



Nylacron™ Wheels

With Precision Ball Bearings for Any Application
(NY/MD, NY/HSB, NY/MC, NY/GF)

Nylacron™ wheels with proper sized precision bearings are made to fit in any rig hub length and axle size. Nylacron™ wheels have greater load capacity ratings with better rollability while requiring less maintenance and have longer life.

Kingpinless Caster
with Nylacron™ Wheel



Swivel-EAZ™ (Dual-in-One) Wheels

The Swivel-EAZ™ (Dual-in-One) wheel easily turns a single wheel caster rig into a dual wheel premium urethane tread caster.

The Swivel-EAZ™ (Dual-in-One) wheels, designed originally for the automotive industry, is now a best value solution for manual or towing applications (Up to 8 mph) in many other industries.

Available in 4 Durometers:
70A (Black), 80A (Red), 95A (Blue) and 60D (Gray)
Tread Types: CR: Crown or FT: Flat Tread
Axles Sizes: 1/2", 3/4", 1" and 1-1/4"

Kingpinless Caster
with 10" Swivel-EAZ™
(Dual-in-One) Wheel



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Acorn™ can supply any size and type caster rig with any type wheel with proper size precision ball bearings. Call, fax or e-mail for application assistance, or visit our website to view or print our complete catalog.

Visit our Web site for new products
www.acornindprod.com

Vulkollan™ & Premium Urethanes Made the Bayer™ Way (Hot Poured)

with Precision Ball Bearings for Any Application



Vulkollan™ 93A
Cast Iron Core
(VU9/CA)



Urethane 93A
Cast Iron Core
(Pevopur™)
(PY9/CA)



Urethane Soft
75-80A
Cast Iron Core
(Pevopur™)
(PY8/CA)

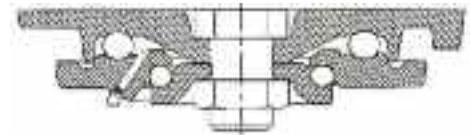
7-90 CONSTRUCTION FEATURES

Load Capacity Up to 3500 lbs.

- Top Plate: S.A.E. 1045 drop-forged steel. Forged top plate skirt affords labyrinth type seal for load raceway.
- Yoke Base: S.A.E. 1045 drop-forged steel. Large outside diameter yoke base is used when the hub length of wheel is 4-1/2" or greater or when swivel lock option is used.
- Hub Length: 3 1/2" (standard)
- Swivel Load Bearing: 4" diameter, deep grooved ball load raceway with 1/2" steel balls. The thrust bearing is 2-5/8" diameter using 3/8" diameter steel balls.
- Legs: 3/8" steel plate, welded inside and out to the yoke base and 3/8" thick rigid top. Hub length 3-1/2".
- King Bolt: 1" diameter, heat-treated bolt and nut.
- Axle: Casters marked ~ have 1" solid axle. All other have 3/4" hollow axles. Lock nuts are standard on both sizes. Exception: Casters 90-CA-R*-0440-S and 90-PA-R*-0440-S must have 1" hollow axles for wheel bearing lubrication.
- Wheel Bearing: 3-1/4" hub length wheels have 1" straight roller or 3/4" tapered roller bearing. 4-1/4" hub length wheels have 1-1/4" straight roller bearing. Exception: Casters 90-CA-T-3240-S and 90-PA-R*-04440-S have 3/4" tapered roller bearing. Straight roller bearings have hardened thrust washers between wheel hub and inside of fork legs.
- Lubrication: Zerk fitting in swivel section and also recessed head of hollow axle.
- Finish: All parts except wheel are Zinc plated. Metal wheel parts have air-dried aluminum or black enamel finish.



SWIVEL CROSS SECTION



SWIVEL RIG OPTIONS

- SLW** Swivel Lock Welded
- SLHOPI** Swivel Lock - Hand Operated
Field Installable
- HT-90** For unusually severe service,
hardened raceways available

For color coordination as well as for corrosion protection, casters can be powder.

MOUNTING PLATE (SWIVEL / RIGID)

Top Plate	Plate Size	Bolt Hole Spacing	Bolt Size
90 (Swivel)	5 1/4" x 7 1/4"	3 3/8" x 5 1/4" slotted to 4 1/8" x 6 1/8"	1/2"
90 (Rigid)	5" x 7 1/4"	3 3/8" x 5 1/4" slotted to 4 1/8" x 6 1/8"	1/2"

BRAKE OPTIONS

- P** Poly Cam Brake
- FCB** Face Contact Brake
- FBB** Face Brake
- WB** Wrap Around Brake
- SSB** Single Side Brake
- DSB** Double Side Brake



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Nylacron™ wheels with proper sized precision bearings are made to fit in any rig hub length and axle size. Nylacron™ wheels have greater load capacity ratings with better rollability while requiring less maintenance and have longer life.

7-90 CASTER SPECIFICATIONS

Wheel Type (Wheel Code)	Diameter (in.)	Width (in.)	Capacity (lbs.)	OAH (in.)	Swivel Lead (in.)	Approx. Wt. (lbs.)	Swivel Part Number Add B, P, PL, R or T*
FORGED STEEL (FS) WHEELS WITH ROLLER BEARINGS							
	6	2-1/2	2000	8	1-1/2	21-3/4	7-90-FS-R-0625-S
	8	3	2000	10-1/2	2-1/4	26-1/2	7-90-FS-R-0830-S
	10	3	2000	12-1/2	2-1/2	27-1/2	7-90-FS-P-1030-S
DUCTILE IRON / ROUND TREAD (DU/RT) WHEELS WITH ROLLER BEARINGS							
	6	2-1/2	2000	8	1-1/2	20-1/4	7-90-DU/RT-R-0625-S
	8	3	2000	10-1/2	2-1/4	26-1/2	7-90-DU/RT-R-0830-S
	10	3	2000	12-1/2	2-1/2	27-1/2	7-90-DU/RT-R-1030-S
CAST IRON (CA) WHEELS WITH ROLLER BEARINGS							
	4	3	2000	5	2	17-3/4	7-90-CA-R-3212-S
	5	2-1/2	2000	7	2-1/4	19-1/2	7-90-CA-R-0525-S
	6	2-1/2	2000	8	1-1/2	20-1/4	7-90-CA-R-0625-S
	8	3	2000	10-1/2	2-1/4	26-1/2	7-90-CA-R-0830-S
	10	3	2000	12-1/2	2-1/2	27-1/2	7-90-CA-R-1030-S
CAST IRON / V-GROOVED (CA/VG) WHEELS WITH ROLLER BEARINGS							
	6	2-1/2	2000	8	1-1/2	20-1/4	7-90-CA/VG-R-0625-S
	8	3	2000	10-1/2	2-1/4	26-1/2	7-90-CA/VG-R-0830-S
	10	3	2000	12-1/2	2-1/2	27-1/2	7-90-CA/VG-R-1030-S
NYLACRON™ MD (NY/MD) WHEELS WITH PRECISION BALL BEARINGS							
	6	2-1/2	3500	8	1-1/2	14-1/2	7-90-NY/MD-P-0625-S
	6	3	3500	8	1-1/2	15	7-90-NY/MD-P-0630-S
	8	2-1/2	3500	10-1/2	2-1/4	16-3/4	7-90-NY/MD-P-0825-S
	8	3	3500	10-1/2	2-1/4	18	7-90-NY/MD-P-0830-S
	10	2-1/2	3500	12-1/2	3-1/2	19	7-90-NY/MD-P-1025-S
	10	3	3500	12-1/2	2-1/2	20-1/2	7-90-NY/MD-P-1030-S
	12	2-1/2	3500	15-1/2	3	31-1/2	7-90-NY/MD-P-1225-S
	12	3	3500	15-1/2	3	35	7-90-NY/MD-P-1230-S
PHENOLIC / TEXITE (TM) WHEELS WITH ROLLER BEARINGS							
	6	2-1/2	1600	8	1-1/2	14-1/2	7-90-TM-R-0625-S
	6	3	2000	8	1-1/2	14-3/4	7-90-TM-R-0630-S
	8	2-1/2	2000	10-1/2	2-1/4	16-3/4	7-90-TM-R-0825-S
	8	3	2000	10-1/2	2-1/4	17-3/4	7-90-TM-R-0830-S
	10	3	2000	12-1/2	2-1/2	20-1/2	7-90-TM-R-1030-S
	12	3	2000	15-1/2	3	22-1/2	7-90-TM-R-1230-S
VULKOLLAN™ / CAST IRON CORE (VU/CA) WHEELS WITH PRECISION BALL BEARINGS							
	6	2-1/2	1950	8	1-1/2	20-1/2	7-90-VU/CA-P-0625-S
	6	3	2000	8	1-1/2	26	7-90-VU/CA-P-0630-S
	8	2-1/2	2000	10-1/2	2-1/4	22-1/2	7-90-VU/CA-P-0825-S
	8	3	2000	10-1/2	2-1/4	22-1/4	7-90-VU/CA-P-0830-S
	10	3	2000	12-1/2	2-1/2	31	7-90-VU/CA-P-1030-S
VULKOLLAN™ THICK TREAD / CAST IRON CORE (VU/TT/CA) WHEELS WITH PRECISION BALL BEARINGS							
	6	3	2000	8	1-1/2	26	7-90-VU/TT/CA-P-0630-S
	8	3	2000	10-1/2	2-1/4	22-1/4	7-90-VU/TT/CA-P-0830-S
	10	3	2000	12-1/2	2-1/2	31	7-90-VU/TT/CA-P-1030-S
POLYURETHANE THICK TREAD / CAST IRON CORE (PY/TT//CA) WHEELS WITH ROLLER BEARINGS							
	6	3	2000	8	1-1/2	26	7-90-PY/TT/CA-P-0630-S
	8	3	2000	10-1/2	2-1/4	22-1/4	7-90-PY/TT/CA-P-0830-S
	10	3	2000	12-1/2	2-1/2	31	7-90-PY/TT/CA-P-1030-S
	12	3	2000	15-1/2	3	40	7-90-PY/TT/CA-P-1230-S

