

# EMPIRE™

## Casters & Wheels

- Economical
- Ready to Ship



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**General  
Duty**

**15 Series  
Medium Heavy  
Duty**

**60 Series  
Heavy Duty**

**Wheels**

**Component  
Parts**

# F2

## General Duty Casters



### BEARING OPTIONS

Plain Bore  
Bearing (41)



Roller (01)

### FEATURES

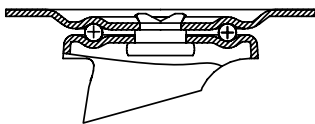
- **Top Plate & Yoke:** Heavily embossed, formed steel to extend caster life under rugged conditions
- **Swivel Section:** Fully hardened single ball bearing raceways
- **Kingpin:** 1/2" hydraulically formed steel rivet
- **Axle:** 3/8" diameter hollow axle with lock nut
- **Finish:** All rigs are zinc plated to resist rust and corrosion.
- Alternate or custom caster configurations available

An excellent general purpose economical caster. F2 models feature single ball raceways.

### TYPICAL APPLICATIONS

- Dolly carts
- Display carts
- Hotel equipment
- Institutional equipment
- Food service racks and cases
- Stock carts
- Laundry trucks

Swivel Cross Section



### MOUNTING

- Varies based on wheel diameter and wheel type.

Wheel Diameter	Swivel Plate Dimensions	Rigid Plate Dimensions
2" (51mm)		
2-1/2" (63mm)		
3" (76mm)		
4" (100mm)		

# F2

## General Duty Top Plate Casters



For swivel models add "S" to end of caster number.  
For rigid models add "R" to end of caster number.

Wheel Diameter (Inches)  
 Tread Width (Inches)  
 Capacity (Lbs)  
(Based on normal operation)  
 Overall Height (Inches)  
 Swivel Offset (Inches)

Caster Number

For swivel models add "S" to end of caster number.  
For rigid models add "R" to end of caster number.

Wheel Diameter (Inches)  
 Tread Width (Inches)  
 Capacity (Lbs)  
(Based on normal operation)  
 Overall Height (Inches)  
 Swivel Offset (Inches)

Caster Number

**Polypropylene (41 Plain Bore Bearing)**

IB

	2	7/8	125	2 1/2	3/4	<b>F2IB02041</b>
	2 1/2	1 1/8	175	3 1/4	1	<b>F2IB02X41</b>
	3	1 1/4	210	3 3/4	1 1/4	<b>F2IB03041</b>
	4	1 1/4	255	4 3/4	1	<b>F2IB04041</b>

**Soft Rubber (41 Plain Bore Bearing)**

RR

	2	7/8	125	2 1/2	3/4	<b>F2RR02041</b>
	2 1/2	1 1/8	175	3 1/4	1	<b>F2RR02X41</b>
	3	1 1/4	210	3 3/4	1 1/4	<b>F2RR03041</b>
	4	1 1/4	255	5	1 1/2	<b>F2RR04041</b>

# F2

## General Duty Top Plate Brake Casters



For swivel models add "S" to end of caster number.  
For rigid models add "R" to end of caster number.

Wheel Diameter (Inches)  
 Tread Width (Inches)  
 Capacity (Lbs)  
(Based on normal operation)  
 Overall Height (Inches)  
 Swivel Offset (Inches)

Caster Number

For swivel models add "S" to end of caster number.  
For rigid models add "R" to end of caster number.

Wheel Diameter (Inches)  
 Tread Width (Inches)  
 Capacity (Lbs)  
(Based on normal operation)  
 Overall Height (Inches)  
 Swivel Offset (Inches)

Caster Number

**Brake Models**

**Polypropylene with Brake (41 Plain Bore Bearing)**

IB

	2	7/8	125	2 1/2	3/4	<b>F2IB02041SB</b>
	2 1/2	1 1/8	175	3 1/4	1	<b>F2IB02X41SB</b>
	3	1 1/4	210	3 3/4	1 1/4	<b>F2IB03041SB</b>
	4	1 1/4	255	5	1 1/2	<b>F2IB04041SB</b>

**Soft Rubber with Brake (41 Plain Bore Bearing)**

RR

	2	7/8	125	2 1/2	3/4	<b>F2RR02041SB</b>
	2 1/2	1 1/8	175	3 1/4	1	<b>F2RR02X41SB</b>
	3	1 1/4	210	3 3/4	1 1/4	<b>F2RR03041SB</b>
	4	1 1/4	255	5	1 1/2	<b>F2RR04041SB</b>

# F4

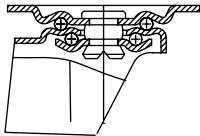
## General Duty Casters



An excellent general purpose economical caster. F4 models feature double ball raceways.

