401
	10	3	3000	14	4 7/8	S310PD10501

Standard durometer 60 Shore D. Other durometers available.  
\*Tapered Roller (09) bearings available. To order change "01" to "09".  
Example: S310PD10409.

## Polyurethane on Cast Iron (09 Tapered Roller Bearing)\*

PY	Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Roller for manual operation)	Overall Height (Inches)	Swivel Lead (Inches)	Base Caster Number+
	6	2 1/2	1600	10 7/8	4 7/8	S310PY06409
	6	3	2000	10 7/8	4 7/8	S310PY06509
	8	2 1/2	2000	11 7/8	4 7/8	S310PY08409
	8	3	2500	11 7/8	4 7/8	S310PY08509
	10	2 1/2	2300	14	4 7/8	S310PY10409
	10	3	3000	14	4 7/8	S310PY10509
	12	2 1/2	2700	16	5 11/16	S310PY12409
	12	3	3000	16	5 11/16	S310PY12509

95 Shore A  
80 Shore A

\*Roller (01) bearings available. To order change "09" to "01".  
Example: S310PY10401.  
80A Durometer available, add "80A" to end of caster number.  
80A capacity reduced by approximately 20%.  
Swivel example: S310PY06409S80A.  
For 70D consult factory.

## Thick Tread Polyurethane (09 Tapered Roller Bearing)\*

PX	Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Roller for manual operation)	Overall Height (Inches)	Swivel Lead (Inches)	Base Caster Number+
	6	3	2250	10 7/8	4 7/8	S310PX06509
	8	3	2780	11 7/8	4 7/8	S310PX08509
	10	2 1/2	2600	14	4 7/8	S310PX10409
	10	3	3000	14	4 7/8	S310PX10509
	12	3	3000	16	5 11/16	S310PX12509

Standard durometer 95 Shore A. Other durometers available.  
\*Roller (01) bearings available. To order change "09" to "01".  
Example: S310PX10401.



# S410

## Contender Spring Loaded Kingpinless Casters

CAPACITY TO 3000



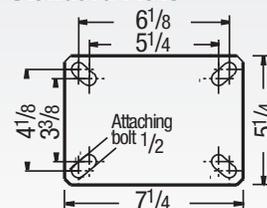
Designed from high quality, heat treated AISI 1045 stamped steel. Zinc plating delivers greater corrosion resistance than paint. Inside and outside welds deliver superior strength.

Greater capacity and better shock protection. Noise levels are reduced through the dampening effect of these casters.

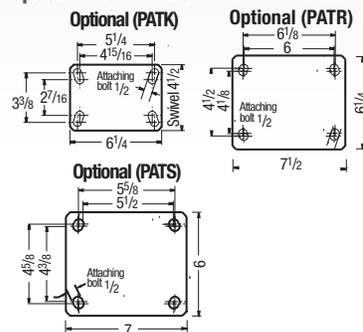
Capacities listed at 50% of wheel deflection (21/32"). Total wheel deflection is 1-5/16".

### MOUNTING OPTIONS

#### Standard Plate



#### Special Order Plates



Premium Quality



Environmentally Friendly



Towing^

### FEATURES

- **Load Springs:** Protect from damaging shocks and reduce noise levels through the dampening effect of the springs
- **Top Plate:** 3/8" 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 heat treated steel
- **Legs:** welded inside and out
- **Axle:** 3/4" diameter
- **Finish:** Zinc plating
- Alternate or custom caster configurations available

### RIG OPTIONS

- For non-spring loaded versions, see 410 Series on pages 50-51
- S410 optional plates also available; consult factory

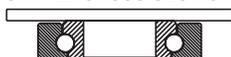
### BRAKE OPTIONS

Consult factory

### TYPICAL APPLICATIONS

- Conveyor-drawn tow-trucks
- Heavy duty bakery racks
- Production dollies
- Heavy duty dough troughs
- Aviation Ground Support
- Aircraft Tripod Jacks
- Shock Sensitive Loads

### SWIVEL CROSS SECTION



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



### Moldon Rubber on Cast Iron (09 Tapered Roller Bearing)\*

MR/MH	6	2 1/2	700	10 7/8	4 7/8	S410MR06409
	6	3	750	10 7/8	4 7/8	S410MR06509
	8	2 1/2	850	11 7/8	4 7/8	S410MR08409
	8	3	900	11 7/8	4 7/8	S410MR08509
	10	2 1/2	950	14	4 7/8	S410MR10409
	10	2 1/2**	1500	14	4 7/8	S410MH10409
	10	3	1000	14	4 7/8	S410MR10509
	10	3**	1800	14	4 7/8	S410MH10509
	12	2 1/2	950	16	5 11/16	S410MR12409
	12	2 1/2**	1700	16	5 11/16	S410MH12409
	12	3	1200	16	5 11/16	S410MR12509

\*Roller (01) bearings available. To order change "09" to "01". Example: S410MR10401.

\*\*Heavy-duty MH version of wheel.