(Continued on Next Page)

7-90 CASTER SPECIFICATIONS

Wheel Type (Wheel Code)	Diameter (in.)	Width (in.)	Capacity (lbs.)	OAH (in.)	Swivel Lead (in.)	Approx. Wt. (lbs.)	Swivel Part Number Add B, P, PL, R or T*
POLYURETHANE / CAST IRON CORE (PY/CA) WHEELS WITH ROLLER BEARINGS							
	3-1/4	3-1/4	850	5-5/8	2	12	7-90-PY/CA-P-3232-S
	5	2-1/2	1290	7	2-1/4	15	7-90-PY/CA-P-0525-S
	6	2-1/2	1620	8	1-1/2	20-1/2	7-90-PY/CA-P-0625-S
	6	3	2000	8	1-1/2	26	7-90-PY/CA-P-0630-S
	8	2-1/2	2000	10-1/2	2-1/4	22-1/2	7-90-PY/CA-P-0825-S
	8	3	2000	10-1/2	2-1/4	22-1/4	7-90-PY/CA-P-0830-S
	10	3	2000	12-1/2	2-1/2	31	7-90-PY/CA-P-1030-S
	12	2-1/2	2000	15-1/2	3	31-1/2	7-90-PY/CA-P-1225-S
	12	3	2000	15-1/2	3	40	7-90-PY/CA-P-1230-S
POLYURETHANE / ALUMINUM CORE (PY/AL) WHEELS WITH ROLLER BEARINGS							
	4	3-1/4	1200	5-1/2	2	15	7-90-PY/AL-P-0432-S
	8	2-1/2	2000	10-1/2	3	20-1/4	7-90-PY/AL-P-0825-S
	8	3	2000	10-1/2	3	20-1/4	7-90-PY/AL-P-0830-S
	10	2-1/2	2000	12-1/2	3-1/2	24-1/2	7-90-PY/AL-P-1025-S
	10	3	2000	12-1/2	3-1/2	24-1/2	7-90-PY/AL-P-1030-S
X-TREME PLUS SOLID POLYURETHANE (XP) WHEELS WITH PRECISION BEARINGS							
	8	2-1/2	2000	10-1/2	2-1/4	22-1/2	7-90-XP-P-0825-S
	8	3	2000	10-1/2	2-1/4	22-1/4	7-90-XP-P-0830-S
	10	2-1/2	2000	12-1/2	2-1/2	24-1/2	7-90-XP-P-1025-S
	10	3	2000	12-1/2	2-1/2	31	7-90-XP-P-1030-S
**SWIVEL-EAZ™ (DUAL-IN-ONE) 95A / FLAT TREAD (SWE/9/FT) WHEELS WITH 3/4" AXLE AND PRECISION BEARINGS							
	6	3	1900	8	2-1/4	26	7-90-SWE/9/FT-P-0630-S
	8	3	3000	10-1/2	2-1/4	28	7-90-SWE/9/FT-P-0830-S
	10	3	3500	12-1/2	2-1/2	31	7-90-SWE/9/FT-P-1030-S
**SWIVEL-EAZ™ (DUAL-IN-ONE) 80A / FLAT TREAD (SWE/8/FT) WHEELS WITH 3/4" AXLE AND PRECISION BEARINGS							
	6	3	1400	8	2-1/4	26	7-90-SWE/8/FT-P-0630-S
	8	3	2300	10-1/2	2-1/4	28	7-90-SWE/8/FT-P-0830-S
	10	3	3500	12-1/2	2-1/2	31	7-90-SWE/8/FT-P-1030-S
**SWIVEL-EAZ™ (DUAL-IN-ONE) 70A / FLAT TREAD (SWE/7/FT) WHEELS WITH 3/4" AXLE AND PRECISION BEARINGS							
	6	3	900	8	2-1/4	26	7-90-SWE/7/FT-P-0630-S
	8	3	1400	10-1/2	2-1/4	28	7-90-SWE/7/FT-P-0830-S
	10	3	2200	12-1/2	2-1/2	31	7-90-SWE/7/FT-P-1030-S
**SWIVEL-EAZ™ (DUAL-IN-ONE) 60D / FLAT TREAD (SWE/6/FT) WHEELS WITH 3/4" AXLE AND PRECISION BEARINGS							
	6	3	2200	8	2-1/4	26	7-90-SWE/6/FT-P-0630-S
	8	3	3500	10-1/2	2-1/4	28	7-90-SWE/6/FT-P-0830-S
	10	3	3500	12-1/2	2-1/2	31	7-90-SWE/6/FT-P-1030-S
MOLDON RUBBER / CAST IRON CORE (MR/CA) WHEELS WITH ROLLER BEARINGS							
	6	2-1/2	700	8	3	20-1/2	7-90-MR/CA-P-0625-S
	6	3	750	8	3	20-3/4	7-90-MR/CA-P-0630-S
	8	2-1/2	850	10-1/2	3	20-1/4	7-90-MR/CA-P-0825-S
	8	3	900	10-1/2	3	22-1/4	7-90-MR/CA-P-0830-S
	10	2-1/2	950	12-1/2	3-1/2	24-1/2	7-90-MR/CA-P-1025-S
	10	3	1000	12-1/2	3-1/2	25-1/4	7-90-MR/CA-P-1030-S
	12	3	1200	15-1/2	3	30-3/4	7-90-MR/CA-P-1230-S
X-TRA SOFT RUBBER / DONUT TREAD (XSR/DT) WHEELS WITH ROLLER BEARINGS							
	10	2-1/2	950	11-1/2	3-1/2		7-90-XSR/DT-P-1025-S

*Add "B" for Ball Bearing, "P" for Precision Bearing, "PL" for Plain Bearing, "R" for Roller Bearing or "T" for Tapered Bearing

All load ratings are for manual operation at 2 mph.

For rigid casters, change "S" to "R" (i.e. 7-90-PB-P-0415-S becomes 7-90-PB-P-0415-R)

All Rig Options should be added to the end of the part number. (i.e. 7-90-PB-P-0415-SL for Swivel Lock)

**Also available in Flat Tread (70A, 80A, 95A and 60D) and Crown Tread (70A, 80A, 95A and 60D).

7-90HD CONSTRUCTION FEATURES

Load Capacity Up to 3500 lbs.

- Single piece forged alloy steel top plate
- Integrally forged kingpin
- Forged alloy steel fork base
- Precision raceways, CNC machined: 4 in. diameter with 1/2 in. diameter balls
- Secondary load bearing: 1 in. bore tapered roller bearing for superior swiveling and perfect swivel head alignment
- Integrally forged 1 in. diameter kingpin UNF threaded with slotted nut arrangement for fine adjustment of swivel movements
- 3/8 in. thick x 3 in. legs cylindrically formed & robotically welded inside and outside to 2-1/2 in. fork spacing
- 3/4 in. wheel axle
- Finish is bright zinc plated or polymer painted (black)
- Optional 4-position directional lock slots and hardened raceways



Total Lock (TL/LE)



Directional Lock (DL)

TOP PLATE OPTIONS

Top Plate: 5-1/4" x 7-1/4"

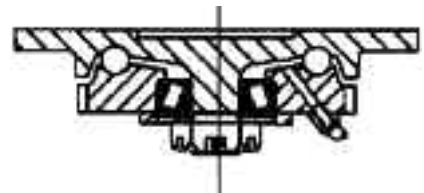
Bolt Hole Centers: 4-1/8" x 6-1/8"
slotted to 3-3/8" x 5-1/4"

Attaching Bolt: 1/2"

RIG OPTIONS

- DL** 4-Way Directional Lock
- TL/LE** Total Lock / Leading Edge
- FCB** Face Contact Brake

SWIVEL CROSS SECTION



The Swivel-EAZ™ (Dual-in-One) wheel easily turns a single wheel caster rig into a dual wheel premium urethane tread caster. The Swivel-EAZ™ (Dual-in-One) wheels, designed originally for the automotive industry, is now a best value solution for manual or towing applications (Up to 8 mph) in many other industries.