### TYPICAL APPLICATIONS

- Dolly carts
- Display carts
- Hotel equipment
- Institutional equipment
- Food service racks and cases
- Stock carts
- Laundry trucks



### BEARING OPTIONS

Plain Bore Bearing (41)



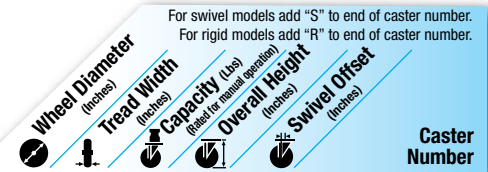
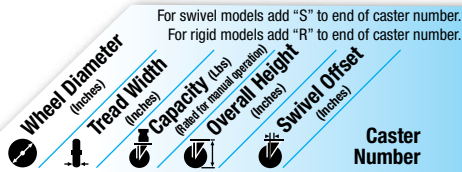
Roller (01)

### FEATURES

- **Top Plate & Yoke:** Heavily embossed, formed steel to extend caster life under rugged conditions
- **Swivel Section:** Fully hardened double ball bearing raceways
- **Kingpin:** 1/2" hydraulically formed steel rivet
- **Axle:** 3/8" diameter hollow axle with lock nut
- **Finish:** All rigs are zinc plated to resist rust and corrosion.
- Alternate or custom caster configurations available

### TOP PLATE MOUNTING OPTIONS

Wheel Diameter	Swivel Plate Dimensions	Rigid Plate Dimensions
3" (72.2mm)		
4" (100mm) & 5" (125mm)		
4" (100mm) & 5" (125mm) ER Wheel Models Only		



### Thermoplastic Rubber (41 Plain Bore Bearing)

	3	1 1/4	180	3-7/8	1	F4IS03041
	4	1 1/4	250	5	1 1/8	F4IS04041
	5	1 1/4	300	6 1/8	1 1/4	F4IS05041

### Polypropylene (41 Plain Bore Bearing)

	3	1 1/4	275	3-7/8	1	F4IB03041
	4	1 1/4	275	5	1 1/8	F4IB04041
	5	1 1/4	290	6 1/8	1 1/4	F4IB05041

### Polyurethane (41 Plain Bore Bearing)

	3	1 1/4	225	3-7/8	1	F4IX03041
	4	1 1/4	300	5	1 1/8	F4IX04041
	5	1 1/4	325	6 1/8	1 1/4	F4IX05041

### Soft Rubber (41 Plain Bore Bearing)

	3	1 1/4	175	3-7/8	1	F4RR03041
	4	1 1/4	200	5	1 1/8	F4RR04041
	5	1 1/4	200	6 1/8	1 1/4	F4RR05041

### Elastic Rubber (01 Roller Bearing)






Sealed Swivel and thread guards for added protection.






	4	1	300	5 1/4	1 3/8	F4ER04001
	5	1	300	6 1/4	1 3/8	F4ER05001

# F4

## General Duty Top Plate Brake Casters



 Wheel Diameter (Inches)  
 Tread Width (Inches)  
 Capacity (Lbs)  
(Based on normal operation)  
 Overall Height (Inches)  
 Swivel Offset (Inches)  
**Caster Number**

 Wheel Diameter (Inches)  
 Tread Width (Inches)  
 Capacity (Lbs)  
(Based on normal operation)  
 Overall Height (Inches)  
 Swivel Offset (Inches)  
**Caster Number**

### Thermoplastic Rubber with Brake (41 Plain Bore Bearing)



IS

3	1 1/4	180	3-7/8	1	<b>F4IS03041SB</b>
4	1 1/4	250	5	1 1/8	<b>F4IS04041SB</b>
5	1 1/4	300	6 1/8	1 1/4	<b>F4IS05041SB</b>

### Polypropylene with Brake (41 Plain Bore Bearing)



IB

3	1 1/4	275	3-7/8	1	<b>F4IB03041SB</b>
4	1 1/4	275	5	1 1/8	<b>F4IB04041SB</b>
5	1 1/4	290	6 1/8	1 1/4	<b>F4IB05041SB</b>

### Polyurethane with Brake (41 Plain Bore Bearing)



IX

3	1 1/4	225	3-7/8	1	<b>F4IX03041SB</b>
4	1 1/4	300	5	1 1/8	<b>F4IX04041SB</b>
5	1 1/4	325	6 1/8	1 1/4	<b>F4IX05041SB</b>

### Soft Rubber with Brake (41 Plain Bore Bearing)



RR

3	1 1/4	175	3-7/8	1	<b>F4RR03041SB</b>
4	1 1/4	200	5	1 1/8	<b>F4RR04041SB</b>
5	1 1/4	200	6 1/8	1 1/4	<b>F4RR05041SB</b>

### Elastic Rubber with Total Lock Brake (01 Roller Bearing)



ER

Sealed Swivel and thread guards for added protection.

4	1	300	5 1/4	1 3/8	<b>F4ER04001ST</b>
5	1	300	6 1/4	1 3/8	<b>F4ER05001ST</b>

# F4

## General Duty Threaded Stem Casters

Threaded Stem Models (1/2" x 13 x 1-1/2")



