

# 81

## SERIES KINGPINLESS STYLE

10,000 LBS maximum capacity

casterdepot.com



Item Shown: 2-81-14004501-60-1

### FEATURES

**Swivel Section:** Constructed from drop forged C-1045 steel. The swivel section features a large precision machined 4" single ball bearing load/thrust raceway. The unique design of this raceway actually places the 3/4" diameter load/thrust ball bearings in shear, locking the swivel section together.

**Legs:** 3/8" x 4" formed and continuously welded both inside and outside.

**Kingpin:** Kingpinless style design.

**Axle:** 1", Grade 5 axle.

**Lubrication:** Pre-lubricated before shipping.

**Wheels:** 6" to 12" diameter roller bearing wheels have a 1-1/4" I.D. bearing and rotate on a 1-1/4" hardened and ground steel spanner bushing. All tapered bearing wheels have a 1" tapered bearing and rotate on a 1" axle.

**Finish:** Gold dichromatic plating.

**Standard:** Shielded swivel.

### BENEFITS

The 81 Series kingpinless style casters feature a unique single ball race design. This design provides a high strength swivel section that will swivel easily under extremely heavy loads.

### OPTIONS

#### Brakes:

Poly Lock: ..... P\*  
 Wrap Around: ..... W\*  
 Face Contact: ..... F

#### Swivel Locks:

Factory Installed: ..... L  
 Heavy Duty: ..... HDL  
 Demountable: ..... DL  
 Heavy Duty Demountable: ..... DHDL

Sealed Swivel: ..... SSW

Sealed Wheels: ..... SW

Toe Guard: ..... TG

*For wheels with diameter > 6*

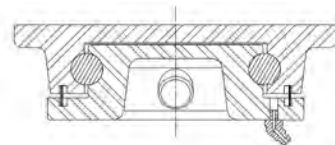
Contact the factory for special overall heights and finishes.  
 DUAL WHEEL DESIGN AVAILABLE

### APPLICATIONS

Suitable for power drawn applications, fiberglass mold dollies, aircraft wing and spar tooling, machinery, engine and paint line dollies, body dolly carts, material carts, chassis rack carts, towed trash gondolas, aircraft maintenance stands, production line delivery trailers and automated guided vehicles.