Available in 4 Durometers: 70A (Black), 80A (Red), 95A (Blue) and 60D (Gray)



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Nylacron™ wheels with proper sized precision bearings are made to fit in any rig hub length and axle size. Nylacron™ wheels have greater load capacity ratings with better rollability while requiring less maintenance and have longer life.

7-90HD CASTERS with PRECISION BALL BEARING WHEELS

Swivel Part Number	Rigid Part Number	Swivel Part Number with Rig Option (FCB)*	Dia. (in)	Width (in)	OAH (in)	Swl. Rad. (in)	Cap. (lb)
FORGED STEEL (FS) WHEELS WITH PRECISION BALL BEARINGS							
7-90HD-FS-P-0630-S	7-90HD-FS-P-0630-R	7-90HD-FS-P-0630-S-FCB	6	3	8	5-1/4	3500
7-90HD-FS-P-0830-S	7-90HD-FS-P-0830-R	7-90HD-FS-P-0830-S-FCB	8	3	10-1/2	6-1/2	3500
7-90HD-FS-P-1030-S	7-90HD-FS-P-1030-R	7-90HD-FS-P-1030-S-FCB	10	3	12-1/2	7-3/4	3500
7-90HD-FS-P-1230-S	7-90HD-FS-P-1230-R	7-90HD-FS-P-1230-S-FCB	12	3	15-1/2	8-1/2	3500
DUCTILE IRON (DU) WHEELS WITH PRECISION BALL BEARINGS							
7-90HD-DU-P-0630-S	7-90HD-DU-P-0630-R	7-90HD-DU-P-0630-S-FCB	6	3	8	5-1/4	3300
7-90HD-DU-P-0830-S	7-90HD-DU-P-0830-R	7-90HD-DU-P-0830-S-FCB	8	3	10-1/2	6-1/2	3500
7-90HD-DU-P-1030-S	7-90HD-DU-P-1030-R	7-90HD-DU-P-1030-S-FCB	10	3	12-1/2	7-3/4	3500
7-90HD-DU-P-1230-S	7-90HD-DU-P-1230-R	7-90HD-DU-P-1230-S-FCB	12	3	15-1/2	8-1/2	3500
NYLACRON™ MD (NY/MD) WHEELS WITH PRECISION BALL BEARINGS							
7-90HD-NY/MD-P-0630-S	7-90HD-NY/MD-P-0630-R	7-90HD-NY/MD-P-0630-S-FCB	6	3	8	5-1/4	3500
7-90HD-NY/MD-P-0830-S	7-90HD-NY/MD-P-0830-R	7-90HD-NY/MD-P-0830-S-FCB	8	3	10-1/2	6-1/2	3500
7-90HD-NY/MD-P-1030-S	7-90HD-NY/MD-P-1030-R	7-90HD-NY/MD-P-1030-S-FCB	10	3	12-1/2	7-3/4	3500
7-90HD-NY/MD-P-1230-S	7-90HD-NY/MD-P-1230-R	7-90HD-NY/MD-P-1230-S-FCB	12	3	15-1/2	8-1/2	3500
SOLID ELASTOMER (SE) WHEELS WITH PRECISION BALL BEARINGS							
7-90HD-SE-P-0630-S	7-90HD-SE-P-0630-R	7-90HD-SE-P-0630-S-FCB	6	3	8	5-1/4	2500
7-90HD-SE-P-0830-S	7-90HD-SE-P-0830-R	7-90HD-SE-P-0830-S-FCB	8	3	10-1/2	6-1/2	2500
7-90HD-SE-P-1030-S	7-90HD-SE-P-1030-R	7-90HD-SE-P-1030-S-FCB	10	3	12-1/2	7-3/4	3000
7-90HD-SE-P-1230-S	7-90HD-SE-P-1230-R	7-90HD-SE-P-1230-S-FCB	12	3	15-1/2	8-1/2	3400
HEAVY DUTY URETHANE / CAST IRON CORE (UR/HD/CA) WHEELS WITH PRECISION BALL BEARINGS							
7-90HD-UR/HD/CA-P-0630-S	7-90HD-UR/HD/CA-P-0630-R	7-90HD-UR/HD/CA-P-0630-S-FCB	6	3	8	5-1/4	2300
7-90HD-UR/HD/CA-P-0830-S	7-90HD-UR/HD/CA-P-0830-R	7-90HD-UR/HD/CA-P-0830-S-FCB	8	3	10-1/2	6-1/2	3100
7-90HD-UR/HD/CA-P-1030-S	7-90HD-UR/HD/CA-P-1030-R	7-90HD-UR/HD/CA-P-1030-S-FCB	10	3	12-1/2	7-3/4	3500
7-90HD-UR/HD/CA-P-1230-S	7-90HD-UR/HD/CA-P-1230-R	7-90HD-UR/HD/CA-P-1230-S-FCB	12	3	15-1/2	8-1/2	3500
URETHANE / CAST IRON CORE / DONUT TREAD (UR/CA/DT) WHEELS WITH PRECISION BALL BEARINGS							
7-90HD-UR/CA/DT-P-0630-S	7-90HD-UR/CA/DT-P-0630-R	7-90HD-UR/CA/DT-P-0630-S-FCB	6	3	8	5-1/4	1875
7-90HD-UR/CA/DT-P-0830-S	7-90HD-UR/CA/DT-P-0830-R	7-90HD-UR/CA/DT-P-0830-S-FCB	8	3	10-1/2	6-1/2	2400
7-90HD-UR/CA/DT-P-1030-S	7-90HD-UR/CA/DT-P-1030-R	7-90HD-UR/CA/DT-P-1030-S-FCB	10	3	12-1/2	7-3/4	2850
7-90HD-UR/CA/DT-P-1230-S	7-90HD-UR/CA/DT-P-1230-R	7-90HD-UR/CA/DT-P-1230-S-FCB	12	3	15-1/2	8-1/2	3500
POLYURETHANE / CAST IRON CORE (PY/CA) WHEELS WITH PRECISION BALL BEARINGS							
7-90HD-PY/CA-P-0630-S	7-90HD-PY/CA-P-0630-R	7-90HD-PY/CA-P-0630-S-FCB	6	3	8	5-1/4	2100
7-90HD-PY/CA-P-0830-S	7-90HD-PY/CA-P-0830-R	7-90HD-PY/CA-P-0830-S-FCB	8	3	10-1/2	6-1/2	2500
7-90HD-PY/CA-P-1030-S	7-90HD-PY/CA-P-1030-R	7-90HD-PY/CA-P-1030-S-FCB	10	3	12-1/2	7-3/4	3000
7-90HD-PY/CA-P-1230-S	7-90HD-PY/CA-P-1230-R	7-90HD-PY/CA-P-1230-S-FCB	12	3	15-1/2	8-1/2	3000
**SWIVEL-EAZ™ (DUAL-IN-ONE) 95A / FLAT TREAD (SWE/9/FT) WHEELS WITH PRECISION BEARINGS							
7-90HD-SWE/9/FT-P-0630-S	7-90HD-SWE/9/FT-P-0630-R	7-90HD-SWE/9/FT-P-0630-S-TL/LE	6	3	5-5/8	3-5/8	1900
7-90HD-SWE/9/FT-P-0830-S	7-90HD-SWE/9/FT-P-0830-R	7-90HD-SWE/9/FT-P-0830-S-TL/LE	8	3	6-1/2	4-5/8	2000
7-90HD-SWE/9/FT-P-1030-S	7-90HD-SWE/9/FT-P-1030-R	7-90HD-SWE/9/FT-P-1030-S-TL/LE	10	3	7-1/2	5-1/4	2000
MOLDON RUBBER / CAST IRON CORE (MR/CA) WHEELS WITH PRECISION BALL BEARINGS							
7-90HD-MR/CA-P-0630-S	7-90HD-MR/CA-P-0630-R	7-90HD-MR/CA-P-0630-S-FCB	6	3	8	5-1/4	680
7-90HD-MR/CA-P-0830-S	7-90HD-MR/CA-P-0830-R	7-90HD-MR/CA-P-0830-S-FCB	8	3	10-1/2	6-1/2	850
7-90HD-MR/CA-P-1030-S	7-90HD-MR/CA-P-1030-R	7-90HD-MR/CA-P-1030-S-FCB	10	3	12-1/2	7-3/4	1000
7-90HD-MR/CA-P-1230-S	7-90HD-MR/CA-P-1230-R	7-90HD-MR/CA-P-1230-S-FCB	12	3	15-1/2	8-1/2	1150

Nylacron™ (NY/MD and NY/MC) wheels available in every size caster rig. Additional wheels available, consult Acorn™

*Add Rig Options to the end of each part number (i.e 7-90HD-123S-SJS-WFB for Wheel Face Brake)

**Also available in Flat Tread (70A, 80A, 95A and 60D) and Crown Tread (70A, 80A, 95A and 60D).

7-90K CONSTRUCTION FEATURES

Load Capacity Up to 5500 lbs.