### Thermoplastic Rubber (41 Plain Bore Bearing)

3	1 1/4	180	3 13/16	1	F4IS03041S-S31
4	1 1/4	250	4 7/8	1 1/8	F4IS04041S-S41
5	1 1/4	300	6	1 1/4	F4IS05041S-S51

IS

### Polyurethane (41 Plain Bore Bearing)

3	1 1/4	225	3 13/16	1	F4IX03041S-S31
4	1 1/4	300	4 7/8	1 1/8	F4IX04041S-S41
5	1 1/4	325	6	1 1/4	F4IX05041S-S51

IX

### Brake Models

#### Thermoplastic Rubber with Brake (41 Plain Bore Bearing)

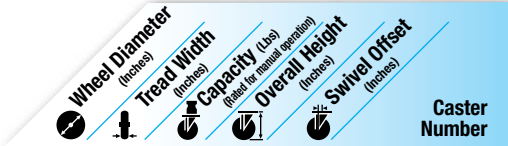
3	1 1/4	180	3 13/16	1	F4IS03041SB-S31
4	1 1/4	250	4 7/8	1 1/8	F4IS04041SB-S41
5	1 1/4	300	6	1 1/4	F4IS05041SB-S51

IS

#### Polyurethane with Brake (41 Plain Bore Bearing)

3	1 1/4	225	3 13/16	1	F4IX03041SB-S31
4	1 1/4	300	4 7/8	1 1/8	F4IX04041SB-S41
5	1 1/4	325	6	1 1/4	F4IX05041SB-S51

IX



### Polypropylene (41 Plain Bore Bearing)

3	1 1/4	275	3 13/16	1	F4IB03041S-S31
4	1 1/4	275	4 7/8	1 1/8	F4IB04041S-S41
5	1 1/4	290	6	1 1/4	F4IB05041S-S51

IB

### Soft Rubber (41 Plain Bore Bearing)

3	1 1/4	175	3 13/16	1	F4RR03041S-S31
4	1 1/4	200	4 7/8	1 1/8	F4RR04041S-S41
5	1 1/4	200	6	1 1/4	F4RR05041S-S51

RR

#### Polypropylene with Brake (41 Plain Bore Bearing)

3	1 1/4	275	3 13/16	1	F4IB03041SB-S31
4	1 1/4	275	4 7/8	1 1/8	F4IB04041SB-S41
5	1 1/4	290	6	1 1/4	F4IB05041SB-S51

IB

#### Soft Rubber with Brake (41 Plain Bore Bearing)

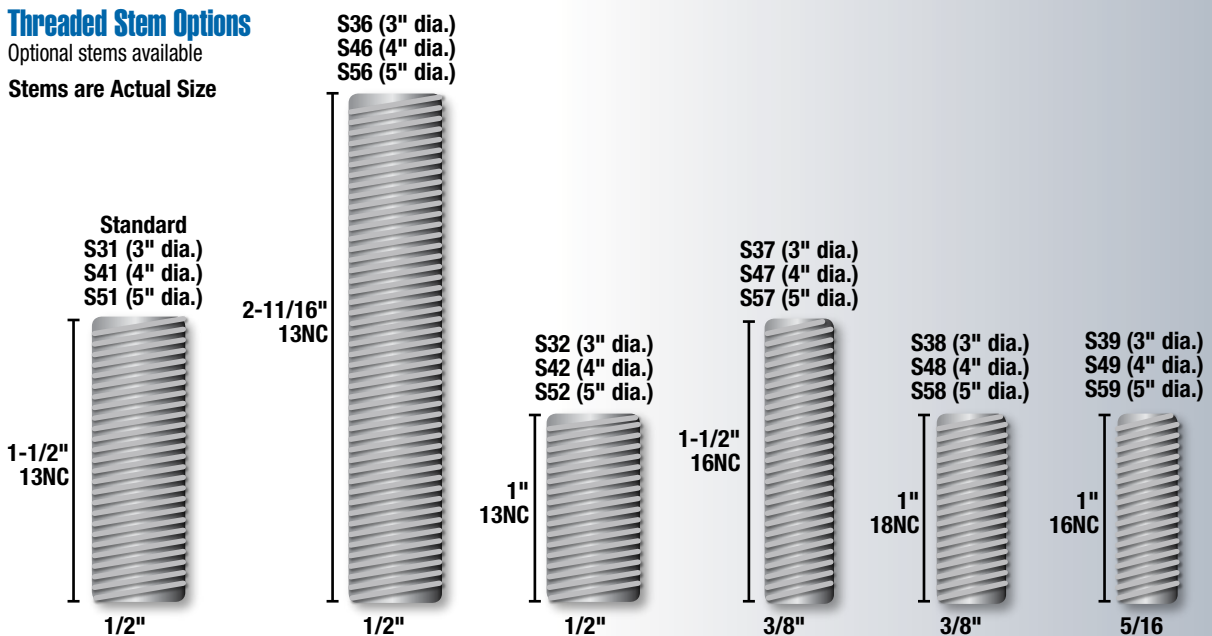
3	1 1/4	175	3 13/16	1	F4RR03041SB-S31
4	1 1/4	200	4 7/8	1 1/8	F4RR04041SB-S41
5	1 1/4	200	6	1 1/4	F4RR05041SB-S51

RR

### Threaded Stem Options

Optional stems available

Stems are Actual Size



# EMPIRE™

## Casters & Wheels

### General Duty Caster

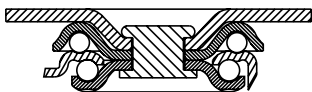


Empire General Duty casters are ideal for the institutional markets. These models include custom interlocking thread guards and non-marking wheels.