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

### Mold-on Polyurethane on Aluminum (01 Roller Bearing)\*

PD	8	2 1/2	2010	11 7/8	4 7/8	S410PD08401
	8	3	2520 <td>11 7/8</td> <td>4 7/8</td> <td>S410PD08501</td>	11 7/8	4 7/8	S410PD08501
	10	2 1/2	2370	14	4 7/8	S410PD10401
	10	3	3000	14	4 7/8	S410PD10501

Standard durometer 60 Shore D. Other durometers available.  
\*Tapered Roller (09) bearings available. To order change "01" to "09". Example: S410PD10409.

### Polyurethane on Cast Iron (09 Tapered Roller Bearing)\*

PY	6	2 1/2	1600	10 7/8	4 7/8	S410PY06409
	6 <td>3 <td>2000 <td>10 7/8</td> <td>4 7/8</td> <th>S410PY06509</th> </td></td>	3 <td>2000 <td>10 7/8</td> <td>4 7/8</td> <th>S410PY06509</th> </td>	2000 <td>10 7/8</td> <td>4 7/8</td> <th>S410PY06509</th>	10 7/8	4 7/8	S410PY06509
	8 <td>2 1/2 <td>2000 <td>11 7/8</td> <td>4 7/8 <th>S410PY08409</th> </td></td></td>	2 1/2 <td>2000 <td>11 7/8</td> <td>4 7/8 <th>S410PY08409</th> </td></td>	2000 <td>11 7/8</td> <td>4 7/8 <th>S410PY08409</th> </td>	11 7/8	4 7/8 <th>S410PY08409</th>	S410PY08409
	8 <td>3 <td>2500 <td>11 7/8</td> <td>4 7/8 <th>S410PY08509</th> </td></td></td>	3 <td>2500 <td>11 7/8</td> <td>4 7/8 <th>S410PY08509</th> </td></td>	2500 <td>11 7/8</td> <td>4 7/8 <th>S410PY08509</th> </td>	11 7/8	4 7/8 <th>S410PY08509</th>	S410PY08509
	10 <td>2 1/2 <td>2300</td> <td>14</td> <td>4 7/8 <th>S410PY10409</th> </td></td>	2 1/2 <td>2300</td> <td>14</td> <td>4 7/8 <th>S410PY10409</th> </td>	2300	14	4 7/8 <th>S410PY10409</th>	S410PY10409
	10 <td>3 <td>3000</td> <td>14</td> <td>4 7/8 <th>S410PY10509</th> </td></td>	3 <td>3000</td> <td>14</td> <td>4 7/8 <th>S410PY10509</th> </td>	3000	14	4 7/8 <th>S410PY10509</th>	S410PY10509
95 Shore A	12	2 1/2	2700	16	5 11/16	S410PY12409
	12	3	3000	16	5 11/16	S410PY12509

\*Roller (01) bearings available. To order change "09" to "01". Example: S410PY10401.  
80A Durometer available, add "80A" to end of caster number. 80A capacity reduced by approximately 20%. Swivel example: S410PY06409S80A. For 70D consult factory.

### Thick Tread Polyurethane (09 Tapered Roller Bearing)\*

PX	6	3	2250	10 7/8	4 7/8	S410PX06509
	8 <td>3 <td>2780 <td>11 7/8</td> <td>4 7/8 <th>S410PX08509</th> </td></td></td>	3 <td>2780 <td>11 7/8</td> <td>4 7/8 <th>S410PX08509</th> </td></td>	2780 <td>11 7/8</td> <td>4 7/8 <th>S410PX08509</th> </td>	11 7/8	4 7/8 <th>S410PX08509</th>	S410PX08509
	10 <td>2 1/2</td> <td>2600</td> <td>14</td> <td>4 7/8 <th>S410PX10409</th> </td>	2 1/2	2600	14	4 7/8 <th>S410PX10409</th>	S410PX10409
	10 <td>3</td> <td>3000</td> <td>14</td> <td>4 7/8 <th>S410PX10509</th> </td>	3	3000	14	4 7/8 <th>S410PX10509</th>	S410PX10509
	12	3	3000	16	5 11/16	S410PX12509

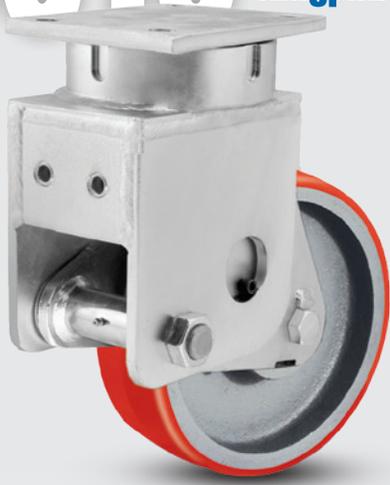
Standard durometer 95 Shore A. Other durometers available.  
\*Roller (01) bearings available. To order change "09" to "01". Example: S410PX10401.