- Top Plate: 3/8" thick AISI 1045 steel one-piece forging precision machined and through-hardened for long life
- Swivel Section: 1/2" ball bearings mounted in a 3" precision machined raceway
- Legs: 3/8" thick steel welded to yoke base using 100,000 psi weld filler, welded inside and out for added strength
- Axle: 3/4" diameter
- **Alternate or custom caster configurations available**

This Series is available in Dual Wheel (DW).



SWIVEL RIG OPTIONS

SW	Sealed Swivel
SLW	Swivel Lock Welded
SLFI	Swivel Lock - Field Installable
SLD	Swivel Lock - Detachable

BRAKE OPTIONS

CBB	Cam Brake
FCB	Face Contact Brake
PCB	Poly Cam Brake
WB	Wrap Around Brake
SSB	Single Side Brake
DSB	Double Side Brake

SWIVEL CROSS SECTION



MOUNTING PLATE (SWIVEL / RIGID)

Top Plate	Plate Size	Bolt Hole Spacing	Bolt Size
90K (Swivel)	5 1/4" x 7 1/4"	4 1/8" x 6 1/8" slotted to 3 3/8" x 5 1/4"	1/2"
90K (Rigid)	5" x 7 1/4"	4 1/8" x 6 1/8" slotted to 3 3/8" x 5 1/4"	1/2"
K (Swivel)	4 1/2" x 6 1/4"	3 3/8" x 5 1/4" slotted to 2 7/16" x 4 15/16"	1/2"
K (Rigid)	5" x 6 1/4"	3 3/8" x 5 1/4" slotted to 2 7/16" x 4 15/16"	1/2"
R	6 1/4" x 7 1/2"	6" x 4 1/2" slotted to 6" x 4 1/8"	1/2"
S	6" x 7"	4 5/8" x 5 5/8" slotted to 4 3/8" x 5 1/2"	1/2"



The Swivel-EAZ™ (Dual-in-One) wheel easily turns a single wheel caster rig into a dual wheel premium urethane tread caster. The Swivel-EAZ™ (Dual-in-One) wheels, designed originally for the automotive industry, is now a best value solution for manual or towing applications (Up to 8 mph) in many other industries. **Available in 4 Durometers: 70A (Black), 80A (Red), 95A (Blue) and 60D (Gray)**



Nylacron™ Wheels

With Precision Ball Bearings for Any Application: (NY/MD, NY/HSB, NY/MC, NY/GF) Nylacron™ wheels with proper sized precision bearings are made to fit in any rig hub length and axle size. Nylacron™ wheels have greater load capacity ratings with better rollability while requiring less maintenance and have longer life.

7-90K CASTER SPECIFICATIONS

Wheel Type (Wheel Code)	Diameter (in.)	Width (in.)	Capacity (lbs.)	OAH (in.)	Swivel Lead (in.)	Approx. Wt. (lbs.)	Swivel Part Number Add B, P, PL, R or T*
FORGED STEEL (FS) WHEELS WITH ROLLER BEARINGS							
	6	2-1/2	4000	8	1-1/2	21-3/4	7-90K-FS-R-0625-S
	8	3	4500	10-1/2	2-1/4	26-1/2	7-90K-FS-R-0830-S
	10	3	5000	12-1/2	2-1/2		7-90K-FS-P-1030-S
DUCTILE IRON / ROUND TREAD (DU/RT) WHEELS WITH ROLLER BEARINGS							
	6	2-1/2	3500	8	1-1/2	20-1/4	7-90K-DU/RT-R-0625-S
	8	3	5400	10-1/2	2-1/4	26-1/2	7-90K-DU/RT-R-0830-S
	10	3	5400	12-1/2	2-1/2	27-1/2	7-90K-DU/RT-R-1030-S
CAST IRON (CA) WHEELS WITH ROLLER BEARINGS							
	4	3	2000	5-1/2	2	17-3/4	7-90K-CA-R-3212-S
	5	2-1/2	2000	6-1/2	2-1/4	19-1/2	7-90K-CA-R-0525-S
	6	2-1/2	2300	8	1-1/2	20-1/4	7-90K-CA-R-0625-S
	8	3	2800	10-1/2	2-1/4	26-1/2	7-90K-CA-R-0830-S
	10	3	2800	12-1/2	2-1/2	27-1/2	7-90K-CA-R-1030-S
CAST IRON / V-GROOVED (CA/VG) WHEELS WITH ROLLER BEARINGS							
	6	2-1/2	2500	8	1-1/2	20-1/4	7-90K-CA/VG-R-0625-S
	8	3	2500	10-1/2	2-1/4	26-1/2	7-90K-CA/VG-R-0830-S
	10	3	3500	12-1/2	2-1/2	27-1/2	7-90K-CA/VG-R-1030-S
NYLACRON™ MD (NY/MD) WHEELS WITH PRECISION BALL BEARINGS							
	6	2-1/2	5400	8	1-1/2	14	7-90K-NY/MD-P-0625-S
	6	3	5400	8	1-1/2	15	7-90K-NY/MD-P-0630-S
	8	2-1/2	5400	10-1/2	2-1/4	17	7-90K-NY/MD-P-0825-S
	8	3	5400	10-1/2	2-1/4	18	7-90K-NY/MD-P-0830-S
	10	2-1/2	5400	12-1/2	3-1/2	19	7-90K-NY/MD-P-1025-S
	10	3	5400	12-1/2	2-1/2	21	7-90K-NY/MD-P-1030-S
	12	2-1/2	5400	15-1/2	3	22	7-90K-NY/MD-P-1225-S
	12	3	5400	15-1/2	3	23	7-90K-NY/MD-P-1230-S
PHENOLIC / TEXITE (TM) WHEELS WITH ROLLER BEARINGS							
	6	2-1/2	1600	8	1-1/2	14-1/2	7-90K-TM-R-0625-S
	6	3	2000	8	1-1/2	14-3/4	7-90K-TM-R-0630-S
	8	2-1/2	2000	10-1/2	2-1/4	16-3/4	7-90K-TM-R-0825-S
	8	3	2500	10-1/2	2-1/4	17-3/4	7-90K-TM-R-0830-S
	10	3	2900	12-1/2	2-1/2	20-1/2	7-90K-TM-R-1030-S
	12	3	3500	15-1/2	3	22-1/2	7-90K-TM-R-1230-S
VULKOLLAN™ / CAST IRON CORE (VU/CA) WHEELS WITH PRECISION BALL BEARINGS							
	6	2-1/2	2350	8	1-1/2	20-1/2	7-90K-VU/CA-P-0625-S
	6	3	3000	8	1-1/2	26	7-90K-VU/CA-P-0630-S
	8	2-1/2	2900	10-1/2	2-1/4	22-1/2	7-90K-VU/CA-P-0825-S
	8	3	4000	10-1/2	2-1/4	22-1/4	7-90K-VU/CA-P-0830-S
	10	3	5000	12-1/2	2-1/2	31	7-90K-VU/CA-P-1030-S
VULKOLLAN™ THICK TREAD / CAST IRON CORE (VU/TT/CA) WHEELS WITH PRECISION BALL BEARINGS							
	6	3	3000	8	1-1/2	26	7-90K-VU/TT/CA-P-0630-S
	8	3	4000	10-1/2	2-1/4	22-1/4	7-90K-VU/TT/CA-P-0830-S
	10	3	5000	12-1/2	2-1/2	31	7-90K-VU/TT/CA-P-1030-S
POLYURETHANE THICK TREAD / CAST IRON CORE (PY/TT/CA) WHEELS WITH ROLLER BEARINGS							
	6	3	2040	8	1-1/2	26	7-90K-PY/TT/CA-P-0630-S
	8	3	2520	10-1/2	2-1/4	22-1/4	7-90K-PY/TT/CA-P-0830-S
	10	3	3000	12-1/2	2-1/2	31	7-90K-PY/TT/CA-P-1030-S
	12	3	3420	15-1/2	3	40	7-90K-PY/TT/CA-P-1230-S

(Continued on Next Page)

