
CASTER CONCEPTS
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CASTER CONCEPTS

51 SERIES KINGPINLESS STYLE CASTERS 1500 maximum capacity LBS

FEATURES

Swivel Section: High alloy swivel section is precision machined to accommodate 3/8” diameter ball bearings. Swivel sections are through hardened for durability.
Kingpin: Kingpinless style design
Legs: 1/4” x 2” bar stock formed and continuously welded inside and outside to the yoke base
Axle: 1/2” diameter axle
Lubrication: Pre-lubricated before shipping
Wheels: 4” to 8” diameter wheels are available with straight roller bearings or ball bearings for ease in rolling
Finish: Clear zinc plating

51-06202-61-1 shown

BENEFITS

The 51 Series kingpinless style swivel bearings act as both load and thrust components to lock the swivel section together and distribute the load over a larger area. The hardened swivel section and formed and welded legs provide strength and durability in rough applications.

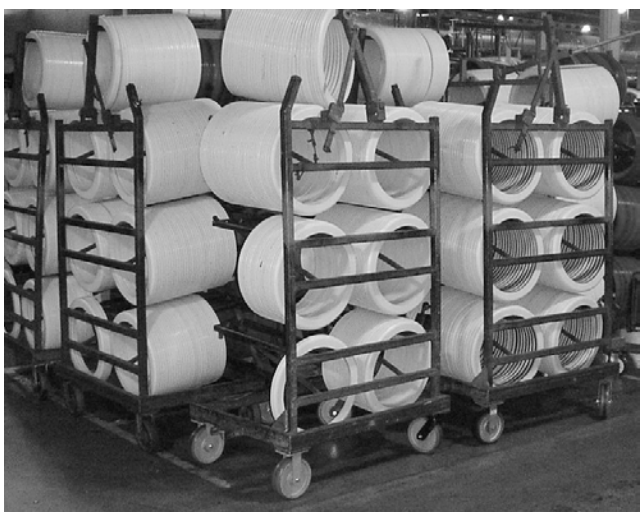
APPLICATIONS

Excellent for light powered applications, bakery dough troughs, portable work benches, platform trucks, tow lines, utility carts, tooling fixtures, scrap metal carriers, drywall dollies, gantry cranes, automated guided vehicles, fiberglass lay-up molds, and other applications.

OPTIONS

Brakes	
Cam:	C*
Poly Cam:	P*
Tread Lock:	T
Wrap Around:	W*
Dual Side:	DS
Swivel Locks	
Factory Installed:	L
Demountable:	DL
Passive:	PL
Sealed Swivel:	SSW
Sealed Wheels:	SW
Toe Guard:	TG

* For wheels with diameter ≥ 6 inches



Cantilever racks holding parts for production with 51 Series casters.

CASTER CONCEPTS

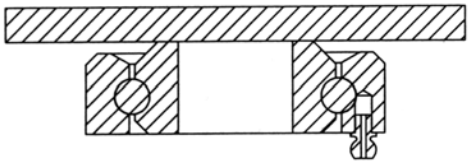
51 SERIES KINGPINLESS STYLE CASTERS 1500 maximum capacity LBS

WHEEL			CAPACITY				PART NUMBER		
Dia.	Width	Material	Roller Bearing	Precision Ball	OAH	Swivel Lead	Roller Bearing	Precision Ball	Wt.
4	1.50	Forged Steel	1,400	1,400	5.62	1.50	51-04101-20-1	51-04109-20-1†	7.25
4	2.00	Phenolic Resin	800		5.62	1.50	51-04201-30-1		7.50
4	2.00	Cast Iron	1,000		5.62	1.50	51-04201-10-1		7.50
4	2.00	Polyurethane	700	700	5.62	1.50	51-04201-60-1	51-04204-60-1	7.50
4	2.00	Soft Polyurethane	600	600	5.62	1.50	51-04201-66-1	51-04202-66-1	7.50
4	2.00	Envirothane	650	650	5.62	1.50	51-04201-62-1	51-04202-62-1	7.50
4	2.00	Mold on Rubber	350		5.62	1.50	51-04201-70-1		8.20
4	2.00	Softech	250	250	5.62	1.50	51-04201-72-1	51-04204-72-1*	8.00
5	2.00	Forged Steel	1,500	1,500	6.50	1.75	51-05201-20-1	51-05209-20-1†	10.20
5	2.00	Cast Iron	1,200		6.50	1.75	51-05201-10-1		9.20
5	2.00	Phenolic Resin	1,000		6.50	1.75	51-05201-30-1		8.50
5	2.00	Polyurethane	1,050	1,050	6.50	1.75	51-05201-60-1	51-05202-60-1	10.00
5	2.00	T/R Compound	850	850	6.50	1.75	51-05201-61-1	51-05202-61-1	10.00
5	2.00	Envirothane	800	800	6.50	1.75	51-05201-62-1	51-05202-62-1	7.50
5	2.00	Mold on Rubber	400		6.50	1.75	51-05201-70-1		10.00
5	2.00	Softech	275	275	6.50	1.75	51-05201-72-1	51-05204-72-1*	10.00
6	2.00	Forged Steel	1,500	1,500	7.50	2.25	51-06201-20-1	51-06209-20-1†	13.50
6	2.00	Cast Iron	1,200		7.50	2.25	51-06201-10-1		13.00
6	2.00	Phenolic Resin	1,200		7.50	2.25	51-06201-30-1		9.50
6	2.00	Polyurethane	1,200	1,200	7.50	2.25	51-06201-60-1	51-06202-60-1	12.00
6	2.00	T/R Compound	1,000	1,000	7.50	2.25	51-06201-61-1	51-06202-61-1	12.00
6	2.00	Solid Elastomer	950	950	7.50	2.25	51-06201-62-1	51-06202-62-1	12.00
6	2.00	Mold on Rubber	425		7.50	2.25	51-06201-70-1		12.00
6	2.00	Softech	450	450	7.50	2.25	51-06201-72-1	51-06204-72-1*	12.00
8	2.00	Cast Iron	1,500		10.12	2.25	51-08201-10-1		16.50
8	2.00	Phenolic Resin	1,400		10.12	2.25	51-08201-30-1		12.00
8	2.00	Polyurethane	1,500	1,500	10.12	2.25	51-08201-60-1	51-08202-60-1	14.00
8	2.00	T/R Compound	1,200	1,200	10.12	2.25	51-08201-61-1	51-08202-61-1	14.00
8	2.00	Solid Elastomer	1,300	1,300	10.12	2.25	51-08201-62-1	51-08202-62-1	14.00
8	2.00	Mold on Rubber	500		10.12	2.25	51-08201-70-1		14.00
8	2.00	Softech	600	600	10.12	2.25	51-08201-72-1	51-08204-72-1*	14.00

Capacity listed for manual operation. For powered operations consult factory.
Part numbers listed are for the swivel caster. For rigid casters, change the last digit from 1 to 2 (ie: 51-06201-60-2)
Estimated weight is for the swivel caster, deduct 20% of swivel caster weight for rigid caster.
† *This caster has tapered bearings.*
** This caster has annular ball bearings*
All dimensions are in inches. All wieghts are in pounds.

Top Plate Size	Bolt Hole Spacing	Bolt Diameter
Std: 4.0 x 5.0	2.625 x 3.625 Slotted to 3.0 x 3.0	0.375
OT 60: 4.5 x 6.25	2.438 x 4.938 Slotted to 3.375 x 5.25	0.5
OT 70: 5.0 x 7.25 x .38	3.375 x 5.25 Slotted to 4.125 x 6.125	0.5
OT 75: 6 x 7 x .38	4.62 x 5.5	0.5

51 Series Cross Sectional View

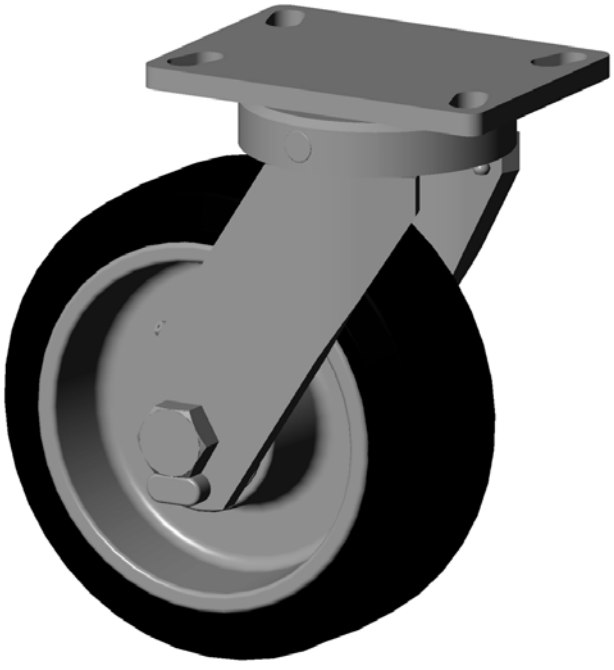


CASTER CONCEPTS

61 SERIES KINGPINLESS STYLE CASTERS 3500 maximum capacity LBS

FEATURES

Swivel Section: A high alloy steel swivel section features a precision machined and through hardened 3-1/4" diameter raceway with 1/2" inch ball bearings.
Kingpin: Kingpinless style design
Legs: 3/8" x 2-1/2" legs are formed and continuously welded inside and outside to the yoke base
Axle: 3/4" diameter axle
Lubrication: Pre-lubricated before shipping
Wheels: 4" to 12" diameter wheels have a 1" straight roller bearing. The roller bearing rotates on a hardened and ground 1" steel spanner bushing. Tapered bearings are 3/4" I.D. with neoprene lip seals standard. Precision ball bearings are available for ergonomic applications.
Finish: Clear zinc plating



61-08301-70-1 shown

BENEFITS

The 61 Series kingpinless style swivel bearings act as both load and thrust components and lock the swivel section together to distribute the load over a larger area. The single ball race design provides easy maneuverability and longevity under high load situations. The 61 Series casters are built to long established industry standards for top plate size, bolt hole spacing and overall height.

APPLICATIONS

Floor tow lines, works-in-progress carts, trash trucks, dough troughs, fixture carts, drywall dollies, autoclave dollies, tread book trays, automotive body dollies, gantry cranes, lift truck battery handling equipment, automated guided vehicles, and conveyor systems.

OPTIONS

Brakes		
	Poly Cam:	P*
	Tread Lock:	T
	Wrap Around:	W*
	Face Contact:	F
	Single Side:	SS
	Dual Side:	DS
Swivel Locks		
	Factory Installed:	L
	Demountable:	DL
Sealed Swivel:		SSW
Sealed Wheel:		SW
Toe Guard:		TG

* For wheels with diameters ≥ 6 inches

CASTER CONCEPTS

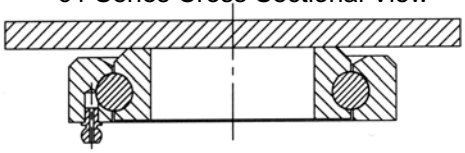
61 SERIES KINGPINLESS STYLE CASTERS 3500 maximum capacity LBS

WHEEL			CAPACITY				PART NUMBER		
Dia.	Width	Material	Roller Bearing	Tapered	OAH	Swivel Lead	Strraight Roller	Precision Tapered	Wt.
4	3.00	Cast Iron	2,000	2,000	5.62	1.50	61-04301-10-1	61-04309-10-1	18.0
4	3.25	Polyurethane	1,200	1,200	5.62	1.50	61-04321-60-1	61-04329-60-1	16.0
5	2.50	Cast Iron	2,000	2,000	6.50	1.75	61-05251-10-1	61-05259-10-1	20.0
5	2.50	Polyurethane	1,325	1,325	6.50	1.75	61-05251-60-1	61-05259-60-1	20.0
5	3.00	Polyurethane	1,550	1,550	6.50	1.75	61-05301-60-1	61-05309-60-1	22.0
6	2.50	Cast Iron	2,500	2,500	7.50	2.25	61-06251-10-1	61-06259-10-1	22.5
6	2.50	Forged Steel	3,500	3,500	7.50	2.25	61-06251-20-1	61-06259-20-1	22.0
6	2.50	Phenolic Resin	1,600	1,600	7.50	2.25	61-06251-30-1	61-06259-30-1	14.5
6	2.50	Polyurethane	1,625	1,625	7.50	2.25	61-06251-60-1	61-06259-60-1	26.0
6	2.50	Mold on Rubber	550	550	7.50	2.25	61-06251-70-1	61-06259-70-1	24.0
6	3.00	Cast Iron	2,500	2,500	7.50	2.25	61-06301-10-1	61-06309-10-1	23.0
6	3.00	Phenolic Resin	2,000	2,000	7.50	2.25	61-06301-30-1	61-06309-30-1	17.0
6	3.00	Polyurethane	2,050	2,050	7.50	2.25	61-06301-60-1	61-06309-60-1	15.0
6	3.00	H.D. Polyurethane	2,450	2,450	7.50	2.25	61-06301-65-1	61-06309-65-1	14.5
6	3.00	T/R Compound	1,640	1,640	7.50	2.25		61-06302-61-1*	14.5
6	3.00	Mold on Rubber	675	675	7.50	2.25	61-06301-70-1	61-06309-70-1	23.0
8	2.50	Phenolic Resin	2,000	2,000	10.12	2.25	61-08251-30-1	61-08259-30-1	17.0
8	2.50	Polyurethane	2,050	2,050	10.12	2.25	61-08251-60-1	61-08259-60-1	23.0
8	2.50	T/R Compound	1,640	1,640	10.12	2.25	61-08251-66-1	61-08259-66-1	25.0
8	2.50	Mold on Rubber	670	670	10.12	2.25	61-08251-70-1	61-08259-70-1	19.0
8	3.00	Forged Steel	3,500	3,500	10.12	2.25	61-08301-20-1	61-08309-20-1	29.0
8	3.00	Cast Iron	3,500	3,500	10.12	2.25	61-08301-10-1	61-08309-10-1	39.0
8	3.00	Phenolic Resin	2,500	2,500	10.12	2.25	61-08301-30-1	61-08309-30-1	19.0
8	3.00	Polyurethane	2,520	2,520	10.12	2.25	61-08301-60-1	61-08309-60-1	27.0
8	3.00	T/R Compound		2,000	10.12	2.25		61-08302-61-1*	27.0
8	3.00	H.D. Polyurethane	3,100	3,100	10.12	2.25	61-08301-65-1	61-08309-65-1	25.0
8	3.00	T/R Compound	2,500	2,500	10.12	2.25	61-08301-66-1	61-08309-66-1	25.0
8	3.00	Mold on Rubber	840	840	10.12	2.25	61-08301-70-1	61-08309-70-1	24.0
10	3.00	Cast Iron	3,500	3,500	11.50	3.00	61-10301-10-1	61-10309-10-1	42.0
10	3.00	Phenolic Resin	2,900	2,900	11.50	3.00	61-10301-30-1	61-10309-30-1	21.0
10	3.00	Polyurethane	3,000	3,000	11.50	3.00	61-10301-60-1	61-10309-60-1	32.0
10	3.00	T/R Compound		2,400	11.50	3.00		61-10302-61-1*	32.0
10	3.00	H.D. Polyurethane	3,500	3,500	11.50	3.00	61-10301-65-1	61-10309-65-1	37.0
10	3.00	T/R Compound	2,750	2,750	11.50	3.00	61-10301-66-1	61-10309-66-1	37.0
10	3.00	Mold on Rubber	1,000	1,000	11.50	3.00	61-10301-70-1	61-10309-70-1	37.0
12	3.00	Phenolic Resin	3,500	3,500	13.50	3.00	61-12301-30-1	61-12309-30-1	30.0
12	3.00	Polyurethane	3,500	3,500	13.50	3.00	61-12301-60-1	61-12309-60-1	41.0
12	3.00	Mold on Rubber	1,125	1,125	13.50	3.00	61-12301-70-1	61-12309-70-1	32.0

Capacity listed is for manual operation. For powered operations, consult factory.
Part Numbers listed are for the swivel caster. For rigid casters, change the last digit from 1 to 2 (i.e. 61-10309-60-2)
Estimated weight is for swivel caster. Deduct 20 percent of swivel caster weight for rigid casters.
** This caster has precision ball bearings.*
All dimensions are in inches. All weights are in pounds.

Top Plate Size	Bolt Hole Spacing	Bolt Diameter
Std: 4.5 x 6.25	2.438 x 4.938 Slotted to 3.375 x 5.25	0.5
OT 70: 5.0 x 7.25 x .38	3.375 x 5.25 Slotted to 4.125 x 6.125	0.5
OT 75: 6.0 x 7.0 x .38	4.625 x 5.5	0.5

61 Series Cross Sectional View



CASTER CONCEPTS

65 SERIES HEAVY DUTY CASTERS

2000 maximum capacity **LBS**

FEATURES

Swivel Section: Hot forged SAE 1045 steel swivel section features a fully machined 3-1/4" diameter raceway which is concentric to the kingpin. The yoke base is notched for field installation of swivel locks.
Kingpin: The 3/4" heavy section kingpin is machined out of stock which was integrally forged into the top plate.
Legs: 3/8" x 2-1/2" legs are formed and continuously welded inside and outside to the yoke base
Axle: 3/4" diameter axle
Lubrication: Pre-lubricated before shipping
Wheels: 4" to 12" diameter wheels have a 1" straight roller bearing. Roller bearing rotates on a hardened and ground 1" steel spanner bushing. Tapered bearings are 3/4" I.D.
Standard: Notched yoke base for field installation of swivel locks
Finish: Clear zinc plating

65-10309-66-1 shown

BENEFITS

The 65 Series hot forged swivel sections are the strongest in the market and will handle more abusive applications than the equivalent cold forged swivel sections. Each swivel top plate and yoke base is machined to a mirror smooth finish for a close tolerance fit for added strength. In addition, the integrally forged, heavy section kingpin provides extra durability and a precision fit and eliminates "kingpin stretch" which is common in riveted or nut and bolt design sections.

OPTIONS

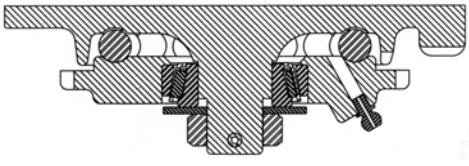
Brakes		
	Poly Cam:	P*
	Tread Lock:	T
	Wrap Around:	W*
	Face Contact:	F
	Single Side:	SS
	Dual Side:	DS
Swivel Locks		
	Factory Installed:	L
	Demountable:	DL
Sealed Swivel:		SSW
Sealed Wheel:		SW
Heat Treated Raceways		HT
Toe Guard:		TG
Precision tapered thrust (68 Series)		
Precision tapered load and thrust (69 Series)		

* For wheels with diameters ≥ 6 inches

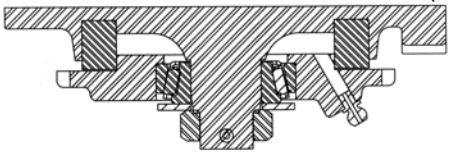
APPLICATIONS

Ideal for heavy manually moved loads or for medium duty power drawn equipment, bakery dough troughs, tow line conveyors, heavy duty bakery racks, production dollies, automotive body dollies, gantry cranes, lift truck battery handling equipment, conveyor systems, and automated guided vehicles.

68 Series Cross Sectional View (optional)



69 Series Cross Sectional View (optional)



CASTER CONCEPTS

65 SERIES HEAVY DUTY CASTERS

2000 maximum capacity LBS

WHEEL			CAPACITY				PART NUMBER		
Dia.	Width	Material	Roller Bearing	Tappered	OAH	Swivel Lead	Straight Roller	Precision Tapered	Wt.
4	3.00	Cast Iron	2,000	2,000	5.50	2.00	65-04301-10-1	65-04309-10-1	18.0
4	3.25	Polyurethane	1,200	1,200	5.50	2.00	65-04321-60-1	65-04329-60-1	16.0
5	2.50	Cast Iron	2,000	2,000	6.50	2.25	65-05251-10-1	65-05259-10-1	20.0
5	2.50	Polyurethane	1,325	1,325	6.50	2.25	65-05251-60-1	65-05259-60-1	20.0
5	3.00	Polyurethane	1,550	1,550	6.50	2.25	65-05301-60-1	65-05309-60-1	22.0
6	2.50	Cast Iron	2,000	2,000	7.50	2.50	65-06251-10-1	65-06259-10-1	22.5
6	2.50	Forged Steel	2,000	2,000	7.50	2.50	65-06251-20-1	65-06259-20-1	22.0
6	2.50	Phenolic Resin	1,600	1,600	7.50	2.50	65-06251-30-1	65-06259-30-1	14.5
6	2.50	Polyurethane	1,625	1,625	7.50	2.50	65-06251-60-1	65-06259-60-1	26.0
6	2.50	Mold on Rubber	550	550	7.50	2.50	65-06251-70-1	65-06259-70-1	24.0
6	3.00	Cast Iron	2,000	2,000	7.50	2.50	65-06301-10-1	65-06309-10-1	23.0
6	3.00	Phenolic Resin	2,000	2,000	7.50	2.50	65-06301-30-1	65-06309-30-1	17.0
6	3.00	Polyurethane	2,000	2,000	7.50	2.50	65-06301-60-1	65-06309-60-1	15.0
6	3.00	H.D. Polyurethane	2,000	2,000	7.50	2.50	65-06301-65-1	65-06309-65-1	14.5
6	3.00	T/R Compound Poly		1,640	7.50	2.50		65-06302-61-1*	14.5
6	3.00	Mold on Rubber	675	675	7.50	2.50	65-06301-70-1	65-06309-70-1	23.0
8	2.50	Phenolic Resin	2,000	2,000	10.12	2.25	65-08251-30-1	65-08259-30-1	17.0
8	2.50	Polyurethane	2,000	2,000	10.12	2.25	65-08251-60-1	65-08259-60-1	23.0
8	2.50	T/R Compound Poly	1,640	1,640	10.12	2.25	65-08251-66-1	65-08259-66-1	25.0
8	2.50	Mold on Rubber	670	670	10.12	2.25	65-08251-70-1	65-08259-70-1	19.0
8	3.00	Cast Iron	2,000	2,000	10.12	2.25	65-08301-10-1	65-08309-10-1	39.0
8	3.00	Forged Steel	2,000	2,000	10.12	2.25	65-08301-20-1	65-08309-20-1	29.0
8	3.00	Phenolic Resin	2,000	2,000	10.12	2.25	65-08301-30-1	65-08309-30-1	19.0
8	3.00	Laminated Phenolic	2,000	2,000	10.12	2.25	65-08301-35-1	65-08309-35-1	19.0
8	3.00	Polyurethane	2,000	2,000	10.12	2.25	65-08301-60-1	65-08309-60-1	27.0
8	3.00	T/R Compound Poly		2,000	10.12	2.25		65-08302-61-1*	27.0
8	3.00	H.D. Polyurethane	2,000	2,000	10.12	2.25	65-08301-65-1	65-08309-65-1	25.0
8	3.00	T/R Compound Poly	2,000	2,000	10.12	2.25	65-08301-66-1	65-08309-66-1	25.0
8	3.00	Mold on Rubber	840	840	10.12	2.25	65-08301-70-1	65-08309-70-1	24.0
10	2.50	Mold on Rubber	790	790	11.50	2.50	65-10251-70-1	65-10259-70-1	26.0
10	3.00	Cast Iron	2,000	2,000	11.50	2.50	65-10301-10-1	65-10309-10-1	30.0
10	3.00	Phenolic Resin	2,000	2,000	11.50	2.50	65-10301-30-1	65-10309-30-1	21.0
10	3.00	Polyurethane	2,000	2,000	11.50	2.50	65-10301-60-1	65-10309-60-1	32.0
10	3.00	T/R Compound Poly		2,000	11.50	2.50		65-10302-61-1*	32.0
10	3.00	H.D. Polyurethane	2,000	2,000	11.50	2.50	65-10301-65-1	65-10309-65-1	37.0
10	3.00	T/R Compound Poly	2,000	2,000	11.50	2.50	65-10301-66-1	65-10309-66-1	37.0
10	3.00	Mold on Rubber	1,000	1,000	11.50	2.50	65-10301-70-1	65-10309-70-1	27.0
12	2.50	Polyurethane	2,000	2,000	13.50	3.00	65-12251-60-1	65-12259-60-1	32.0
12	3.00	Phenolic Resin	2,000	2,000	13.50	3.00	65-12301-30-1	65-12309-30-1	30.0
12	3.00	Polyurethane	2,000	2,000	13.50	3.00	65-12301-60-1	65-12309-60-1	41.0
12	3.00	Mold on Rubber	1,125	1,125	13.50	3.00	65-12301-70-1	65-12309-70-1	32.0

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. 65-10309-70-2)
Estimated weight is for swivel caster. Deduct 20 percent of swivel caster weight for rigid casters.
** These casters have precision ball bearings.*
All dimensions are in inches. All weights are in pounds.

Top Plate Size	Bolt Hole Spacing	Bolt Diameter
Std: 4.5 x 6.25	2.438 x 4.938 Slotted to 3.375 x 5.25	0.5

65 Series Cross Sectional View

CASTER CONCEPTS

70 SERIES HEAVY DUTY CASTERS 3500 maximum capacity LBS

FEATURES

Swivel Section: Made from hot forged C-1045 steel with 4” diameter load raceway and 1/2” diameter ball bearings.
Kingbolt: 1” diameter, Grade 5 kingbolt is heat treated and features a slotted adjusting nut.
Legs: 3/8” x 3” steel, continuously welded inside and outside to the yoke base
Axle: 3/4” diameter axle
Lubrication: Pre-lubricated before shipping
Wheels: 2-1/2” to 3” wide wheels. Roller bearings rotate on hardened and ground 1” steel spanner bushing.
Standard: Notched yoke base for field installation of swivel locks.
Finish: Clear zinc plating

70-08301-20-1 shown

BENEFITS

The 70 Series is one of the most popular industrial caster designs. The hot forged swivel sections and industrial width wheels are well suited for many in-plant applications. The added strength of the kingbolt provides extended caster service life.

APPLICATIONS

Suitable for medium heavy duty power drawn equipment, as well as heavier duty manually handled equipment, including gantry cranes, work platforms, dragline trucks, warehouse trucks, modular home manufacturing, production racks and fixtures, high capacity die tables, machinery dollies, corrugated steel box trucks, heavy portable storage racks, green tire racks, scrap hoppers and other equipment.

