

Cush-N-Aire Casterscasterdepot.com#S-7008-PR
Swivel

Hamilton Cush-N-Aires have become widely recognized as the leading pneumatic-tired casters in the industry. The quality that earned this reputation continues without compromise: all swivels are S.A.E. 1045 drop forged steel with an integrally forged kingpin and precision tapered thrust bearing to ensure easy swiveling and longer life.

These shock absorbing casters are popular for handling missile components, electronic equipment, ceramics, liquids, etc., as well as for use outdoors over rough surfaces. Pneumatic tires offer "variable flotation": reduce inflation pressure to improve cushioning for lighter loads, or inflate fully for optimum rollability and capacity loads. All wheels except the 4-ply 16" size have bolted hubs.

Rigid Cush-N-Aire models, offering overall height and template patterns to match the swivels, are constructed of plate steel legs welded inside and outside to steel mounting plate.

OPTIONAL ACCESSORIES *more help on page 13*

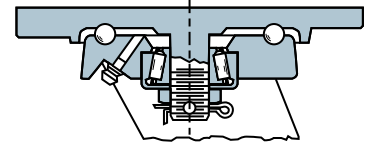
Swivel casters on this page feature Forged Steel Integral Kingpins guaranteed for life.

#R-7012-PR
Rigid

- Swivel Locks – 4 position (★-4SL [8", 10", & 12"])
- Special Overall Height
- Foam Filled Wheels
- Gray Non-marking Tires

QUALITY FEATURES

Swivel Construction – drop forged steel mounting plate and horn base. Legs 1/4" thick on 8" and 10" models; 3/8" on 12", 16", 21" and 25"; and 1/2" on 18" models, welded inside and outside.



Kingpin – integrally forged with mounting plate, 3/4" diameter on 8" and 10" models; 1" diameter on 12"-18" models; and 1 1/4" dia. on 21" and 25" models.

Main Load Bearing – large diameter raceway machined for hardened and polished steel balls.

Secondary Load Bearing – precision tapered roller bearing capped with grease retainer.

Axle – bolt and nut type: 1/2" diameter on 8" and 10" roller bearing models; 3/4" diameter on 10" tapered bearing models and all 12" models; 1" diameter on all 16" and 18" models; 1 1/4" on 21" and 25" models.

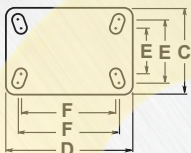
Tires – 8", 10", 12" and #7016-PR are 4-ply rated; #70166-PR is 6-ply rated; #70188-PR is 8-ply rated; 21" and 25" models are 10-ply rated.

FEATURED WHEEL BEARINGS

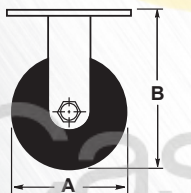
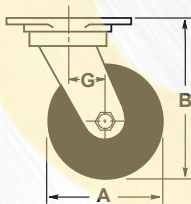
Precision Tapered Roller Bearing: best for most severe heavy duty or all power-towed applications



Straight Roller Bearing: traditional anti-friction bearing, best for manual applications where shock loading (but no side thrust) is prevalent.

Mounting Plate Dimensions

Mounting Bolt:
1/2" on 8" to 18" models
5/8" on 21" to 25" models

**BRAKE CHOICES** *for more help, see page 20*

-FCB

Foot Contact Brake
[8" to 18" models]

★-FB

Side Foot Brake
[8" to 12" models]

★-FRB

Rap-A-Round
Foot Brake
[8" to 12" models]

-ZB

Heavy Duty
Contact Brake
[8" & 10" models]

-B, -HB

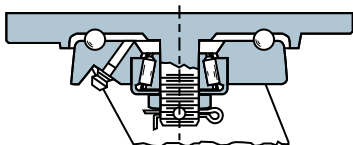
Thumbscrew Brake
[8" to 12" models,
-HB on 16" & 18"]★ = same day/next day **PRONTO®** shipment.**7000 Series Selection Table**