7-90K CASTER SPECIFICATIONS

Wheel Type (Wheel Code)	Diameter (in.)	Width (in.)	Capacity (lbs.)	OAH (in.)	Swivel Lead (in.)	Approx. Wt. (lbs.)	Swivel Part Number Add B, P, PL, R or T*
POLYURETHANE / CAST IRON CORE (PY/CA) WHEELS WITH ROLLER BEARINGS							
	3-1/4	3-1/4	850	5-1/8	2	12	7-90K-PY/CA-P-3232-S
	5	2-1/2	1290	6-1/2	2-1/4	15	7-90K-PY/CA-P-0525-S
	6	2-1/2	1620	8	1-1/2	20-1/2	7-90K-PY/CA-P-0625-S
	6	3	2000	8	1-1/2	26	7-90K-PY/CA-P-0630-S
	8	2-1/2	2000	10-1/2	2-1/4	22-1/2	7-90K-PY/CA-P-0825-S
	8	3	2500	10-1/2	2-1/4	22-1/4	7-90K-PY/CA-P-0830-S
	10	3	3000	12-1/2	2-1/2	31	7-90K-PY/CA-P-1030-S
	12	2-1/2	2200	15-1/2	3	31-1/2	7-90K-PY/CA-P-1225-S
	12	3	3500	15-1/2	3	40	7-90K-PY/CA-P-1230-S
POLYURETHANE / ALUMINUM CORE (PY/AL) WHEELS WITH ROLLER BEARINGS							
	4	3-1/4	1200	5-1/2	2	15	7-90K-PY/AL-P-0432-S
	8	2-1/2	2010	10-1/2	3	20-1/4	7-90K-PY/AL-P-0825-S
	8	3	2520	10-1/2	3	20-1/4	7-90K-PY/AL-P-0830-S
	10	2-1/2	2370	12-1/2	3-1/2	24-1/2	7-90K-PY/AL-P-1025-S
	10	3	3000	12-1/2	3-1/2	24-1/2	7-90K-PY/AL-P-1030-S
X-TREME PLUS SOLID POLYURETHANE (XP) WHEELS WITH PRECISION BEARINGS							
	8	2-1/2	2000	10-1/2	2-1/4	22-1/2	7-90K-XP-P-0825-S
	8	3	2000	10-1/2	2-1/4	22-1/4	7-90K-XP-P-0830-S
	10	2-1/2	2500	12-1/2	2-1/2	24-1/2	7-90K-XP-P-1025-S
	10	3	2500	12-1/2	2-1/2	31	7-90K-XP-P-1030-S
**SWIVEL-EAZ™ (DUAL-IN-ONE) 95A / FLAT TREAD (SWE/9/FT) WHEELS WITH 3/4" AXLE AND PRECISION BEARINGS							
	6	3	1900	8	2-1/4	26	7-90K-SWE/9/FT-P-0630-S
	8	3	3000	10-1/2	2-1/4	28	7-90K-SWE/9/FT-P-0830-S
	10	3	3500	12-1/2	2-1/2	31	7-90K-SWE/9/FT-P-1030-S
**SWIVEL-EAZ™ (DUAL-IN-ONE) 80A / FLAT TREAD (SWE/8/FT) WHEELS WITH 3/4" AXLE AND PRECISION BEARINGS							
	6	3	1400	8	2-1/4	26	7-90K-SWE/8/FT-P-0630-S
	8	3	2300	10-1/2	2-1/4	28	7-90K-SWE/8/FT-P-0830-S
	10	3	3500	12-1/2	2-1/2	31	7-90K-SWE/8/FT-P-1030-S
**SWIVEL-EAZ™ (DUAL-IN-ONE) 70A / FLAT TREAD (SWE/7/FT) WHEELS WITH 3/4" AXLE AND PRECISION BEARINGS							
	6	3	900	8	2-1/4	26	7-90K-SWE/7/FT-P-0630-S
	8	3	1400	10-1/2	2-1/4	28	7-90K-SWE/7/FT-P-0830-S
	10	3	2200	12-1/2	2-1/2	31	7-90K-SWE/7/FT-P-1030-S
**SWIVEL-EAZ™ (DUAL-IN-ONE) 60D / FLAT TREAD (SWE/6/FT) WHEELS WITH 3/4" AXLE AND PRECISION BEARINGS							
	6	3	2200	8	2-1/4	26	7-90K-SWE/6/FT-P-0630-S
	8	3	3500	10-1/2	2-1/4	28	7-90K-SWE/6/FT-P-0830-S
	10	3	3500	12-1/2	2-1/2	31	7-90K-SWE/6/FT-P-1030-S
MOLDON RUBBER / CAST IRON CORE (MR/CA) WHEELS WITH ROLLER BEARINGS							
	6	2-1/2	700	8	3	20-1/2	7-90K-MR/CA-P-0625-S
	6	3	750	8	3	20-3/4	7-90K-MR/CA-P-0630-S
	8	2-1/2	850	10-1/2	3	20-1/4	7-90K-MR/CA-P-0825-S
	8	3	900	10-1/2	3	22-1/4	7-90K-MR/CA-P-0830-S
	10	2-1/2	950	12-1/2	3-1/2	24-1/2	7-90K-MR/CA-P-1025-S
	10	3	1000	12-1/2	3-1/2	25-1/4	7-90K-MR/CA-P-1030-S
	12	3	1200	15-1/2	3	30-3/4	7-90K-MR/CA-P-1230-S
X-TRA SOFT RUBBER / DONUT TREAD (XSR/DT) WHEELS WITH ROLLER BEARINGS							
	10	2-1/2	950	12-1/2	3-1/2		7-90K-XSR/DT-P-1025-S

*Add "B" for Ball Bearing, "P" for Precision Bearing, "PL" for Plain Bearing, "R" for Roller Bearing or "T" for Tapered Bearing

All load ratings are for manual operation at 2 mph.

For rigid casters, change "S" to "R" (i.e. 7-90K-PB-P-0415-S becomes 7-90K-PB-P-0415-R)

All Rig Options should be added to the end of the part number. (i.e. 7-90K-PB-P-0415-SL for Swivel Lock)

**Also available in Flat Tread (70A, 80A, 95A and 60D) and Crown Tread (70A, 80A, 95A and 60D).

7-90KHD CONSTRUCTION FEATURES

Load Capacity Up to 5000 lbs.

- Single piece forged alloy steel top plate and fork base
- Precision, double-ball raceways, CNC machined
- Induction hardening of raceway ensures uniform depth of hardness
- Totally sealed swivel head
- 3/8 in. thick x 3 in. wide fork legs robotically welded inside and outside to 3-1/2 in. fork spacing
- 3/4 in. wheel axle
- Finish is bright zinc plated or polymer (any color)
- Dual wheel casters available



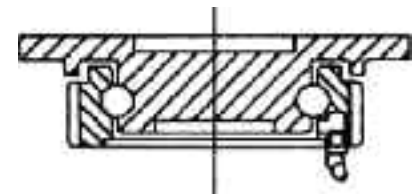
RIG OPTIONS

- DL** 4-Way Directional Lock
TL/LE Total Lock / Leading Edge
FCB Face Contact Brake

TOP PLATE OPTIONS

- Top Plate:** 5-1/4" x 7-1/4"
Bolt Hole Centers: 4-1/8" x 6-1/8"
 slotted to 3-3/8" x 5-1/4"
Attaching Bolt: 1/2"

SWIVEL CROSS SECTION



The Swivel-EAZ™ (Dual-in-One) wheel easily turns a single wheel caster rig into a dual wheel premium urethane tread caster. The Swivel-EAZ™ (Dual-in-One) wheels, designed originally for the automotive industry, is now a best value solution for manual or towing applications (Up to 8 mph) in many other industries.

Available in 4 Durometers: **70A (Black)**, **80A (Red)**, **95A (Blue)** and **60D (Gray)**



Nylacron™ Wheels

With Precision Ball Bearings for Any Application: (NY/MD, NY/HSB, NY/MC, NY/GF)
 Nylacron™ wheels with proper sized precision bearings are made to fit in any rig hub length and axle size. Nylacron™ wheels have greater load capacity ratings with better rollability while requiring less maintenance and have longer life.