OPTIONS

Brakes		
	Poly Cam:	P*
	Tread Lock:	T
	Wrap Around:	W*
	Face Contact:	F
	Single Side:	SS
	Dual Side:	DS
Swivel Locks		
	Factory Installed:	L
	Demountable:	DL
Sealed Swivel:		SSW
Sealed Wheels:		SW
Toe Guard:		TG
Heat Treated Raceways:		HT

* For wheels with diameters ≥ 6 inches

Increased customer demand for information on inspection and testing has resulted in significant expansion of our Engineering and Test facilities. Caster Concepts is committed to providing our customers with the highest quality products and services.

CASTER CONCEPTS

70 SERIES HEAVY DUTY CASTERS 3500 maximum capacity LBS

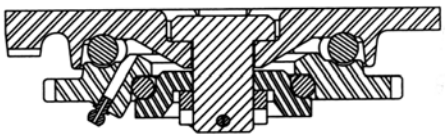
WHEEL			CAPACITY				PART NUMBER		
Dia.	Width	Material	Roller Bearing	Tapered	OAH	Swivel Lead	Straight Roller	Precision Tapered	Wt.
4	3.00	Cast Iron	2,000		6.0	2.00	70-04301-10-1		20.0
4	3.25	Polyurethane	1,200		6.0	2.00	70-04321-60-1		17.0
4	4.00	Cast Iron	3,500		6.0	2.00	70-04401-10-1		27.0
4	4.25	Polyurethane	1,600		6.0	2.00	70-04401-60-1		25.0
4	4.25	70D H.L. Polyurethane	2,000	2,000	6.0	2.00	70-04401-63-1	70-04409-63-1	25.0
5	2.50	Cast Iron	2,000	2,000	7.0	2.50	70-05251-10-1	70-05259-10-1	24.0
5	3.00	Polyurethane	1,550	1,550	7.0	2.50	70-05301-60-1	70-05309-60-1	23.0
6	2.50	Cast Iron	2,500	2,500	8.0	2.50	70-06251-10-1	70-06259-10-1	27.0
6	2.50	Forged Steel	3,500	3,500	8.0	2.50	70-06251-20-1	70-06259-20-1	25.0
6	3.00	Cast Iron	2,500	2,500	8.0	2.50	70-06301-10-1	70-06309-10-1	25.0
6	3.00	Phenolic Resin	2,000	2,000	8.0	2.50	70-06301-30-1	70-06309-30-1	19.0
6	3.00	Polyurethane	2,050	2,050	8.0	2.50	70-06301-60-1	70-06309-60-1	21.0
6	3.00	T/R Compound Poly		1,640	8.0	2.50		70-06302-61-1*	21.0
6	3.00	H.D. Polyurethane	2,450	2,450	8.0	2.50	70-06301-65-1	70-06309-65-1	23.0
6	3.00	T/R Compound Poly	1,640	1,640	8.0	2.50	70-06301-66-1	70-06309-66-1	23.0
6	3.00	Mold on Rubber	675	675	8.0	2.50	70-06301-70-1	70-06309-70-1	24.0
6	4.00	Polyurethane	3,000	3,000	8.0	2.50	70-06401-65-1	70-06409-65-1	34.0
8	3.00	Cast Iron	3,500	3,500	10.5	2.50	70-08301-10-1	70-08309-10-1	34.0
8	3.00	Forged Steel	3,500	3,500	10.5	2.50	70-08301-20-1	70-08309-20-1	34.0
8	3.00	Phenolic Resin	2,500	2,500	10.5	2.50	70-08301-30-1	70-08309-30-1	22.0
8	3.00	Polyurethane	2,500	2,500	10.5	2.50	70-08301-60-1	70-08309-60-1	30.0
8	3.00	T/R Compound Poly		2,000	10.5	2.50		70-08302-61-1*	30.0
8	3.00	H.D. Polyurethane	3,100	3,100	10.5	2.50	70-08301-65-1	70-08309-65-1	34.0
8	3.00	T/R Compound Poly	2,500	2,500	10.5	2.50	70-08301-66-1	70-08309-66-1	34.0
8	3.00	Mold on Rubber	850	850	10.5	2.50	70-08301-70-1	70-08309-70-1	27.0
10	3.00	Cast Iron	3,500	3,500	12.5	2.50	70-10301-10-1	70-10309-10-1	40.0
10	3.00	Forged Steel	3,500	3,500	12.5	2.50	70-10301-20-1	70-10309-20-1	43.0
10	3.00	Phenolic Resin	2,900	2,900	12.5	2.50	70-10301-30-1	70-10309-30-1	25.0
10	3.00	Polyurethane	3,000	3,000	12.5	2.50	70-10301-60-1	70-10309-60-1	35.0
10	3.00	T/R Compound Poly		2,400	12.5	2.50		70-10302-61-1*	35.0
10	3.00	H.D. Polyurethane	3,500	3,500	12.5	2.50	70-10301-65-1	70-10309-65-1	40.0
10	3.00	T/R Compound Poly	2,750	2,750	12.5	2.50	70-10301-66-1	70-10309-66-1	40.0
10	3.00	Mold on Rubber	1,000	1,000	12.5	2.50	70-10301-70-1	70-10309-70-1	30.0
10	4.00	Polyurethane	3,500	3,500	12.5	2.50	70-10401-60-1	70-10409-60-1	45.0
10	4.00	Mold on Rubber	1,400	1,400	12.5	2.50	70-10401-70-1	70-10409-70-1	44.0
12	3.00	Ductile Iron	3,500	3,500	15.5	2.50	70-12301-12-1	70-12309-12-1	55.0
12	3.00	Phenolic Resin	3,500	3,500	15.5	2.50	70-12301-30-1	70-12309-30-1	30.0
12	3.00	Polyurethane	3,500	3,500	15.5	2.50	70-12301-60-1	70-12309-60-1	45.0
12	3.00	Mold on Rubber	1,125	1,125	15.5	2.50	70-12301-70-1	70-12309-70-1	42.0
12	4.00	Mold on Rubber	1,600	1,600	15.5	2.50	70-12401-70-1	70-12409-70-1	56.0

**These casters have precision ball bearings.*

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. 65-10309-70-2)
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.

Top Plate Size	Bolt Hole Spacing	Bolt Diameter
Std: 5.25 x 7.25 x .38	3.375 x 5.25 Slotted to 4.125 x 6.125	0.5

70 Series Cross Sectional View



CASTER CONCEPTS

71 SERIES KINGPINLESS STYLE CASTERS 4500 maximum capacity LBS

FEATURES

Swivel Section: High alloy steel swivel section features a precision machined and through hardened 3-1/4” diameter raceway.
Kingpin: Kingpinless style design
Legs: 3/8” x 3” legs are formed and continuously welded inside and outside to the yoke base
Axle: 3/4” bolt and locking nut
Lubrication: Pre-lubricated before shipping
Wheels: 4” to 12” wheels are available with either 1” roller bearings with a hardened and ground steel spanner bushing, 3/4” tapered bearing, or precision ball bearings.
Finish: Clear zinc plating

71-10301-15-1 shown

BENEFITS

The 71 Series is our heaviest offering in the fabricated single ball race caster. These swivel bearings act as both load and thrust components and lock the swivel section together to distribute the load over a larger area. Because of the unique fabrication of the swivel section, various top plate options can be utilized.

APPLICATIONS

The 71 Series casters are well suited for medium duty towing applications where shock loads are present. In addition, they may be used for dough troughs, high capacity die tables, machinery dollies, corrugated steel box trucks, heavy portable storage racks, mobile military equipment, aircraft maintenance stands, and aircraft crew stairs.

OPTIONS

Brakes		
	Poly Cam:	P*
	Tread Lock:	T
	Wrap Around:	W*
	Face Contact:	F
	Single Side:	SS
	Dual Side:	DS
Swivel Locks		
	Factory Installed:	L
	Demountable:	DL
	Passive:	PL
Sealed Swivel:		SSW
Sealed Wheels:		SW
Toe Guard:		TG

* For wheels with diameters ≥ 6 inches

CASTER CONCEPTS

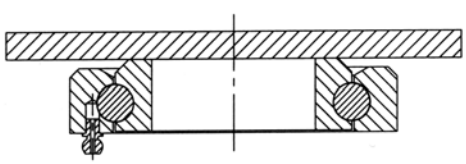
71 SERIES KINGPINLESS STYLE CASTERS 4500 maximum capacity LBS

WHEEL			CAPACITY				PART NUMBER		
Dia.	Width	Material	Roller Bearing	Tapered	OAH	Swivel Lead	Straight Roller	Precision Tapered	Wt.
4	3.00	Cast Iron	2,000		6.00	2.00	71-04301-10-1		20.0
4	3.25	Polyurethane	1,200	1,200	6.00	2.00	71-04321-60-1		17.0
5	2.50	Cast Iron	2,000	2,000	7.00	2.25	71-05251-10-1	71-05259-10-1	24.0
5	3.00	Polyurethane	1,550	1,550	7.00	2.25	71-05301-60-1	71-05309-60-1	23.0
6	2.50	Cast Iron	2,500	2,500	8.00	2.25	71-06251-10-1	71-06259-10-1	27.0
6	2.50	Forged Steel	4,000	4,000	8.00	2.25	71-06251-20-1	71-06259-20-1	25.0
6	3.00	Cast Iron	2,500	2,500	8.00	2.25	71-06301-10-1	71-06309-10-1	25.0
6	3.00	Phenolic Resin	2,000	2,000	8.00	2.25	71-06301-30-1	71-06309-30-1	19.0
6	3.00	Polyurethane	2,050	2,050	8.00	2.25	71-06301-60-1	71-06309-60-1	21.0
6	3.00	T/R Compound		1,640	8.00	2.25		71-06302-61-1*	21.0
6	3.00	H.D. Polyurethane	2,450	2,450	8.00	2.25	71-06301-65-1	71-06309-65-1	23.0
6	3.00	T/R Compound	1,640	1,640	8.00	2.25	71-06301-66-1	71-06309-66-1	23.0
6	3.00	Mold on Rubber	675	675	8.00	2.25	71-06301-70-1	71-06309-70-1	24.0
8	3.00	Cast Iron	3,500	3,500	10.50	2.50	71-08301-10-1	71-08309-10-1	34.0
8	3.00	Forged Steel	4,500	4,500	10.50	2.50	71-08301-20-1	71-08309-20-1	34.0
8	3.00	Phenolic Resin	2,500	2,500	10.50	2.50	71-08301-30-1	71-08309-30-1	22.0
8	3.00	Polyurethane	2,500	2,500	10.50	2.50	71-08301-60-1	71-08309-60-1	30.0
8	3.00	T/R Compound		2,000	10.50	2.50		71-08302-61-1*	30.0
8	3.00	H.D. Polyurethane	3,100	3,100	10.50	2.50	71-08301-65-1	71-08309-65-1	34.0
8	3.00	T/R Compound	2,500	2,500	10.50	2.50	71-08301-66-1	71-08309-66-1	34.0
8	3.00	Mold On Rubber	840	840	10.50	2.50	71-08301-70-1	71-08309-70-1	27.0
10	3.00	Cast Iron	3,500	3,500	12.50	3.00	71-10301-10-1	71-10309-10-1	40.0
10	3.00	Forged Steel	4,500	4,500	12.50	3.00	71-10301-20-1	71-10309-20-1	43.0
10	3.00	Phenolic Resin	2,900	2,900	12.50	3.00	71-10301-30-1	71-10309-30-1	25.0
10	3.00	Polyurethane	3,000	3,000	12.50	3.00	71-10301-60-1	71-10309-60-1	35.0
10	3.00	T/R Compound		2,400	12.50	3.00		71-10302-61-1*	35.0
10	3.00	H.D. Polyurethane	3,500	3,500	12.50	3.00	71-10301-65-1	71-10309-65-1	40.0
10	3.00	T/R Compound	2,750	2,750	12.50	3.00	71-10301-66-1	71-10309-66-1	40.0
12	3.00	Phenolic Resin	3,500	3,500	15.50	3.00	71-12301-30-1	71-12309-30-1	30.0
12	3.00	Polyurethane	3,500	3,500	15.50	3.00	71-12301-60-1	71-12309-60-1	25.0
12	3.00	Mold on Rubber	1,125	1,125	15.50	3.00	71-12301-70-1	71-12309-70-1	25.0

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. 71-06301-60-2)
Estimated weight is for swivel caster. Deduct 20 percent of swivel caster weight for rigid casters.
**These casters have a precision ball bearing*
All dimensions are in inches. All weights are in pounds.

Top Plate Size	Bolt Hole Spacing	Bolt Diameter
Std: 5.0 x 7.25 x .38	3.375 x 5.25 Slotted to 4.125 x 6.125	0.5
OT 60: 4.5 x 6.25	2.438 x 4.938 Slotted to 3.375 x 5.25	0.5
OT 75: 6.0 x 7.0 x .38	4.625 x 5.5	0.5
OT 80: 6.0 x 7.5 x .5	4.5 x 6	0.5

71 Series Cross Sectional View



CASTER CONCEPTS

80 SERIES EXTRA HEAVY DUTY CASTERS 5000 maximum capacity LBS

FEATURES

Swivel Section: Drop forged from C-1045 steel with 5” diameter, precision machined load raceway. A 1-1/4” tapered thrust bearing completes the precision fit.
Kingpin: 1-1/4” integrally forged kingpin with slotted adjusting nut
Legs: 3/8” x 4” formed and continuously welded both inside and outside
Axle: 1”, Grade 5 axle
Lubrication: Pre-lubricated before shipping
Wheels: 6” to 12” diameter wheels
Finish: Gold dichromate plating

80-08309-66-1 shown

BENEFITS

The 80 Series has a ball load swivel that delivers high capacity at a good value. The raceways are heat treated to eliminate brinelling of the surface when the casters are subjected to shock loads. The exceptional strength of the 80 Series makes it an ideal choice for rugged applications.

These casters are built around automotive industry standards. Please consult factory.

APPLICATIONS

Die carts, automotive plants, steel mills, production line delivery trailers, fiberglass lay up molds, stamping racks, aircraft maintenance, aircraft crew stairs, trash gondolas and other aircraft ground support equipment.

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

Lord mounts - shear disc suspension available, consult factory.

Assembly line delivery trailers with 80 Series casters built to automotive specifications.

CASTER CONCEPTS

80 SERIES EXTRA HEAVY DUTY CASTERS 5000 maximum capacity LBS

WHEEL				CAPACITY			PART NUMBER		
Dia.	Width	Material	Roller Bearing	Tapered	OAH	Swivel Lead	Straight Roller	Precision Tapered	Wt.
6	2.50	Forged Steel	4,000	5,000	8.50	2.50	80-06251-20-1	80-06259-20-1	38.0
6	3.00	T/R Compound Poly		1,640	8.50	2.50		80-06309-66-1	37.0
6	3.00	H.D Polyurethane	2,500	2,500	8.50	2.50	80-06301-65-1	80-06309-65-1	40.0
6	3.00	Polyurethane	2,050	2,050	8.50	2.50	80-06301-60-1	80-06309-60-1	37.0
6	3.00	Laminated Phenolic	2,500	2,500	8.50	2.50	80-06301-35-1	80-06309-35-1	30.0
6	3.00	Forged Steel	5,000	5,000	8.50	2.50	80-06301-20-1	80-06309-20-1	45.0
6	3.00	Cast Iron	2,500	2,500	8.50	2.50	80-06301-10-1	80-06309-10-1	36.0
6	4.00	H.D. Polyurethane	3,000	3,000	8.50	2.50	80-06401-65-1	80-06409-65-1	36.0
8	3.00	Mold on Rubber	825	825	10.50	2.50	80-08301-70-1	80-08309-70-1	37.0
8	3.00	T/R Compound Poly	2,500	2,500	10.50	2.50	80-08301-66-1	80-08309-66-1	45.0
8	3.00	Polyurethane	2,500	2,500	10.50	2.50	80-08301-60-1	80-08309-60-1	40.0
8	3.00	H.D. Polyurethane	3,100	3,100	10.50	2.50	80-08301-65-1	80-08309-65-1	45.0
8	3.00	Laminated Phenolic	3,000	3,000	10.50	2.50	80-08301-35-1	80-08309-35-1	32.0
8	3.00	Forged Steel	5,000	5,000	10.50	2.50	80-08301-20-1	80-08309-20-1	44.0
8	3.00	Cast Iron	4,500	4,500	10.50	2.50	80-08301-11-1	80-08309-11-1	40.0
8	4.00	Polyurethane	3,800	3,800	10.50	2.50	80-08401-60-1	80-08409-60-1	48.0
8	4.00	Forged Steel	5,000	5,000	10.50	2.50	80-08401-20-1	80-08409-20-1	48.0
10	3.00	Mold on Rubber	1,000	1,000	12.50	2.50	80-10301-70-1	80-10309-70-1	50.0
10	3.00	T/R Compound Poly	2,800	2,800	12.50	2.50	80-10301-66-1	80-10309-66-1	55.0
10	3.00	Polyurethane	3,000	3,000	12.50	2.50	80-10301-60-1	80-10309-60-1	49.0
10	3.00	H.D. Polyurethane	3,700	3,700	12.50	2.50	80-10301-65-1	80-10309-65-1	55.0
10	3.00	Laminated Phenolic	3,250	3,250	12.50	2.50	80-10301-35-1	80-10309-35-1	36.0
10	3.00	Forged Steel	5,000	5,000	12.50	2.50	80-10301-21-1	80-10309-21-1	54.0
10	3.00	Cast Iron	4,000	4,000	12.50	2.50	80-10301-11-1	80-10309-11-1	50.0
10	4.00	Mold on Rubber	1,500	1,500	12.50	2.50	80-10401-70-1	80-10409-70-1	51.0
10	4.00	Polyurethane	4,200	4,200	12.50	2.50	80-10401-60-1	80-10409-60-1	55.0
10	4.00	H.D. T/R Compound Poly		4,000	12.50	2.50		80-10409-66-1	60.0
10	4.00	H.D. Polyurethane	5,000	5,000	12.50	2.50	80-10401-65-1	80-10409-65-1	60.0
10	4.00	Forged Steel	5,000	5,000	12.50	2.50	80-10401-20-1	80-10409-20-1	74.0
12	3.00	Mold on Rubber	1,125	1,125	15.50	2.50	80-12301-70-1	80-12309-70-1	55.0
12	3.00	T/R Compound Poly	2,900	2,900	15.50	2.50	80-12301-66-1	80-12309-66-1	57.0
12	3.00	H.D. Polyurethane	3,850	3,850	15.50	2.50	80-12301-65-1	80-12309-65-1	53.0
12	3.00	Polyurethane	3,500	3,500	15.50	2.50	80-12301-60-1	80-12309-60-1	53.0
12	4.00	Mold on Rubber	1,600	1,600	15.50	2.50	80-12401-70-1	80-12409-70-1	58.0
12	4.00	T/R Compound Poly	3,800	3,800	15.50	2.50	80-12401-66-1	80-12409-66-1	70.0
12	4.00	H.D. Polyurethane	5,000	5,000	15.50	2.50	80-12401-65-1	80-12409-65-1	70.0
12	4.00	70D H.L. Polyurethane	5,000	5,000	15.50	2.50	80-12401-67-1	80-12409-67-1	53.0

Capacity listed is for manual operation. For powered operations, consult factory.

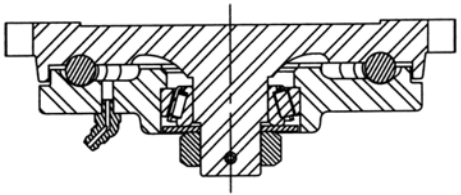
Part Numbers listed are for the swivel casters. For rigid casters, change the last digit from 1 to 2 (i.e. 80-12409-70-2)

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.

Top Plate Size	Bolt Hole Spacing	Bolt Diameter
Std: 6.0 x 7.5	4.5 x 6.0	0.5
OT-CJ: 6.0 x 7.5	4.625 x 5.5	0.5

80 Series Cross Sectional View



CASTER CONCEPTS

81 SERIES EXTRA HEAVY DUTY CASTERS 10,000 maximum capacity LBS

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.
Kingpin: Kingpinless style design
Legs: 3/8" x 4" formed and continuously welded both inside and outside
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.
Standard: Shielded swivel
Finish: Gold dichromatic plating

81-10409-65-1 shown

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 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 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.

A 1200 x 1000 x 800mm Sheffield Coordinate Measuring Machine is used to inspect parts and assemblies for precision fit.

CASTER CONCEPTS

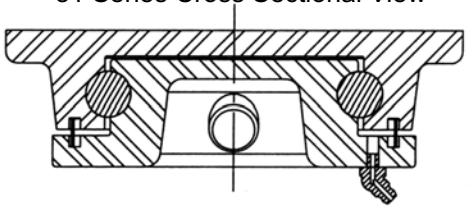
81 SERIES EXTRA HEAVY DUTY CASTERS 10,000 maximum capacity LBS

WHEEL			CAPACITY				PART NUMBER		
Dia.	Width	Material	Roller Bearing	Tapered	OAH	Swivel Lead	Straight Roller	Precision Tapered	Wt.
6	2.50	Forged Steel	4,000	5,000	8.50	2.50	81-06251-20-1	81-06259-20-1	38.0
6	3.00	T/R Compound Poly		1,640	8.50	2.50		81-06309-66-1	37.0
6	3.00	Polyurethane	2,050	2,050	8.50	2.50	81-06301-60-1	81-06309-60-1	37.0
6	3.00	H. D. Polyurethane	2,500	2,500	8.50	2.50	81-06301-65-1	81-06309-65-1	40.0
6	3.00	Laminated Phenolic	2,500	2,500	8.50	2.50	81-06301-35-1	81-06309-35-1	30.0
6	3.00	Forged Steel	6,000	10,000	8.50	2.50	81-06301-20-1	81-06309-20-1	45.0
6	3.00	Cast Iron	2,500	2,500	8.50	2.50	81-06301-10-1	81-06309-10-1	36.0
6	4.00	H.D. Polyurethane	3,000	3,000	8.50	2.50	81-06401-65-1	81-06409-65-1	40.0
8	3.00	Mold on Rubber	825	825	10.50	2.50	81-08301-70-1	81-08309-70-1	37.0
8	3.00	T/R Compound Poly	2,500	2,500	10.50	2.50	81-08301-66-1	81-08309-66-1	45.0
8	3.00	Polyurethane	2,500	2,500	10.50	2.50	81-08301-60-1	81-08309-60-1	40.0
8	3.00	H.D. Polyurethane	3,100	3,100	10.50	2.50	81-08301-65-1	81-08309-65-1	45.0
8	3.00	Laminated Phenolic	3,000	3,000	10.50	2.50	81-08301-35-1	81-08309-35-1	32.0
8	3.00	Forged Steel	4,500	5,000	10.50	2.50	81-08301-20-1	81-08309-20-1	44.0
8	3.00	Cast Iron	3,500	3,500	10.50	2.50	81-08301-11-1	81-08309-11-1	40.0
8	4.00	H.D. Polyurethane	3,800	3,800	10.50	2.50	81-08401-60-1	81-08409-60-1	48.0
8	4.00	Forged Steel	8,400	10,000	10.50	2.50	81-08401-20-1	81-08409-20-1	48.0
10	3.00	Mold on Rubber	1,000	1,000	12.50	2.50	81-10301-70-1	81-10309-70-1	50.0
10	3.00	T/R Compound Poly	2,800	2,800	12.50	2.50	81-10301-66-1	81-10309-66-1	55.0
10	3.00	Polyurethane	3,000	3,000	12.50	2.50	81-10301-60-1	81-10309-60-1	49.0
10	3.00	H.D. Polyurethane	3,700	3,700	12.50	2.50	81-10301-65-1	81-10309-65-1	55.0
10	3.00	Laminated Phenolic	3,250	3,250	12.50	2.50	81-10301-35-1	81-10309-35-1	36.0
10	3.00	Forged Steel	5,000	6,500	12.50	2.50	81-10301-21-1	81-10309-21-1	54.0
10	3.00	Cast Iron	4,000	4,000	12.50	2.50	81-10301-11-1	81-10309-11-1	50.0
10	4.00	Mold on Rubber	1,500	1,500	12.50	2.50	81-10401-70-1	81-10409-70-1	51.0
10	4.00	Polyurethane	4,200	4,200	12.50	2.50	81-10401-60-1	81-10409-60-1	55.0
10	4.00	H.D. T/R Compound Poly		4,000	12.50	2.50		81-10409-66-1	60.0
10	4.00	H.D. Polyurethane	5,000	5,000	12.50	2.50	81-10401-65-1	81-10409-65-1	60.0
10	4.00	Forged Steel	8,400	10,000	12.50	2.50	81-10401-20-1	81-10409-20-1	74.0
12	3.00	Mold on Rubber	1,125	1,125	15.50	2.50	81-12301-70-1	81-12309-70-1	55.0
12	3.00	Ductile Iron	6,500	6,500	15.50	2.50	81-12301-12-1	81-12309-12-1	70.0
12	3.00	T/R Compound Poly	2,900	2,900	15.50	2.50	81-12301-66-1	81-12309-66-1	57.0
12	3.00	H.D. Polyurethane	3,850	3,850	15.50	2.50	81-12301-65-1	81-12309-65-1	53.0
12	3.00	Polyurethane	3,500	3,500	15.50	2.50	81-12301-60-1	81-12309-60-1	53.0
12	4.00	Mold on Rubber	1,600	1,600	15.50	2.50	81-12401-70-1	81-12409-70-1	58.0
12	4.00	Ductile Iron	7,500	7,500	15.50	2.50	81-12401-12-1	81-12409-12-1	70.0
12	4.00	T/R Compound Poly	3,800	3,800	15.50	2.50	81-12401-66-1	81-12409-66-1	70.0
12	4.00	H.D. Polyurethane	5,500	5,500	15.50	2.50	81-12401-65-1	81-12409-65-1	70.0
12	4.00	70D H.L. Polyurethane	6,600	6,600	15.50	2.50	81-12401-67-1	81-12409-67-1	70.0

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. 81-12409-70-2)
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.