| Wheel | | | | Swivel Caster | | Rigid Caster | | Load Cap. Lbs. | Overall Height B♦ | Swivel Offset G | Mounting Plate | |
|----------------|--------------|-----------------------|----------------------|-----------------------|-------------|-----------------------|-------------|----------------------|-------------------------|-----------------------|---|---|
| Nom. Dia. A | Tire Size | Replacement Number | Max. Air Pressure | Hamilton Model No. | Wt. Lbs. | Hamilton Model No. | Wt. Lbs. | | | | Size Cx D | Holes Ex F |
| 8 | 2.80/2.50-4 | W-8-PR-3/4 | 50 | ★ S-7008-PR | 12 | ★ R-7008-PR | 8 1/2 | 330 | 10 1/2 | 2 3/4 | 4 1/2 x 6 1/2 | 2 7/16 x 4 15/16 slotted to 3 3/8 x 5 1/4 |
| 10 | 3.40/3.00-5 | W-10-PR-3/4 | 100 | ★ S-7010-PR | 14 | ★ R-7010-PR | 11 | 480 | 12 1/2 | 3 | | |
| | 3.40/3.00-5 | W-10-PRT-3/4 | 100 | S-70104-PR | 14 | R-70104-PR | 11 | 480 | 12 1/2 | 3 | | |
| 12 | 4.10/3.50-6 | W-12-PR-1 | 50 | ★ S-7012-PR | 31 | ★ R-7012-PR | 24 | 625 | 15 1/2 | 3 1/2 | 6 1/8 x 7 1/2 (swivel) 5 1/2 x 7 1/2 (rigid) | 4 1/2 x 6 1/8 |
| | 4.10/3.50-6 | W-12-PRT-1 | 50 | S-70124-PR | 31 | R-70124-PR | 24 | 625 | 15 1/2 | 3 1/2 | | |
| 16 | 4.80-8 | W-164-PR-1 | 60 | ★ S-7016-PR | 36 | ★ R-7016-PR | 29 | 960 | 18 3/4 | 4 1/2 | 8 1/2 x 8 1/2 | 7 x 7 |
| | 4.80-8 | W-166-PRT-1 | 90 | ★ S-70166-PR | 39 | ★ R-70166-PR | 32 | 1220 | 18 3/4 | 4 1/2 | | |
| 18 | 5.70-8 | W-188-PRT-1 | 115 | S-70188-PR | 50 | R-70188-PR | 44 | 1655 | 21 1/4 | 5 | | |
| 21 | 6.90/9 | W-210-PRT-1 1/4 | 125 | S-70210-PR | 90 | R-70210-PR | 73 | 2500 | 24 1/2 | 5 | | |
| 25 | 7.50/10 | W-250-PRT-1 1/4 | 100 | S-70250-PR | 112 | R-70250-PR | 95 | 3700 | 28 3/4 | 5 | | |

♦ Approximate since O.D. of tires can vary, as will deflection with pressure and loading.

QUALITY FEATURES

Swivel Construction – drop forged steel mounting plate and horn base. Legs ¼" thick on 8", 10", & 12" (7112 only) models; ¾" on 12", 16", 21" and 25"; and 1½" on 18" models, welded inside and outside.



Kingpin – integrally forged with mounting plate, ¾" diameter on 8", 10" & 12" (7112 only) models; 1" diameter on 12"-18" models; and 1¼" dia. on 21" and 25" models.

Main Load Bearing – large diameter raceway machined for hardened and polished steel balls.

Secondary Load Bearing – precision tapered roller bearing capped with grease retainer.

Axle – bolt and nut type: ½" diameter on 8" and 10" roller bearing models; ¾" diameter on 10" tapered bearing models and all 12" models; 1" diameter on all 16" and 18" models; 1¼" on 21" and 25" models.

Tires – 8", 10", 12" and #7116 are 4-ply rated; #71166 is 6-ply rated; #71188 is 8-ply rated; 21" and 25" models are 10-ply rated.

The new 7100 Series of pneumatic casters combines the proven heavy-duty forged steel construction of the 7000 Series with the industry's most popular top plate – 4" x 5". The 7100 Series Casters are also enhanced with a bright zinc plate finish to prevent rust and wear in indoor and outdoor applications.

Because pneumatic-tired casters cushion loads and roll well on paved or concrete surfaces, this series is well-suited for aerospace ground support equipment (power towed and manual operations), and sensitive cargo such as military weaponry and any other miscellaneous equipment requiring extra care during transport.



#S-7111-PR Swivel



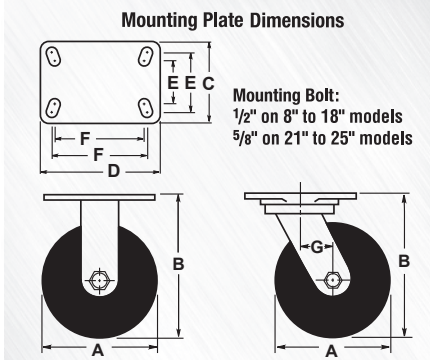
OPTIONAL ACCESSORIES *more help on page 13*



- **Swivel Locks** – 4 position (-4SL)
–convert swivel to rigid for straight line steering
- **Special Overall Height**
- **Foam Filled Wheels**
- **Gray Non-marking Tires**



★ = same day/next day **PRONTO®** shipment.