7-90KHD CASTERS with PRECISION BALL BEARING WHEELS

Swivel Part Number	Rigid Part Number	Swivel Part Number with Rig Option (FCB)*	Dia. (in)	Width (in)	OAH (in)	Swl. Rad. (in)	Cap. (lb)
FORGED STEEL (FS) WHEELS WITH PRECISION BALL BEARINGS							
7-90KHD-FS-P-0630-S	7-90KHD-FS-P-0630-R	7-90KHD-FS-P-0630-S-FCB	6	3	8	5-1/8	5000
7-90KHD-FS-P-0830-S	7-90KHD-FS-P-0830-R	7-90KHD-FS-P-0830-S-FCB	8	3	10-1/2	6-1/4	5000
7-90KHD-FS-P-1030-S	7-90KHD-FS-P-1030-R	7-90KHD-FS-P-1030-S-FCB	10	3	12-1/2	7-3/4	5000
7-90KHD-FS-P-1230-S	7-90KHD-FS-P-01230-R	7-90KHD-FS-P-1230-S-FCB	12	3	15-1/2	9-3/8	5000
DUCTILE IRON (DU) WHEELS WITH PRECISION BALL BEARINGS							
7-90KHD-DU-P-0630-S	7-90KHD-DU-P-0630-R	7-90KHD-DU-P-0630-S-FCB	6	3	8	5-1/8	3500
7-90KHD-DU-P-0830-S	7-90KHD-DU-P-0830-R	7-90KHD-DU-P-0830-S-FCB	8	3	10-1/2	6-1/4	5000
7-90KHD-DU-P-1030-S	7-90KHD-DU-P-1030-R	7-90KHD-DU-P-1030-S-FCB	10	3	12-1/2	7-3/4	5000
7-90KHD-DU-P-1230-S	7-90KHD-DU-P-01230-R	7-90KHD-DU-P-1230-S-FCB	12	3	15-1/2	9-3/8	5000
NYLACRON™ MD (NY/MD) WHEELS WITH PRECISION BALL BEARINGS							
7-90KHD-NY/MD-P-0630-S	7-90KHD-NY/MD-P-0630-R	7-90KHD-NY/MD-P-0630-S-FCB	6	3	8	5-1/8	5500
7-90KHD-NY/MD-P-0830-S	7-90KHD-NY/MD-P-0830-R	7-90KHD-NY/MD-P-0830-S-FCB	8	3	10-1/2	6-1/4	5500
7-90KHD-NY/MD-P-1030-S	7-90KHD-NY/MD-P-1030-R	7-90KHD-NY/MD-P-1030-S-FCB	10	3	12-1/2	7-3/4	5500
7-90KHD-NY/MD-P-1230-S	7-90KHD-NY/MD-P-01230-R	7-90KHD-NY/MD-P-1230-S-FCB	12	3	15-1/2	9-3/8	5500
SOLID ELASTOMER (SE) WHEELS WITH PRECISION BALL BEARINGS							
7-90KHD-SE-P-0630-S	7-90KHD-SE-P-0630-R	7-90KHD-SE-P-0630-S-FCB	6	3	8	5-1/8	2500
7-90KHD-SE-P-0830-S	7-90KHD-SE-P-0830-R	7-90KHD-SE-P-0830-S-FCB	8	3	10-1/2	6-1/4	2600
7-90KHD-SE-P-1030-S	7-90KHD-SE-P-1030-R	7-90KHD-SE-P-1030-S-FCB	10	3	12-1/2	7-3/4	3000
7-90KHD-SE-P-1230-S	7-90KHD-SE-P-01230-R	7-90KHD-SE-P-1230-S-FCB	12	3	15-1/2	9-3/8	3400
URETHANE / CAST IRON CORE / DONUT TREAD (UR/CA/DT) WHEELS WITH PRECISION BALL BEARINGS							
7-90KHD-UR/CA/DT-P-0630-S	7-90KHD-UR/CA/DT-P-0630-R	7-90KHD-UR/CA/DT-P-0630-S-FCB	6	3	8	5-1/8	1850
7-90KHD-UR/CA/DT-P-0830-S	7-90KHD-UR/CA/DT-P-0830-R	7-90KHD-UR/CA/DT-P-0830-S-FCB	8	3	10-1/2	6-1/4	2400
7-90KHD-UR/CA/DT-P-1030-S	7-90KHD-UR/CA/DT-P-1030-R	7-90KHD-UR/CA/DT-P-1030-S-FCB	10	3	12-1/2	7-3/4	2850
7-90KHD-UR/CA/DT-P-1230-S	7-90KHD-UR/CA/DT-P-01230-R	7-90KHD-UR/CA/DT-P-1230-S-FCB	12	3	15-1/2	9-3/8	5000
HEAVY DUTY URETHANE / CAST IRON CORE (UR/HD/CA) WHEELS WITH PRECISION BALL BEARINGS							
7-90KHD-UR/HD/CA-P-0630-S	7-90KHD-UR/HD/CA-P-0630-R	7-90KHD-UR/HD/CA-P-0630-S-FCB	6	3	8	5-1/8	2300
7-90KHD-UR/HD/CA-P-0830-S	7-90KHD-UR/HD/CA-P-0830-R	7-90KHD-UR/HD/CA-P-0830-S-FCB	8	3	10-1/2	6-1/4	3100
7-90KHD-UR/HD/CA-P-1030-S	7-90KHD-UR/HD/CA-P-1030-R	7-90KHD-UR/HD/CA-P-1030-S-FCB	10	3	12-1/2	7-3/4	4000
7-90KHD-UR/HD/CA-P-1230-S	7-90KHD-UR/HD/CA-P-01230-R	7-90KHD-UR/HD/CA-P-1230-S-FCB	12	3	15-1/2	9-3/8	4800
POLYURETHANE / CAST IRON CORE (PY/CA) WHEELS WITH PRECISION BALL BEARINGS							
7-90KHD-PY/CA-P-0630-S	7-90KHD-PY/CA-P-0630-R	7-90KHD-PY/CA-P-0630-S-FCB	6	3	8	5-1/8	2100
7-90KHD-PY/CA-P-0830-S	7-90KHD-PY/CA-P-0830-R	7-90KHD-PY/CA-P-0830-S-FCB	8	3	10-1/2	6-1/4	2500
7-90KHD-PY/CA-P-1030-S	7-90KHD-PY/CA-P-1030-R	7-90KHD-PY/CA-P-1030-S-FCB	10	3	12-1/2	7-3/4	3000
7-90KHD-PY/CA-P-1230-S	7-90KHD-PY/CA-P-01230-R	7-90KHD-PY/CA-P-1230-S-FCB	12	3	15-1/2	9-3/8	3500
**SWIVEL-EAZ™ (DUAL-IN-ONE) 95A / FLAT TREAD (SWE/9/FT) WHEELS WITH 3/4" AXLE AND PRECISION BEARINGS							
7-90KHD-SWE/9/FT-P-0630-S	7-90KHD-SWE/9/FT-P-0630-R	7-90KHD-SWE/9/FT-P-0630-S-TL/LE	6	3	8	3-5/8	1900
7-90KHD-SWE/9/FT-P-0830-S	7-90KHD-SWE/9/FT-P-0830-R	7-90KHD-SWE/9/FT-P-0830-S-TL/LE	8	3	10-1/2	4-5/8	2000
7-90KHD-SWE/9/FT-P-1030-S	7-90KHD-SWE/9/FT-P-1030-R	7-90KHD-SWE/9/FT-P-1030-S-TL/LE	10	3	12-1/2	5-1/4	2000
ELASTIC RUBBER / CAST IRON CORE (ER/CA) WHEELS WITH PRECISION BALL BEARINGS							
7-90KHD-ER/CA-P-0630-S	7-90KHD-ER/CA-P-0630-R	7-90KHD-ER/CA-P-0630-S-FCB	6	3	8	5-1/8	950
7-90KHD-ER/CA-P-0830-S	7-90KHD-ER/CA-P-0830-R	7-90KHD-ER/CA-P-0830-S-FCB	8	3	10-1/2	6-1/4	1200
7-90KHD-ER/CA-P-1030-S	7-90KHD-ER/CA-P-1030-R	7-90KHD-ER/CA-P-1030-S-FCB	10	3	12-1/2	7-3/4	1650
7-90KHD-ER/CA-P-1230-S	7-90KHD-ER/CA-P-01230-R	7-90KHD-ER/CA-P-1230-S-FCB	12	3	15-1/2	9-3/8	1850

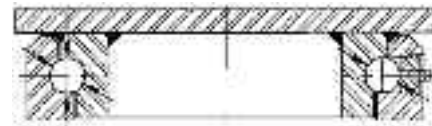
Nylacron™ (NY/MD and NY/MC) wheels available in every size caster rig. Additional wheels available, consult Acorn™

*Add Rig Options to the end of each part number (i.e 7-90KHD-PY/CA-P-0630-S-WFB for Wheel Face Brake)

**Also available in Flat Tread (70A, 80A, 95A and 60D) and Crown Tread (70A, 80A, 95A and 60D).

7-90K/DW - DUAL WHEEL KINGPINLESS CASTER**Load Capacity Up to 7,000 lbs.**

- Raceway Design: Patented Kingpinless single ball bearing precision machined raceway hardened to 53 Rockwell C. minimum.
- Swivel Section: Features a 3" diameter raceway with 1/2" ball bearings. Notched yoke is standard.
- Axle: 3/4" bolt with locking or slotted nut as required
- Finish: Zinc-plated or Laguna Blue
- Wheels: Wheels are available with either 1" roller bearings which rotate on hardened and ground spanner bushings or 3/4" tapered bearings that rotate on the axle. All wheels are equipped with a lubrication fitting.
- Mounting Plate Size: 5-1/4" x 7-1/4" x 3/8"
- Bolt Hole Spacing: 4-1/8" x 6-1/8" slotted to 3-3/8" x 5-1/4"
- Mounting Bolt Diameter: 1/2"
- Leg Thickness: 3/8"

**SWIVEL CROSS SECTION****RIG OPTIONS**

CWB	Cam Wheel Brake
DSL*	Demountable Swivel Lock*
HDSL	Heavy Duty Demountable Swivel Lock
HT	High Temperature Lubrication
LT	Low Temperature Lubrication
PCWB	Poly Cam Wheel Brake
SL**	Swivel Lock**
WS	Wheel Seals
ZP	Zinc Plating

*When ordering a DSL, you must also order the NY.

**Add 1/4" to overall height for swivel lock (SL) casters with 4" and 5" wide wheels.

MOUNTING PLATE (SWIVEL / RIGID)

Top Plate	Plate Size	Bolt Hole Spacing	Bolt Size
90	5-1/4 x 7-1/4"	4-1/8" x 6-1/8" slotted to 3-3/8" x 5-1/4"	1/2"
90ST	6" x 7"	4-5/8" x 5-1/2" slotted to 4-3/8" x 5-5/8"	1/2"
43	5" x 5-1/2"	4-1/8" x 4-1/2"	3/8"
95	6" x 7-1/2"	4-1/2" x 6" slotted to 4-1/8" x 6-1/8"	1/2"
75	4-1/2" x 6-1/2"	2-7/16" x 4-15/16" slotted to 3-3/8" x 5-1/4"	1/2"

Dimensions shown are nominal. If precise dimensions are required, consult Acorn™. For approximate weight of our rigid casters, deduct 5 1/2 pounds per item.