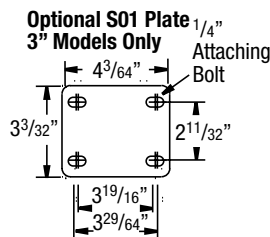
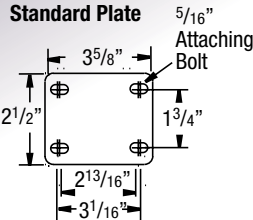
#### TYPICAL APPLICATIONS

- Dolly carts
- Display carts

#### Swivel Cross Section



#### MOUNTING OPTIONS



#### FEATURES

- **Swivel Section:** Double ball raceway for standard top plate (Single ball raceway for optional S01 top plate)
- **Finish:** Zinc plated finish
- **Thread Guards:** Custom interlocking thread guards
- **Caster Wheel:** Non-marking TPR wheel (75 Shore A)
- **Construction:** Riveted construction
- Alternate or custom caster configurations available

#### RIG OPTIONS

NSF listed for food service industry (Consult Factory)

#### BRAKE OPTIONS

**Face Contact**  
specify **F**



#### BEARING

Annular Ball (31)

- Economical
- Non Marking
- Custom Thread Guards

For swivel models add "S" to end of caster number.  
For rigid models add "R" to end of caster number.

Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Based on manual operation)	Overall Height (Inches)	Swivel Lead (Inches)	Approx. Wt. (Lbs)	Caster Number
3	1 1/4	275	3 11/16	1 11/16	.5	DCXS03031S01
3	1 1/4	275	4 1/4	1 11/16	.5	DCXS03031
3 1/2	1 1/4	300	4 3/16	1 11/16	.5	DCXS03X31
4	1 1/4	325	5 1/16	1 11/16	.5	DCXS04031
5	1 1/4	350	6 3/16	1 11/16	.5	DCXS05031

#### TPR Rubber (31 Annular Ball Bearing)



XS

General Duty caster is offered with the XS wheel only.

# EMPIRE™

## Casters & Wheels

# Caster Components

### 15 SERIES RIGS

For swivel models add "S" to end of caster number.  
For rigid models add "R" to end of caster number.

Wheel Diameter (inches)

Tread Width (inches)

Capacity (Lbs) (based for normal operation)

Overall Height (inches)

Swivel Lead (inches)

Approx. Wt. (Lbs)

Caster Number

Rig Only: Made to Albion Specifications

	4	2	700	55/8	111/16	-	<b>15YA04201</b>
	5	2	1000	61/2	15/8	-	<b>15YA05201</b>
	6	2	1200	71/2	13/4	-	<b>15YA06201</b>
	8	2	1200	91/2	13/4	-	<b>15YA08201</b>

### 60 SERIES RIGS

For swivel models add "S" to end of caster number.  
For rigid models add "R" to end of caster number.

Wheel Diameter (inches)

Tread Width (inches)

Capacity (Lbs) (based for normal operation)

Overall Height (inches)

Swivel Lead (inches)

Approx. Wt. (Lbs)

Caster Number

Rig Only: Made to Albion Specifications

	4	2	700	55/8	15/16	-	<b>60YA04201</b>
	5	2	1000	61/2	11/2	-	<b>60YA05201</b>
	6	2	1200	71/2	13/4	-	<b>60YA06201</b>
	8	2	1500	101/8	13/4	-	<b>60YA08201</b>

### PARTS FOR 15 AND 60 SERIES RIGS

#### AXLES AND NUTS



Axle Number	Type	Matching Nut	Diameter (inches)	Length (inches)	Threads (per inch)
ZJ085400	Hollow	NL082000	0.500	3.375	20
ZJ085403	Solid	NL082000	0.500	3.375	20

#### SPANNERS AND THRUST WASHERS



Spanner Number	Spanner ID (inches)	Spanner OD (inches)	Spanner Length (inches)	Lubrication Holes	Matching Thrust Washers	Washer ID (inches)	Washer OD (inches)
ZF081239	0.500	0.750	2.438	2	WA122600	0.750	1.625

#### ROLLER BEARINGS & RETAINER WASHERS



Bearing Number	Bearing ID (inches)	Bearing OD (inches)	Bearing Length (inches)	Plain Retaining Washer	Rubber Sealed Retaining Washer	Nylon Combo Washer	Sintered Iron Combo Washer	Washer ID (inches)	Washer OD (inches)
ZB121930	0.750	1.188	1.875	WA121900	WA121990	WA121905	WA121999	0.750	1.188

#### DELTRIN BEARINGS (IB POLYPROBYLENE WHEELS ONLY)



Bearing Number	Bearing ID (inches)	Bearing OD (inches)	Bearing Length (inches)
TF121912	0.750	1.188	.75

# EMPIRE™

## Casters & Wheels

### 15 Series Medium Heavy Duty Casters

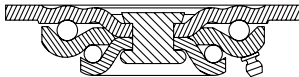


Empire medium heavy duty casters are cold formed steel and recommended for medium to medium heavy duty applications.

