

90

90 Heavy Duty Casters

CAPACITY TO 3500

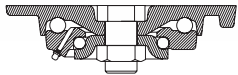


Our popular 90 Series is made from AISI 1045 drop forged steel and is highly recommended for rugged heavy duty applications.

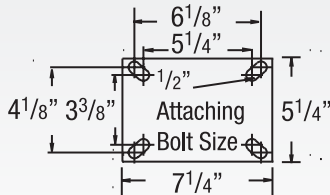
TYPICAL APPLICATIONS

- Heavy duty power drawn equipment
- High capacity die tables
- Portable work benches
- Machinery dollies
- Heavy production fixtures or jigs
- Corrugated steel box trucks
- Heavy portable storage racks

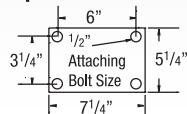
SWIVEL CROSS SECTION



MOUNTING OPTIONS Standard Plate



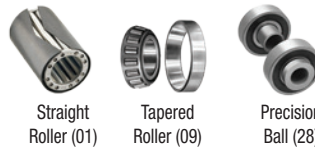
Special Order Plate Optional W Plate



FEATURES

- **Swivel Top Plate:** AISI 1045 drop forged steel, for strength and reliability
- **Yoke Base:** AISI 1045 drop forged steel with machined raceway for extended service life
- **Swivel Load Bearing:** 4" diameter deep-grooved load raceway with 1/2" steel balls for better load distribution. The thrust race is 2-5/8" diameter using 3/8" diameter steel balls for increased capacity
- **Legs:** 3/8" steel plate welded inside and out for added strength
- **King Bolt:** 1" diameter bolt heat treated for extended service
- **Axle:** 3/4" and 1" hollow axles are used for wheel bearing lubrication
- **Lubrication:** Zerk fitting in yoke base and in wheel hub or recessed in head of hollow axle
- Alternate or custom caster configurations available

BEARING OPTIONS



TOE GUARD



Specify **TOE** for caster integrated toe guard. Standard model toe guards are 1/2" from the floor. Consult factory for field installable options.

RIG OPTIONS

- **Sealed swivel** section specify **NS90**
- **Heat treated raceway** specify **HT03**
- **Tapered thrust bearing** option available for special order. Consult factory

BRAKE OPTIONS

To order, add brake code below to end of model. Example: 90PY06401SP

Poly Cam
specify **P**



Single Side specify **SSB90**. **Double Sided** specify **DSB90**

Face Contact
specify **F**



Wrap Around
specify **WB90**

PLB Integrated
specify **PLB**



Face
specify **FBB** (3" tread width only)

Welded Swivel Lock
specify **L**



Hand operated field Installable Swivel Lock
order **SL900000** separately

	Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Rated for normal operation)	Overall Height (Inches)	Swivel Lead (Inches)	Approx. Wt. (Lbs)	Base Caster Number+
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Moldon Rubber on Cast Iron (01 Roller Bearing)*

MR	Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Rated for normal operation)	Overall Height (Inches)	Swivel Lead (Inches)	Approx. Wt. (Lbs)	Base Caster Number+
6	2 1/2	700	8	2 1/4	22	90MR06401	
6	3	750	8	2 1/4	23 3/4	90MR06501	
8	2 1/2	850	10 1/2	2 1/2	27 1/4	90MR08401	
8	3	900	10 1/2	2 1/2	27 1/4	90MR08501	
10	2 1/2	950	12 1/2	2 1/2	29 1/2	90MR10401	
10	3	1000	12 1/2	2 1/2	30 1/2	90MR10501	
10	3 1/2	1800	12 1/2	2 1/2	30 1/2	90MH10501	
10	4 2	1400	12 1/2	2 1/2	44 1/2	90MR10701	
12	2 1/2	2500	15 1/2	2 1/2	35	90MR12401	
12	3	1200	15 1/2	2 1/2	36 1/4	90MR12501	

* (09) Tapered Roller Bearings available.
Change "01" to other bearing code. Tapered Roller example: 90MR06509.
¹Heavy-duty MH version of 10x3 wheel.
²10 x 4 model has solid axle; all others hollow axle.

+ For swivel models add "S", for rigid model add "R" to end of base caster number.

Polyurethane on Aluminum (01 Roller Bearing)

PA/PD	Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Rated for normal operation)	Overall Height (Inches)	Swivel Lead (Inches)	Approx. Wt. (Lbs)	Base Caster Number+
4	3 1/4	1200	6	2	17 1/4	90PA04501	
4	4	1600	6	2	20 1/2	90PA04701*	
8	2 1/2	2010	10 1/2	2 1/2	21 1/2	90PD08401	
8	3	2520	10 1/2	2 1/2	22 1/2	90PD08501	
10	2 1/2	2370	12 1/2	2 1/2	24	90PD10401	
10	3	3000	12 1/2	2 1/2	25	90PD10501	

*1" solid axle.

