



CASTER CONCEPTS

91 SERIES EXTRA HEAVY DUTY CASTERS 20,000 ^{maximum capacity} LBS *FOR SEVERE DUTY*

FEATURES

Swivel Section: Constructed of hot forged C-1045 steel, the single ball race design features 7/8" diameter load/thrust ball bearings in a 7" diameter precision machined load raceway

Kingpin: Kingpinless style design

Legs: 1/2" x 4" legs are formed and continuously welded both inside and outside for greater strength

Axle: 1-1/4", Grade 5

Lubrication: Pre-lubricated before shipment

Wheels: 6" to 18" diameter wheels, 3" to 5" widths

Standard: Shielded swivel to reduce dust and dirt contamination

Finish: Gold dichromate plating



91-12509-65-1 shown

BENEFITS

The raceways of the 91 Series kingpinless style casters are precision machined and then through hardened to eliminate brinelling of the surface. This unique swivel design allows the main caster bearing to operate in shear where the load and thrust forces bear on the 7/8" diameter ball bearings. The 91 Series offers a high strength swivel section that will easily swivel under extreme loads.

APPLICATIONS

Specifically designed for severe applications, the 91 Series is ideal for die carts, tooling fixtures, aircraft engine stands, ground support equipment, aerospace A-frame skin dollies, portable jigs, large work platforms, mobile military equipment, aircraft maintenance stands and production line delivery trailers.

OPTIONS

Brakes

Poly Cam:	P*
Heavy Duty Tread:	HDT
Wrap Around:	W*
Face Contact:	F

Swivel Locks

Factory Installed:	L
Heavy Duty:	HDL
Demountable:	DL

Sealed Swivel: SSW

Sealed Wheels: SW

Toe Guard: TG

* For wheels with diameters ≥ 6 inches

Contact the factory for special finishes and overall heights.



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WHEEL		CAPACITY				PART NUMBER			
Dia.	Width	Material	Roller Bearing	Tapered	OAH	Swivel Lead	Straight Roller	Precision Tapered	Wt.
6	3.00	Forged Steel	6,000	10,000	9.50	2.25	91-06301-20-1	91-06309-20-1	60.0
6	3.00	H.D. Forged Steel		17,000	9.50	2.25		91-06309-21-1	60.0
6	4.00	H. D. Polyurethane	3,000	3,000	9.50	2.25	91-06401-65-1	91-06409-65-1	60.0
8	4.00	Forged Steel	8,400	10,000	11.00	2.25	91-08401-20-1	91-08409-20-1	73.0
8	4.00	H.D. Forged Steel		20,000	11.00	2.25		91-08409-21-1	73.0
8	4.00	Polyurethane	3,800	3,800	11.00	2.25	91-08401-60-1	91-08409-60-1	63.0
10	4.00	Forged Steel	8,400	10,000	13.00	2.50	91-10401-20-1	91-10409-20-1	83.0
10	4.00	H.D. Forged Steel		20,000	13.00	2.50		91-10409-21-1	83.0
10	4.00	Polyurethane	4,200	4,200	13.00	2.50	91-10401-60-1	91-10409-60-1	59.0
10	4.00	H.D. Polyurethane	5,000	5,000	13.00	2.50	91-10401-65-1	91-10409-65-1	68.0
10	4.00	Mold on Rubber	1,500	1,500	13.00	2.50	91-10401-70-1	91-10409-70-1	66.0
10	5.00	H.D. Polyurethane	6,000	6,000	13.00	2.50	91-10501-65-1	91-10509-65-1	68.0
10	5.00	70D Hard Polyurethane	7,200	7,200	13.00	2.50	91-10501-67-1	91-10509-67-1	68.0
12	4.00	Ductile Iron	7,500	7,500	15.50	2.50	91-12401-12-1	91-12409-12-1	90.0
12	4.00	H.D. Phenolic	8,000	8,000	15.50	2.50	91-12401-31-1	91-12409-31-1	68.0
12	4.00	H.D. Polyurethane	5,500	5,500	15.50	2.50	91-12401-65-1	91-12409-65-1	75.0
12	4.00	70D Hard Polyurethane	6,600	6,600	15.50	2.50	91-12401-67-1	91-12409-67-1	75.0
12	4.00	Mold on Rubber	1,600	1,600	15.50	2.50	91-12401-70-1	91-12409-70-1	71.0
12	5.00	Ductile Iron	10,000	15,000	15.50	2.50	91-12501-12-1	91-12509-12-1	135.0
12	5.00	H.D. Polyurethane	6,250	6,250	15.50	2.50	91-12501-65-1	91-12509-65-1	90.0
12	5.00	70D Hard Polyurethane	7,500	7,500	15.50	2.50	91-12501-67-1	91-12509-67-1	90.0
12	5.00	Mold on Rubber	1,850	1,850	15.50	2.50	91-12501-70-1	91-12509-70-1	88.0
14	5.00	Cast Iron	7,000	7,000	17.50	3.00	91-14501-10-1	91-14509-10-1	100.0
16	4.00	Laminated Phenolic	8,400	9,400	19.00	3.00	91-16401-35-1	91-16409-35-1	80.0
16	4.00	H.D. Polyurethane	6,000	6,000	19.00	3.00	91-16401-65-1	91-16409-65-1	109.0
16	4.00	Mold on Rubber	1,450	1,450	19.00	3.00	91-16401-70-1	91-16409-70-1	106.0
16	4.00	Cast Iron	7,500	7,500	19.00	3.00	91-16401-10-1	91-16409-10-1	110.0
16	5.00	H.D. Polyurethane	8,000	8,000	19.00	3.00	91-16501-60-1	91-16509-60-1	115.0
16	5.00	70D Hard Polyurethane	8,000	8,000	19.00	3.00	91-16501-67-1	91-16509-67-1	115.0
18	5.00	H.D. Polyurethane	8,000	8,000	21.00	4.00	91-18501-65-1	91-18509-65-1	125.0
18	5.00	70D Hard Polyurethane	9,000	9,000	21.00	4.00	91-18501-67-1	91-18509-67-1	125.0

Capacity listed is for manual operation. For powered operations, consult factory.
 Part Numbers listed are for the swivel casters. For rigid casters, change the last digit from 1 to 2 (i.e. 91-16509-67-2)
 Estimated weight is for swivel caster. Deduct 15 pounds for rigid casters.
 All dimensions are in inches. All weights are in pounds.

FOR TWICE THE LOAD CAPACITY, DUAL WHEELS ARE AVAILABLE. CONSULT THE FACTORY.

Top Plate Size	Bolt Hole Spacing	Bolt Diameter
Std: 8.5 x 8.5	7.0 x 7.0	0.625

91 Series Cross Sectional View