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



CASTER CONCEPTS

85 SERIES EXTRA HEAVY DUTY CASTERS 10,000 maximum capacity LBS

FEATURES

Swivel Section: Constructed from hot forged C-1045 steel, the swivel section features a large precision machined raceway, with a precision tapered load and tapered thrust bearing.
Kingpin: 1-1/4" integrally forged kingpin with slotted adjusting nut
Legs: 3/8" x 4" legs are formed and continuously welded both inside and outside
Axle: 1", Grade 5
Lubrication: Pre-lubricated before shipping
Wheels: 6" to 12" diameter wheels with widths from 2-1/2" to 4".
Finish: Gold dichromate plating

85-10409-20-1 shown

BENEFITS

The tapered load bearing and thrust bearing enhance the precision nature of this caster creating a swivel section with the highest load carrying capacity for its class. The 85 Series delivers an exceptionally tight tolerance fit. Additionally, the integrally forged kingpin and slotted adjusting nut add strength and longevity to the life of the swivel section.

APPLICATIONS

This design is used in applications where high load capacities are required and the area for the caster does not lend itself to the bulkiness of larger casters. It is also ideal where constant use under load requires a high performance caster. Applications may include high capacity die tables, die carts, towed trailers, aerospace industry, steel mills, gantries, automated guided vehicles and aircraft maintenance applications.

Latest technology lasers are used to cut up to 1" thick plate for various heavy-duty caster parts. Laser cutting allows the integration of shapes that may have previously been a welded fabrication. These manufacturing and design changes produce stronger assemblies with fewer parts.

OPTIONS

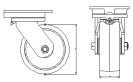
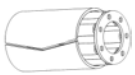
Brakes		
	Poly Cam:	P*
	Heavy Duty Tread:	HDT
	Wrap Around:	W*
	Face Contact:	F
Swivel Locks		
	Factory Installed:	L
	Heavy Duty:	HDL
Sealed Swivel:		SSW
Sealed Wheels:		SW
Toe Guard:		TG

* For wheels with diameters ≥ 6 inches

Contact the factory for overall heights and special finishes.

CASTER CONCEPTS

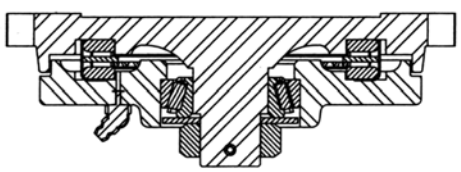
85 SERIES EXTRA HEAVY DUTY CASTERS 10,000 maximum capacity LBS

WHEEL			CAPACITY				PART NUMBER		
									
Dia.	Width	Material	Roller Bearing	Tapered	OAH	Swivel Lead	Straight Roller	Precision Tapered	Wt.
6	2.50	Forged Steel	4,000	5,000	8.50	2.50	85-06251-20-1	85-06259-20-1	38.0
6	3.00	T/R Compound Poly		1,640	8.50	2.50		85-06309-66-1	37.0
6	3.00	H.D. Polyurethane	2,500	2,500	8.50	2.50	85-06301-65-1	85-06309-65-1	40.0
6	3.00	Polyurethane	2,050	2,050	8.50	2.50	85-06301-60-1	85-06309-60-1	37.0
6	3.00	Laminated Phenolic	2,500	2,500	8.50	2.50	85-06301-35-1	85-06309-35-1	30.0
6	3.00	Forged Steel	6,000	10,000	8.50	2.50	85-06301-20-1	85-06309-20-1	45.0
6	3.00	Cast Iron	2,500	2,500	8.50	2.50	85-06301-10-1	85-06309-10-1	36.0
6	4.00	H.D. Polyurethane	3,000	3,000	8.50	2.50	85-06401-65-1	85-06409-65-1	36.0
8	3.00	Mold on Rubber	825	825	10.50	2.50	85-08301-70-1	85-08309-70-1	37.0
8	3.00	T/R Compound Poly	2,500	2,500	10.50	2.50	85-08301-66-1	85-08309-66-1	45.0
8	3.00	Polyurethane	3,000	3,000	10.50	2.50	85-08301-60-1	85-08309-60-1	40.0
8	3.00	H.D. Polyurethane	3,100	3,100	10.50	2.50	85-08301-65-1	85-08309-65-1	45.0
8	3.00	Laminated Phenolic	3,000	3,000	10.50	2.50	85-08301-35-1	85-08309-35-1	32.0
8	3.00	Forged Steel	4,500	5,500	10.50	2.50	85-08301-20-1	85-08309-20-1	44.0
8	3.00	Cast Iron	3,500	3,500	10.50	2.50	85-08301-10-1	85-08309-10-1	40.0
8	4.00	Polyurethane	3,800	3,800	10.50	2.50	85-08401-60-1	85-08409-60-1	48.0
8	4.00	Forged Steel	8,400	10,000	10.50	2.50	85-08401-20-1	85-08409-20-1	48.0
10	3.00	Mold on Rubber	1,000	1,000	12.50	2.50	85-10301-70-1	85-10309-70-1	50.0
10	3.00	T/R Compound Poly	2,800	2,800	12.50	2.50	85-10301-66-1	85-10309-66-1	55.0
10	3.00	Polyurethane	3,000	3,000	12.50	2.50	85-10301-60-1	85-10309-60-1	49.0
10	3.00	H.D. Polyurethane	3,700	3,700	12.50	2.50	85-10301-65-1	85-10309-65-1	55.0
10	3.00	Laminated Phenolic	3,250	3,250	12.50	2.50	85-10301-35-1	85-10309-35-1	36.0
10	3.00	Forged Steel	5,000	6,500	12.50	2.50	85-10301-21-1	85-10309-21-1	54.0
10	3.00	Cast Iron	4,000	4,000	12.50	2.50	85-10301-11-1	85-10309-11-1	50.0
10	4.00	Mold on Rubber	1,500	1,500	12.50	2.50	85-10401-70-1	85-10409-70-1	51.0
10	4.00	Polyurethane	4,200	4,200	12.50	2.50	85-10401-60-1	85-10409-60-1	55.0
10	4.00	H.D. Polyurethane	5,000	5,000	12.50	2.50	85-10401-65-1	85-10409-65-1	60.0
10	4.00	Forged Steel	8,400	10,000	12.50	2.50	85-10401-20-1	85-10409-20-1	74.0
12	3.00	Mold on Rubber	1,125	1,125	15.50	2.50	85-12301-70-1	85-12309-70-1	55.0
12	3.00	T/R Compound Poly	2,900	2,900	15.50	2.50	85-12301-66-1	85-12309-66-1	57.0
12	3.00	H.D. Polyurethane	3,850	3,850	15.50	2.50	85-12301-65-1	85-12309-65-1	53.0
12	3.00	Polyurethane	3,500	3,500	15.50	2.50	85-12301-60-1	85-12309-60-1	55.0
12	4.00	Mold on Rubber	1,600	1,600	15.50	2.50	85-12401-70-1	85-12409-70-1	58.0
12	4.00	T/R Compound Poly	3,800	3,800	15.50	2.50	85-12401-66-1	85-12409-66-1	70.0
12	4.00	H.D. Polyurethane	5,000	5,000	15.50	2.50	85-12401-65-1	85-12409-65-1	70.0
12	4.00	Ductile Iron	7,500	7,500	15.50	2.50	85-12401-12-1	85-12409-12-1	90.0

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. 85-12409-70-2)
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.

 Top Plate Size	 Bolt Hole Spacing	 Bolt Diameter
Std: 6.0 x 7.5	4.5 x 6.0	0.5

85 Series Cross Sectional View



CASTER CONCEPTS

90 SERIES EXTRA HEAVY DUTY CASTERS 8,000 maximum capacity LBS

FOR SEVERE DUTY

FEATURES

Swivel Section: Constructed of hot forged C-1045 steel with a 7” diameter machined load raceway featuring 5/8” diameter ball bearings with 1-1/4” tapered thrust bearing.
Kingpin: 1-1/4” integrally forged kingpin with slotted adjusting nut
Legs: 1/2” x 4” legs formed and continuously welded both inside and outside for greater strength
Axle: 1-1/4”, Grade 5
Lubrication: Pre-lubricated before shipping
Wheels: 6” to 18” diameter wheels, 3” to 5” widths
Finish: Gold dichromate plating

90-08409-20-1 shown

BENEFITS

The 90 Series bearing raceways are precision machined and then through hardened to eliminate brinelling of the surface when the caster is subjected to shock loads. A 1-1/4” tapered thrust bearing completes the precision fit of the raceway. This caster provides high load capacity at a good value.

APPLICATIONS

The 90 Series are used for power drawn equipment, stamping racks, trash gondolas, material delivery trailers, and towed trailers. These casters are also widely used on aircraft ground support equipment, in automotive plants and within steel mills.

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 Wheel:		SW
Toe Guard:		TG

* For wheels with diameters ≥ 6 inches

90 Series casters used in warehousing

CASTER CONCEPTS

90 SERIES EXTRA HEAVY DUTY CASTERS 8,000 maximum capacity LBS

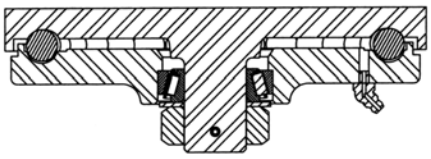
FOR SEVERE DUTY

WHEEL			CAPACITY				PART NUMBER		
Dia.	Width	Material	Roller Bearing	Tapered	OAH	Swivel Lead	Straight Roller	Precision Tapered	Wt.
6	3.00	Forged Steel	5,500	8,000	9.00	2.25	90-06301-20-1	90-06309-20-1	60.0
6	3.00	H.D. Forged Steel		8,000	9.00	2.25		90-06309-21-1	60.0
6	3.00	Polyurethane		2,500	9.00	2.25		90-06309-60-1	50.0
6	4.00	H.D Polyurethane	3,000	3,000	9.00	2.25	90-06401-65-1	90-06409-65-1	50.0
8	3.00	Polyurethane		2,500	11.00	2.25		90-08309-60-1	50.0
8	3.00	H.D. Cast Iron	4,500	4,500	11.00	2.25	90-08301-11-1	90-08309-11-1	65.0
8	4.00	Forged Steel	8,000	8,000	11.00	2.25	90-08401-20-1	90-08409-20-1	73.0
8	4.00	H.D. Forged Steel		8,000	11.00	2.25		90-08409-21-1	73.0
8	4.00	Polyurethane	3,800	3,800	11.00	2.25	90-08401-60-1	90-08409-60-1	63.0
10	3.00	H.D. Forged Steel	6,000	6,500	13.00	2.50	90-10301-21-1	90-10309-21-1	62.0
10	3.00	Cast Iron	4,000	4,000	13.00	2.50	90-10301-11-1	90-10309-11-1	61.0
10	3.00	H.D. Polyurethane		3,700	13.00	2.50		90-10309-65-1	51.0
10	4.00	Forged Steel	8,000	8,000	13.00	2.50	90-10401-20-1	90-10409-20-1	83.0
10	4.00	H.D. Forged Steel		8,000	13.00	2.50		90-10409-21-1	83.0
10	4.00	Polyurethane	4,200	4,200	13.00	2.50	90-10401-60-1	90-10409-60-1	59.0
10	4.00	H.D. Polyurethane	5,000	5,000	13.00	2.50	90-10401-65-1	90-10409-65-1	68.0
10	4.00	Mold on Rubber	1,500	1,500	13.00	2.50	90-10401-70-1	90-10409-70-1	66.0
10	5.00	H.D. Polyurethane	6,000	6,000	13.00	2.50	90-10501-65-1	90-10509-65-1	68.0
10	5.00	70D Hard Polyurethane	7,200	7,200	13.00	2.50	90-10501-67-1	90-10509-67-1	68.0
12	3.00	H.D. Polyurethane	3,850	3,850	15.50	2.50	90-12301-65-1	90-12309-65-1	57.0
12	3.50	Phenolic Resin	4,000	4,000	15.50	2.50	90-12351-30-1	90-12359-30-1	60.0
12	3.50	Mold on Rubber	1,350	1,350	15.50	2.50	90-12351-70-1	90-12359-70-1	63.0
12	4.00	H.D. Polyurethane	5,500	5,500	15.50	2.50	90-12401-65-1	90-12409-65-1	75.0
12	4.00	H.D. Phenolic	8,000	8,000	15.50	2.50	90-12401-31-1	90-12409-31-1	68.0
12	4.00	T/R Compound	3,800	3,800	15.50	2.50	90-12401-66-1	90-12409-66-1	75.0
12	4.00	70D Hard Polyurethane	6,600	6,600	15.50	2.50	90-12401-67-1	90-12409-67-1	75.0
12	4.00	Mold on Rubber	1,600	1,600	15.50	2.50	90-12401-70-1	90-12409-70-1	71.0
12	4.00	Ductile Iron	7,500	7,500	15.50	2.50	90-12401-12-1	90-12409-12-1	90.0
12	5.00	H.D. Polyurethane	6,250	6,250	15.50	2.50	90-12501-65-1	90-12509-65-1	90.0
12	5.00	70D Hard Polyurethane	7,500	7,500	15.50	2.50	90-12501-67-1	90-12509-67-1	90.0
12	5.00	Mold on Rubber	1,850	1,850	15.50	2.50	90-12501-70-1	90-12509-70-1	88.0
12	5.00	Ductile Iron	8,000	8,000	15.50	2.50	90-12501-12-1	90-12509-12-1	120.0
16	4.00	Laminated Phenolic	8,000	8,000	19.00	3.00	90-16401-35-1	90-16409-35-1	80.0
16	4.00	Cast Iron	7,500	7,500	19.00	3.00	90-16401-10-1	90-16409-10-1	105.0
16	4.00	H.D. Polyurethane	6,000	6,000	19.00	3.00	90-16401-65-1	90-16409-65-1	109.0
16	4.00	Mold on Rubber	1,450	1,450	19.00	3.00	90-16401-70-1	90-16409-70-1	106.0
16	5.00	H.D. Polyurethane	8,000	8,000	19.00	3.00	90-16501-65-1	90-16509-65-1	115.0
16	5.00	70D Hard Polyurethane	8,000	8,000	19.00	3.00	90-16501-67-1	90-16509-67-1	115.0
18	5.00	H.D. Polyurethane	8,000	8,000	21.00	4.00	90-18501-65-1	90-18509-65-1	115.0
18	5.00	70D Hard Polyurethane	8,000	8,000	21.00	4.00	90-18501-67-1	90-18509-67-1	115.0

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. 90-16509-67-2)
Estimated weight is for swivel caster. Deduct 15 pounds for rigid casters.
All dimensions are in inches. All weights are in pounds.

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

90 Series Cross Sectional View



CASTER CONCEPTS

95 SERIES EXTRA HEAVY DUTY CASTERS 17,000 maximum capacity LBS

FOR SEVERE DUTY

FEATURES

Swivel Section: Constructed of hot forged C-1045 steel with a 7” diameter raceway featuring precision tapered load and tapered thrust bearings.
Kingpin: 1-1/4” integrally forged kingpin with slotted adjusting nut
Legs: 1/2” x 4” legs are formed and continuously welded both inside and outside for greater strength
Axle: 1-1/4" diameter axle
Lubrication: Pre-lubricated before shipping
Wheel: 6” to 18” diameter wheels
Standard: Built to standard industry dimensions for top plate, bolt hole spacing and overall height
Finish: Gold dichromate plating

95-10409-21-1 shown

BENEFITS

The 95 Series is ideal for applications where high load capacities are required and where the caster will ensure constant use under load.

The integrally forged kingpin and slotted adjusting nut add strength and longevity to the life of the swivel section.

APPLICATIONS

Rugged applications include die carts, towed trailers, automotive plant equipment, aircraft maintenance stands, production line delivery trailers, paving machinery and boat dollies.
Work in Progress: Modular building manufacturing.

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.

CASTER CONCEPTS

95 SERIES EXTRA HEAVY DUTY CASTERS 17,000 maximum capacity LBS

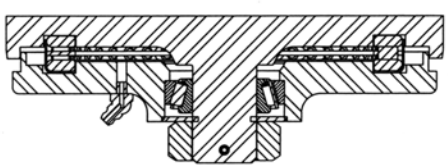
FOR SEVERE DUTY

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	9.00	2.25	95-06301-20-1	95-06309-20-1	60.0
6	3.00	H.D. Forged Steel		17,000	9.00	2.25		95-06309-21-1	60.0
6	3.00	Polyurethane		2,500	9.00	2.25		95-06309-60-1	50.0
6	4.00	H.D. Polyurethane	3,000	3,000	9.00	2.25	95-06401-65-1	95-06409-65-1	50.0
8	3.00	H.D. Polyurethane	3,100	3,100	11.00	2.25	95-08301-65-1	95-08309-65-1	50.0
8	4.00	Forged Steel	8,400	10,000	11.00	2.25	95-08401-20-1	95-08409-20-1	73.0
8	4.00	H.D. Forged Steel		17,000	11.00	2.25		95-08409-21-1	73.0
8	4.00	Polyurethane	3,800	3,800	11.00	2.25	95-08401-60-1	95-08409-60-1	63.0
10	3.00	Cast Iron	4,000	4,000	13.00	2.50	95-10301-11-1	95-10309-11-1	61.0
10	3.00	H.D. Forged Steel	6,000	6,500	13.00	2.50	95-10301-21-1	95-10309-21-1	62.0
10	3.00	Polyurethane		3,000	13.00	2.50		95-10309-60-1	51.0
10	4.00	H.D. Forged Steel		17,000	13.00	2.50		95-10409-21-1	83.0
10	4.00	Forged Steel	8,400	10,000	13.00	2.50	95-10401-20-1	95-10409-20-1	83.0
10	4.00	Polyurethane	4,200	4,200	13.00	2.50	95-10401-60-1	95-10409-60-1	59.0
10	4.00	H.D. Polyurethane	5,000	5,000	13.00	2.50	95-10401-65-1	95-10409-65-1	68.0
10	4.00	Mold on Rubber	1,500	1,500	13.00	2.50	95-10401-70-1	95-10409-70-1	66.0
10	5.00	H.D. Polyurethane	6,000	6,000	13.00	2.50	95-10501-65-1	95-10509-65-1	68.0
12	3.00	H.D. Polyurethane	3,850	3,850	15.50	2.50	95-12301-65-1	95-12309-65-1	57.0
12	3.50	Laminated Phenolic	4,700	4,700	15.50	2.50	95-12351-35-1	95-12359-35-1	59.0
12	3.50	Phenolic Resin	4,000	4,000	15.50	2.50	95-12351-30-1	95-12359-30-1	60.0
12	3.50	Mold on Rubber	1,350	1,350	15.50	2.50	95-12351-70-1	95-12359-70-1	63.0
12	4.00	Ductile Iron	7,500	7,500	15.50	2.50	95-12401-12-1	95-12409-12-1	90.0
12	4.00	H.D. Phenolic	8,000	8,000	15.50	2.50	95-12401-31-1	95-12409-31-1	68.0
12	4.00	H.D. Polyurethane	5,500	5,500	15.50	2.50	95-12401-65-1	95-12409-65-1	75.0
12	4.00	T/R Compound	4,800	4,800	15.50	2.50	95-12401-66-1	95-12409-66-1	75.0
12	4.00	70D Hard Polyurethane	6,600	6,600	15.50	2.50	95-12401-67-1	95-12409-67-1	75.0
12	4.00	Mold on Rubber	1,600	1,600	15.50	2.50	95-12401-70-1	95-12409-70-1	71.0
12	5.00	Ductile Iron	10,000	15,000	15.50	2.50	95-12501-12-1	95-12509-12-1	130.0
12	5.00	H.D Polyurethane	6,250	6,250	15.50	2.50	95-12501-65-1	95-12509-65-1	90.0
12	5.00	70D Hard Polyurethane	7,500	7,500	15.50	2.50	95-12501-67-1	95-12509-67-1	90.0
12	5.00	Mold on Rubber	1,850	1,850	15.50	2.50	95-12501-70-1	95-12509-70-1	88.0
14	5.00	Cast Iron	7,000	7,000	17.50	2.50	95-14501-10-1	95-14509-10-1	100.0
16	4.00	Laminated Phenolic	8,400	8,400	19.00	3.00	95-16401-35-1	95-16409-35-1	80.0
16	4.00	Cast Iron	7,500	7,500	19.00	3.00	95-16401-10-1	95-16409-10-1	105.0
16	4.00	H.D. Polyurethane	6,000	6,000	19.00	3.00	95-16401-65-1	95-16409-65-1	109.0
16	4.00	Mold on Rubber	1,450	1,450	19.00	3.00	95-16401-70-1	95-16409-70-1	106.0
16	5.00	Polyurethane	8,000	8,000	19.00	3.00	95-16501-65-1	95-16509-65-1	115.0
16	5.00	70D Hard Polyurethane	8,000	8,000	19.00	3.00	95-16501-67-1	95-16509-67-1	115.0
18	5.00	H.D. Polyurethane	8,000	8,000	21.00	4.00	95-18501-65-1	95-18509-65-1	120.0
18	5.00	70D Hard Polyurethane	8,000	9,000	21.00	4.00	95-18501-67-1	95-18509-67-1	120.0

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. 95-16509-67-2)
Estimated weight is for swivel caster. Deduct 20 pounds for rigid casters.
All dimensions are in inches. All weights are in pounds.

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

95 Series Cross Sectional View



CASTER CONCEPTS

99 SERIES SUPER HEAVY DUTY CASTERS 35,000 maximum capacity LBS

FOR SEVERE DUTY

FEATURES

Swivel Section: Machined from C-1045 hot forged steel which has been precision machined for bearings. The swivel section features dual 9” and 12” diameter through hardened load races that use 7/8” diameter steel balls.
Kingpin: 1-1/2" diameter kingpin integrally forged into top plate features a slotted adjusting nut and heavy duty 1-1/2" sealed tapered thrust bearing
Legs: 3/4" legs are continuously welded both inside and outside for the greatest strength
Axle: 2" alloy steel
Lubrication: Pre-lubricated before shipping
Wheel: Available in single and dual-wheel configurations. Single wheel diameters range from 12” to 28”. Dual wheel diameters range from 10” to 22” as standard.
Finish: Water based acrylic black paint

BENEFITS

The 99 Series platform with heavy duty swivel casters is the ideal choice when payload protection far exceeds the capacity of the caster. The dual load race design assures smooth rotation of the caster and superior load capacity. Priced at production prices, the series offers flexibility and comfort in product design.

OPTIONS

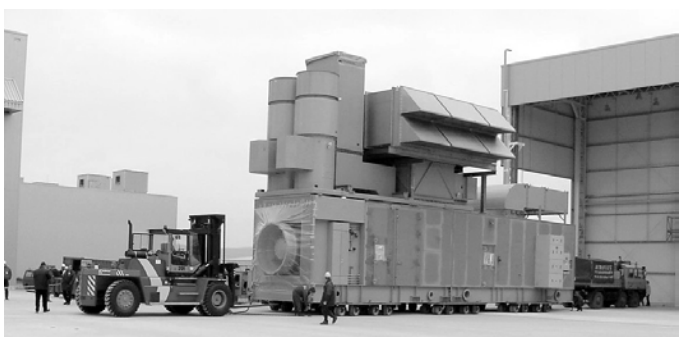
Brakes	
Poly Cam:	P
Face Contact:	F
Swivel Locks	
Vertical Mounted	V
Sealed Wheels:	SW
Toe Guard:	TG

99 series swivel sections are used as a platform for many custom designed applications.
Consult factory.

2-99-22121-69-1 shown with optional VSL

APPLICATIONS

Optimal for die handling, marine and automotive applications, the 99 Series also meets the needs for aerospace and aircraft ground support equipment.



Super Duty Wheel Casters moving a portable power generator into a test facility.

CASTER CONCEPTS

99 SERIES SUPER HEAVY DUTY CASTERS 35,000 maximum capacity LBS

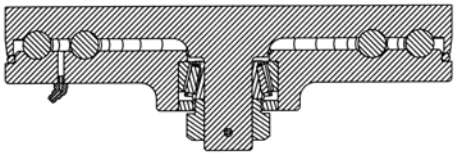
FOR SEVERE DUTY

WHEEL			CAPACITY			PART NUMBER
Dia.	Width	Material	Needle Bearing	OAH	Swivel Lead	Needle Bearing
SINGLE WHEEL						
12	5.00	Ductile	18,000	16.50	3.00	99-12501-12-1
12	5.00	H.D. Polyurethane	7,500	16.50	3.00	99-12501-67-1
15	9.00	Polyurethane Press On	8,700	19.50	3.50	99-15901-69-1
18	9.00	Polyurethane Press On	10,900	22.00	4.50	99-18901-69-1
22	8.00	Polyurethane Press On	11,000	26.00	5.50	99-22801-69-1
22	12.00	Polyurethane Press On	17,500	26.00	5.50	99-22121-69-1
28	12.00	Polyurethane Press On	21,000	32.00	6.00	99-28121-69-1
28	16.00	Polyurethane Press On	29,000	32.00	6.00	99-28161-69-1
DUAL WHEEL						
10	4.00	H.D. Forged Steel	35,000	14.50	3.00	2-99-10401-21-1
12	5.00	Ductile Iron	35,000	16.50	3.00	2-99-12501-12-1
12	5.00	HL Polyurethane	15,000	16.50	3.00	2-99-12501-67-1
18	9.00	Polyurethane Press On	21,800	22.00	4.50	2-99-18901-69-1
22	8.00	Polyurethane Press On	23,000	26.00	5.50	2-99-22801-69-1
22	12.00	Polyurethane Press On	35,000	26.00	5.50	2-99-22121-69-1

All dimensions are in inches. All weights are in pounds.

Top Plate Size	Bolt Hole Spacing	Bolt Diameter
Std: 14 x 14	12 x 12	0.75

99 Series Cross Sectional View



THE 99 SERIES PLATFORM CAN BE HIGHLY CUSTOMIZED FOR A BROAD RANGE OF APPLICATIONS.

CASTER CONCEPTS

DUAL WHEEL CASTERS

17,000 *maximum capacity* **LBS**

FEATURES

Dual wheel casters are designed for heavy duty, extra heavy duty and super duty applications. Constructed of our popular hot forged C-1045 steel swivel sections, these dual wheel casters offer the highest possible capacity at the lowest overall height. The casters feature legs that are welded to a unique skirt design for greater strength and longevity.

BENEFITS

The large footprint provides for a greater distribution of load on the floor. Additionally, the larger casters have a vertical center leg to further enhance the load distribution. Less effort is needed when changing direction as the design allows the wheels to rotate at variable rates to compensate for the shorter radius in the arc.