The Swivel-EAZ™ (Dual-in-One) wheel easily turns a single wheel caster rig into a dual wheel premium urethane tread caster. The Swivel-EAZ™ (Dual-in-One) wheels, designed originally for the automotive industry, is now a best value solution for manual or towing applications (Up to 8 mph) in many other industries.

Available in 4 Durometers: 70A (Black), 80A (Red), 95A (Blue) and 60D (Gray)

**Nylacron™ Wheels**

With Precision Ball Bearings for Any Application: (NY/MD, NY/HSB, NY/MC, NY/GF)

Nylacron™ wheels with proper sized precision bearings are made to fit in any rig hub length and axle size. Nylacron™ wheels have greater load capacity ratings with better rollability while requiring less maintenance and have longer life.

7-90K/DW DUAL WHEEL KINGPINLESS CASTER SPECIFICATIONS

Wheel Type (Wheel Code)	Diameter (in.)	Width (in.)	Capacity (lbs.)	OAH (in.)	Swivel Lead (in.)	Approx. Wt. (lbs.)	Swivel Part Number Add B, P, PL, R or T*
CAST IRON (CA) WHEELS WITH TAPERED ROLLER BEARINGS							
	6	3	6000	8-1/16	2-1/16	39	7-90K/DW-CA-T-0630-S
	8	2-1/2	4000	10-1/2	2-3/4	52	7-90K/DW-CA-T-0825-S
	8	3	5000	10-1/2	2-3/4	55	7-90K/DW-CA-T-0830-S
	10	2-1/2	5000	12-1/2	3-1/4	64	7-90K/DW-CA-T-1025-S
NYLACRON™ MD (NY/MD) WHEELS WITH PRECISION BALL BEARINGS							
	6	2-1/2	7000	8-1/16	2-1/16	23	7-90K/DW-NY/MD-P-0625-S
	6	3	7000	8-1/16	2-1/16	27	7-90K/DW-NY/MD-P-0630-S
	8	2-1/2	7000	10-1/2	2-3/4	31	7-90K/DW-NY/MD-P-0825-S
	8	3	7000	10-1/2	2-3/4	34	7-90K/DW-NY/MD-P-0830-S
	10	2-1/2	7000	12-1/2	3-1/4	36	7-90K/DW-NY/MD-P-1025-S
	10	3	7000	12-1/2	3-1/4	40	7-90K/DW-NY/MD-P-1030-S
	12	2-1/2	7000	15-1/2	4-1/8	43	7-90K/DW-NY/MD-P-1225-S
	12	3	7000	15-1/2	4-1/8	47	7-90K/DW-NY/MD-P-1230-S
PHENOLIC / TEXITE (TM) WHEELS WITH ROLLER BEARINGS							
	6	2-1/2	3200	8-1/16	2-1/16	22	7-90K/DW-TM-R-0625-S
	6	3	4000	8-1/16	2-1/16	24	7-90K/DW-TM-R-0630-S
	8	2-1/2	4000	10-1/2	2-3/4	29	7-90K/DW-TM-R-0825-S
	8	3	5000	10-1/2	2-3/4	30	7-90K/DW-TM-R-0830-S
	10	2-1/2	5000	12-1/2	3-1/4	32	7-90K/DW-TM-R-1025-S
	10	3	5400	12-1/2	3-1/4	34	7-90K/DW-TM-R-1030-S
	12	2-1/2	6000	15-1/2	4-1/8	44	7-90K/DW-TM-R-1225-S
	12	3	7000	15-1/2	4-1/8	47	7-90K/DW-TM-R-1230-S
URETHANE / CAST IRON CORE (UR/CA) WHEELS WITH PRECISION BALL BEARINGS							
	6	2-1/2	3240	8-1/16	2-1/16	40	7-90K/DW-UR/CA-P-0625-S
	6	3	4000	8-1/16	2-1/16	42	7-90K/DW-UR/CA-P-0630-S
	8	2-1/2	3600	10-1/2	2-3/4	49	7-90K/DW-UR/CA-P-0825-S
	8	3	5000	10-1/2	2-3/4	52	7-90K/DW-UR/CA-P-0830-S
	10	2-1/2	4740	12-1/2	3-1/4	59	7-90K/DW-UR/CA-P-1025-S
	10	3	6000	12-1/2	3-1/4	61	7-90K/DW-UR/CA-P-1030-S
	12	2-1/2	5400	15-1/2	4-1/8	76	7-90K/DW-UR/CA-P-1225-S
	12	3	6800	15-1/2	4-1/8	88	7-90K/DW-UR/CA-P-1230-S
URETHANE / THICK TREAD / CAST IRON CORE (UR/TT/CA) WHEELS WITH PRECISION BALL BEARINGS							
	10	3	6000	12-1/2	3-1/4	61	7-90K/DW-UR/TT/CA-P-1030-S
	12	3	6800	15-1/2	4-1/8	90	7-90K/DW-UR/TT/CA-P-1230-S
SWIVEL-EAZ™ (DUAL-IN-ONE) URETHANE 95A / FLAT TREAD (SWE/9/FT) WHEELS WITH PRECISION BALL BEARINGS							
	6	3	3800	8-1/16	2-1/16	27	7-90K/DW-SWE/9/FT-P-0630-S
	8	3	6000	10-1/2	2-3/4	34	7-90K/DW-SWE/9/FT-P-0830-S
	10	3	9600	12-1/2	3-1/4	40	7-90K/DW-SWE/9/FT-P-1030-S
MOLDON RUBBER / CAST IRON CORE (MR/CA) WHEELS WITH ROLLER BEARINGS							
	6	2-1/2	1080	8-1/16	2-1/16	40	7-90K/DW-MR/CA-R-0625-S
	6	3	1360	8-1/16	2-1/16	42	7-90K/DW-MR/CA-R-0630-S
	8	2-1/2	1340	10-1/2	2-3/4	49	7-90K/DW-MR/CA-R-0825-S
	8	3	1680	10-1/2	2-3/4	52	7-90K/DW-MR/CA-R-0830-S
	10	2-1/2	1580	12-1/2	3-1/4	59	7-90K/DW-MR/CA-R-1025-S
	10	3	2000	12-1/2	3-1/4	61	7-90K/DW-MR/CA-R-1030-S
	12	2-1/2	1800	15-1/2	4-1/8	76	7-90K/DW-MR/CA-R-1225-S
	12	3	2280	15-1/2	4-1/8	88	7-90K/DW-MR/CA-R-1230-S

*Add "B" for Ball Bearing, "P" for Precision Bearing, "PL" for Plain Bearing, "R" for Roller Bearing or "T" for Tapered Bearing
 Dimensions shown are nominal. If precise dimensions are required, consult Acorn™. Additional wheels available.

7-90K/SA & 7-90KHD/SA FEATURES

Load Capacity Up to 2000 lbs.

- Load Springs: Different load springs for permits wide variation in ride "softness."
- Complete Line: Available on all 6-81K SA and 6-81KHD SA series Kingpinless models. Consult Acorn™ for more information.
- Swivel Section: Kingpinless design. Ball bearing mounted in a machined raceway.
- Axle: 3/4" diameter standard. Optional 1" diameter available.

Consult Acorn™ for all Kingpinless Spring Loaded Applications.

KEY FEATURE

7-90K/SA and 7-90KHD/SA spring loaded casters offer greater capacity and protection from damaging shock or unwanted vibration and movement. Noise levels are reduced through the dampening effect of these casters.

TYPICAL APPLICATIONS

- Aviation Ground Support
- Aircraft tripod jacks
- Portable medical equipment
- Computer equipment
- Shock sensitive loads

WHEEL TYPES

WHEEL TYPES	WHEEL CODE	BEARING
Nylacron™ MD	NY/MD	Precision Ball
Urethane 80A / Cast Iron Core	UR8/CA	Precision Ball
Urethane 95A / Cast Iron Core	UR9/CA	Precision Ball
Thick Tread Polyurethane	PY/TT	Precision Ball
Vulkollan™ / Cast Iron Core	VU/CA	Precision Ball
Vulkollan™ Thick Tread	VU/TT	Precision Ball

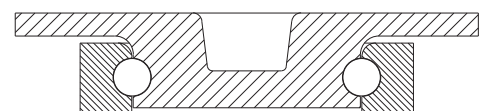
Additional wheels available, consult Acorn™.