#### TYPICAL APPLICATIONS

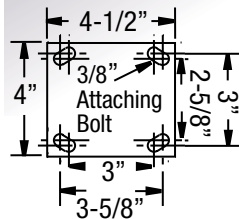
- Dollies
- Waste disposal trucks
- Warehouse trucks
- Floor Trucks
- Shop carts

#### Swivel Cross Section



#### MOUNTING OPTIONS

##### Standard Plate



#### FEATURES

- **Top Plate & Yoke Base:** Cold formed from 1/4" steel plate. Yoke base is notched for factory or field-installable 4-position swivel lock
- **Swivel Section:** Smooth formed, double ball bearing raceways
- **Fork Legs:** 1/4" steel, formed to increase strength and welded to yoke base
- **King Pin:** 5/8" diameter orbitally spun steel rivet
- **Axle:** 1/2" diameter hollow axle complete with lock nut with straight roller and ball bearings. Axle is solid with Plain Bore, Delrin and Oilex bearings
- **Wheel seals:** Nylon seal retaining/thrust washers
- **Lubrication:** Zerk fitting in swivel section and in recessed head of hollow axle on straight roller and ball bearing wheels
- **Finish:** Rigs zinc plated to resist corrosion.

#### BRAKE OPTIONS



**Cam Brake**  
Specify **CB**



**Face Brake**  
Specify **B**



**Grip Lock**  
Specify **GL16**



**Side Brake**  
SSB single  
DSB Double



**Face Brake**  
Specify **FBB**



**Foot Operated Swivel Lock**  
Specify **SL150000**



**Swivel Lock**  
hand operated  
field installable  
Specify **L**

#### BEARING



Straight Roller (01)

Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) <small>(Rated for manual operation)</small>	Overall Height (Inches)	Swivel Lead (Inches)	Approx. Wt. (Lbs)	Caster Number
4	2	350	5 <sup>5</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>4</sub>	15IM04201
5	2	400	6 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>2</sub>	15IM05201
6	2	410	7 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	8	15IM06201
8	2	500	9 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>4</sub>	15IM08201

For swivel models add "S" to end of caster number.  
For rigid models add "R" to end of caster number.

Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) <small>(Rated for manual operation)</small>	Overall Height (Inches)	Swivel Lead (Inches)	Approx. Wt. (Lbs)	Caster Number
4	2	350	5 <sup>5</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>4</sub>	15IR04201
5	2	375	6 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>2</sub>	15IR05201
6	2	600	7 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	15IR06201
8	2	675	9 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>2</sub>	15IR08201

For swivel models add "S" to end of caster number.  
For rigid models add "R" to end of caster number.

#### Rubber on Iron (01 Roller Bearing)

IM		4	2	350	5 <sup>5</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>4</sub>	15IM04201
		5	2	400	6 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>2</sub>	15IM05201
		6	2	410	7 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	8	15IM06201
		8	2	500	9 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>4</sub>	15IM08201

#### TPR on Polypropylene (Round Tread) (01 Roller Bearing)\*

IR		4	2	350	5 <sup>5</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>4</sub>	15IR04201
		5	2	375	6 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>2</sub>	15IR05201
		6	2	600	7 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	15IR06201
		8	2	675	9 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>2</sub>	15IR08201

#### TPR on Polypropylene (Flat Tread) (01 Roller Bearing)\*

IS		4	2	350	5 <sup>5</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>4</sub>	15IS04201
		5	2	375	6 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>2</sub>	15IS05201
		6	2	600	7 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	6	15IS06201
		8	2	675	9 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>2</sub>	15IS08201

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


IB		4	2	450	5 <sup>5</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	15IB04201
		5	2	550	6 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>	5	15IB05201
		6	2	650	7 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	6	15IB06201
		8	2	850	9 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	15IB08201


# EMPIRE™


Casters & Wheels


# 15 Series Medium Heavy Duty Casters


For swivel models add "S" to end of caster number.  
For rigid models add "R" to end of caster number.


Wheel Diameter (Inches) 

Tread Width (Inches) 

Capacity (Lbs) (Rated for nominal operation) 


Overall Height (Inches) 


Swivel Lead (Inches) 


Approx. Wt. (LBS) 


Caster Number


For swivel models add "S" to end of caster number.  
For rigid models add "R" to end of caster number.


Wheel Diameter (Inches) 

Tread Width (Inches) 

Capacity (Lbs) (Rated for nominal operation) 


Overall Height (Inches) 

Swivel Lead (Inches) 

Approx. Wt. (LBS) 


Caster Number

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




4	2	700	5 <sup>5</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub>	7	<b>15IP04201</b>
5	2	1000	6 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>	8	<b>15IP05201</b>
6	2	1200	7 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>4</sub>	<b>15IP06201</b>
8	2	1200	9 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	10	<b>15IP08201</b>

### Phenolic (01 Roller Bearing)




4	2	800	5 <sup>5</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub>	5	<b>15TM04201</b>
5	2	1000	6 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>4</sub>	<b>15TM05201</b>
6	2	1200	7 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>	<b>15TM06201</b>
8	2	1200	9 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	8	<b>15TM08201</b>

### Polyurethane on Polypropylene (01 Roller Bearing)




4	2	700	5 <sup>5</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>4</sub>	<b>15IX04201</b>
5	2	750	6 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>4</sub>	<b>15IX05201</b>
6	2	900	7 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	<b>15IX06201</b>
8	2	1000	9 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>2</sub>	<b>15IX08201</b>


### Cast Iron (01 Roller Bearing)





4	2	700	5 <sup>5</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub>	7	<b>15IC04201</b>
5	2	1000	6 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>	8	<b>15IC05201</b>
6	2	1200	7 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>4</sub>	<b>15IC06201</b>
8	2	1200	9 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	12 <sup>1</sup> / <sub>2</sub>	<b>15IC08201</b>


For swivel models add "S" to end of caster number.  
For rigid models add "R" to end of caster number.