APPLICATIONS

Excellent for tow lines, industrial platform trucks, rugged industrial functions and other severe abuse applications.

2-99-22801-69-1 shown

OPTIONS

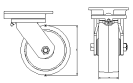
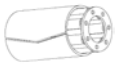
Brakes	
Poly Cam:	P
Face Contact:	F
Double Side:	DS
Swivel Locks	
Factory Installed:	L
Demountable:	DL
Sealed Swivel:	SSW
Toe Guard:	TG

All casters available in kingpinless style, consult factory.

WHEEL			CAPACITY		PART NUMBER					
Dia.	Width	Material	Roller Bearing	Tapered	OAH	Swivel Lead	Straight Roller	Precision Tapered	Series	Wt.
4	1.50	Phenolic Resin	1,200		5.62	1.50	52-04101-30-1		50	9.5
4	1.50	Polyurethane	1,350		5.62	1.50	52-04101-60-1		50	11.0
5	1.50	Phenolic Resin	1,200		6.50	1.75	52-05101-30-1		50	10.5
5	1.50	Polyurethane	1,400		6.50	1.75	52-05101-60-1		50	11.5
6	2.00	Cast Iron	1,500		7.50	2.25	52-06201-10-1		50	21.0
6	2.00	Forged Steel	1,500		7.50	2.25	52-06201-20-1		50	20.0
6	2.00	Phenolic Resin	1,500		7.50	2.25	52-06201-30-1		50	13.0
6	2.00	Polyurethane	1,500		7.50	2.25	52-06201-60-1		50	18.0
6	2.00	Mold on Rubber	820		7.50	2.25	52-06201-70-1		50	12.5
3	1.50	Polyurethane	900		5.25	1.50	62-03101-60-1		60	9.0
4	1.50	Phenolic Resin	1,200		5.62	1.50	62-04101-30-1		60	9.5
4	1.50	Polyurethane	1,350		5.62	1.50	62-04101-60-1		60	11.0
5	1.50	Phenolic Resin	1,200		6.50	1.75	62-05101-30-1		60	10.5
5	1.50	Polyurethane	1,400		6.50	1.75	62-05101-60-1		60	11.5
4	1.50	Forged Steel	2,000		5.50	2.25	66-04101-20-1		65	14.0
4	2.00	Phenolic Resin	1,600		5.50	2.25	66-04201-30-1		65	11.0
4	2.00	Polyurethane	1,500		5.50	2.25	66-04201-60-1		65	12.0
5	2.00	Forged Steel	2,000		6.50	2.25	66-05201-20-1		65	17.0
5	2.00	Phenolic Resin	2,000		6.50	2.25	66-05201-30-1		65	11.5
5	2.00	Polyurethane	2,000		6.50	2.25	66-05201-60-1		65	15.0
5	2.00	Mold on Rubber	700		6.50	2.25	66-05201-70-1		65	13.0
6	2.00	Cast Iron	2,000		7.50	2.25	66-06201-10-1		65	21.0
6	2.00	Forged Steel	2,000		7.50	2.25	66-06201-20-1		65	20.0
6	2.00	Phenolic Resin	2,000		7.50	2.25	66-06201-30-1		65	13.0
6	2.00	Polyurethane	2,000		7.50	2.25	66-06201-60-1		65	18.0
6	2.00	Mold on Rubber	820		7.50	2.25	66-06201-70-1		65	12.5

CASTER CONCEPTS

DUAL WHEEL CASTERS
17,000 maximum capacity LBS

WHEEL			CAPACITY				PART NUMBER			
 Dia.	Width	Material	 Roller	Tapered	 OAH	Swivel Lead	 Straight Roller	 Precision Tapered	 Series	Wt.
8	2.00	Cast Iron	2,000		10.12	2.25	66-08201-10-1		65	26.0
8	2.00	Phenolic Resin	2,000		10.12	2.25	66-08201-30-1		65	18.0
8	2.00	Polyurethane	2,000		10.12	2.25	66-08201-60-1		65	25.0
8	2.00	Mold on Rubber	1,000		10.12	2.25	66-08201-70-1		65	35.0
6	2.50	Mold on Rubber	1,080	1,080	8.00	2.25	72-06251-70-1	72-06259-70-1	70	37.0
6	2.50	Polyurethane	3,500	3,500	8.00	2.25	72-06251-60-1	72-06259-60-1	70	40.0
6	2.50	Phenolic Resin	3,500		8.00	2.25	72-06251-30-1		70	26.0
6	2.50	Cast Iron	3,500	3,500	8.00	2.25	72-06251-10-1	72-06259-10-1	70	37.0
8	2.50	Mold on Rubber	1,340	1,340	10.50	2.50	72-08251-70-1	72-08259-70-1	70	38.0
8	2.50	Polyurethane	3,500	3,500	10.50	2.50	72-08251-60-1	72-08259-60-1	70	40.0
8	2.50	Phenolic Resin	3,500		10.50	2.50	72-08251-30-1		70	30.0
10	2.50	Mold on Rubber	1,550	1,550	12.50	2.50	72-10251-70-1	72-10259-70-1	70	42.0
10	2.50	Polyurethane	3,500	3,500	12.50	2.50	72-10251-60-1	72-10259-60-1	70	52.0
10	2.50	Phenolic Resin	3,500	3,500	12.50	2.50	72-10251-30-1	72-10259-30-1	70	35.0
12	2.50	Mold on Rubber	1,800	1,800	14.00	2.50	72-12251-70-1	72-12259-70-1	70	51.0
12	2.50	Polyurethane	3,500	3,500	14.00	2.50	72-12251-60-1	72-12259-60-1	70	58.0
12	2.50	Phenolic Resin	3,500	3,500	14.00	2.50	72-12251-30-1	72-12259-30-1	70	43.0
6	3.00	Polyurethane	4,100	4,100	9.00	2.50	82-06301-60-1	82-06309-60-1	80	44.0
6	3.00	Phenolic Resin	4,000	4,000	9.00	2.50	82-06301-30-1	82-06309-30-1	80	39.0
6	3.00	Forged Steel	5,000	5,000	9.00	2.50	82-06301-20-1	82-06309-20-1	80	65.0
8	3.00	Polyurethane	5,000	5,000	11.00	2.50	82-08301-60-1	82-08309-60-1	80	50.0
8	3.00	Phenolic Resin	5,000	5,000	11.00	2.50	82-08301-30-1	82-08309-30-1	80	40.0
8	3.00	Forged Steel	5,000	10,000	11.00	2.50	82-08301-20-1	86-08309-20-1	80	62.0
8	3.00	Cast Iron	5,000	5,000	11.00	2.50	82-08301-10-1	82-08309-10-1	80	62.0
10	3.00	Polyurethane	6,000	6,000	13.00	2.50	86-10301-60-1	86-10309-60-1	85	58.0
10	3.00	Phenolic Resin	5,800	5,800	13.00	2.50	86-10301-30-1	86-10309-30-1	85	45.0
10	3.00	Forged Steel	10,000	10,000	13.00	2.50	86-10301-21-1	86-10309-21-1	85	81.0
10	3.00	Cast Iron	6,000	6,000	13.00	2.50	86-10301-10-1	86-10309-10-1	85	71.0
6	3.00	Forged Steel	11,000	17,000	9.00	2.50	96-06301-20-1	96-06309-20-1	95	85.0
6	5.00	H.D. Polyurethane		7,400	9.00	2.50		96-06509-65-1	95	90.0
8	3.00	H.D. Polyurethane		6,200	11.00	2.50		96-08309-65-1	95	75.0
8	4.00	Polyurethane	7,600	7,600	11.00	2.50	96-08401-60-1	96-08409-60-1	95	75.0
8	4.00	H.D. Forged Steel		17,000	11.00	2.50		96-08409-21-1	95	112.0
10	3.00	H.D. Polyurethane	7,400	7,400	13.00	2.50	96-10301-65-1	96-10309-65-1	95	88.0
10	3.00	Laminated Phenolic	6,000	6,000	13.00	2.50	96-10301-35-1	96-10309-35-1	95	67.0
10	3.00	H.D. Forged Steel	12,000	13,000	13.00	2.50	96-10301-21-1	96-10309-21-1	95	123.0
10	4.00	H.D. Forged Steel		17,000	13.00	2.50		96-10409-21-1	95	140.0
10	4.00	H.D. Polyurethane	10,000	10,000	13.00	2.50	96-10401-65-1	96-10409-65-1	95	103.0
10	4.00	Polyurethane	8,400	8,400	13.00	2.50	96-10401-60-1	96-10409-60-1	95	90.0
10	5.00	H.D. Polyurethane	12,000	12,000	13.00	2.50	96-10501-65-1	96-10509-65-1	95	103.0
12	3.00	H.D. Polyurethane	7,700	7,700	15.50	2.50	96-12301-65-1	96-12309-65-1	95	108.0
12	3.50	Laminated Phenolic	8,500	8,500	15.50	2.50	96-12351-35-1	96-12359-35-1	95	97.0
12	4.00	H.D. Polyurethane	11,000	11,000	15.50	2.50	96-12401-65-1	96-12409-65-1	95	120.0
12	4.00	70D H.L. Polyurethane	13,000	13,000	15.50	2.50	96-12401-67-1	96-12409-67-1	95	100.0
12	5.00	H.D. Polyurethane	12,500	12,500	15.50	2.50	96-12501-65-1	96-12509-65-1	95	150.0
12	5.00	70D H.L. Polyurethane	15,000	15,000	15.50	2.50	96-12501-67-1	96-12509-67-1	95	130.0
16	5.00	H.D. Polyurethane	16,000	16,000	19.00	4.00		96-16509-65-1	95	200.0
16	5.00	H.D. Polyurethane	16,000	17,000	19.00	4.00		96-16509-67-1	95	200.0
18	5.00	H.D. Polyurethane	17,000	17,000	23.00	4.00		96-18509-65-1	95	220.0
18	5.00	H.D. Polyurethane	17,000	17,000	23.00	4.00		96-18509-67-1	95	220.0

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. 96-12409-65-2)
See series codes for top plate and bolt hole dimensions.
All dimensions are in inches. All weights are in pounds.

CASTER CONCEPTS

FLANGED WHEEL CASTERS

10,000 *maximum capacity* **LBS**

FEATURES

The flanged wheels are constructed of premium cast iron, ductile iron, or forged steel for high strength and long wear. These wheels are designed to operate on a steel track for minimal guidance and rolling effort.
The flanged wheel casters are rigid casters used for locating fixtures in a precise position for indexing through a work cycle.

80-06209-18-2 shown

APPLICATIONS

Applications include production lines, foundry cooling lines, mobile cranes, amusement parks, trollies, autoclave tooling, etc.

WHEEL			CAPACITY			PART NUMBER			
Dia.	Width	Material	Roller Bearing	Tapered	OAH	Straight Roller	Precision Tapered	Series	Wt.
Single Flanged Rigid Casters									
3.50	1.30	Cast Iron	1,000		5.38	50-03101-18-2		50	10.0
3.50	1.30	Cast Iron	1,000		5.38	60-03101-18-2		60	10.0
5.00	2.06	Forged Steel	6,000	10,000	8.00	80-05201-28-2	80-05209-28-2	80	30.0
5.00	2.06	Forged Steel	6,000	10,000	8.50	90-05201-28-2	90-05209-28-2	90	30.0
6.13	1.69	Cast Iron	3,000	3,500	8.06	70-06201-18-2	70-06209-18-2	70	36.0
6.13	1.69	Cast Iron	3,000	5,000	8.56	80-06201-18-2	80-06209-18-2	80	39.0
7.87	1.75	Cast Iron	2,500	2,500	10.06	65-08201-18-2	65-08209-18-2	65	29.0
7.87	1.75	Cast Iron	2,500	2,500	10.44	70-08201-18-2	70-08209-18-2	70	30.0
7.87	2.25	Cast Iron	3,500	3,500	10.44	70-07251-18-2	70-07259-18-2	70	30.0
7.87	2.25	Cast Iron	3,500	3,500	10.44	80-07251-18-2	80-07259-18-2	80	33.0
8.00	2.25	Cast Iron	3,500	3,500	10.50	70-08251-18-2	70-08259-18-2	70	34.0
8.00	2.25	Cast Iron	3,500	3,500	10.50	80-08251-18-2	80-08259-18-2	80	37.0
8.00	2.38	Steel	6,000	10,000	10.50	80-08201-28-2	80-08209-28-2	80	63.0
8.00	2.38	Steel	6,000	10,000	11.00	90-08201-28-2	90-08209-28-2	90	63.0
10.00	4.00	Ductile Iron		12,000	14.50		95-10409-18-2	95	150.0
15.00	2.50	Cast Iron	8,000		18.44	95-15251-18-2		95	
Dual Flanged Rigid Casters									
5.00	1.69	Forged Steel	6,000	10,000	8.00	80-05201-29-2	80-05209-29-2	80	32.0
5.00	1.69	Forged Steel	6,000	10,000	8.50	90-05201-29-2	90-05209-29-2	90	32.0
6.00	2.13	Cast Iron	3,500	3,500	8.00	70-06201-19-2	70-06209-19-2	70	38.0
6.00	2.13	Cast Iron	5,000	6,000	8.50	80-06201-19-2	80-06209-19-2	80	41.0
8.00	1.76	Steel	6,000	10,000	10.50	80-08201-29-2	80-08209-29-2	80	65.0
8.00	1.76	Steel	6,000	10,000	11.00	90-08201-29-2	90-08209-29-2	90	65.0
10.00	3.00	Ductile Iron		12,000	14.50		95-10309-19-2	95	150.0

Capacity rating is for manual operation. For power operation, please consult the factory.
All dimensions are in inches. All weights are in pounds.
For rail information and flanged wheel dimensions see page 54

	Top Plate Size	Bolt Hole Spacing	Bolt Diameter
STD 30	4.0 x 4.5	2.625 x 3.625 Slotted to 3.0 x 3.0	0.375
STD 50	4.0 x 5.0	2.625 x 3.625 Slotted to 3.0 x 3.0	0.375
STD 60	4.5 x 6.25	2.428 x 4.93 Slotted to 3.375 x 5.25	0.5
STD 70	5.0 x 7.25	3.375 x 5.25 Slotted to 4.125 x 6.125	0.5
STD 80	6.0 x 7.5	4.5 x 6.0	0.5
STD 90/91/95	8.5 x 8.5	7.0 x 7.0	0.625

CASTER CONCEPTS

PNEUMATIC WHEEL CASTERS

7,260 *maximum capacity* LBS

FEATURES

The complete line of single or dual-wheel pneumatic casters offers load carrying capacities from 320 pounds to 7,260. The swivel sections are constructed of C-1045 hot forged steel with double row ball bearing swivels for long service life. The 80 Series and larger casters have tapered thrust bearings in the swivel. The legs are continuously welded both inside and outside for added strength.

Standard: Wheels 16” and larger are supplied with high-speed tapered bearings standard.

65-12401-76-1 with optional PPCB brake

BENEFITS

These casters offer the greatest possible protection to both loads and floors. The pneumatic tires cushion the load and roll over obstructions with ease. These casters provide longer wheel life, less maintenance and high shock absorbency.

The long swivel offset aids in swiveling and tracking in towing applications. When the caster is subjected to towing, tapered bearings are recommended.

APPLICATIONS

Excellent shock absorbing benefits make these casters ideal for uneven floors and indoor and outdoor rough terrain They are ideal on aircraft ground support equipment, helicoptor dollies, roof maintenance equipment, mobile construction shelters, and other equipment carrying electronics or other highly sensitive materials.

OPTIONS

Brakes	
Poly Cam:	PPCB-xx
Face Contact:	FCB-xx
Swivel Locks	
Factory Installed	SL-xx
Demountable:	DSL-xx
Sealed Swivel:	Consult Factory
Toe Guard:	TG-xx

xx – Insert series code

Dual pneumatic casters supporting an aircraft wing dolly.

CASTER CONCEPTS

PNEUMATIC WHEEL CASTERS

7,260 maximum capacity LBS

WHEEL			CAPACITY			PART NUMBER		
Dia.	Size	Ply Rating	Roller Bearing	OAH	Swivel Lead	Straight Roller	Series	Wt.
8	2.80/4	4	320	11.00	2.63	30-08301-76-1	30	13.0
8	2.80/4	4	320	11.00	2.63	50-08301-76-1	50	13.0
8	2.80/4	4	320	11.00	2.63	60-08301-76-1	60	13.0
10	4.00/4	4	530	13.00	3.25	30-10351-76-1	30	15.0
10	4.00/4	4	530	13.00	3.25	50-10351-76-1	50	15.0
10	4.00/4	4	530	13.00	3.25	60-10351-76-1	60	15.0
12	4.10/6	4	675	15.50	3.50	30-12401-76-1	30	18.0
12	4.10/6	4	675	15.50	3.50	50-12401-76-1	50	18.0
12	4.10/6	4	675	15.50	3.50	60-12401-76-1	60	18.0
14	5.30/6	4	710	17.75	4.00	70-14451-76-1	70	31.0
DELUXE TYPE WITH TAPERED ROLLER WHEEL BEARINGS								
16	4.80/8	6	1230	19.13	4.50	70-16609-76-1	70	37.0
16	4.80/8	6	1230	19.13	4.00	80-16609-76-1	80	45.0
18	5.70/8	6	1560	21.50	4.50	80-18609-76-1	80	55.0
18	5.70/8	8	1655	21.50	4.50	80-18609-77-1	80	56.0
21	6.90/9	10	2420	24.25	5.00	90-21609-76-1	90	80.0
23	6.50/10	10	2775	26.25	5.00	90-23609-76-1	90	87.0
25	7.50/10	10	3630	28.75	5.00	90-25609-76-1	90	90.0
DUAL WHEEL PNEUMATIC CASTERS								
8	2.80/4	4	640	11.00	2.63	32-08301-76-1	30	20.0
8	2.80/4	4	640	11.00	2.63	52-08301-76-1	50	20.0
8	2.80/4	4	640	11.00	2.63	62-08301-76-1	60	20.0
10	4.10/4	4	1060	13.00	3.25	32-10351-76-1	30	22.5
10	4.10/4	4	1060	13.00	3.25	52-10351-76-1	50	22.5
10	4.10/4	4	1060	13.00	3.25	62-10351-76-1	60	22.5
12	4.10/6	4	1350	15.50	3.50	32-12401-76-1	30	30.0
12	4.10/6	4	1350	15.50	3.50	52-12401-76-1	50	33.0
12	4.10/6	4	1350	15.50	3.50	62-12401-76-1	60	30.0
12	4.10/6	4	1350	15.50	4.00	72-12401-76-1	70	36.0
14	5.30/6	4	1420	17.75	4.00	72-14451-76-1	70	45.0
DUAL WHEEL DELUXE TYPE WITH TAPERED ROLLER WHEEL BEARINGS								
16	4.80/8	6	2460	19.13	4.50	72-16609-76-1	70	55.0
16	4.80/8	6	2460	19.13	4.50	82-16609-76-1	80	71.0
18	5.70/8	6	3120	21.50	4.50	82-18609-76-1	80	82.0
18	5.70-8	8	3310	21.50	4.50	82-18609-77-1	80	84.0
21	6.90/9	10	4840	24.25	5.00	92-21609-76-1	90	130.0
23	6.50/10	10	5550	26.25	5.00	92-23609-76-1	90	135.0
25	7.50/10	10	7260	28.75	5.00	92-25609-76-1	90	142.0

All dimensions are in inches. All weights are in pounds.

	Top Plate Size	Bolt Hole Spacing	Bolt Diameter
STD 30	4.0 x 4.5	2.625 x 3.625 Slotted to 3.0 x 3.0	0.375
STD 50	4.0 x 5.0	2.625 x 3.625 Slotted to 3.0 x 3.0	0.375
STD 60	4.5 x 6.25	2.438 x 4.938 Slotted to 3.375 x 5.25	0.5
STD 70	5.25 x 7.25	3.375 x 5.25 Slotted to 4.125 x 6.125	0.5
STD 80	6.0 x 7.5	4.5 x 6.0	0.5
STD 90	8.5 x 8.5	7.0 x 7.0	0.625

Multi-functional Static Condition Caster Test Machine

Caster Concepts, Inc.

Written By: Dr. Elmer Lee

Introduction:

This paper details the functionality and specifications of the multi-functional static condition caster tester developed by Caster Concepts Inc.(CCI) This test machine was built in order to verify and quantify the static characteristics of CCI's current and future product line. Specifically, the static tester has the capabilities of continuously measuring the stiffness profile of spring loaded and other shock absorption casters along their entire travel length. It can also be used to determine tread bond strength and quality of elastomer treaded wheels. Additionally, the static tester can continuously measure the resulting footprint of a wheel with respect to the load applied thus capturing the change in footprint area as the load applied to the wheel is varied.

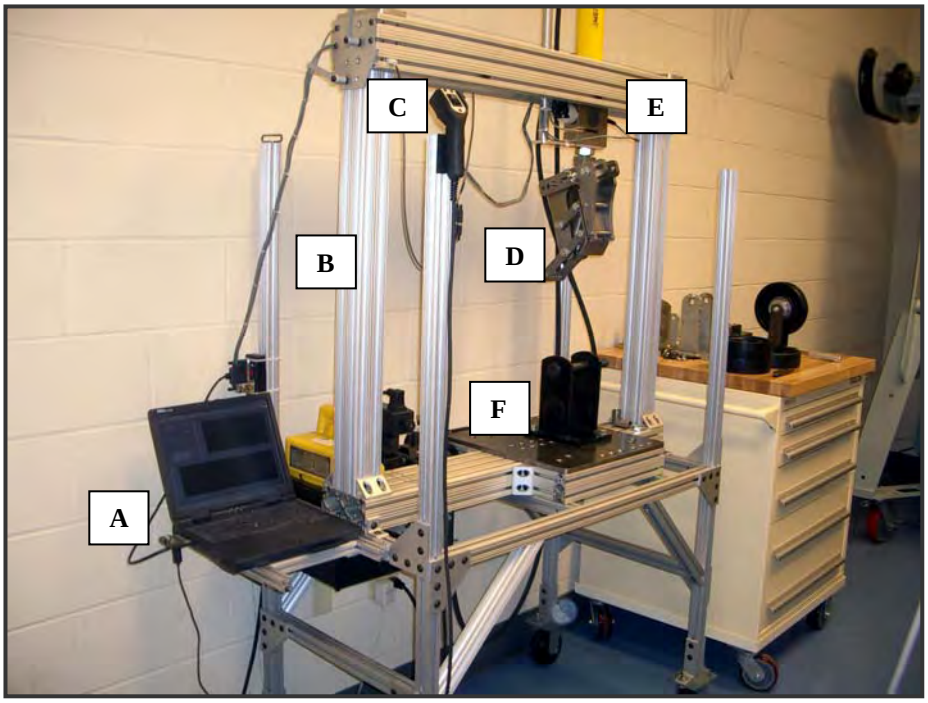
The goal of this paper is to explain the functionality of this machine and provide an understanding of the data and benefits that can be derived from its operation. This paper will describe the components that make up the test machine, outline its operation and illustrate some sample data.

General Capabilities:

In designing the spring loaded caster stiffness testing machine, our aim was to create a low cost multi-functional machine capable of generating useful data for a wide range of products. In order to reduce the cost and maintain flexibility, much of the machine is un-automated. Since operation and testing time of each specimen is relatively short, an operator is required to be present at all times. The operator duties in running the test machine include loading and unloading specimens, initiating of the data acquisition software and controlling the force actuation mechanism. Actual test procedures will be discussed in the latter part of this report.

The machine is capable of testing casters as small as a 30 series caster to as large as a 90 series caster. The mounting surface of the test machine have pre-machined and tapped holes that match standard top plates for casters from the 30 series to the 90 series. For casters with custom top plate mounting patterns, toe clamps and flexible fixturing tools are used to secure the caster to the machine base.

The machine is capable of generating and measuring 20,000 pounds of force though its hydraulic cylinder and S beam load cell. The cylinder has 10 inches of travel measured through a linear encoder. Its plunging height can be further adjusted to accommodate various caster sizes with the addition of 6" extension rods.



A. Laptop Based Data Recording

B. Aluminum Frame

C. Control Dongle

D. End Effecter

E. Sensor Package

F. Sample Test Base

Actuation System:

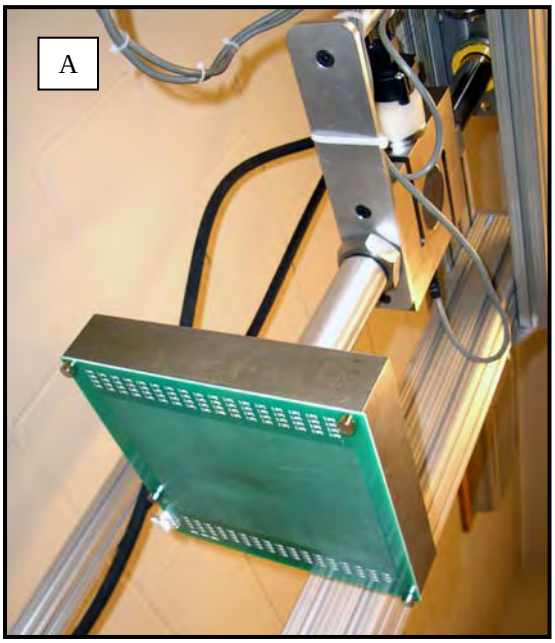
The static tester has only one powered axis of movement. The vertical movement of the plunging arm is powered by an Enerpac hydraulic piston, model number RR-1010. The piston is double acting and has a maximum pressure capacity of 10,000 psi. The maximum force this piston can exert is about 20,000 pounds. And again, as mention before, the stroke length is 10 inches.

The hydraulic pressure is supplied to the piston via an Enerpac electrically powered submerged pump, model number PER1401B. The pump has a hand held toggle control mechanism that simply turns the pump on or off. Flow control capabilities were added by placing an Enerpac V-66F flow control device on both hydraulic lines leading to the piston.