Continue on next page >>

+ For swivel models add "S", for rigid model add "R" to end of base caster number.

Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Based on manual operation)	Overall Height (Inches)	Swivel Lead (Inches)	Approx. Wt. (Lbs)	Base Caster Number+
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Polyurethane on Cast Iron (09 Tapered Roller Bearing)*

	PI	6	2 1/2	1600	8	2 1/4	20	90PI06409
	6	3	2000	8	2 1/4	21	90PI06509	
	8	2 1/2	2000	10 1/2	2 1/2	22	90PI08409	
	8	3	2500	10 1/2	2 1/2	24 1/4	90PI08509	
	10	2 1/2	2200	12 1/2	2 1/2	25 1/2	90PI10409	
	10	3	3000	12 1/2	2 1/2	28	90PI10509	
	12	2 1/2	2500	15 1/2	2 1/2	35	90PI12409	
	12	3	3500	15 1/2	2 1/2	38	90PI12509	

*Roller (01) bearings available. Change "01" to other bearing code. Example: 90PI06501.

Polyurethane* on Cast Iron (01 Roller Bearing, 09 Tapered Roller Bearing)

	PY	3 1/4	4 1/4	1100	5 5/8	2	17 1/2	90PY03709
	5	3	1500	7	2 1/2	23	90PY05501	
	6	2 1/2	1600	8	2 1/4	25	90PY06401	
	6	3	2000	8	2 1/4	26 3/4	90PY06501	
	8	2 1/2	2000	10 1/2	2 1/2	27 3/4	90PY08401	
	8	3	2500	10 1/2	2 1/2	31	90PY08501	
	10	3	3000	12 1/2	2 1/2	35 3/4	90PY10501	
	12	3	3500	15 1/2	2 1/2	44 1/4	90PY12501	

Polyurethane on Cast Iron (01 Roller Bearing, 09 Tapered Roller Bearing)

	PY 80A	3 1/4	4 1/4	880	5 5/8	2	17 1/2	90PY0370980A
	5	3	1220	7	2 1/2	23	90PY0550180A	
	6	2 1/2	1300	8	2 1/4	25	90PY0640180A	
	6	3	1600	8	2 1/4	26 3/4	90PY0650180A	
	8	2 1/2	1600	10 1/2	2 1/2	27 3/4	90PY0840180A	
	8	3	2000	10 1/2	2 1/2	31	90PY0850180A	
	10	3	2400	12 1/2	2 1/2	35 3/4	90PY1050180A	
	12	3	3500	15 1/2	2 1/2	44 1/4	90PY1250180A	

To Specify Rigid or Swivel, insert "R" or "S" before "80A." Example: 90PY08401R80A.

Thick Tread Polyurethane* (09 Tapered Roller Bearing)

	PX	6	3	2250	8	2 1/4	27	90PX06509
	8	2 1/2	2200	10 1/2	2 1/2	27	90PX08409	
	8	3	2780	10 1/2	2 1/2	31 1/2	90PX08509	
	10	3	3300	12 1/2	2 1/2	36	90PX10509	
	12	3	3500	15 1/2	2 1/2	44 1/2	90PX12509	

Vulkollan on Cast Iron (09 Tapered Roller Bearing)*

	VY	6	2 1/2	2350	8	2 1/4	25	90VY06409
	6	3	3000	8	2 1/4	26 3/4	90VY06509	
	8	2 1/2	2900	10 1/2	2 1/2	27 3/4	90VY08409	
	8	3	3500	10 1/2	2 1/2	31	90VY08509	
	10	3	3500	12 1/2	2 1/2	35 3/4	90VY10509	

*Roller (01) and Precision Ball (28) bearings available. Change "01" to other bearing code. Precision example: 90VY06528.

Thick Tread Vulkollan (09 Tapered Roller Bearing)*

	VX	6	3	3000	8	2 1/4	27	90VX06509
	8	2 1/2	2900	10 1/2	2 1/2	27	90VX08409	
	8	3	3500	10 1/2	2 1/2	31 1/2	90VX08509	
	10	3	3500	12 1/2	2 1/2	36	90VX10509	

*Roller (01) and Precision Ball (28) bearings available. Change "01" to other bearing code. Precision example: 90VX06528.