Wheel Diameter (Inches) 

Tread Width (Inches) 

Capacity (Lbs) (Rated for nominal operation) 


Overall Height (Inches) 

Swivel Lead (Inches) 

Approx. Wt. (LBS) 

Caster Number

### Rig Only: Made to Albion Specifications



4	2	700	5 <sup>5</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub>	-	<b>15YA04201</b>
5	2	1000	6 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>	-	<b>15YA05201</b>
6	2	1200	7 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	-	<b>15YA06201</b>
8	2	1200	9 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	-	<b>15YA08201</b>

# EMPIRE™

## Casters & Wheels

### 60 Series Heavy Duty Casters

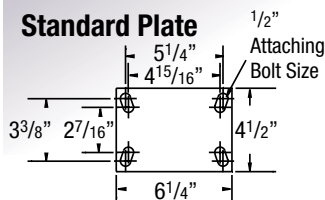


Manufactured from cold formed steel, this popular series is recommended for heavy duty applications. A heat treated king bolt and nut ensure longer caster life.

#### TYPICAL APPLICATIONS

- Movable racks
- Conveyor or "Dragline" operations
- Utility trucks
- Corrugated box trucks
- Caster mounted production jigs and fixtures

#### MOUNTING PLATE



#### FEATURES

- **Top Plate:** Cold formed from 1/4" steel plate to provide the strongest possible section for swivel bearing
- **Swivel Section:** 3-1/4" diameter load race. Raceways are coined smooth then cold formed hardened to minimize ball indentation and wear
- **Legs:** 1/4" steel formed to increase strength and welded to the yoke base
- **King bolt:** 3/4" heat treated king bolt and nut assembly
- **Axle:** 1/2" diameter hollow axle with recessed zerk fitting and lock nut on straight roller and ball bearing. Solid axle on Delrin, precision ball, and Oillex bearings
- **Lubrication:** Zerk fitting in swivel section and in recessed head of hollow axle with straight roller bearing wheels
- **Finish:** All rigs are zinc plated to resist corrosion and rust.
- **Notched Yoke Base:** Notched to accommodate swivel lock.

#### BRAKE OPTIONS

**Cam** specify **CB60**



**Face Brake**  
specify **FBB**



**Single Side** specify **SSB60**. **Double Sided** specify **DSB60**



**Swivel Lock**  
specify **L**



Hand operated field installable swivel lock specify **SL620000**

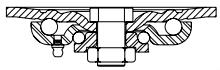


#### BEARING

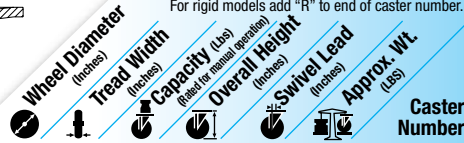


Straight Roller (01)

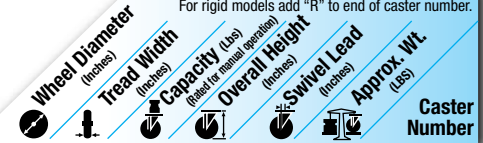
#### Swivel Cross Section



For swivel models add "S" to end of caster number.  
For rigid models add "R" to end of caster number.



For swivel models add "S" to end of caster number.  
For rigid models add "R" to end of caster number.



#### Rubber on Iron (01 Roller Bearing)

	4	2	350	5 5/8	1 5/16	6 1/2	<b>60IM04201</b>
	5	2	400	6 1/2	1 1/2	7 1/2	<b>60IM05201</b>
	6	2	410	7 1/2	1 3/4	9 1/2	<b>60IM06201</b>
	8	2	500	10 1/8	1 3/4	9 1/4	<b>60IM08201</b>

#### TPR on Polypropylene (Round Tread) (01 Roller Bearing)\*

	4	2	450	5 5/8	1 11/16	6	<b>60IR04201</b>
	5	2	550	6 1/2	1 5/8	7	<b>60IR05201</b>
	6	2	450	7 1/2	1 3/4	8 1/4	<b>60IR06201</b>
	8	2	600	10 1/8	1 3/4	9 1/4	<b>60IR08201</b>

#### TPR on Polypropylene (Flat Tread) (01 Roller Bearing)\*

	4	2	350	5 5/8	1 5/16	6 1/2	<b>60IS04201</b>
	5	2	375	6 1/2	1 1/2	7 1/2	<b>60IS05201</b>
	6	2	600	7 1/2	1 3/4	8 1/4	<b>60IS06201</b>
	8	2	675	10 1/8	1 3/4	9 1/4	<b>60IS08201</b>

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

	4	2	450	5 5/8	1 5/16	5	<b>60IB04201</b>
	5	2	550	6 1/2	1 1/2	6	<b>60IB05201</b>
	6	2	650	7 1/2	1 3/4	7	<b>60IB06201</b>
	8	2	850	10 1/8	1 3/4	8	<b>60IB08201</b>

## 60 Series Heavy Duty Casters

For swivel models add "S" to end of caster number.  
For rigid models add "R" to end of caster number.