End Effectors for Multi-functionality:

In order to accommodate the various tests that this single machine needs to perform, various end effectors were design to be attached to the end of the load cell. The most simple is the solid push rod end effecter used in the stiffness test to push down on the arms of a spring loaded casters. For bond tests, a four bar linkage jaw has been designed to grab and pull on the treads of wheels. As the bond test end effecter pulls up on the tread tongue, the jaws are designed to close tighter and grip firmer. This design works especially well for high elongation elastomers which tends to neck down with increasing elongation. This guarantees that the tongue will not slip off during the test. The footprint

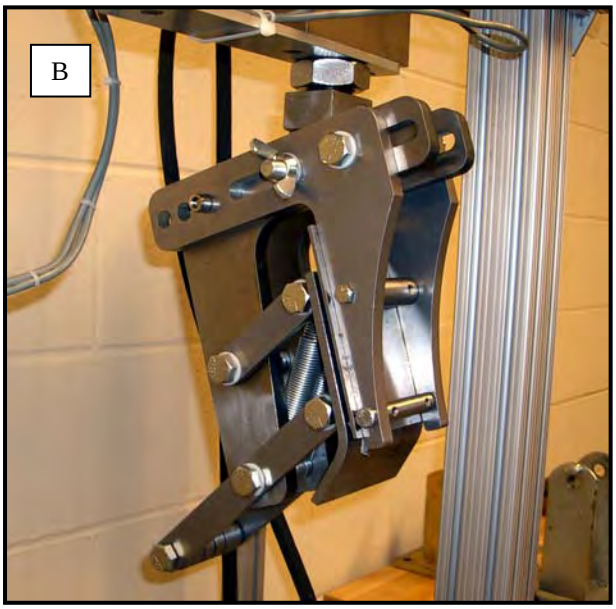
tester is composed on a steel plate under which, a specially designed circuit board is mounted. This circuit board has 120 parallel conductive lines, spaced 0.050" apart, running the length of the board. Each line is connected to the adjacent lines through a 100 Ohm resistor. A copper wire is placed onto the circumferences of the wheel to be tested. As the wheel makes contact and flattens out, the copper wire successively shorts the parallel lines thereby reducing the overall resistance of the circuitry. The change in resistance is measured and the footprint can then be deduced.

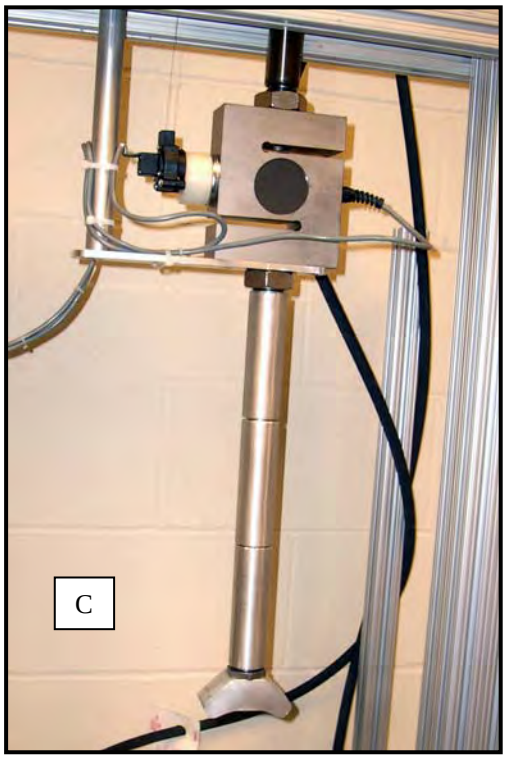


A. Foot Print Test End Effecter

B. Tread Bond Test End Effecter

C. Stiffness Test End Effecter



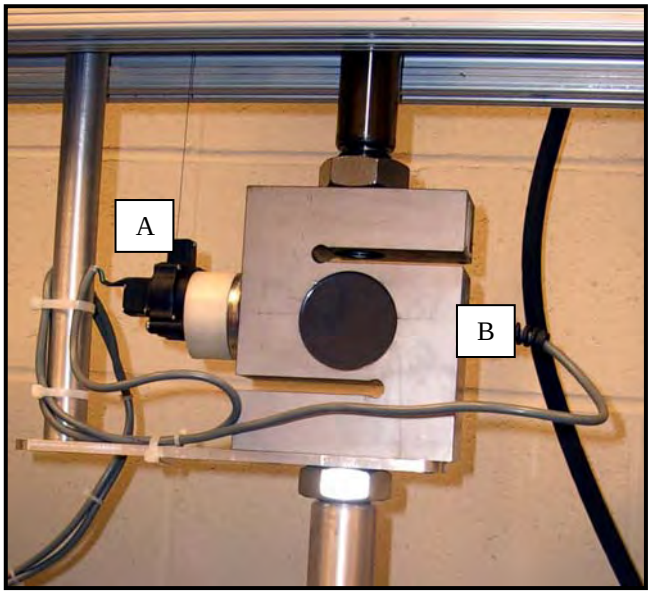


CASTER CONCEPTS

Sensors:

The stiffness testing machine relies on two sensors to generate data. The first is a linear transducer manufactured by Unimeasure, model number LX-EP-10. The transducer has a digital encoder wheel coupled to a steel cable. Movement in the cable results in a change in state of the encoder wheel. The transducer outputs a standard TTL quadrature signal that can be read by a digital counter or data acquisition hardware installed within a computer, as is our case. The transducer requires an excitation at least 30 mA at 5 volts. As in our case, this usually can be provided through data acquisition hardware. The LX-EP-10 has a 10 inch travel range and has a resolution of about 0.004 inches.

The second sensor is an S-beam load cell manufactured by Precision Transducers, model number ST-10,000kg. As in most S-beam load cells, this transducer relates force exerted upon it to a change in electrical resistance built within the cell. Circuitry in the load cell, namely a wheatstone bridge, translates the change in resistance to a voltage output. The ST-10,000 requires an excitation of at least 5 volts and a maximum of 15 volts. The voltage output is directly linked to the input voltage. Each load cell is calibrated and measured at the factory to precisely understand this relationship. For the ST-10,000 installed in the test machine, this particular load cell has been measured to output 2.001mV/V of input at the full weight. In other words, if we were to excite the load cell at 10 volts and place 10,000 kg of mass onto the load cell, the resulting voltage output would be 20.01mV. Precision Transducers guarantees linearity to within 0.017%. So if we place half the weight as before with the same excitation, the voltage output should be half as well. As with the linear transducer, the voltage output is measured with data acquisition hardware and the software translates the voltage measurements to corresponding forces. Resolution of the load cell is limited by EMF noise in the surrounding environment. As a result, the minimum resolution is approximately 35 pounds.



A. Linear Transducer

B. S Type Load Cell

CASTER CONCEPTS

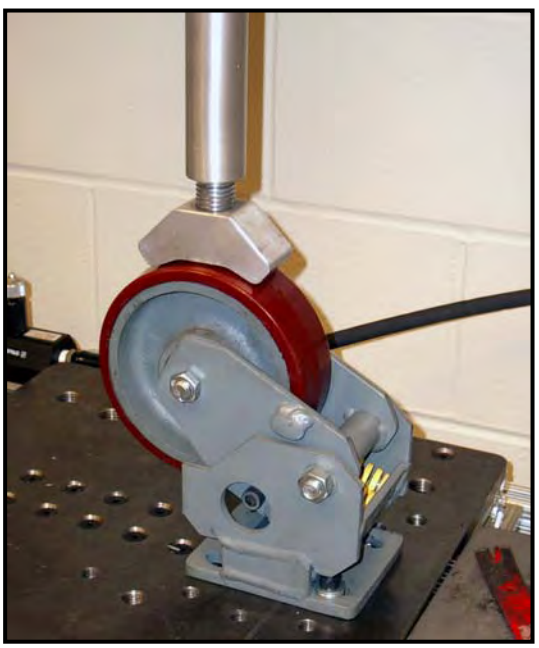
Sources of Error:

Errors in data acquisition can come from a variety of sources. Mechanical structures and elements deflecting or creeping under load result in erroneous readings from the linear displacement transducer. For example, the aluminum support beams were design to handle loads of greater than 20,000 pounds. However, at that load maximum deflection was calculated to be less than 1/16 of an inch.

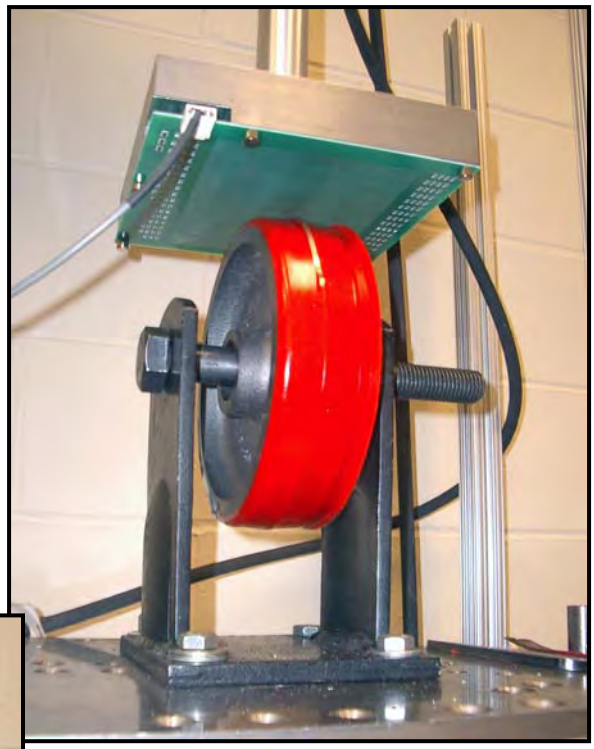
The most common source of error comes from the sensors themselves. For example, the linear encoder is simply an optical rotary encoder which rotates as a spool of wire is pulled. The wire is returned to the spool through a torsional spring. However, it the return travel velocity is to large, slack develops on the wire resulting in erroneous displacement data. We thus limit the traveling speed of the hydraulic piston to no more than about 1 inch per second. The load cell is affected by ambient electrical and magnetic noise. The low voltage signal that the load cell outputs can often times be masked by electrical noise. By filtering the data through software low pass filters and time averaging, we can mitigate these effects. However, the minimum resolution of the load cell is about 35 pounds.

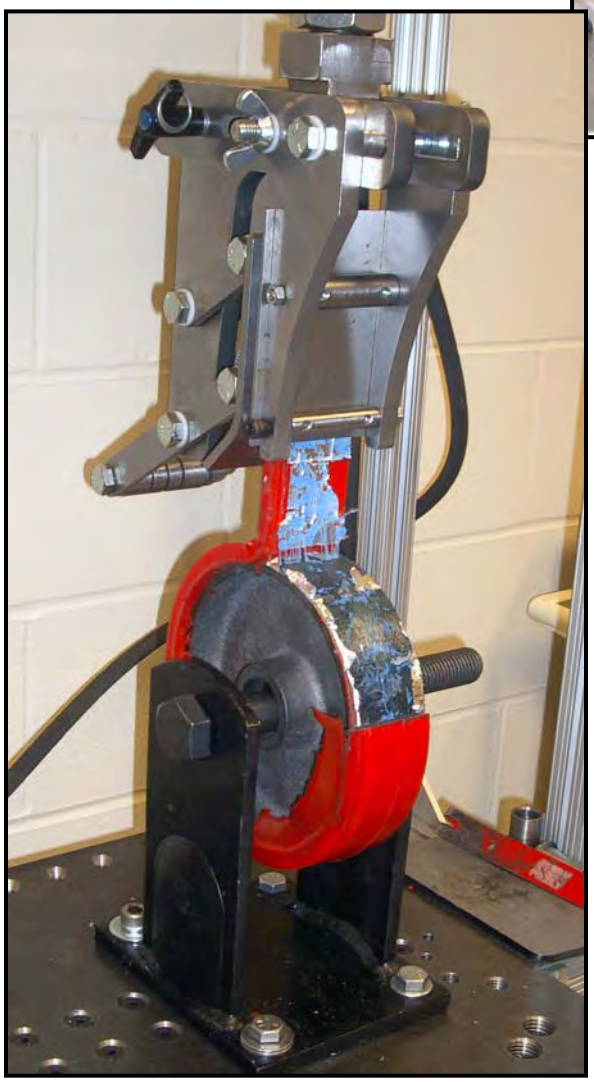
Test Procedures:

For the most part, the static test machine is very straight forward to operate. In order to perform stiffness measurement of spring loaded casters, a sample caster is bolted onto the machine base, the plunger end effecter is attached to the load cell end, the software is initialized, and the operator plunges the piston downward to displace the spring loaded caster. The computer based measurement system will continuously record both the displacement data as well as its corresponding load. The data that results is plotted onto a graph depicting a force vs. displacement graph. The stiffness or spring constant of the spring loaded caster can then easily be extracted by determining the slope of that graph. Below is an example of such a graph. One should note that not only can the stiffness of the spring loaded caster be understood from this graph, but we can also observe the linearity of the spring constant, in other words understanding if and how the spring constant changes as the arm of the spring loaded caster is displaced. We can also observe the amount of preload within the springs of the caster and measure its total travel length.



In order to run the footprint measurement tests, the footprint end effecter is mounted on to the test machine. The custom designed circuit board is attached onto the bottom of the mount plate and the input/output cable is connected. A voltage signal is transmitted through this cable to the PC data acquisition system and allows the computer to interpret the signals and record a corresponding foot print value. In operation, the plate is lowered onto the test wheel, which has a piece of cooper tape attached to its circumference. As the wheel makes contact to the circuit board,





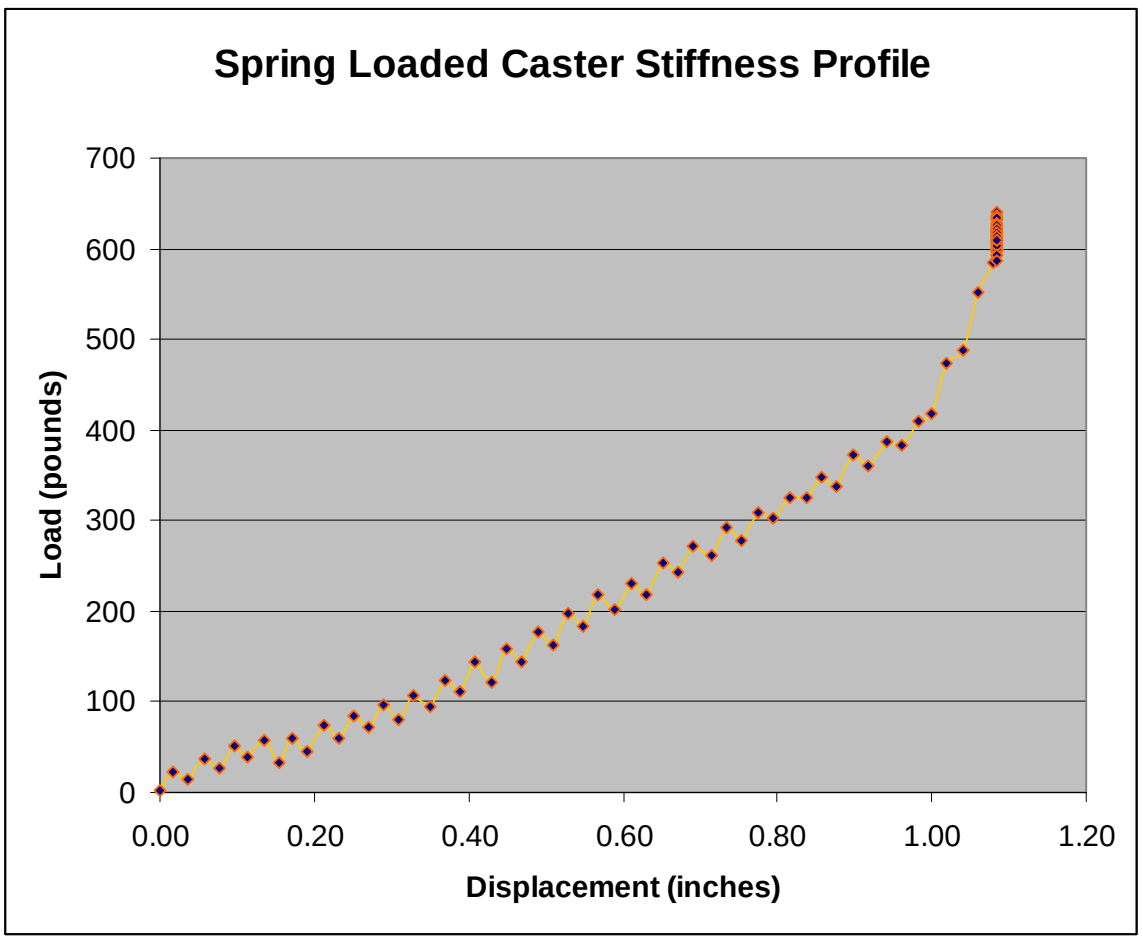
the copper tape creates an alternate circuit of essentially zero ohmic resistance. In other words it shorts out certain traces in the circuit board. As a result, the total ohmic resistance is reduced and circuitry on the board creates a corresponding, linear change in voltage output. As the wheel flattens with additional load, more traces are shorted, thereby changing the output voltage continuously. The results thus show a continuous correspondence between load and footprint.

For a pull test, another end effecter is used, that of our custom designed clamping jaws. An elastomer tread wheel is specially prepared such that a bond is prevented from forming on about a 6” section of the tread. This creates a tongue which the jaws of our end effecter can easily grab. The wheel is loaded onto the test machine and the tongue is inserted into the jaws. With the software initialized, the hydraulic piston begins to pull on the tongue and, as in the other

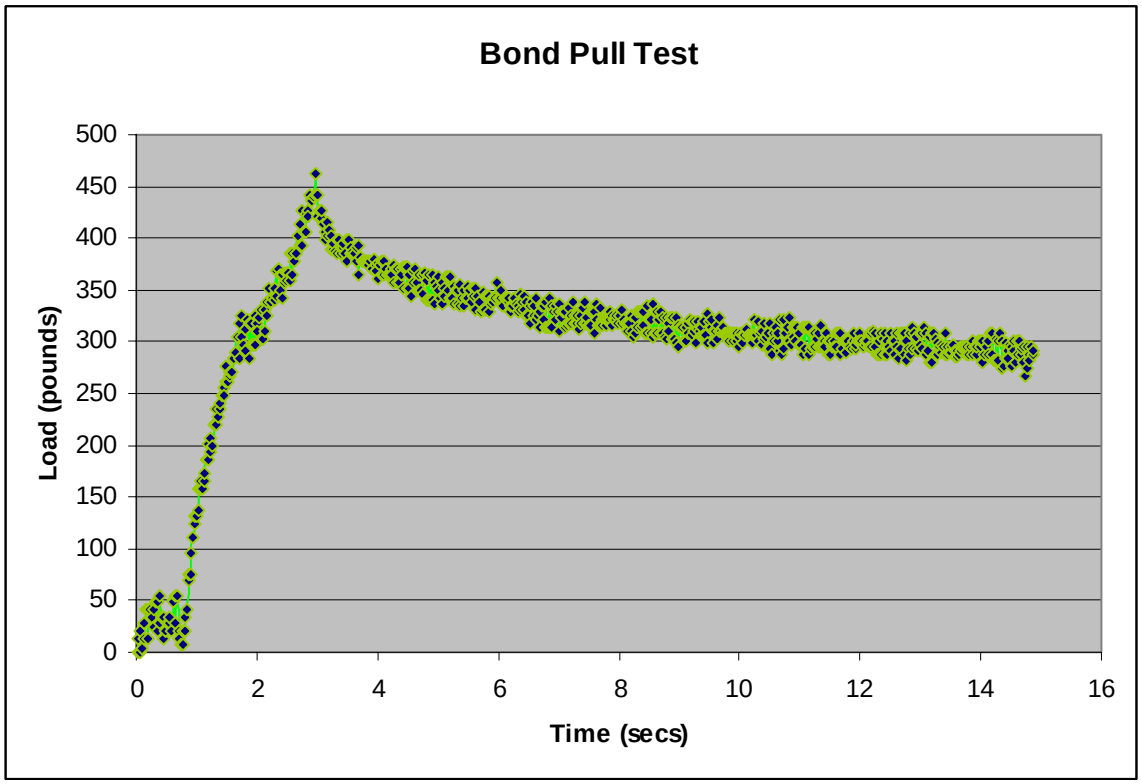
tests; the force/displacement data is recorded. The bond test software is modified to also record the maximum force. The gives us an understanding of the peak force to tear the bond as well as the sustained force to continue to progress the tear along the wheel/tread interface. Understanding both values is important to correctly evaluate the quality of adhesion between the tread and wheel.

Results:

A sample graph of a spring stiffness test is shown below. The graph shows the relationship between the force applied the movement or displacement in the spring loaded caster. From this graph we can note that there is insignificant preloading in the springs and that the stiffness profile is fairly linear for a majority of its travel. At the very end of its travel the springs exhibit a small amount of non-linearity right before it hits the stops. The total travel is about 1.08 inches and its spring constant is approximately 400 pounds/inch. The saw tooth waves of the graph show the noise in the data. As mentioned before, the resolution in the load cell is approximately 35 pounds.

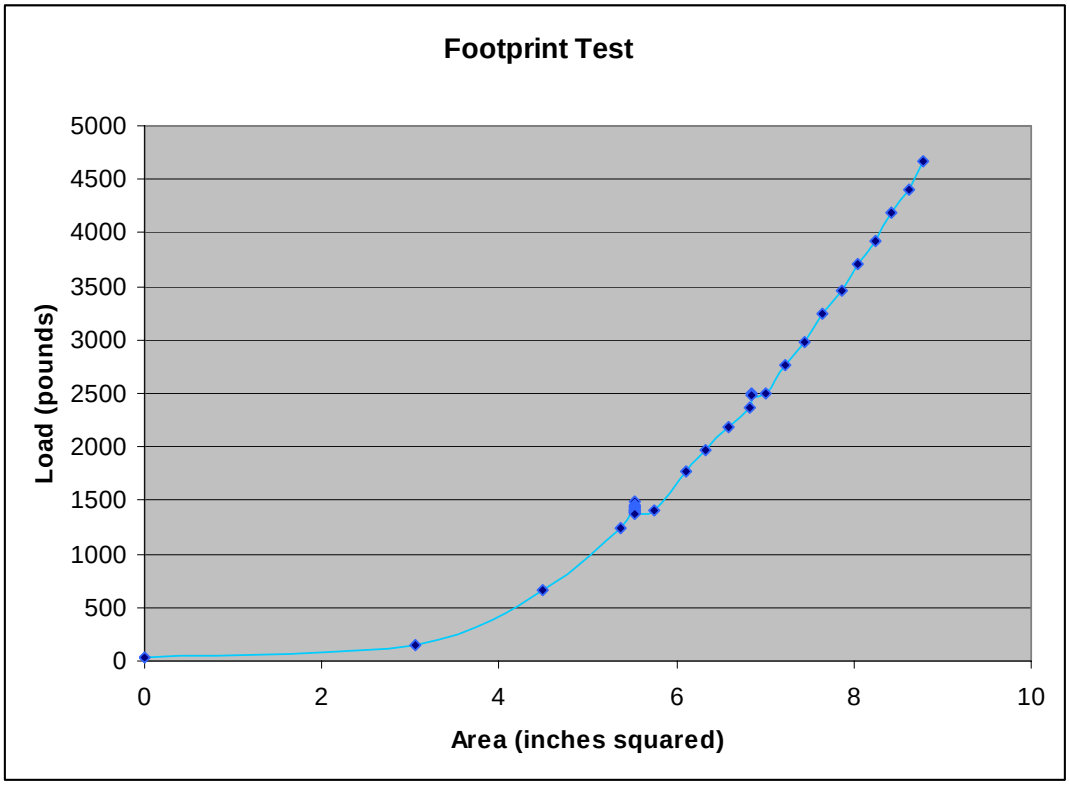


A sample data set of a bond pull test is graphed below. The results show that as the tread tongue is pulled the resulting force increases quickly to reach a maximum, in this case about 450 pounds. At the maximum, substantial bond failure occurs. The tread delaminates from the wheel hub. Tear is initiated and once started, the graph shows that it requires far less force to continue. We see that as time progresses, the force reaches an asymptotic value, in this case about 300 pounds. This is the force required to continue to tear the bond. Below this amount, any tear will not continue to grow. It is important to understand both the maximum and the sustained force values. It is important that bond quality be adequate such that large sudden shear forces do not rip the tread away. Such an understanding would come from measuring the maximum pull force. Likewise, it is equally important that wheels with pre-existing microscopic levels of porosity are able to withstand daily wear which is capable of growing micro-cracks into larger tears. Such would be evident by understanding the sustained level of force needed to continue the tear.



Lastly, sample data is presented in the graph below depicting the relationship between the applied load and the resulting footprint. As one would expect, the relationship is highly non-linear just as the load is being applied. A small increase in force results in a large increase in footprint. However, as the urethane tread is compressed close to its strength limits, the load to footprint relationship exhibits far more linearity. Testing for this relationship allows us to provide customers with an exact load to footprint relationship. While there exists formulates which can predict such a relationship, they

are prone to error because they require certain material properties, such as the modulus of the tread material to be precisely known. It is commonly understood that the modulus of elastomers are highly strain dependent and thus difficult to pin down to one single number. Testing is the only way to guarantee a precise understanding for the load to footprint relationship.



Conclusions:

With a firm understanding of the static characteristics of our casters, CCI now has the ability to scientifically guarantee quality and consistency over their broad and often custom designed product line. This static test machine has played an invaluable role in quantifying tread bond quality, spring stiffness consistency, and wheel footprint characteristics. The static test machine has been an important part of CCI's testing laboratory. Coupled with our dynamic caster simulation machine, which is able to subject our casters to a number of real world conditions, including various loads, speeds and floor conditions, the static test machine provides a clear and comprehensive picture of our products performance.

Questions and comments are always welcomed. Please contact Dr. Elmer Lee elmerlee@casterconcepts.com about our testing facilities. Also, Mr. Ben Miles, our chief engineer, would be happy to help with caster applications and products. He can be reached at bmiles@casterconcepts.com.

V-GROOVE WHEEL CASTERS

15,000 maximum capacity LBS

FEATURES

V-groove caster swivel sections are hot forged from C-1045 steel. The wheels are highly adaptable and can operate on angle iron track or on normal floor surfaces. A relief groove at the base of the "V" equalizes the load to each face of the angle track. In addition, all wheel faces and "V" grooves are machined concentric to the bore for proper tracking. The wheel bearings are either straight roller bearings or precision tapered roller bearings.