Top Plate Size	Bolt Hole Spacing	Bolt Diameter
Std: 6.25 x 7.63	4.5 x 6.0	0.5

### 81 Series Cross Sectional View



WHEEL			CAPACITY				PART NUMBER			
Dia.	Width	Material	Roller Bearing	Tapered	OAH	Swivel Lead	Straight Roller	Precision Tapered	Swivel Radius	Wt.
6	2.50	Forged Steel	4,000	5,000	8.50	2.50	81-06251-20-1	81-06259-20-1	5.64	38.00
6	3.00	H.D. T/R Polyurethane		1,640	8.50	2.50		81-06309-66-1	5.70	37.00
6	3.00	Standard Polyurethane	2,050	2,050	8.50	2.50	81-06301-60-1	81-06309-60-1	5.70	37.00
6	3.00	H.D. Standard Polyurethane	2,500	2,500	8.50	2.50	81-06301-65-1	81-06309-65-1	5.70	40.00
6	3.00	Laminated Phenolic	2,500	2,500	8.50	2.50	81-06301-35-1	81-06309-35-1	5.70	30.00
6	3.00	Forged Steel	6,000	10,000	8.50	2.50	81-06301-20-1	81-06309-20-1	5.70	45.00
6	3.00	Cast Iron	2,500	9,000	8.50	2.50	81-06301-10-1	81-06309-10-1	5.70	36.00
6	4.00	H.D. Standard Polyurethane	3,000	3,000	8.50	2.50	81-06401-65-1	81-06409-65-1	5.85	40.00
8	3.00	Mold On Rubber	825	825	10.50	2.50	81-08301-70-1	81-08309-70-1	6.67	37.00
8	3.00	H.D. T/R Polyurethane	2,500	2,500	10.50	2.50	81-08301-66-1	81-08309-66-1	6.67	45.00
8	3.00	Standard Polyurethane	2,500	2,500	10.50	2.50	81-08301-60-1	81-08309-60-1	6.67	40.00
8	3.00	H.D. Standard Polyurethane	3,100	3,100	10.50	2.50	81-08301-65-1	81-08309-65-1	6.67	45.00
8	3.00	Laminated Phenolic	3,000	3,000	10.50	2.50	81-08301-35-1	81-08309-35-1	6.67	32.00
8	3.00	Forged Steel	4,500	10,000	10.50	2.50	81-08301-20-1	81-08309-20-1	6.67	44.00
8	3.00	Cast Iron	3,500	3,500	10.50	2.50	81-08301-11-1	81-08309-11-1	6.67	40.00
8	4.00	Standard Polyurethane	3,800	3,800	10.50	2.50	81-08401-60-1	81-08409-60-1	6.80	48.00
8	4.00	Forged Steel	8,400	10,000	10.50	2.50	81-08401-20-1	81-08409-20-1	6.80	48.00
10	3.00	Mold On Rubber	1,000	1,000	12.50	2.50	81-10301-70-1	81-10309-70-1	7.65	50.00
10	3.00	H.D. T/R Polyurethane	2,800	2,800	12.50	2.50	81-10301-66-1	81-10309-66-1	7.65	55.00
10	3.00	Standard Polyurethane	3,000	3,000	12.50	2.50	81-10301-60-1	81-10309-60-1	7.65	49.00
10	3.00	H.D. Standard Polyurethane	3,700	3,700	12.50	2.50	81-10301-65-1	81-10309-65-1	7.65	55.00
10	3.00	Laminated Phenolic	3,250	3,250	12.50	2.50	81-10301-35-1	81-10309-35-1	7.65	36.00
10	3.00	H.D. Forged Steel	5,000	6,500	12.50	2.50	81-10301-21-1	81-10309-21-1	7.65	54.00
10	3.00	Cast Iron	4,000	4,000	12.50	2.50	81-10301-11-1	81-10309-11-1	7.65	50.00
10	4.00	Mold On Rubber	1,500	1,500	12.50	2.50	81-10401-70-1	81-10409-70-1	7.76	51.00
10	4.00	Standard Polyurethane	4,200	4,200	12.50	2.50	81-10401-60-1	81-10409-60-1	7.76	55.00
10	4.00	H.D. T/R Polyurethane		4,000	12.50	2.50		81-10409-66-1	7.76	60.00
10	4.00	H.D. Standard Polyurethane	5,000	5,000	12.50	2.50	81-10401-65-1	81-10409-65-1	7.76	60.00
10	4.00	Forged Steel	8,400	10,000	12.50	2.50	81-10401-20-1	81-10409-20-1	7.76	74.00
12	3.00	Mold On Rubber	1,125	1,125	15.50	2.50	81-12301-70-1	81-12309-70-1	8.63	55.00
12	3.00	Ductile Iron	6,500	6,500	15.50	2.50	81-12301-12-1	81-12309-12-1	8.63	70.00
12	3.00	H.D. T/R Polyurethane	2,900	2,900	15.50	2.50	81-12301-66-1	81-12309-66-1	8.63	57.00
12	3.00	H.D. Standard Polyurethane	3,850	3,850	15.50	2.50	81-12301-65-1	81-12309-65-1	8.63	53.00
12	3.00	Standard Polyurethane	3,500	3,500	15.50	2.50	81-12301-60-1	81-12309-60-1	8.63	53.00
12	4.00	Mold On Rubber	1,600	1,600	15.50	2.50	81-12401-70-1	81-12409-70-1	8.73	58.00
12	4.00	Ductile Iron	7,500	7,500	15.50	2.50	81-12401-12-1	81-12409-12-1	8.73	70.00
12	4.00	H.D. T/R Polyurethane	3,800	3,800	15.50	2.50	81-12401-66-1	81-12409-66-1	8.73	70.00
12	4.00	H.D. Standard Polyurethane	5,500	5,500	15.50	2.50	81-12401-65-1	81-12409-65-1	8.73	70.00
12	4.00	H.D. Hard Polyurethane (70D)	6,600	6,600	15.50	2.50	81-12401-67-1	81-12409-67-1	8.73	70.00

Capacity listed is for manual operation. For powered operations, consult factory.  
 Part Numbers listed are for the swivel casters. For rigid casters, change series to 80 and change the last digit from 1 to 2 (i.e. 80-12409-70-2)  
 Estimated weight is for swivel caster. Deduct 20 percent of swivel caster weight for rigid casters.  
 All dimensions are in inches. All weights are in pounds.