Wheel Diameter (Inches) ↓

Tread Width (Inches) ↓

Capacity (Lbs) (Based on manual operation) ↑

Overall Height (Inches) ↓

Swivel Lead (Inches) ↓

Approx. Wt. (Lbs) ↓

Caster Number

For swivel models add "S" to end of caster number.  
For rigid models add "R" to end of caster number.

Wheel Diameter (Inches) ↓

Tread Width (Inches) ↓

Capacity (Lbs) (Based on manual operation) ↑


Overall Height (Inches) ↓

Swivel Lead (Inches) ↓

Approx. Wt. (Lbs) ↓


Caster Number

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




4	2	700	5 <sup>5</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>4</sub>	<b>60IP04201</b>
5	2	1000	6 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	8 <sup>3</sup> / <sub>4</sub>	<b>60IP05201</b>
6	2	1200	7 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	11	<b>60IP06201</b>
8	2	1500	10 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	14	<b>60IP08201</b>

### Phenolic (01 Roller Bearing)




4	2	800	5 <sup>5</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>4</sub>	<b>60TM04201</b>
5	2	1000	6 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	6 <sup>3</sup> / <sub>4</sub>	<b>60TM05201</b>
6	2	1200	7 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub>	<b>60TM06201</b>
8	2	1400	10 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>2</sub>	<b>60TM08201</b>

### Polyurethane on Polypropylene (01 Roller Bearing)



4	2	600	5 <sup>5</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>2</sub>	<b>60IX04201</b>
5	2	750	6 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>4</sub>	<b>60IX05201</b>
6	2	900	7 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>2</sub>	<b>60IX06201</b>
8	2	1000	10 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>4</sub>	<b>60IX08201</b>

### Cast Iron (01 Roller Bearing)



4	2	700	5 <sup>5</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>4</sub>	<b>60IC04201</b>
5	2	1000	6 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>4</sub>	<b>60IC05201</b>
6	2	1200	7 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>4</sub>	<b>60IC06201</b>
8	2	1500	10 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	14 <sup>1</sup> / <sub>2</sub>	<b>60IC08201</b>

For swivel models add "S" to end of caster number.  
For rigid models add "R" to end of caster number.

Wheel Diameter (Inches) ↓

Tread Width (Inches) ↓

Capacity (Lbs) (Based on manual operation) ↑


Overall Height (Inches) ↓

Swivel Lead (Inches) ↓

Approx. Wt. (Lbs) ↓

Caster Number

### Rig Only: Made to Albion Specifications



4	2	700	5 <sup>5</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>	-	<b>60YA04201</b>
5	2	1000	6 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	-	<b>60YA05201</b>
6	2	1200	7 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	-	<b>60YA06201</b>
8	2	1500	10 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	-	<b>60YA08201</b>

## Replacement Wheels

### IB Polypropylene



Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Rated for normal operation)	Hub Length (Inches)	Bore ID (Inches)	Bearing ID (Inches)	Approx. Wt. (Lbs)	Wheel Number Less Bearing (00)	Wheel Number Delrin Bearing (51)
4	2	400	2-3/16	1-3/16	3/4	1	IB0420019	IB0425112
5	2	500	2-3/16	1-3/16	3/4	1-1/4	IB0520019	IB0525112
6	2	700	2-3/16	1-3/16	3/4	1-1/2	IB0620019	IB0625112
8	2	900	2-3/16	1-3/16	3/4	1-3/4	IB0820019	IB0825112

### IM Rubber on Iron

Hardness: 95-98 Shore A



Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Rated for normal operation)	Hub Length (Inches)	Bore ID (Inches)	Bearing ID (Inches)	Approx. Wt. (Lbs)	Wheel Number Less Bearing (00)	Wheel Number Roller Bearing (01)
4	2	350	2-3/16	1-3/16	3/4	1-1/2	IM0420019	IM0420112
5	2	400	2-3/16	1-3/16	3/4	2	IM0520019	IM0520112
6	2	400	2-3/16	1-3/16	3/4	2-1/4	IM0620019	IM0620112
8	2	450	2-3/16	1-3/16	3/4	6-1/3	IM0820019	IM0820112

### IC Cast Iron (Class 18)



4	2	700	2-3/16	1-3/16	3/4	4-1/4	IC0420019	IC0420112
5	2	900	2-3/16	1-3/16	3/4	6-1/4	IC0520019	IC0520112
6	2	900	2-3/16	1-3/16	3/4	8-1/2	IC0620019	IC0620112
8	2	900	2-3/16	1-3/16	3/4	8-1/2	IC0820019	IC0820112

### IP Polyurethane on Cast Iron



4	2	700	2-3/16	1-3/16	3/4	3	IP0420019	IP0420112
5	2	900	2-3/16	1-3/16	3/4	3-1/2	IP0520019	IP0520112
6	2	900	2-3/16	1-3/16	3/4	4	IP0620019	IP0620112
8	2	900	2-3/16	1-3/16	3/4	6	IP0820019	IP0820112