80-10309-26-2 shown

APPLICATIONS

V-groove wheels are used for exceptionally heavy loads where precise alignment or indexing of equipment is necessary. These casters are capable of guiding industrial ovens, paint booths and other similar equipment.

WHEEL			CAPACITY				PART NUMBER			
Dia.	Width	Material	Roller Bearing	Tapered	OAH	Swivel Lead	Straight Roller	Precision Tapered	Series	Wt.
4	2.00	Cast Iron	1,000		5.63	1.50	50-04201-15-1		50	7.0
4	2.00	Cast Iron	1,000		5.63	1.50	60-04201-15-1		60	10.0
6	2.50	Cast Iron	2,000	2,000	7.50	2.50	65-06251-15-1	65-06259-15-1	65	23.0
6	2.50	Cast Iron	2,500	2,500	8.00	2.50	70-06251-15-1	70-06259-15-1	70	27.0
6	3.00	Forged Steel	5,000	5,000	8.50	2.50	80-06301-25-1	80-06309-25-1	80	45.0
6	3.00	Forged Steel	6,000	10,000	8.50	2.50	85-06301-25-1	85-06309-25-1	85	45.0
6	3.00	Forged Steel	6,000	10,000	9.00	2.25	90-06301-25-1	90-06309-25-1	90	60.0
6	3.00	Forged Steel		15,000	9.00	2.25		95-06309-26-1	95	50.0
8	2.50	Cast Iron	2,500	2,500	10.50	2.50	70-08251-15-1	70-08259-15-1	70	35.0
8	3.00	Cast Iron	2,000	2,000	10.13	2.50	65-08301-15-1	65-08309-15-1	65	36.0
8	3.00	Cast Iron	3,500	3,500	10.50	2.50	70-08301-15-1	70-08309-15-1	70	40.0
8	3.00	Forged Steel	3,500	3,500	10.50	2.50	70-08301-25-1	70-08309-25-1	70	33.0
8	3.00	Forged Steel	5,000	5,000	10.50	2.50	80-08301-25-1	80-08309-25-1	80	45.0
8	4.00	Forged Steel	5,000	5,000	10.50	2.50	80-08401-25-1	80-08409-25-1	80	55.0
8	4.00	Forged Steel	8,000	8,000	11.00	2.25	90-08401-25-1	90-08409-25-1	90	73.0
8	4.00	Forged Steel	8,400	10,000	10.50	2.50	85-08401-25-1	85-08409-25-1	85	55.0
8	4.00	Forged Steel	8,400	10,000	11.00	2.25	95-08401-25-1	95-08409-25-1	95	73.0
8	4.00	Forged Steel		15,000	11.00	2.25		95-08409-26-1	95	73.0
10	3.00	Cast Iron	3,500	3,500	12.50	2.50	70-10301-15-1	70-10309-15-1	70	45.0
10	3.00	Cast Iron	4,000	4,000	12.50	2.50	80-10301-16-1	80-10309-16-1	80	55.0
10	3.00	Cast Iron	4,000	4,000	13.00	2.50	90-10301-16-1	90-10309-16-1	90	65.0
10	3.00	Forged Steel	5,000	5,000	12.50	2.50	80-10301-26-1	80-10309-26-1	80	55.0
10	3.00	Forged Steel	6,000	6,000	12.50	2.50	85-10301-26-1	85-10309-26-1	85	53.0
10	3.00	Forged Steel	8,000	8,400	13.00	2.50	90-10301-26-1	90-10309-26-1	90	68.0
10	4.00	Forged Steel	5,000	5,000	12.50	2.50	80-10401-25-1	80-10409-25-1	80	74.0
10	4.00	Forged Steel	8,400	10,000	12.50	2.50	85-10401-25-1	85-10409-25-1	85	74.0
10	4.00	Forged Steel	8,000	8,000	13.00	2.50	90-10401-25-1	90-10409-25-1	90	89.0
10	4.00	Forged Steel	8,400	10,000	13.00	2.50	95-10401-25-1	95-10409-25-1	95	89.0
10	4.00	Forged Steel		15,000	13.00	2.50		95-10409-26-1	95	89.0
12	4.00	Ductile Iron	8,400	10,000	15.50	2.50	91-12401-16-1	91-12409-16-1	91	141.0
12	5.00	Ductile Iron	9,500	10,000	15.50	2.50	91-12501-16-1	91-12509-16-1	91	157.0

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. 95-10409-26-1-2)
Estimated weight is for swivel caster. Deduct 20 percent for rigid casters.
For specific V-groove dimensions, see page 52.
All dimensions are in inches. All weights are in pounds.

CASTER CONCEPTS

SOFTECH WHEELS
600 maximum capacity LBS

FEATURES

Bearings: Precision ball or straight roller
Temperature: Maximum to 230˚ F.
Hardness: 75 Durometer A Scale

Softech wheels feature a soft, non-marking tread on a rust-free polyolefin core. Softech wheels reject floor debris, are highly resistant to most chemicals, grease, solvents and acids, and are stain resistant and zero water absorbing. Quiet, easy rolling and shock absorbing, these wheels are excellent for most floor surfaces.

APPLICATIONS

Softech wheels are excellent for platform trucks, food service equipment, textile carts, hotel equipment and other abusive applications.

WHEEL		CAPACITY	PART NUMBER					
Dia.	Width	LBS	Hub Length	Bore	Roller Bearing	Ball Bearing	Less Bearing	Wt.
4	2.00	250	2 3/16	1 3/16			04200-72-19	1.00
4	2.00	250	2 7/16	3/4	04201-72-12			1.00
4	2.00	250	2 7/16	1/2		04204-72-08		1.00
4	2.00	250	2 7/16	1/2		04202-72-08*		1.00
5	2.00	275	2 3/16	1 3/16			05200-72-19	1.50
5	2.00	275	2 7/16	3/4	05201-72-12			1.50
5	2.00	275	2 7/16	1/2		05204-72-08		1.50
5	2.00	275	2 7/16	1/2		05202-72-08*		1.50
6	2.00	450	2 3/16	1 3/16			06200-72-19	2.00
6	2.00	450	2 7/16	3/4	06201-72-12			2.00
6	2.00	450	2 7/16	1/2		06204-72-08		2.00
6	2.00	450	2 7/16	1/2		06202-72-08*		2.00
8	2.00	600	2 3/16	1 3/16			08200-72-19	2.25
8	2.00	600	2 7/16	3/4	08201-72-12			2.25
8	2.00	600	2 7/16	1/2		08204-72-08		2.25
8	2.00	600	2 7/16	1/2		08202-72-08*		2.25

** Constructed with precision ball bearings.*
All dimensions are in inches. All weights are in pounds.

CASTER CONCEPTS

ENVIROTHANE WHEELS

1,600 *maximum capacity* **LBS**

FEATURES

Bearings: Precision Ball or Straight Roller
Temperature: Maximum to 230˚ F
Hardness: 45-65 Durometer D scale

Envirothane wheels feature a solid, non-marking polyurethane used for high load capacities. This top quality wheel will not damage floors and will not develop flat spots under standing loads. Tested for medium load capacities, the Envirothane wheel is harder than soft rubber. Envirothane wheels resist most chemicals, offer good floor protection and are completely washable. The one piece solid Envirothane makes it virtually maintenance free.

APPLICATIONS

Envirothane wheels are excellent for tow line applications, platform trucks, large stock trucks, textile carts, food service equipment and other abusive applications.

WHEEL		CAPACITY		PART NUMBER				
Dia.	Width	Capacity	Hub Length	Bore	Roller Bearing	Ball	Less Bearing	Wt.
4	2.00	650	2 3/16	1 3/16			04200-62-19	1.5
4	2.00	650	2 7/16	3/4	04201-62-12			1.5
4	2.00	650	2 7/16	1/2		04204-62-08		1.5
4	2.00	650	2 7/16	1/2		04202-62-08*		1.5
5	2.00	800	2 3/16	1 3/16			05200-62-19	2.0
5	2.00	800	2 7/16	3/4	05201-62-12			2.0
5	2.00	800	2 7/16	1/2		05204-62-08		2.0
5	2.00	800	2 7/16	1/2		05202-62-08*		2.0
6	2.00	950	2 3/16	1 3/16			06200-62-19	2.5
6	2.00	950	2 7/16	3/4	06201-62-12			2.5
6	2.00	950	2 7/16	1/2		06204-62-08		2.5
6	2.00	950	2 7/16	1/2		06202-62-08*		2.5
6	2.50	1,200	2 3/4	1 15/16			06255-62-31	7.5
6	2.50	1,200	2 3/4	1	06255-62-16			7.5
6	2.50	1,200	2 3/4	1 1/4	06255-62-20			7.5
6	2.50	1,200	3	3/4		06256-62-12		7.5
8	2.00	1,100	2 3/16	1			08200-62-19	3.7
8	2.00	1,100	2 3/16	3/4	08201-62-12			3.7
8	2.00	1,100	2 7/16	1/2		08204-62-08		3.7
8	2.00	1,100	2 7/16	1		08202-62-08*		3.7
8	2.50	1,600	2 3/4	1 15/16			08255-62-31	8.5
8	2.50	1,600	2 3/4	1	08255-62-16			8.5
8	2.50	1,600	2 3/4	1	08255-62-20			8.5
8	2.50	1,600	3	1		08256-62-12		8.5

**Constructed with precision ball bearings*
All dimensions are in inches. All weights are in pounds.

CASTER CONCEPTS

KEYWAY WHEELS

1,600 *maximum capacity* **LBS**

FEATURES

A wide variety of keyway drive wheels are available. Keyway drive wheels are used in various power transmission applications. The keyways are cut to fit a keywayed shaft and are held in place with two set screws. One set screw is placed over the key and one at 90 degrees to the keyway. The most popular models in rubber and soft polyurethane are shown in the charts. Keyway wheels are manufactured in other materials, forged steel or cast iron, are available. Check the wheel widths on the chart and select the appropriate bushing. Costing for specific requirements is also readily available.

Bushing	ID	OD	Length	Key	Wheel Width
KWAA	0.50	1.19	2.44	0.125	2"
KWBB	0.75	1.19	2.44	0.188	2"
KWA	0.50	1.94	3.25	0.125	2-1/2" or 3"
KWB	0.75	1.94	3.25	0.188	2-1/2" or 3"
KWC	1.00	1.94	3.25	0.250	2-1/2" or 3"
KWD	1.25	1.94	3.25	0.250	2-1/2" or 3"
KWE	1.50	2.44	4.25	0.375	4"
KWEE	1.50	2.44	5.25	0.375	5"

WHEEL					PART NUMBER	CAPACITY
Dia.	Width	Hub Length	Bore	Keyway Size		
Drive Rollers--Mold on Rubber Roller Surfaces-Durometer hardness is 70-75A						
3	2.00	3 1/4 offset	1/2	1/8 x 1/16	03200-70-08-KWA	300
3	2.00	3 1/4 offset	3/4	3/16 x 3/32	03200-70-12-KWB	300
4	2.00	3 1/4 offset	1/2	1/8 x 1/16	04200-70-08-KWA	350
4	2.00	3 1/4 offset	3/4	3/16 x 3/32	04200-70-12-KWB	350
5	2.00	2 3/16	1/2	1/8 x 1/16	05200-70-08-KWAA	400
5	2.00	2 3/16	3/4	3/16 x 3/32	05200-70-12-KWBB	400
6	2.00	2 3/16	1/2	1/8 x 1/16	06200-70-08-KWAA	425
6	2.00	2 3/16	3/4	3/16 x 3/32	06200-70-12-KWBB	425
6	3.00	3 1/4	1/2	1/8 x 1/16	06300-70-08-KWA	500
6	3.00	3 1/4	3/4	3/16 x 3/32	06300-70-12-KWB	500
6	3.00	3 1/4	1	1/4 x 1/8	06300-70-16-KWC	500
6	3.00	3 1/4	1 1/4	1/4 x 1/8	06300-70-20-KWD	500
8	2.00	2 3/16	1/2	1/8 x 1/16	08200-70-08-KWA	500
8	2.00	2 3/16	3/4	3/16 x 3/32	08200-70-12-KWB	500
8	3.00	3 1/4	1/2	1/8 x 1/16	08300-70-08-KWA	850
8	3.00	3 1/4	3/4	3/16 x 3/32	08300-70-12-KWB	850
8	3.00	3 1/4	1	1/4 x 1/8	08300-70-16-KWC	850
8	3.00	3 1/4	1 1/4	1/4 x 1/8	08300-70-20-KWD	850
10	3.00	3 1/4	1/2	1/8 x 1/16	10300-70-08-KWA	800
10	3.00	3 1/4	3/4	3/16 x 3/32	10300-70-12-KWB	800
10	3.00	3 1/4	1	1/4 x 1/8	10300-70-16-KWC	1,000
10	3.00	3 1/4	1 1/4	1/4 x 1/8	10300-70-20-KWD	1,000
10	4.00	4 1/4	1 1/2	3/8 x 3/16	10400-70-24-KWE	1,400
Drive Rollers--Soft Polyurethane Roller Surfaces-Durometer hardness is 85A						
3	2.00	3-1/4 offset	1/2	1/8 x 1/16	03200-61-08-KWA	300
3	2.00	3-1/4 offset	3/4	3/16 x 3/32	03200-61-12-KWB	300
4	2.00	3-1/4 offset	1/2	1/8 x 1/16	04200-66-08-KWA	350
4	2.00	3-1/4 offset	3/4	3/16 x 3/32	04200-66-12-KWB	350
5	2.00	2 3/16	1/2	1/8 x 1/16	05200-61-08-KWAA	400
5	2.00	2 3/16	3/4	3/16 x 3/32	05200-61-12-KWBB	400
6	2.00	2 3/16	1/2	1/8 x 1/16	06200-61-08-KWAA	425
6	2.00	2 3/16	3/4	3/16 x 3/32	06200-61-12-KWBB	425
6	3.00	3 1/4	1/2	1/8 x 1/16	06300-66-08-KWA	800
6	3.00	3 1/4	3/4	3/16 x 3/32	06300-66-12-KWB	800
6	3.00	3 1/4	1	1/4 x 1/8	06300-66-16-KWC	1,600
6	3.00	3 1/4	1 1/4	1/4 x 1/8	06300-66-20-KWD	1,600
8	2.00	2 3/16	1/2	1/8 x 1/16	08200-61-08-KWA	500
8	2.00	2 3/16	3/4	3/16 x 3/32	08200-61-12-KWB	500
8	3.00	3 1/4	1/2	1/8 x 1/16	08300-66-08-KWA	800
8	3.00	3 1/4	3/4	3/16 x 3/32	08300-66-12-KWB	800
8	3.00	3 1/4	1	1/4 x 1/8	08300-66-16-KWC	1,600
8	3.00	3 1/4	1 1/4	1/4 x 1/8	08300-66-20-KWD	1,600
10	3.00	3 1/4	3/4	3/16 x 3/32	10300-66-12-KWB	800
10	3.00	3 1/4	1	1/4 x 1/8	10300-66-16-KWC	1,600
10	3.00	3 1/4	1 1/4	1/4 x 1/8	10300-66-20-KWD	1,600
10	4.00	4 1/4	1 1/2	3/8 x 3/16	10400-66-24-KWE	2,500
10	5.00	5 1/4	1 1/2	3/8 x 3/16	10500-66-24-KWEE	2,500
12	4.00	4 1/4	1 1/2	3/8 x 3/16	12400-66-24-KWE	3,000

CASTER CONCEPTS

MOLD ON RUBBER WHEELS

3,000 *maximum capacity* **LBS**

FEATURES

Bearings: Delrin, oilite, roller, precision ball, tapered.
Temperature: Maximum to 180˚ F
Durometer: 70 Durometer Shore A
Standard: All 1-1/2" and 2" width wheels with 3/4" roller bearings are supplied with 1/2" spanner bushing.

Caster Concepts offers the highest quality domestic mold on rubber wheels. Our mold-on rubber wheels consist of a soft black, 70 durometer rubber tread permanently bonded Class 30 gray iron centers. Mold-on rubber wheels provide excellent floor protection, a cushioned and quiet ride for the product being transported, and they absorb shock and vibration.

Neoprene and high load compounds are available, please contact the factory.

APPLICATIONS

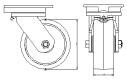
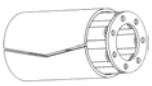
Excellent for moist and wet environments, food service equipment, small waste bins, factory use, platform trucks and hotel equipment.

WHEEL		CAPACITY	PART NUMBER					
Dia.	Width		Hub Length	Bore	Straight Roller	Precision Tapered	Less Bearing	Wt.
5	2.00	400	2 3/16	1 3/16			05200-70-19	2.5
5	2.00	400	2 3/16	3/4	05201-70-12			2.5
6	2.00	425	2 3/16	1 3/16			06200-70-19	4.5
6	2.00	425	2 3/16	3/4	06201-70-12			4.5
6	2.50	550	3 1/4	1 15/16			06250-70-31	6.5
6	2.50	550	3 1/4	1	06251-70-16			6.5
6	2.50	550	3 1/4	1 1/4	06251-70-20			6.5
6	2.50	550	3 1/2	3/4		06259-70-12		6.5
6	2.50	550	3 1/2	1		06259-70-16		6.5
6	3.00	700	3 1/4	1 15/16			06300-70-31	9.5
6	3.00	700	3 1/4	1	06301-70-16			9.5
6	3.00	700	3 1/4	1 1/4	06301-70-20			9.5
6	3.00	700	3 1/2	3/4		06309-70-12		9.5
6	3.00	700	3 1/2	1		06309-70-16		9.5
8	2.00	500	2 3/16	1 3/16			08200-70-19	7.0
8	2.00	500	2 3/16	3/4	08201-70-12			7.0
8	2.50	700	3 1/4	1 15/16			08250-70-31	9.5
8	2.50	700	3 1/4	1	08251-70-16			9.5
8	2.50	700	3 1/4	1 1/4	08251-70-20			9.5
8	2.50	700	3 1/2	3/4		08259-70-12		9.5
8	3.00	850	3 1/4	1 15/16			08300-70-31	12.5
8	3.00	850	3 1/4	1	08301-70-16			12.5
8	3.00	850	3 1/4	1 1/4	08301-70-20			12.5
8	3.00	850	3 1/2	3/4		08309-70-12		12.5
8	3.00	850	3 1/2	1		08309-70-16		12.5
8	3.00	850	3 1/2	1 1/4		08309-70-20		12.5

CASTER CONCEPTS

MOLD ON RUBBER WHEELS

3,000 *maximum capacity* **LBS**

WHEEL		CAPACITY			PART NUMBER			
								
Dia.	Width		Hub Length	Bore	Straight Roller	Precision Tapered	Less Bearing	Wt.
10	2.50	800	3 1/4	1 15/16			10250-70-31	13.0
10	2.50	800	3 1/4	1	10251-70-16			13.0
10	2.50	800	3 1/4	1 1/4	10251-70-20			13.0
10	2.50	800	3 1/2	3/4		10259-70-12		13.0
10	2.50	800	3 1/2	1		10259-70-16		13.0
10	3.00	1,000	3 1/4	1 15/16			10300-70-31	16.0
10	3.00	1,000	3 1/4	1	10301-70-16			16.0
10	3.00	1,000	3 1/4	1 1/4	10301-70-20			16.0
10	3.00	1,000	3 1/2	3/4		10309-70-12		16.0
10	3.00	1,000	3 1/2	1		10309-70-16		16.0
10	4.00	1,400	4 1/4	2 7/16			10400-70-39	33.0
10	4.00	1,400	4 1/4	1 1/4	10401-70-20			33.0
10	4.00	1,400	4 1/4	1 1/2	10401-70-24			33.0
10	4.00	1,400	4 1/2	1		10409-70-16		33.0
10	4.00	1,400	4 1/2	1 1/4		10409-70-20		33.0
12	2.50	900	3 1/4	1 15/16			12250-70-31	15.5
12	2.50	900	3 1/4	1	12251-70-16			15.5
12	2.50	900	3 1/4	1 1/4	12251-70-20			15.5
12	2.50	900	3 1/2	3/4		12259-70-12		15.5
12	2.50	900	3 1/2	1		12259-70-16		15.5
12	3.00	1,125	3 1/4	1 15/16			12300-70-31	21.0
12	3.00	1,125	3 1/4	1	12301-70-16			21.0
12	3.00	1,125	3 1/4	1 1/4	12301-70-20			21.0
12	3.00	1,150	3 1/2	3/4		12309-70-12		21.0
12	3.00	1,150	3 1/2	1		12309-70-16		21.0
12	4.00	1,600	4 1/4	2 7/16			12400-70-39	30.0
12	4.00	1,600	4 1/4	1 1/4	12401-70-20			30.0
12	4.00	1,600	4 1/4	1 1/2	12401-70-24			30.0
12	4.00	1,600	4 1/2	1		12409-70-16		30.0
12	4.00	1,600	4 1/2	1 1/4		12409-70-20		30.0
16	4.00	1,450	4 1/4	2 7/16			16400-70-39	40.0
16	4.00	1,450	4 1/4	1 1/4	16401-70-20			40.0
16	4.00	1,450	4 1/4	1 1/2	16401-70-24			40.0
16	4.00	1,450	4 1/2	1		16409-70-16		40.0
16	4.00	1,450	4 1/2	1 1/4		16409-70-20		40.0
16	5.00	1,500	5 1/4	2 7/16			16500-70-39	72.0
16	5.00	1,500	5 1/4	1 1/4	16501-70-20			72.0
16	5.00	1,500	5 1/4	1 1/2	16501-70-24			72.0
16	5.00	1,500	5 1/2	1		16509-70-16		72.0
16	5.00	1,500	5 1/2	1 1/4		16509-70-20		72.0
18	5.00	2,800	5 1/4	2 7/16			18500-70-39	90.0
18	5.00	2,800	5 1/4	1 1/4	18501-70-20			90.0
18	5.00	2,800	5 1/4	1 1/2	18501-70-24			90.0
18	5.00	2,800	5 1/4	3 1/4			18500-70-50	90.0
18	5.00	2,800	5 1/4	2	18501-70-32			90.0
18	5.00	2,800	5 1/2	1		18509-70-16		90.0
18	5.00	2,800	5 1/2	1 1/4		18509-70-20		90.0
18	5.00	2,800	5 1/2	1 1/2		18509-70-24		90.0
20	5.00	3,000	5 1/4	2 7/16			20500-70-39	100.0
20	5.00	3,000	5 1/4	1 1/4	20501-70-20			100.0
20	5.00	3,000	5 1/4	1 1/2	20501-70-24			100.0
20	5.00	3,000	5 1/4	3 1/4			20500-70-50	100.0
20	5.00	3,000	5 1/4	2	20501-70-32			100.0
20	5.00	3,000	5 1/2	1		20509-70-16		100.0
20	5.00	3,000	5 1/2	1 1/4		20509-70-20		100.0
20	5.00	3,000	5 1/2	1 1/2		20509-70-24		100.0

CASTER CONCEPTS

PHENOLIC RESIN WHEELS

8,000 *maximum capacity* **LBS**

FEATURES

Bearings: Precision ball, Delrin, straight roller and tapered
Standard: All 1-1/2" and 2" wide wheels with 3/4" roller bearings are supplied with 1/2" spanner standard.

BENEFITS

A wide selection of phenolic resin wheels are available in inventory. The wheels shown in the chart are laminated phenolic.

Laminated phenolic wheels (35) feature a continuous wound tread with a macerated canvas center. The wheels have a 40% higher impact resistance and carry up to 25% higher load than standard phenolic wheels. The continuous wrap process makes this wheel a longer wearing product that has a higher resistance to chipping and fraying.

High temperature phenolic wheels (32) provide continuous service up to 425˚ F and intermittently to 500˚ F.

Standard black phenolic wheels (30) feature macerated canvas duck compression molded with premium phenolic resins to produce a value/price relationship.

06201-30-12

APPLICATIONS

Phenolic wheels are excellent for waste bins, platform trucks, heavy material handling, autoclaves, baking ovens, curing ovens and high temperature bakery applications.

WHEEL		CAPACITY	PART NUMBER					
Dia.	Width		Hub Length	Bore	Straight Roller	Precision Tapered	Ball Bearing	Wt.
5	2.00	1,200	2 3/16	1/2			05204-35-08	2.25
5	2.00	1,200	2 3/16	3/4	05201-35-12			2.25
6	2.00	1,500	2 3/16	3/4	06201-35-12			3.00
6	2.00	1,500	2 7/16	1/2			06204-35-08	3.00
6	3.00	2,000	3 1/2	3/4			06302-35-12	5.00
6	3.00	2,000	3 1/4	1	06301-35-16			5.00
6	3.00	2,000	3 1/4	1 1/4	06301-35-20			5.00
6	3.00	2,000	3 1/2	3/4		06309-35-12		5.00
6	3.00	2,000	3 1/2	1		06309-35-16		5.00
8	2.00	1,400	2 7/16	1/2			08204-35-08	4.00
8	2.00	1,400	2 7/16	1/2	08201-35-12			4.00
8	3.00	3,000	3 1/2	3/4			08302-35-12	7.00
8	3.00	3,000	3 1/4	1	08301-35-16			7.00
8	3.00	3,000	3 1/4	1 1/4	08301-35-20			7.00
8	3.00	3,000	3 1/2	3/4		08309-35-12		7.00
8	3.00	3,000	3 1/2	1		08309-35-16		7.00
10	3.00	3,400	3 1/2	3/4			10302-35-12	9.75
10	3.00	3,400	3 1/4	1	10301-35-16			9.75
10	3.00	3,400	3 1/4	1 1/4	10301-35-20			9.75
10	3.00	3,400	3 1/2	3/4		10309-35-12		9.75
10	3.00	3,400	3 1/2	1		10309-35-16		9.75
10	3.00	3,400	3 1/2	1 1/4		10309-35-20		9.75
12	3.00	4,200	3 1/2	3/4			12302-35-12	13.00
12	3.00	4,200	3 1/4	1	12301-35-16			13.00
12	3.00	4,200	3 1/4	1 1/4	12301-35-20			13.00
12	3.00	4,200	3 1/2	3/4		12309-35-12		13.00

All dimensions are in inches. All weights are in pounds.

PHENOLIC WHEELS ARE AVAILABLE IN DIAMETERS FROM 3" TO 18" AND CAPACITIES TO 8,000 LBS. PLEASE CONSULT THE FACTORY.