Continue on next page >>



# S610 Contender Spring Loaded Kingpinless Casters

CAPACITY TO 3000

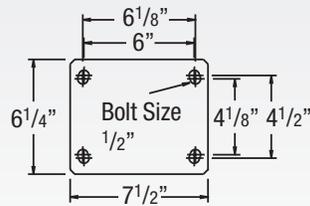


Highly recommended for automotive and aerospace applications. This caster is built to take the punishment of constant swiveling or for service where shock or impact loads might damage less rugged casters.

Greater capacity and better shock protection. Noise levels are reduced through the dampening effect of these casters.

Capacities listed at 50% of wheel deflection (21/32"). Total wheel deflection is 1-5/16".

## MOUNTING OPTION



## SWIVEL CROSS SECTION



## TYPICAL APPLICATIONS

- Body dolly carts
- Engine dollies
- Material carts
- Chassis rack carts
- Paint line dollies
- Towed trash gondolas
- Aviation Ground Support
- Aircraft Tripod Jacks
- Shock Sensitive Loads

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

Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Based on manual operation)	Overall Height (Inches)	Swivel Lead (Inches)	Base Caster Number+
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## Moldon Rubber on Cast Iron (09 Tapered Roller Bearing)\*

MR/MH	6	2 1/2	700	1 13/4	4 1/2	S610MR06409
	6	3	750	1 13/4	4 1/2	S610MR06509
	8	2 1/2	850	1 23/4	4 1/2	S610MR08409
	8	3	900	1 23/4	4 1/2	S610MR08509
	10	2 1/2	950	1 47/8	4 1/2	S610MR10409
	10	2 1/2**	1500	1 47/8	4 1/2	S610MH10409
	10	3	1000	1 47/8	4 1/2	S610MR10509
	10	3**	1800	1 47/8	4 1/2	S610MH10509
	12	2 1/2	950	1 67/8	5 5/16	S610MR12409
	12	2 1/2**	1700	1 67/8	5 5/16	S610MH12409
	12	3	1200	1 67/8	5 5/16	S610MR12509

\*Roller (01) bearings available. To order change "09" to "01".  
Example: S610MR10401.

\*\*Heavy-duty MH version of wheel.



Premium Quality



Environmentally Friendly



Towing^

## FEATURES

- **Load Springs:** Protect from damaging shocks and reduce noise levels through the dampening effect of the springs
- **Top Plate:** 1/2" AISI 1045 heat treated steel welded inside and out for longer life
- **Swivel Section:** 3/4" ball bearings mounted in a 4-3/8" precision machined raceway. Zerk in swivel section
- **Yoke Base:** Notched AISI 1045 heat treated steel
- **Legs:** 3/8" thick steel welded to yoke base using 100,000 psi weld filler
- **Axle:** 2-1/2" and 3" tread width wheels feature a 3/4" axle, 3-1/2" and 4" tread width wheels feature a 1" axle
- Alternate or custom caster configurations available

## RIG OPTIONS

- For non-spring loaded versions, see 610 Series on pages 52-53
- S410 optional plates also available; consult factory

## BRAKE OPTIONS

Consult factory

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

## Mold-on Polyurethane on Aluminum (01 Roller Bearing)\*

PD	8	2 1/2	2010	1 23/4	4 1/2	S610PD08401
	8	3	2520	1 23/4	4 1/2	S610PD08501
	10	2 1/2	2370	1 47/8	4 1/2	S610PD10401
	10	3	2000	1 47/8	4 1/2	S610PD10501

Standard durometer 60 Shore D. Other durometers available.  
\*Tapered Roller (09) bearings available.  
To order change "01" to "09". Example: S610PD10409.

## Polyurethane on Cast Iron (09 Tapered Roller Bearing)\*

PY	6	2 1/2	1600	1 13/4	4 1/2	S610PY06409
	6	3	2000	1 13/4	4 1/2	S610PY06509
	8	2 1/2	2000	1 23/4	4 1/2	S610PY08409
	8	3	2500	1 23/4	4 1/2	S610PY08509
	10	2 1/2	2300	1 47/8	4 1/2	S610PY10409
	10	3	3000	1 47/8	4 1/2	S610PY10509
95 Shore A	12	2 1/2	2700	1 67/8	5 5/16	S610PY12409
	12	3	3000	1 67/8	5 5/16	S610PY12509

\*Roller (01) bearings available.  
To order change "09" to "01". Example: S610PY10401.  
80A Durometer available, add "80A" to end of caster number.  
80A capacity reduced by approximately 20%.  
Swivel example: S610PY06409S80A.  
For 70D consult factory.

## Thick Tread Polyurethane (09 Tapered Roller Bearing)\*

PX	6	3	2250	1 13/4	4 1/2	S610PX06509
	8	3	2780	1 23/4	4 1/2	S610PX08509
	10	2 1/2	2600	1 47/8	4 1/2	S610PX10409
	10	3	3000	1 47/8	4 1/2	S610PX10509
	12	3	3000	1 67/8	5 5/16	S610PX12509

Standard durometer 95 Shore A. Other durometers available.  
\*Roller (01) bearings available. To order change "09" to "01".  
Example: S610PX10401.

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