BRAKE CHOICES *for more help, see page 20*

-FCB

★-FB

★-FRB

-ZB

-B, -HB



Foot Contact Brake
[8" to 18" models]



Side Foot Brake
[8" to 12" models]



Rap-A-Round
Foot Brake
[8" to 12" models]



Heavy Duty
Contact Brake
[8" & 10" models]



Thumbscrew Brake
[8" to 12" models,
-HB on 16" & 18"]

7100 Series Selection Table

3YR = 3 Year Warranty applies

| Nom. Dia. A | Wheel | | | | Swivel Caster | | Rigid Caster | | Load Cap. Lbs. | Overall Height B♦ | Swivel Offset G | Mounting Plate | |
|-------------|-------------|--------------------|----------|--------------|--------------------|----------|--------------------|----------|----------------|-------------------|-----------------|------------------|------------------------------|
| | Tire Size | Replacement Number | Max. Air | Bearing Type | Hamilton Model No. | Wt. Lbs. | Hamilton Model No. | Wt. Lbs. | | | | Size C&D | Holes E&F |
| 8 | 2.80/2.50-4 | W-8-PR-¾" | 50 | Roller | ★ S-7108-PR | 12 | ★ R-7108-PR | 8 | 330 | 10½" | 2¼" | 4 x 5" | 3 x 3½" slotted to 2½ x 3 |
| | 2.80/2.50-4 | W-8-PR-¾" | 50 | Roller | S-7118-PR | 12 | R-7118-PR | 9 | 330 | 10½" | 2¼" | 4½ x 6½" | 3¾ x 5¼" slotted to 2½ x 4½" |
| 10 | 3.40/3.00-5 | W-10-PR-¾" | 100 | Roller | ★ S-7110-PR | 14 | ★ R-7110-PR | 10 | 480 | 12½" | 3 | 4 x 5" | 3 x 3½" slotted to 2½ x 3 |
| | 3.40/3.00-5 | W-10-PR-¾" | 100 | Roller | S-7111-PR | 14 | R-7111-PR | 11 | 480 | 12½" | 3 | 4½ x 6½" | 3¾ x 5¼" slotted to 2½ x 4½" |
| | 3.40/3.00-5 | W-10-PRT-¾" | 100 | Tapered | S-71104-PR 3YR | 14 | R-71104-PR 3YR | 11 | 480 | 12½" | 3 | 4 x 5" | 3 x 3½" slotted to 2½ x 3 |
| 12 | 4.10/3.50-6 | W-12-PR-1 | 50 | Roller | ★ S-7112-PR | 17 | ★ R-7112-PR | 14 | 625 | 15½" | 3½" | 6 x 7½" (swivel) | 4 x 6½" |
| | 4.10/3.50-6 | W-12-PR-1 | 50 | Roller | S-7113-PR | 31 | R-7113-PR | 24 | 625 | 15½" | 3½" | 5½ x 7½" (rigid) | 7 x 7 |
| | 4.10/3.50-6 | W-12-PRT-¾" | 50 | Tapered | S-71124-PR 3YR | 31 | R-71124-PR 3YR | 24 | 625 | 15½" | 3½" | 8½ x 8½" | |
| 16 | 4.80-8 | W-164-PR-1 | 60 | Roller | S-7116-PR | 36 | R-7116-PR | 29 | 960 | 18¾" | 4½" | | |
| | 4.80-8 | W-166-PRT-1 | 90 | Tapered | S-71166-PR 3YR | 39 | R-71166-PR 3YR | 32 | 1220 | 18¾" | 4½" | | |
| 18 | 5.70-8 | W-188-PRT-1 | 115 | Tapered | S-71188-PR 3YR | 50 | R-71188-PR 3YR | 44 | 1655 | 21¼" | 5 | | |
| 21 | 6.90-9 | W-210-PRT-1½" | 125 | Tapered | S-71210-PR 3YR | 90 | R-71210-PR 3YR | 73 | 2500 | 24½" | 5 | | |
| 25 | 7.50-10 | W-250-PRT-1½" | 100 | Tapered | S-71250-PR 3YR | 112 | R-71250-PR 3YR | 95 | 3700 | 28¾" | 5 | | |

♦ Approximate since O.D. of tires can vary, as will deflection with pressure and loading.

* Rigid top plate is 4" x 4½"; Holes are 2½" x 3¾" slotted to 3" x 3".