CASTER CONCEPTS

NYTEC WHEELS

Caster Concepts continues to expand and develop a wide range of industrial application solutions using engineered plastics. Some of these applications include:

Vertical Drop Lift Guide and Roller Assemblies

Conveyor Accumulation Rollers

Turn Table Support and Load Wheels

High Load Capacity Caster Wheels

Caster Concepts chooses materials, which are suited to the customer's specific application, where duty cycle, environment and loads are fully understood. Engineered plastics offer lower coefficient of friction and good abrasion resistance, and excellent structural rigidity in a wide variety of applications where cast iron or steel were previously used.

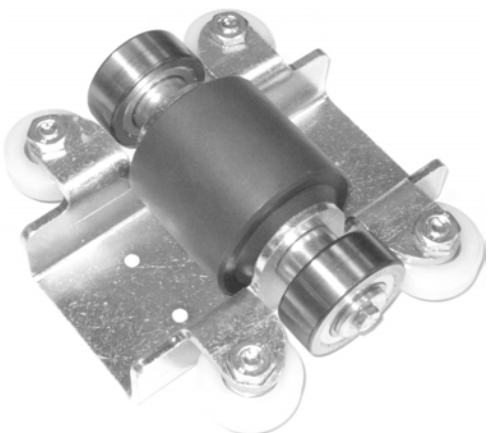
Many of the compositions are filled with lubricating materials which allow applications in situations where maintenance is an issue. Materials can be dynamically tested in the Caster Concepts Engineering Test facility to duplicate duty cycle and loads prior to installation in the field.

Caster Concepts' NYTEC- MD materials are widely used as idlers and support wheels in many large turn table applications. They provide a high load capacity while also offering a material that will provide reduced noise when compared to steel.

The Caster Concepts NYTEC- HS is a heat stabilized material which is suited for higher loads, with thermal stability up to 260 degrees. This material is excellent in applications where continual use is necessary. Wheels manufactured in NYTEC- HS material have been tested under load to 2 million revolutions and have shown little or no wear to the tread surface.

Engineered Plastic Wheels and Rollers offer you additional solution opportunities for your specific application needs. Contact Caster Concepts for assistance in designing a rolling solution for you.

Floor-to-floor elevator guide wheel of NYTEC-HS



Automotive Assembly line roller flight accumulation conveyor roller

Belt Conveyor take up assembly with belt guard

CASTER CONCEPTS

NYTEC-MD WHEELS

9,360 *maximum capacity* **LBS**

FEATURES

NyTec-MD is a nylon filled material which provides a high load capacity, floor protective wheel. Wheel capacities approach those of similar cast iron and steel wheels.
Nytec- MD material is resistant to most harsh environments. The non-abrasive and vibration dampening material actually provides a quieter operation when compared to steel or cast iron wheels. When used in wet environments, plain bore NyTec-MD wheels can be used as the material is self lurbicating. NyTec wheels are offered with precision tapered, precision ball, and straight roller bearings. For special applications, contact the factory.

WHEEL				PART NUMBER			CAPACITY
Dia.	Width	Hub Length	Bore	Roller	Ball Bearing	Tapered	Capacity
3	2.19	2 7/16	1/2	03201-39-12	03202-39-08	03209-39-08	780
3	3.25	3 1/2	1	03301-39-16*		03309-39-16	1,170
3	3.25	3 1/4	1 1/4	03301-39-20			1,170
3	4.25	4 1/2	3/4		03402-39-12	03409-39-12	1,560
3	4.25	4 1/2	1 1/2	03401-39-24*		03409-39-16	1,560
3	4.25	4 1/4	1 1/4	03401-39-20*			1,560
4	2.19	2 7/16	1/2	04201-39-12	04202-39-08	04209-39-08	1,040
4	3.25	3 1/2	3/4		04302-39-12	04309-39-12	1,560
4	3.25	3 1/2	1	04301-39-16*		04309-39-16	1,560
4	3.25	3 1/2	1 1/4	04301-39-20*		04309-39-20	1,560
4	4.25	4 1/2	3/4		04402-39-12	04409-39-12	2,080
4	4.25	4 1/2	1		04402-39-16	04409-39-16	2,080
4	4.25	4 1/2	1 1/4	04401-39-20*	04402-39-20	04409-39-20	2,080
4	4.25	4 1/4	1 1/2	04401-39-24			2,080
6	2.19	2 7/16	1/2	06201-39-12	06202-39-08	06209-39-08	1,560
6	3.25	3 1/2	3/4		06302-39-12	06309-39-12	2,340
6	3.25	3 1/2	1	06301-39-16*	06302-39-16	06309-39-16	2,340
6	3.25	3 1/2	1 1/4	06301-39-20*	06302-39-20	06309-39-20	2,340
6	4.25	4 1/2	1		06402-39-16	06409-39-16	3,120
6	4.25	4 1/2	1 1/4	06401-39-20*	06402-39-20	06409-39-20	3,120
6	4.25	4 1/4	1 1/2	06401-39-24			3,120
6	5.25	5 1/2	1		06502-39-16	06509-39-16	3,900
6	5.25	5 1/2	1 1/4	06501-39-20*	06502-39-20	06509-39-20	3,120
6	5.25	5 1/4	1 1/2	06501-39-24			3,120
8	2.19	2 7/16	1/2	08201-39-12	08202-39-08	08209-39-08	2,080
8	3.25	3 1/2	3/4		08302-39-12	08309-39-12	3,120
8	3.25	3 1/2	1	08301-39-16*	08302-39-16	08309-39-16	3,120
8	3.25	3 1/2	1 1/4	08301-39-20*	08302-39-20	08309-39-20	3,120
8	4.25	4 1/2	1		08402-39-16	08409-39-16	4,160
8	4.25	4 1/2	1 1/4	08401-39-20*	08402-39-20	08409-39-20	4,160
8	4.25	4 1/4	1 1/2	08401-39-24			4,160
8	5.25	5 1/2	1		08502-39-16	08509-39-16	4,160
8	5.25	5 1/2	1 1/4	08501-39-20*	08502-39-20	08509-39-20	5,200
8	5.25	5 1/4	1 1/2	08501-39-24			5,200
10	3.25	3 1/2	3/4		10302-39-12	10309-39-12	3,900
10	3.25	3 1/2	1	10301-39-16*	10302-39-16	10309-39-16	3,900
10	3.25	3 1/2	1 1/4	10301-39-20*	10302-39-20	10309-39-20	3,900
10	4.25	4 1/2	1		10402-39-16	10409-39-16	5,200
10	4.25	4 1/2	1 1/4	10401-39-20*	10402-39-20	10409-39-20	5,200
10	4.25	4 1/4	1 1/2	10401-39-24			5,200
10	5.25	5 1/2	1		10502-39-16	10509-39-16	6,500
10	5.25	5 1/2	1 1/4	10501-39-20*	10502-39-20	10509-39-20	6,500
10	5.25	5 1/4	1 1/2	10501-39-24			6,500
12	3.25	3 1/2	3/4		12302-39-12	12309-39-12	4,680
12	3.25	3 1/2	1	12301-39-16*	12302-39-16	12309-39-16	4,680
12	3.25	3 1/2	1 1/4	12301-39-20*	12302-39-20	12309-39-20	4,680
12	4.25	3 1/2	1		12402-39-16	12409-39-16	6,240
12	4.25	3 1/2	1 1/4	12401-39-20*	12402-39-20	12409-39-20	6,240
12	4.25	3 1/4	1 1/2	12401-39-24			6,240
12	5.25	5 1/2	1		12502-39-16	12509-39-16	7,800
12	5.25	5 1/2	1 1/4	12501-39-20*	12502-39-20	12509-39-20	7,800
12	5.25	5 1/4	1 1/2	12501-39-24			7,800
12	6.25	6 1/2	1		12602-39-16	12509-39-16	9,360
12	6.25	6 1/2	1 1/4		12602-39-20	12609-39-20	9,360

* These wheels have .25 shorter hub length

CASTER CONCEPTS

POLYURETHANE WHEELS

Caster Concepts has gained a reputation in the industry for application-oriented solutions to tough material handling and mobility problems. Establishing a market for custom and special casters and wheels has driven the need for developing expertise in engineering application solutions with a variety of premium urethane elastomers.

Caster Concepts, in partnership with leading producers of polyurethane prepolymers, is continually working to develop products for a wide range of customer specific needs. While there are standard "go to" products that work in a variety of applications, Caster Concepts is expanding its market reach by applying its application knowledge to solve tough performance applications in a variety of industries. Success in this area includes:

T/R COMPOUND URETHANE WHEELS

This material produces a softer durometer wheel that resists the accumulation of metal chips, sheet metal screws, and foreign objects often found in manufacturing facilities. The high rebound of this material provides increased rollability in ergonomic in-plant applications, and has become a favorite in production line delivery systems across the country.

STANDARD POLYURETHANE

Caster Concepts' standard durometer 95A polyurethane is easily identified by its Maroon color. This material is economical, provides, lower rolling resistance than rubber wheels and are floor protective.

HIGH SPEED WHEELS

Caster Concepts has worked to develop a line of wheels that will withstand the rigors of higher loads and speeds found in today's lift truck industries. These wheels are able to dissipate the heat being generated through the load, the speed, or a combination of both.

ELASTOMERS

Processed in-house, elastomers provide flexibility in material choice, hardness, and finished size. Caster Concepts is adept at processing MDI polyesters, and TDI polyether and polyesters, in a wide range of durometers from 50 durometer shore A to 70 durometer shore D scale.

T/R Compound Ergonomic wheels, excellent for manual pushed loads up to 1,500 pounds per dolly.

95A durometer high load capacity economic floor protective wheel.

70D Durometer for heavy loads, floor protection and ease of movement.

High speed urethane offers performance under severe applications.

Consult factory for your toughest applications.

CASTER CONCEPTS

POLYURETHANE WHEELS

FEATURES

BEARINGS

SEALED PRECISION BALL
Precision ball bearings offer the lowest rolling resistance for ergonomic applications. These bearings are often referred to as “sealed for life” due to their being rubber seals on both sides. These bearings are capable of applications where towing up to 5 mph is present, please consult the factory.

ROLLER BEARING
These commercial bearings are used when a low cost anti-friction bearing is required, they provide excellent load carrying capacity, at an economical cost.

PRECISION TAPERED
Tapered bearings are used in applications where towing and capacity are present. Tapered bearings do to their nature are adjusted tight at the factory to provide a preload thrust component to the wheel. Tapered bearings are not recommended for applications where there is a high amount of manual movement required.

DELRIN
Delrin bearings are a friction type bearing used in wet applications where light loads and infrequent movement is present.

OILITE
Oilite bearings offer a low cost friction bearing where heat, moisture, infrequent movement or lighter loads are part of the application.

TESTING

In-house test dynamometers, with sophisticated metering equipment, allow Caster Concepts to develop test parameters for product duty – life cycle profile testing and performance evaluations prior to delivery to the field.

METRIC WHEELS

The capability to control the production of wheels through design, production, product testing and final shipment, has driven Caster Concepts to design and develop a full line of metric wheels for replacement on equipment produced in Europe and Asia.

Metric wheel diameters available include:

50 mm	180 mm	230 mm
80 mm	200 mm	250 mm
125 mm	220 mm	300 mm

CASTER CONCEPTS

ERGONOMIC POLY WHEELS

3,600 maximum capacity LBS

PRECISION BALL BEARINGS

WHEEL					PART NO.	CAPACITY	PART NO.	CAPACITY	PART NO.	CAPACITY	
Dia.	Width	Hub Length	Bore	Ball Bearing	T/R Soft	Capacity	Std. Poly	Capacity	Hard Poly	Capacity	Wt.
4	2.00	2 7/16	1/2	Precision	04202-66-08	600	04202-65-08	750			3.0
5	2.00	2 7/16	1/2	Precision	05202-61-08	840	05202-60-08	1,050			3.0
6	2.00	2 7/16	1/2	Precision	06202-61-08	960	06202-60-08	1,200	06202-63-08	1,440	4.5
6	3.00	3 1/2	3/4	Precision	06302-61-12	1,640	06302-60-12	2,050	06302-63-12	2,460	9.5
8	2.00	2 7/16	1/2	Precision	08202-61-08	1,240	08202-60-08	1,550	08202-63-08	1,860	8.0
8	2.50	3 1/2	3/4	Precision	08252-61-12	1,640	08252-60-12	2,050			9.5
8	3.00	3 1/2	3/4	Precision	08302-61-12	2,000	08302-60-12	2,500	08302-63-12	3,000	12.5
8	3.00	3 1/2	1	Precision	08302-61-16	2,000	08302-60-16	2,500	08302-63-16	3,000	12.5
10	3.00	3 1/2	3/4	Precision	10302-61-12	2,400	10302-60-12	3,000	10302-63-12	3,600	16.0
10	3.00	3 1/2	1	Precision	10302-61-16	2,400	10302-60-16	3,000	10302-63-16	3,600	16.0
12	3.00	3 1/2	3/4	Precision	12302-61-12	2,800	12302-60-12	3,500			21.0
12	3.00	3 1/2	1	Precision	12302-61-16	2,800	12302-60-16	3,500			21.0
12	3.00	3 1/2	1 1/4	Precision	12302-61-20	2,800	12302-60-20	3,500			21.0

ROUND TREAD ERGO WHEELS

WHEEL					PART NO.	CAPACITY					
Dia.	Width	Hub Length	Bore	Bearing	T/R Soft	Capacity	Std. Poly	Capacity	Hard Poly	Capacity	Wt.
6	2.00	2 7/16	1/2	Precision	06202-51-08	800	06202-50-08	1,000	06202-53-08	1,200	4.0
8	2.00	2 7/16	1/2	Precision	08202-51-08	1,000	08202-50-08	1,240	08202-53-08	1,500	5.5
10	2.00	3 1/2	3/4	Precision	10202-61-08	1,250	10202-60-12	1,500			12.0
12	1.75	3 1/2	3/4	Precision	12172-61-08	1,500	12172-60-08	1,700			18.0

CASTER CONCEPTS

STANDARD PROFILE POLY WHEELS

5,040 maximum capacity LBS

WHEEL					PART NO.	CAPACITY	PART NO.	CAPACITY	PART NO.	CAPACITY	
Dia.	Width	Hub Length	Bore	Bearing	T/R Soft		Std Poly		Hard Poly		Wt.
4	2.00	2 3/16	1 3/16		04200-61-19	600	04200-60-19	750	04200-63-19	900	3.0
4	2.00	2 3/16	3/4	Roller	04201-61-12	600	04201-60-12	750	04201-63-12	900	3.0
4	2.00	2 7/16	1/2	Tapered	04209-61-08	600	04209-60-08	750	04209-63-08	900	3.0
4	3.25	3 1/4	1 15/16		04320-61-31	1,020	04320-60-31	1,275	04320-63-31	1,530	5.0
4	3.25	3 1/4	1	Roller	04321-61-16	1,020	04321-60-16	1,275	04321-63-16	1,530	5.0
4	3.25	3 1/4	1 1/4	Roller	04321-61-20	1,020	04321-60-20	1,275	04321-63-20	1,530	5.0
4	3.25	3 1/2	3/4	Tapered	04329-61-12	1,020	04329-60-12	1,275	04329-63-12	1,530	5.0
4	3.25	3 1/2	1	Tapered	04329-61-16	1,020	04329-60-16	1,275	04329-63-16	1,530	5.0
4	4.00	4 1/4	2 7/16		04400-61-39	1,280	04400-60-39	1,600	04400-63-39	1,920	10.0
4	4.00	4 1/4	1 1/4	Roller	04401-61-20	1,280	04401-60-20	1,600	04401-63-20	1,920	10.0
4	4.00	4 1/4	1 1/2	Roller	04401-61-24	1,280	04401-60-24	1,600	04401-63-24	1,920	10.0
4	4.00	4 1/2	1	Tapered	04409-61-16	1,280	04409-60-16	1,600	04409-63-16	1,920	10.0
4	4.00	4 1/2	1 1/4	Tapered	04409-61-20	1,280	04409-60-20	1,600	04409-63-20	1,920	10.0
5	2.00	2 3/16	1 3/16		05200-61-19	840	05200-60-19	1,050	05200-63-19	1,260	3.0
5	2.00	2 3/16	3/4	Roller	05201-61-12	840	05201-60-12	1,050	05201-63-12	1,260	3.0
5	2.00	2 7/16	1/2	Tapered	05209-61-08	840	05209-60-08	1,050	05209-63-08	1,260	3.0
5	2.50	3 1/4	1 15/16		05250-61-31	1,060	05250-60-31	1,325	05250-63-31	1,590	7.0
5	2.50	3 1/4	1	Roller	05251-61-16	1,060	05251-60-16	1,325	05251-63-16	1,590	7.0
5	2.50	3 1/4	1 1/4	Roller	05251-61-20	1,060	05251-60-20	1,325	05251-63-20	1,590	7.0
5	2.50	3 1/2	3/4	Tapered	05259-61-12	1,060	05259-60-12	1,325	05259-63-12	1,590	7.0
5	2.50	3 1/2	1	Tapered	05259-61-16	1,060	05259-60-16	1,325	05259-63-16	1,590	7.0
5	3.00	3 1/4	1 15/16		05300-61-31	1,225	05300-60-31	1,530	05300-63-31	1,836	9.0
5	3.00	3 1/4	1	Roller	05301-61-16	1,225	05301-60-20	1,530	05301-63-20	1,836	9.0
5	3.00	3 1/4	1 1/4	Roller	05301-61-20	1,225	05301-60-20	1,530	05301-63-20	1,836	9.0
5	3.00	3 1/4	3/4	Tapered	05309-61-12	1,225	05309-60-12	1,530	05309-60-12	1,836	9.0
5	3.00	3 1/4	1	Tapered	05309-61-16	1,225	05309-60-16	1,530	05309-60-16	1,836	9.0
6	2.00	2 3/16	1 3/16		06200-61-19	960	06200-60-19	1,200	06200-63-19	1,440	4.5
6	2.00	2 3/16	3/4	Roller	06201-61-12	960	06201-60-12	1,200	06201-63-12	1,440	4.5
6	2.00	2 7/16	1/2	Tapered	06209-61-08	960	06209-60-08	1,200	06209-63-08	1,440	4.5
6	2.00	2 7/16	3/4	Tapered	06209-61-12	960	06209-60-12	1,200	06209-63-12	1,440	4.5
6	2.50	3 1/4	1 15/16		06250-61-31	1,300	06250-60-31	1,625	06250-63-31	1,950	6.5
6	2.50	3 1/4	1	Roller	06251-61-16	1,300	06251-60-16	1,625	06251-63-16	1,950	6.5
6	2.50	3 1/4	1 1/4	Roller	06251-61-20	1,300	06251-60-20	1,625	06251-63-20	1,950	6.5
6	2.50	3 1/2	3/4	Tapered	06259-61-12	1,300	06259-60-12	1,625	06259-63-12	1,950	6.5
6	2.50	3 1/2	1	Tapered	06259-61-16	1,300	06259-60-16	1,625	06259-63-16	1,950	6.5
6	3.00	3 1/4	1 15/16		06300-61-31	1,640	06300-60-31	2,050	06300-63-31	2,460	9.5
6	3.00	3 1/4	1	Roller	06301-61-16	1,640	06301-60-16	2,050	06301-63-16	2,460	9.5
6	3.00	3 1/4	1 1/4	Roller	06301-61-20	1,640	06301-60-20	2,050	06301-63-20	2,460	9.5
6	3.00	3 1/2	3/4	Tapered	06309-61-12	1,640	06309-60-12	2,050	06309-63-12	2,460	9.5
6	3.00	3 1/2	1	Tapered	06309-61-16	1,640	06309-60-16	2,050	06309-63-16	2,460	9.5
6	3.00	3 1/2	1 1/4	Tapered	06309-61-20	1,640	06309-60-20	2,050	06309-63-20	2,460	9.5

CASTER CONCEPTS

STANDARD PROFILE POLY WHEELS

5,040 maximum capacity LBS

WHEEL					PART NO.	CAPACITY	PART NO.	CAPACITY	PART NO.	CAPACITY	
Dia.	Width	Hub Length	Bore	Bearing	T/R Soft		Std Poly		Hard Poly		Wt.
8	2.00	2 3/16	1 3/16		08200-61-19	1,240	08200-60-19	1,550	08200-63-19	1,860	8.0
8	2.00	2 3/16	3/4	Roller	08201-61-12	1,240	08201-60-12	1,550	08201-63-12	1,860	8.0
8	2.00	2 7/16	3/4	Tapered	08209-61-12	1,240	08209-60-12	1,550	08209-63-12	1,860	8.0
8	2.50	3 1/4	1 15/16		08250-61-31	1,640	08250-60-31	2,050	08250-63-31	2,460	9.5
8	2.50	3 1/4	1	Roller	08251-61-16	1,640	08251-60-16	2,050	08251-63-16	2,460	9.5
8	2.50	3 1/4	1 1/4	Roller	08251-61-20	1,640	08251-60-20	2,050	08251-63-20	2,460	9.5
8	2.50	3 1/2	3/4	Tapered	08259-61-12	1,640	08259-60-12	2,050	08259-63-12	2,460	9.5
8	2.50	3 1/2	1	Tapered	08259-61-16	1,640	08259-60-16	2,050	08259-63-16	2,460	9.5
8	3.00	3 1/4	1 15/16		08300-61-31	2,000	08300-60-31	2,500	08300-63-31	3,000	12.5
8	3.00	3 1/4	1	Roller	08301-61-16	2,000	08301-60-16	2,500	08301-63-16	3,000	12.5
8	3.00	3 1/4	1 1/4	Roller	08301-61-20	2,000	08301-60-20	2,500	08301-63-20	3,000	12.5
8	3.00	3 1/2	3/4	Tapered	08309-61-12	2,000	08309-60-12	2,500	08309-63-12	3,000	12.5
8	3.00	3 1/2	1	Tapered	08309-61-16	2,000	08309-60-16	2,500	08309-63-16	3,000	12.5
8	3.00	3 1/2	1 1/4	Tapered	08309-61-20	2,000	08309-60-20	2,500	08309-63-20	3,000	12.5
8	4.00	4 1/4	2 7/16		08400-61-39	3,040	08400-60-39	3,800	08400-63-39	4,560	20.0
8	4.00	4 1/4	1 1/4	Roller	08401-61-20	3,040	08401-60-20	3,800	08401-63-20	4,560	20.0
8	4.00	4 1/4	1 1/2	Roller	08401-61-24	3,040	08401-60-24	3,800	08401-63-24	4,560	20.0
8	4.00	4 1/2	1	Tapered	08409-61-16	3,040	08409-60-16	3,800	08409-63-16	4,560	20.0
8	4.00	4 1/2	1 1/4	Tapered	08409-61-20	3,040	08409-60-20	3,800	08409-63-20	4,560	20.0
10	3.00	3 1/4	1 15/16		10300-61-31	2,400	10300-60-31	3,000	10300-63-31	3,600	16.0
10	3.00	3 1/4	1	Roller	10301-61-16	2,400	10301-60-16	3,000	10301-63-16	3,600	16.0
10	3.00	3 1/4	1 1/4	Roller	10301-61-20	2,400	10301-60-20	3,000	10301-63-20	3,600	16.0
10	3.00	3 1/2	3/4	Tapered	10309-61-12	2,400	10309-60-12	3,000	10309-63-12	3,600	16.0
10	3.00	3 1/2	1	Tapered	10309-61-16	2,400	10309-60-16	3,000	10309-63-16	3,600	16.0
10	3.00	3 1/2	1 1/4	Tapered	10309-61-20	2,400	10309-60-20	3,000	10309-63-20	3,600	16.0
10	4.00	4 1/4	2 7/16		10400-61-39	3,360	10400-60-39	4,200	10400-63-39	5,040	23.0
10	4.00	4 1/4	1 1/4	Roller	10401-61-20	3,360	10401-60-20	4,200	10401-63-20	5,040	23.0
10	4.00	4 1/4	1 1/2	Roller	10401-61-24	3,360	10401-60-24	4,200	10401-63-24	5,040	23.0
10	4.00	4 1/2	1	Tapered	10409-61-16	3,360	10409-60-16	4,200	10409-63-16	5,040	23.0
10	4.00	4 1/2	1 1/4	Tapered	10409-61-20	3,360	10409-60-20	4,200	10409-63-20	5,040	23.0
12	3.00	3 1/4	1 15/16		12300-61-31	2,800	12300-60-31	3,500	12300-63-31	4,200	21.0
12	3.00	3 1/4	1	Roller	12301-61-16	2,800	12301-60-16	3,500	12301-63-16	4,200	21.0
12	3.00	3 1/4	1 1/4	Roller	12301-61-20	2,800	12301-60-20	3,500	12301-63-20	4,200	21.0
12	3.00	3 1/2	3/4	Tapered	12309-61-12	2,800	12309-60-12	3,500	12309-63-12	4,200	21.0
12	3.00	3 1/2	1	Tapered	12309-61-16	2,800	12309-60-16	3,500	12309-63-16	4,200	21.0
12	3.00	3 1/2	1 1/4	Tapered	12309-61-20	2,800	12309-60-20	3,500	12309-63-20	4,200	21.0