7-90K/SA CROSS SECTION



7-90KHD/SA CROSS SECTION



7-90K/SA SPECIFICATIONS (YA = RIG ONLY)

Dia. (in.)	Width (in.)	Cap. at 50% Whl. Defl. (lbs.)	Total Whl. Deflection	OAH (no load)	Swl Lead (in.)	Swl Radius (in.)	Swivel Part Number
6	2-1/2	2000	1.30"	10.88"	4.88	8	7-90K/SA-YA-06401S
6	3	2000	1.30"	10.88"	4.88	8.06	7-90K/SA-YA-06501S
8	2-1/2	2000	1.30"	11.88"	4.88	9	7-90K/SA-YA-08401S
8	3	2000	1.30"	11.88"	4.88	9.06	7-90K/SA-YA-08501S
10	2-1/2	2000	1.30"	14"	4.88	10	7-90K/SA-YA-10401S
10	3	2000	1.30"	14"	4.88	10.06	7-90K/SA-YA-10501S
12	2-1/2	2700	1.30"	16"	5.69	11.81	7-90K/SA-YA-12401S
12	3	3000	1.30"	16"	5.69	11.88	7-90K/SA-YA-12501S

For rigid casters, change "S" to "R" (i.e. 7-90K/SA-YA-06401S01 becomes 7-90K/SA-YA-06401R01)

Consult Acorn™ for all Kingpinless Spring Loaded Applications.

7-90KHD/SA SPECIFICATIONS (YA = RIG ONLY)

Dia. (in.)	Width (in.)	Cap. at 50% Whl. Defl. (lbs.)	Total Whl. Deflection	OAH (no load)	Swl Lead (in.)	Swl Radius (in.)	Swivel Part Number
6	2-1/2	2000	1.30"	10.88"	4.88"	8	7-90KHD/SA-YA-06401S
6	3	2000	1.30"	10.88"	4.88"	8.06	7-90KHD/SA-YA-06501S
8	2-1/2	2000	1.30"	11.88"	4.88"	9.00	7-90KHD/SA-YA-08401S
8	3	2000	1.30"	11.88"	4.88"	9.06	7-90KHD/SA-YA-08501S
10	2-1/2	2000	1.30"	14"	4.88"	10	7-90KHD/SA-YA-10401S
10	3	2000	1.30"	14"	4.88"	10.06	7-90KHD/SA-YA-10501S
12	3	3000	1.30"	16"	5.69"	11.88	7-90KHD/SA-YA-12501S

For rigid casters, change "S" to "R" (i.e. 7-90KHD/SA-YA-06401S01 becomes 7-90KHD/SA-YA-06401R01)

Consult Acorn™ for all Kingpinless Spring Loaded Applications.

MOUNTING PLATE (7-90K/SA)

Top Plate	Plate Size	Bolt Hole Spacing	Bolt Size
90S (Swivel)	5 1/4" x 7 1/4"	4 1/8" x 6 1/8" slotted to 3 3/8" x 5 1/4"	1/2"
90R (Rigid)	5" x 7 1/4"	4 1/8" x 6 1/8" slotted to 3 3/8" x 5 1/4"	1/2"
KS (Swivel)	4 1/2" x 6 1/4"	3 3/8" x 5 1/4" slotted to 2 7/16" x 4 15/16"	1/2"
KR (Rigid)	5" x 6 1/4"	3 3/8" x 5 1/4" slotted to 2 7/16" x 4 15/16"	1/2"
R	6 1/4" x 7 1/2"	6" x 4 1/2" slotted to 6" x 4 1/8"	1/2"
S	6" x 7"	4 5/8" x 5 5/8" slotted to 4 3/8" x 5 1/2"	1/2"

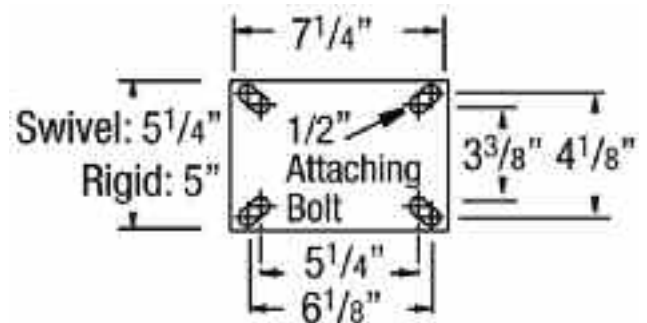
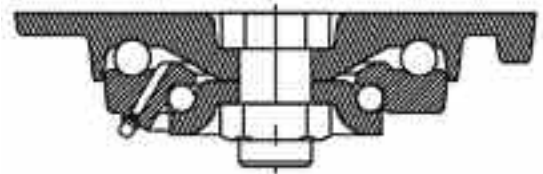
MOUNTING PLATE (7-90KHD/SA)

Top Plate	Plate Size	Bolt Hole Spacing	Bolt Size
90S (Swivel)	5 1/4" x 7 1/4"	4 1/8" x 6 1/8" slotted to 3 3/8" x 5 1/4"	1/2"
90R (Rigid)	5" x 7 1/4"	4 1/8" x 6 1/8" slotted to 3 3/8" x 5 1/4"	1/2"
S	6" x 7"	4 5/8" x 5 5/8" slotted to 4 3/8" x 5 1/2"	1/2"

7-90/SA SHOCK ABSORBING CASTERS

Load Capacity Up to 1500 lbs.

- Designed with greater load capacity than our 40 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.
- 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

NS	Neoprene Sealed Swivel Section
ZF	Hollow Axle
SSB	Single Side Brake
DSB	Double Side Brake
SL	Swivel Lock

Top Plate

Top Plate: 7-1/4" x 5-1/4"

Bolt Hole Centers: 6-1/8" x 4-1/8"

slotted to 5-1/4" x 3-3/8"

Attaching Bolt: 1/2"

Typical Applications

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

7-90/SA SHOCK ABSORBING CASTER SPECIFICATIONS

Wheel Type (Wheel Code)	Diameter (in.)	Width (in.)	Capacity (lbs.)	OAH (in.)	Swivel Lead (in.)	Approx. Wt. (lbs.)	Bearing Part Number Add B, P, PL, R or T*
Polyurethane / Cast Iron Core (PY/CA) with Precision Ball Bearing							
	10	3	1500	13-1/2	3	49	7-90/SA-PY/CA-P-1030-S
	12	3	1500	15-1/2	3	56	7-90/SA-PY/CA-P-1230-S
Vulkollan™ / Cast Iron Core (VU/CA) with Precision Ball Bearing							
	10	3	1500	13-1/2	3	49	7-90/SA-VU/CA-P-1030-S
	12	3	1500	15-1/2	3	57	7-90/SA-VU/CA-P-1230-S
Polyurethane / Aluminum Core (PY/AL) with Precision Ball Bearing							
	10	3	1500	13-1/2	3	38	7-90/SA-PY/AL-P-1030-S
	12	3	1500	15-1/2	3	45	7-90/SA-PY/AL-P-1230-S
Moldon Rubber / Cast Iron Core (MR/CA) with Precision Ball Bearing							
	10	3	1000	13-1/2	3	42	7-90/SA-MR/CA-P-1030-S
	12	3	1200	15-1/2	3	47	7-90/SA-MR/CA-P-1230-S

*Add "B" for Ball Bearing, "P" for Precision Bearing, "PL" for Plain Bearing, "R" for Roller Bearing or "T" for Tapered Bearing.

All load ratings are for manual operation at 2 mph.

For rigid casters, change "S" to "R" (i.e. 7-90/SA-PB-R-0415-S becomes 7-90/SA-PB-R-0415-R)

See Wheel Section 12 for other premium wheels to fit 2-1/2" hub length / 1/2" axle / nut.

ACORN™ IN-PLANT SURVEY

A simple, safe & ergonomic operating practice for any caster application:
Each caster on the equipment should be rated at an amount equal to the total load.

ACORN PRODUCT SURVEY

Equipment Name / Type: _____

Measurements: _____

Maximum Capacity:

Contents + Container Weight = _____ lbs

Is Overload Possible? ___ Yes ___ No

Shock Loads? ___ Yes ___ No

Heavier Loads in Future? ___ Yes ___ No

If Yes, _____ lbs

Floor Material: _____

Floor Condition: _____

Operating Environmental Factors: (Noise, Speed, Abuse, Extreme
Temperature, Oils, Constant Moisture, Other _____

Movement: ___ Manual Operation ___ Power/Towing Operation

Power: ___ High Speed ___ Side Thrust

CASTER MOUNTING PATTERN

Conventional: _____

Diamond: _____

4-Wheel: _____

6-Wheel: _____

Other: _____

ACCESSORIES / OPTIONS

Swivel Locks (SL): _____

Wheel Brakes (WB): _____

Total Lock Brakes (TL): _____

Floor Locks (FL): _____

Other: _____

TOP PLATE / CASTER CONSTRUCTION

Present Top Plate Size: _____ x _____ in / mm

Present Bolt Hole Pattern: _____ x _____ in / mm

Slotted To: _____ x _____ in / mm

Present Overall Height: _____ in / mm

Present Swivel Radius: _____ in / mm

Rig Construction: ___ Stamped ___ Cold Forged

 ___ Hot Forged ___ Kingpinless

 ___ Stainless Steel ___ Welded Legs

Notes: _____

WHEEL OPTIONS

Wheel Diameter: _____

Tread Width: _____

Bearing Type: _____

Other: _____

Acorn Recommendations: _____