X-treme Plus Solid Polyurethane (28 Precision Ball Bearing)

	XP	8	2 1/2	2000	10 1/2	2 1/2	22 1/2	90XP08428
	8	3	2000	10 1/2	2 1/2	22 1/4	90XP08528	
	10	2 1/2	2500	12 1/2	2 1/2	24 1/2	90XP10428	
	10	3	2500	12 1/2	2 1/2	31	90XP10528	

*Durometers available on Polyurethane wheels can be 80A, 95A, 60D and 70D. Consult factory.

+ For swivel models add "S", for rigid model add "R" to end of base caster number.

Wheel Diameter (Inches)	Tread Width (Inches)	Capacity (Lbs) (Based on manual operation)	Overall Height (Inches)	Swivel Lead (Inches)	Approx. Wt. (Lbs)	Base Caster Number+
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Phenolic (01 Roller Bearing)

	TM	6	2 1/2	1600	8	2 1/4	18 3/4	90TM06401
	6	3	2000	8	2 1/4	19 1/4	90TM06501	
	8	2 1/2	2000	10 1/2	2 1/2	21 1/4	90TM08401	
	8	3	2500	10 1/2	2 1/2	22 1/4	90TM08501	
	10	3	2900	12 1/2	2 1/2	25 1/4	90TM10501	
	12	3	3500	15 1/2	2 1/2	29 1/4	90TM12501	

Trionix™ High Impact Polymer (28 Precision Ball Bearing)

	NX	6	2 1/2	3500	8	2 1/4	20 1/2	90NX06428
	6	3	3500	8	2 1/4	21 1/2	90NX06528	
	8	2 1/2	3500	10 1/2	2 1/2	23 3/4	90NX08428	
	8	3	3500	10 1/2	2 1/2	24 1/2	90NX08528	
	10	2 1/2	3500	12 1/2	2 1/2	26 1/2	90NX10428	
	10	3	3500	12 1/2	2 1/2	28	90NX10528	

Cast Iron (01 Roller Bearing, 09 Tapered Roller Bearing)

	CA	3 1/4	4	2000	5 5/8	2	21	90CA03709
	4	3	2000	6	2	21 3/4	90CA04501	
	4	4	3500	6	2	27 1/4	90CA04701	
	5	2 1/2	2000	7	2 1/2	24	90CA05401	
	6	3	2800	8	2 1/4	26	90CA06501	
	8	3	2800	10 1/2	2 1/2	26 3/4	90CA08501	
	10	3	2800	12 1/2	2 1/2	32 1/2	90CA10501	
	12	3	2800	15 1/2	2 1/2	38 1/2	90CA12501	

Forged Steel (01 Roller Bearing)

	FS	6	2 1/2	3500	8	2 1/4	26	90FS06401
	8	2 1/2	3500	10 1/2	2 1/2	21 3/4	90FS08401	
	8	3	3500	10 1/2	2 1/2	33 1/4	90FS08501	
	10	3	3500	12 1/2	2 1/2	43 1/4	90FS10501	

V-Groove Cast Iron (01 Roller Bearing)

	VG	6	2 1/2	2500	8	2 1/4	26 1/4	90VG06401
	8	3	2500	10 1/2	2 1/2	31 1/4	90VG08501	
	10	3	3000	12 1/2	2 1/2	42 1/2	90VG10501	

Ductile Iron Crowned Tread (01 Roller Bearing)*

	FR	6	2 1/2	3500	8	2 1/4	26	90FR06401
	6	3	3500	8	2 1/4	26	90FR06501	
	8	3	3500	10 1/2	2 1/2	26 3/4	90FR08501	
	10	3	3500	12 1/2	2 1/2	32 1/2	90FR10501	

*Tapered Roller (09) and Precision Ball (28) bearings available. Change "01" to other bearing code. Tapered Roller example: 90FR08409.

Ductile Iron Flat Tread (01 Roller Bearing)*

	FM	6	2 1/2	3500	8	2 1/4	26	90FM06401
	6	3	3500	8	2 1/4	26	90FM06501	
	8	3	3500	10 1/2	2 1/2	26 3/4	90FM08501	
	10	3	3500	12 1/2	2 1/2	32 1/2	90FM10501	

*Tapered Roller (09) and Precision Ball (28) bearings available. Change "01" to other bearing code. Tapered Roller example: 90FM08509.

Ductile Iron V-Groove Tread (01 Roller Bearing)*

	VM	6	2 1/2	3500	8	2 1/4	26	90VM06401
	6	3	3500	8	2 1/4	26 1/8	90VM06501	
	8	3	3500	10 1/2	2 1/2	26 3/4	90VM08501	
	10	3	3500	12 1/2	2 1/2	32 1/2	90VM10501	

*Tapered Roller (09) and Precision Ball (28) bearings available. Change "01" to other bearing code. Tapered Roller example: 90VM08509.