## Replacement Wheels

### IX Polyurethane on Polypropylene (Green)



	Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Select for annual operation)	Hub Length (Inches)	Bore ID (Inches)	Bearing ID (Inches)	Approx. Wt. (Lbs)	Wheel Number Less Bearing (00)	Wheel Number Roller Bearing (01)
4	2	500	2-3/16	1-3/16	3/4	1/2	IX0420019	IX0420112	
5	2	600	2-3/16	1-3/16	3/4	1-3/4	IX0520019	IX0520112	
6	2	800	2-3/16	1-3/16	3/4	2-1/2	IX0620019	IX0620112	
8	2	900	2-3/16	1-3/16	3/4	2-3/4	IX0820019	IX0820112	

### IS Gray TPR on Polypropylene (Flat)

Hardness: 85-88 Shore A



4	2	300	2-3/16	1-3/16	3/4	1	IS0420019	IS0420112
5	2	400	2-3/16	1-3/16	3/4	1-1/8	IS0520019	IS0520112
6	2	500	2-3/16	1-3/16	3/4	1-3/8	IS0620019	IS0620112
8	2	600	2-3/16	1-3/16	3/4	2-3/8	IS0820019	IS0820112

### IR Gray TPR on Polypropylene (Round)

Hardness: 85-88 Shore A



4	2	250	2-3/16	1-3/16	3/4	1	IR0420019	IR0420112
5	2	350	2-3/16	1-3/16	3/4	1-1/8	IR0520019	IR0520112
6	2	450	2-3/16	1-3/16	3/4	1-3/8	IR0620019	IR0620112
8	2	550	2-3/16	1-3/16	3/4	3-3/8	IR0820019	IR0820112

# Replacement Wheels

**PI Polyurethane  
on Cast Iron Core**



- Higher capacity than IP wheels
- Higher tensile strength core than IP wheel (Class 30 cast iron PI ... Class 18 cast iron IP)
- Thicker hub than IP
- Thicker reinforcing ribs
- Hardness: 95 Shore A

Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Rated to nearest 500lbs)	Hub Length (Inches)	Bore ID (Inches)	Bearing ID (Inches)	Bearing	Wheel Number
4	2	700	2-7/16	1-3/16	1/2	Industrial Ball	PI0422708
4	2	700	2-3/16	1-3/16	5/8	Roller	PI0420110
4	2	700	2-3/16	1-3/16	3/4	Roller	PI0420112~
4	2	700	2-3/16	1-3/16	1-3/16	Plain	PI0420019
5	2	1000	2-7/16	1-3/16	1/2	Industrial Ball	PI0522708
5	2	1000	2-3/16	1-3/16	3/4	Roller	PI0520112~
5	2	1000	2-3/16	1-3/16	1-3/16	Plain	PI0520019
6	2	1200	2-7/16	1-3/16	1/2	Industrial Ball	PI0622708
6	2	1200	2-7/16	1-3/16	1/2	Pedestal Precision Ball	PI0622908
6	2	1200	2-3/16	1-3/16	5/8	Roller	PI0620110
6	2	1200	2-3/16	1-3/16	3/4	Roller	PI0620112~
6	2	1200	2-3/16	1-3/16	3/4	Delrin	PI0625112
6	2	1200	2-3/16	1-3/16	1-3/16	Plain	PI0620019
6	2-1/2	1600	3-1/4	1-15/16	1-15/16	Plain	PI0640031
6	3	2000	3-1/4	1-15/16	1-15/16	Plain	PI0650031
8	2	1400	2-7/16	1-3/16	1/2	Industrial Ball	PI0822708
8	2	1400	2-7/16	1-3/16	1/2	Pedestal Precision Ball	PI0822908
8	2	1400	2-3/16	1-3/16	3/4	Roller	PI0820112~
8	2	1400	2-3/16	1-3/16	1-3/16	Plain	PI0820019
8	2-1/2	2000	3-1/4	1-15/16	1-15/16	Plain	PI0840031
8	2-1/2	2000	3-1/4	1-15/16	1	Roller	PI0840116
8	3	2500	3-1/4	1-15/16	1	Roller	PI0850116
8	3	2500	3-1/4	1-15/16	1-15/16	Plain	PI0850031
10	2-1/2	2200	3-1/4	1-15/16	1	Roller	PI1040116
10	2-1/2	2200	3-1/4	1-15/16	1-15/16	Plain	PI1040031
10	3	3000	3-1/4	1-15/16	1	Roller	PI1050116
10	3	3000	3-1/4	1-15/16	1-15/16	Plain	PI1050031
12	2-1/2	2500	3-1/4	1-15/16	1-15/16	Plain	PI1240031
12	3	3500	3-1/4	1-15/16	1	Roller	PI1250116
12	3	3500	3-1/4	1-15/16	1-15/16	Plain	PI1250031

~ Wheels are complete with spanner bushing and nylon sealed retaining thrust washer.

**EMPIRE™**  
Casters & Wheels

... from ...

**Acorn Industrial Products Co**

520 Hertzog Boulevard | King of Prussia, PA 19406

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