Conveyor transmission drive wheel

CASTER CONCEPTS

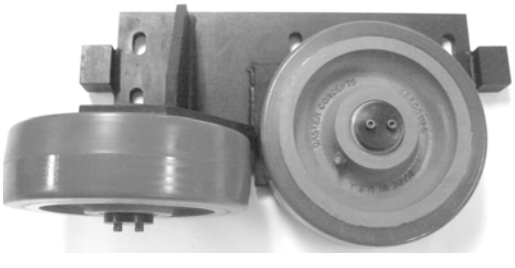
HIGH PROFILE POLY WHEELS

10,500 *maximum capacity* **LBS**

1" THICK TIRES

WHEEL					PART NO.	CAPACITY	PART NO.	CAPACITY	PART NO.	CAPACITY	
Dia.	Width	Hub Length	Bore	Bearing	T/R Soft		Std Poly		Hard Poly		Wt.
HIGH PROFILE POLY WHEELS—THICK TREAD											
4	2.00	2 7/16		Precision	04202-66-08	600					
6	3.00	3 1/4	1 15/16		06300-66-31	2,050	06300-65-31	2,450	06300-67-31	2,950	9.5
6	3.00	3 1/4	1	Roller	06301-66-16	2,050	06301-65-16	2,450	06301-67-16	2,950	9.5
6	3.00	3 1/4	1 1/4	Roller	06301-66-20	2,050	06301-65-20	2,450	06301-67-20	2,950	9.5
6	3.00	3 1/2	3/4	Tapered	06309-66-12	2,050	06309-65-12	2,450	06309-67-12	2,950	9.5
6	3.00	3 1/2	1	Tapered	06309-66-16	2,050	06309-65-16	2,450	06309-67-16	2,950	9.5
6	4.00	4 1/4	2 7/16		06400-66-39	2,400	06400-65-39	3,000	06400-67-39	3,600	17.0
6	4.00	4 1/4	1 1/4	Roller	06401-66-20	2,400	06401-65-20	3,000	06401-67-20	3,600	17.0
6	4.00	4 1/4	1 1/2	Roller	06401-66-24	2,400	06401-65-24	3,000	06401-67-24	3,600	17.0
6	4.00	4 1/2	1	Tapered	06409-66-16	2,400	06409-65-16	3,000	06409-67-16	3,600	17.0
6	4.00	4 1/2	1 1/4	Tapered	06409-66-20	2,400	06409-65-20	3,000	06409-67-20	3,600	17.0
6	5.00	5 1/4	2 7/16		06500-66-39	2,960	06500-65-39	3,700	06500-67-39	4,400	20.0
6	5.00	5 1/4	1 1/4	Roller	06501-66-20	2,960	06501-65-20	3,700	06501-67-20	4,400	20.0
6	5.00	5 1/4	1 1/2	Roller	06501-66-24	2,960	06501-65-24	3,700	06501-67-24	4,400	20.0
6	5.00	5 1/2	1	Tapered	06509-66-16	2,960	06509-65-16	3,700	06509-67-16	4,400	20.0
6	5.00	5 1/2	1 1/4	Tapered	06509-66-20	2,960	06509-65-20	3,700	06509-67-20	4,400	20.0
8	3.00	3 1/4	1 15/16		08300-66-31	2,480	08300-65-31	3,100	08300-67-31	3,500	17.0
8	3.00	3 1/4	1	Roller	08301-66-16	2,480	08301-65-16	3,100	08301-67-16	3,500	17.0
8	3.00	3 1/4	1 1/4	Roller	08301-66-20	2,480	08301-65-20	3,100	08301-67-20	3,500	17.0
8	3.00	3 1/2	3/4	Tapered	08309-66-12	2,480	08309-65-12	3,100	08309-67-12	3,500	17.0
8	3.00	3 1/2	1	Tapered	08309-66-16	2,480	08309-65-16	3,100	08309-67-16	3,500	17.0
10	3.00	3 1/4	2 7/16		10300-69-39	2,960	10300-68-39	3,700	10300-67-39	4,440	24.0
10	3.00	3 1/4	1 15/16		10300-66-31	2,960	10300-65-31	3,700	10300-67-31	4,400	24.0
10	3.00	3 1/4	1	Roller	10301-66-16	2,960	10301-65-16	3,700	10301-67-16	4,400	24.0
10	3.00	3 1/4	1 1/4	Roller	10301-66-20	2,960	10301-65-20	3,700	10301-67-20	4,400	24.0
10	3.00	3 1/4	1 1/2	Roller	10301-69-24	2,960	10301-68-24	3,700	10301-67-24	4,400	24.0
10	3.00	3 1/2	3/4	Tapered	10309-66-12	2,960	10309-65-12	3,700	10309-67-12	4,440	24.0
10	3.00	3 1/2	1	Tapered	10309-66-16	2,960	10309-65-16	3,700	10309-67-16	4,440	24.0
10	3.00	3 1/2	1 1/4	Tapered	10309-69-20	2,960	10309-68-20	3,700	10309-67-20	4,440	24.0
10	4.00	4 1/4	2 7/16		10400-66-39	4,000	10400-65-39	5,000	10400-67-39	6,000	33.0
10	4.00	4 1/4	1 1/4	Roller	10401-66-20	4,000	10401-65-20	5,000	10401-67-20	6,000	33.0
10	4.00	4 1/4	1 1/2	Roller	10401-66-24	4,000	10401-65-24	5,000	10401-67-24	6,000	33.0
10	4.00	4 1/2	1	Tapered	10409-66-16	4,000	10409-65-16	5,000	10409-67-16	6,000	33.0
10	4.00	4 1/2	1 1/4	Tapered	10409-66-20	4,000	10409-65-20	5,000	10409-67-20	6,000	33.0
10	5.00	5 1/4	2 7/16		10500-66-39	4,800	10500-65-39	6,000	10500-67-39	7,200	45.0
10	5.00	5 1/4	1 1/4	Roller	10501-66-20	4,800	10501-65-20	6,000	10501-67-20	7,200	45.0

T/R Compound used as Skillet Drive wheels



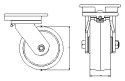
Value Added: Complete Vertical Drop Lift Elevator guide wheel assembly

CASTER CONCEPTS

HIGH PROFILE POLY WHEELS

10,500 *maximum capacity* **LBS**

1" THICK TIRES

WHEEL					PART NO.	CAPACITY	PART NO.	CAPACITY	PART NO.	CAPACITY	
											
Dia.	Width	Hub Length	Bore	Bearing	T/R Soft		Std Poly		Hard Poly		Wt.
HIGH PROFILE CONTINUED											
12	3.00	3 1/4	2 7/16		12300-66-39	3,080	12300-65-39	3,850	12300-67-39	4,620	24.0
12	3.00	3 1/4	1 1/4	Roller	12301-66-20	3,080	12301-65-20	3,850	12301-67-20	4,620	24.0
12	3.00	3 1/4	1 1/2	Roller	12301-66-24	3,080	12301-65-24	3,850	12301-67-24	4,620	24.0
12	3.00	3 1/2	1	Tapered	12309-66-16	3,080	12309-65-16	3,850	12309-67-16	4,620	24.0
12	3.00	3 1/2	1 1/4	Tapered	12309-66-20	3,080	12309-65-20	3,850	12309-67-20	4,620	24.0
12	4.00	4 1/4	2 7/16		12400-66-39	4,400	12400-65-39	5,500	12400-67-39	6,600	30.0
12	4.00	4 1/4	1 1/4	Roller	12401-66-20	4,400	12401-65-20	5,500	12401-67-20	6,600	30.0
12	4.00	4 1/4	1 1/2	Roller	12401-66-24	4,400	12401-65-24	5,500	12401-67-24	6,600	30.0
12	4.00	4 1/2	1	Tapered	12409-66-16	4,400	12409-65-16	5,500	12409-67-16	6,600	30.0
12	4.00	4 1/2	1 1/4	Tapered	12409-66-20	4,400	12409-65-20	5,500	12409-67-20	6,600	30.0
12	5.00	5 1/4	2 7/16		12500-66-39	5,200	12500-65-39	6,500	12500-67-39	7,800	45.0
12	5.00	5 1/4	1 1/4	Roller	12501-66-20	5,200	12501-65-20	6,500	12501-67-20	7,800	45.0
12	5.00	5 1/4	1 1/2	Roller	12501-66-24	5,200	12501-65-24	6,500	12501-67-24	7,800	45.0
12	5.00	5 1/2	1	Tapered	12509-66-16	5,200	12509-65-16	6,500	12509-67-16	7,800	45.0
12	5.00	5 1/2	1 1/4	Tapered	12509-66-20	5,200	12509-65-20	6,500	12509-67-20	7,800	45.0
16	4.00	4 1/4	2 7/16				16400-65-39	6,000	16400-67-39	8,000	40.0
16	4.00	4 1/4	1 1/4	Roller			16401-65-20	6,000	16401-67-20	8,000	40.0
16	4.00	4 1/4	1 1/2	Roller			16401-65-24	6,000	16401-67-24	8,000	40.0
16	4.00	4 1/2	1	Tapered			16409-65-16	6,000	16409-67-16	8,000	40.0
16	4.00	4 1/2	1 1/4	Tapered			16409-65-20	6,000	16409-67-20	8,000	40.0
16	5.00	5 1/4	2 7/16				16500-65-39	8,000	16500-67-39	9,000	72.0
16	5.00	5 1/4	1 1/4	Roller			16501-65-20	8,000	16501-67-20	9,000	72.0
16	5.00	5 1/4	1 1/2	Roller			16501-65-24	8,000	16501-67-24	9,000	72.0
16	5.00	5 1/2	1	Tapered			16509-65-16	8,000	16509-67-16	9,000	72.0
16	5.00	5 1/2	1 1/4	Tapered			16509-65-20	8,000	16509-67-20	9,000	72.0
18	5.00	5 1/4	2 7/16				18500-65-29	8,500	18500-67-39	9,000	90.0
18	5.00	5 1/4	1 1/4	Roller			18501-65-20	8,500	18501-67-20	9,000	90.0
18	5.00	5 1/4	1 1/2	Roller			18501-65-24	8,500	18501-67-24	9,000	90.0
18	5.00	5 1/2	1	Tapered			18509-65-16	8,500	18509-67-16	9,000	90.0
18	5.00	5 1/2	1 1/4	Tapered			18509-65-20	8,500	18509-67-20	9,000	90.0
20	5.00	5 1/4	2 7/16				20500-65-39	9,000	20500-67-39	10,500	110.0
20	5.00	5 1/4	1 1/4	Roller			20500-65-20	9,000	20500-67-20	10,500	110.0
20	5.00	5 1/4	1 1/2	Roller			20501-65-24	9,000	20501-67-24	10,500	110.0
20	5.00	5 1/4	2	Roller			20501-65-32	9,000	20501-67-32	10,500	110.0
20	5.00	5 1/2	1	Tapered			20509-65-16	9,000	20509-67-16	10,500	110.0
20	5.00	5 1/2	1 1/4	Tapered			20509-65-20	9,000	20509-67-20	10,500	110.0
20	5.00	5 1/2	1 1/2	Tapered			20509-65-24	9,000	20509-67-24	10,500	110.0
20	5.00	5 1/2	2	Tapered			20509-65-32	9,000	20509-67-32	10,500	110.0

All dimensions are in inches. All weights are in pounds.

CASTER CONCEPTS

60 SERIES HEAVY DUTY CASTERS

1500 maximum capacity LBS

FEATURES

Swivel Section: The hot forged, SAE 1045 steel swivel section features a precision machined 3-1/4" diameter load race with 7/16" ball bearings.
Kingpin: 3/4" integrally forged as part of the top plate with fully machined raceways and slotted adjusting nut
Legs: 1/4" x 2" bar continuously welded inside and outside to the yoke base
Axle: 1/2" diameter axle
Lubrication: Pre-lubricated before shipping
Wheels: 4" to 8" wheels
Finish: Water-based acrylic gray paint
Standard: Notched yoke base for field installation of swivel locks.

60-06201-20-1 with optional four position swivel lock

BENEFITS

The 60 Series hot forged casters are heavier and stronger than cold forged casters. Additionally, the precision machined raceways have longer wearing characteristics. Available with a wide variety of options, these heavy duty casters are excellent for in-plant equipment.

APPLICATIONS

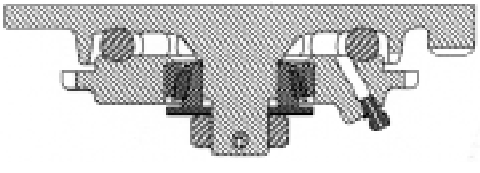
Excellent for parts bins, towline carts, dough troughs, automated vehicles, production racks and fixtures, pan trucks, conveyor systems and other heavy duty applications.

OPTIONS

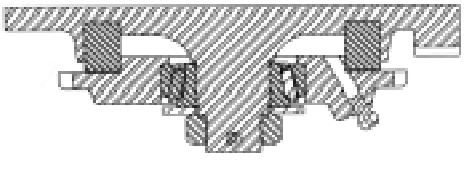
Brakes	
Cam:	CB-60
Poly Cam:	PCB-60*
Tread Lock:	TLB-60
Wrap Around:	WAB-60
Dual Side:	DSB-60
Swivel Locks	
Factory Installed:	SL-60
Demountable:	DSL-60
Sealed Swivel:	SS-60
Sealed Wheel:	WS
Toe Guard	TG-60

Precision Tapered Thrust Bearings (68 Series)
Precision Tapered Load & Trust Bearings (69 Series)
*For wheels with diameter ≥ 6 inches

68 Series Cross Sectional View



69 Series Cross Sectional View



CASTER CONCEPTS

60 SERIES HEAVY DUTY CASTERS

1500 maximum capacity LBS

WHEEL			CAPACITY				PART NUMBER		
Dia.	Width	Material	Roller Bearing	Precision Ball	OAH	Swivel Lead	Roller Bearing	Precision Ball	Wt.
4	1.5	Forged Steel	1,400	1,400	5.62	1.50	60-04101-20-1	60-04109-20-1†	7.25
4	2.0	Phenolic Resin	800		5.62	1.50	60-04201-30-1		7.50
4	2.0	Cast Iron	1,000		5.62	1.50	60-04201-10-1		7.50
4	2.0	Polyurethane	700	700	5.62	1.50	60-04201-60-1	60-04204-60-1	7.50
4	2.0	Soft Polyurethane	600	600	5.62	1.50	60-04201-66-1	60-04202-66-1	7.50
4	2.0	Envirothane	650	650	5.62	1.50	60-04201-62-1	60-04202-62-1	7.50
4	2.0	Mold on Rubber	350		5.62	1.50	60-04201-70-1		8.20
4	2.0	Softech	250	250	5.62	1.50	60-04201-72-1	60-04204-72-1*	8.00
5	2.0	Forged Steel	1,500	1,500	6.50	1.75	60-05201-20-1	60-05209-20-1†	10.20
5	2.0	Cast Iron	1,200		6.50	1.75	60-05201-10-1		9.20
5	2.0	Phenolic Resin	1,000		6.50	1.75	60-05201-30-1		8.50
5	2.0	Polyurethane	1,050	1,050	6.50	1.75	60-05201-60-1	60-05204-60-1	10.00
5	2.0	T/R Compound	850	850	6.50	1.75	60-05201-61-1	60-05204-61-1	10.00
5	2.0	Envirothane	800	800	6.50	1.75	60-05201-62-1	60-05202-62-1	7.50
5	2.0	Mold on Rubber	400		6.50	1.75	60-05201-70-1		10.00
5	2.0	Softech	275	275	6.50	1.75	60-05201-72-1	60-05204-72-1*	10.00
6	2.0	Forged Steel	1,500	1,500	7.50	2.25	60-06201-20-1	60-06209-20-1†	13.50
6	2.0	Cast Iron	1,200		7.50	2.25	60-06201-10-1		13.00
6	2.0	Phenolic Resin	1,200		7.50	2.25	60-06201-30-1		9.50
6	2.0	Polyurethane	1,200	1,200	7.50	2.25	60-06201-60-1	60-06202-60-1	12.00
6	2.0	T/R Compound	1,000	1,000	7.50	2.25	60-06201-61-1	60-06202-61-1	12.00
6	2.0	Solid Elastomer	950	950	7.50	2.25	60-06201-62-1	60-06202-62-1	12.00
6	2.0	Mold on Rubber	425		7.50	2.25	60-06201-70-1		12.00
6	2.0	Softech	450	450	7.50	2.25	60-06201-72-1	60-06204-72-1*	12.00
8	2.0	Cast Iron	1,500		10.12	2.25	60-08201-10-1		16.50
8	2.0	Phenolic Resin	1,400		10.12	2.25	60-08201-30-1		12.00
8	2.0	Polyurethane	1,500	1,500	10.12	2.25	60-08201-60-1	60-08202-60-1	14.00
8	2.0	T/R Compound	1,200	1,200	10.12	2.25	60-08201-61-1	60-08202-61-1	14.00
8	2.0	Solid Elastomer	1,300	1,300	10.12	2.25	60-08201-62-1	60-08202-62-1	14.00
8	2.0	Mold on Rubber	500		10.12	2.25	60-08201-70-1		14.00
8	4.0	Softech	600	600	10.12	2.25	60-08201-72-1	60-08204-72-1*	14.00

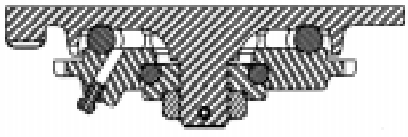
Capacity listed is for manual operation. For powered operations, consult factory.
Part Numbers listed are for the swivel caster. For rigid casters, change the last digit from 1 to 2 (i.e. 60-06201-60-2)
Estimated weight is for swivel caster. Deduct 20 percent of swivel caster weight for rigid casters.
†This caster has tapered roller bearings
** This caster has anular ball bearing*

All dimensions are in inches. All weights are in pounds.

For tapered thrust bearings, change the first two digits to 68 (i.e. 68-08202-62-1)
For tapered load and thrust bearings, change the first 2 digits to 69 (i.e. 69-08202-62-1)

Top Plate Size	Bolt Hole Spacing	Bolt Diameter
Std: 4.5 x 6.25	2.438 x 4.938 Slotted to 3.375 x 5.25	0.50

60 Series Cross Sectional View



CASTER CONCEPTS

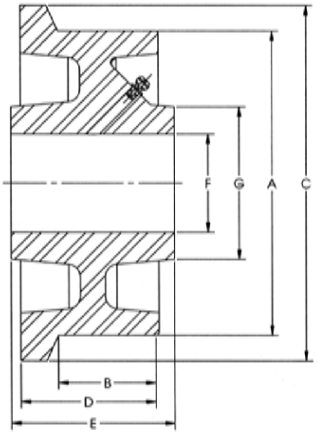
FLANGED WHEELS

12,000 *maximum capacity* **LBS**

FEATURES

Bearings: Roller, tapered roller
Temperature: Maximum to 800˚ with proper bearings and lubrication.
Standard: All 1-1/2” and 2” width wheels with 3/4” roller bearing are supplied with 1/2” spanner bushing.

06151-18-12 shown



BENEFITS

The flanged wheel is designed to operate on steel tracking to minimize guidance and rolling effort. These wheels are constructed of premium cast iron and steel for high strength and long wear.
Various bore sizes are available for use with keyway or a variety of bearings.

APPLICATIONS

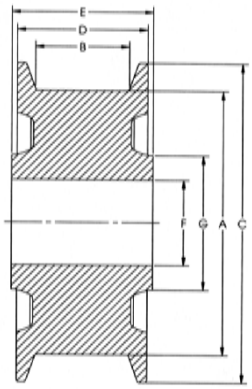
Flanged wheels are excellent for precise alignment of work, captive turntables or repetitive processes, including foundry cooling lines.

WHEEL		FLANGE		CAPACITY				PART NUMBER			
Dia. A	Width B	Dia. C	Width D		Hub Length E	Bore F	Hub. Dia. G	Straight Roller	Precision Tapered	Less Bearing	Wt.
SINGLE FLANGED WHEELS											
3.50	1.31	4.50	1.69	1,000	1 15/16	3/4	2 1/8	03101-18-12			5.0
3.50	1.31	4.50	1.69	1,000	1 15/16	1 3/16	2 1/8			03100-18-19	5.0
4.00	2.00	5.25	3.00	5,000	3 1/2	1 1/4	2 1/2		04209-18-20		10.0
4.00	2.00	5.25	3.00	5,000	3 1/2	1	2 1/2		04209-18-16		10.0
4.50	2.25	5.50	3.00	5,000	3 1/4	2 7/16	2 1/2			04258-18-39	15.0
4.50	2.25	5.50	3.00	5,000	3 1/2	1	3 3/4		04259-18-16		15.0
4.50	2.25	5.50	3.00	5,000	3 1/2	1 1/4	3 3/4		04259-18-20		15.0
4.50	2.25	5.50	3.00	5,000	3 1/4	1 15/16	3 3/4			04250-18-31	15.0
4.50	2.25	5.50	3.00	4,000	3 1/4	1	3 3/4	04251-18-16			15.0
4.50	2.25	5.50	3.00	4,000	3 1/4	1 1/4	3 3/4	04251-18-20			15.0
5.00	2.06	6.00	2.69	6,000	3 1/4	1 1/4	3 7/8	05201-28-20			15.0
5.00	2.06	6.00	2.69	6,000	3 1/4	1 1/2	3 7/8	05201-28-24			15.0
5.00	2.06	6.00	2.69	10,000	3 1/4	2 7/16	3 7/8			05208-28-39	15.0
5.00	2.06	6.00	2.69	10,000	3 1/2	1	3 7/8		05209-28-16		15.0
5.00	2.06	6.00	2.69	10,000	3 1/2	1 1/4	3 7/8		05209-28-20		15.0
6.00	1.63	6.75	2.00	900	2 3/16	1 3/16	1 3/4			06150-18-19	18.0
6.00	1.63	6.75	2.00	900	2 3/16	3/4	1 3/4	06151-18-12			18.0
6.13	1.69	7.00	2.13	5,000	2 3/4	1 15/16	3			06200-18-31	24.0
6.13	1.69	7.00	2.13	4,000	2 3/4	1 1/4	3	06201-18-20			24.0
6.13	1.69	7.00	2.13	5,000	3	3/4	3		06209-18-12		24.0
6.13	1.69	7.00	2.13	5,000	3	1	3		06209-18-16		24.0
6.00	2.00	7.00	2.75	3,500	3 1/4	1 15/16	3			06250-18-31	16.0
6.00	2.00	7.00	2.75	3,500	3 1/4	1	3	06251-18-16			16.0
6.00	2.00	7.00	2.75	3,500	3 1/4	1 1/4	3	06251-18-20			16.0
6.00	2.00	7.00	2.75	3,500	3 1/2	3/4	3		06259-18-12		16.0
6.00	2.00	7.00	2.75	3,500	3 1/2	1	3		06259-18-16		16.0
7.87	2.25	9.25	2.75	3,500	3 1/4	2 7/16	3 3/4			07250-18-39	29.0
7.87	2.25	9.25	2.75	3,500	3 1/4	1 1/4	3 3/4	07251-18-20			29.0
7.87	2.25	9.25	2.75	3,500	3 1/4	1 1/2	3 3/4	07251-18-24			29.0
7.87	2.25	9.25	2.75	3,500	3 1/2	1	3 3/4		07259-18-16		29.0
7.87	2.25	9.25	2.75	3,500	3 1/2	1 1/4	3 3/4		07259-18-20		29.0
7.87	1.75	8.63	2.25	3,000	2 1/2	1 3/16	2 7/8			08200-18-19	27.0
7.87	1.75	8.63	2.25	3,000	2 1/2	1 15/16	2 7/8			08200-18-31	27.0
7.87	1.75	8.63	2.25	3,000	2 1/2	3/4	2 7/8	08201-18-12			27.0

CASTER CONCEPTS

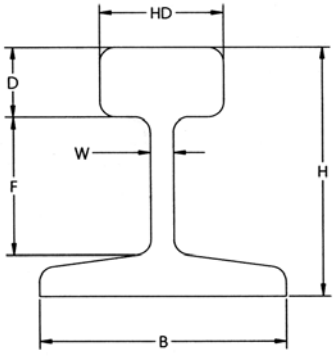
FLANGED WHEELS
12,000 maximum capacity LBS

WHEEL			FLANGE	CAPACITY				PART NUMBER			
Dia. A	Width B	Dia. C	Width D		Hub Length E	Bore F	Hub. Dia. G	Straight Roller	Precision Tapered	Less Bearing	Wt.
7.87	1.75	8.63	2.25	3,000	2 1/2	1	2 7/8	08201-18-16			27.0
7.87	1.75	8.63	2.25	3,000	2 1/2	1 1/4	2 7/8	08201-18-20			27.0
7.87	1.75	8.63	2.25	3,000	2 3/4	3/4	2 7/8		08209-18-12		27.0
8.00	2.38	9.00	3.00	15,000	3 1/4	2 7/16	2 7/8			08200-28-39	48.0
8.00	2.38	9.00	3.00	6,000	3 1/4	1 1/4	5	08201-28-20			48.0
8.00	2.38	9.00	3.00	6,000	3 1/4	1 1/2	5	08201-28-24			48.0
8.00	2.38	9.00	3.00	10,000	3 1/2	1	5		08209-28-16		48.0
8.00	2.38	9.00	3.00	10,000	3 1/2	1 1/4	5		08209-28-20		48.0
8.00	2.25	9.50	3.00	3,500	3 1/4	2 7/16	3 3/4			08250-18-39	33.0
8.00	2.25	9.50	3.00	3,500	3 1/4	1 1/4	3 3/4	08251-18-20			33.0
8.00	2.25	9.50	3.00	3,500	3 1/4	1 1/2	3 3/4	08251-18-24			33.0
8.00	2.25	9.50	3.00	3,500	3 1/2	1	3 3/4		08259-18-16		33.0
8.00	2.25	9.50	3.00	3,500	3 1/2	1 1/4	3 3/4		08259-18-20		33.0
10.00	4.00	12.00	5.00	12,000	6	3 1/8	4 1/2			10408-18-50	90.0
10.00	4.00	12.00	5.00	12,000	6 1/4	1 1/4	4 1/2		10409-18-20		90.0
10.00	4.00	12.00	5.00	12,000	6 1/4	1 1/2	4 1/2		10409-18-24		90.0
14.88	2.56	16.88	3.38	8,000	4 1/4	2 7/16	4 1/2			15250-18-39	100.0
14.88	2.56	16.88	3.38	8,000	4 1/4	1 1/4	4 1/2	15251-18-20			100.0
14.88	2.56	16.88	3.38	8,000	4 1/4	1 1/2	4 1/2	15251-18-24			100.0
14.88	2.56	16.88	3.38	8,000	4 1/2	1	4 1/2		15259-18-16		100.0
14.88	2.56	16.88	3.38	8,000	4 1/2	1 1/4	4 1/2		15259-18-20		100.0
DUAL FLANGED WHEELS											
5.00	1.69	6.00	3.00	10,000	3 1/4	2 7/16	3 7/8			05200-29-39	17.0
5.00	1.69	6.00	3.00	6,000	3 1/4	1 1/4	3 7/8	05201-29-20			17.0
5.00	1.69	6.00	3.00	6,000	3 1/4	1 1/2	3 7/8	05201-29-24			17.0
5.00	1.69	6.00	3.00	10,000	3 1/2	1	3 7/8		05209-29-16		17.0
5.00	1.69	6.00	3.00	10,000	3 1/2	1 1/4	3 7/8		05209-29-20		17.0
6.00	2.13	7.25	3.00	6,000	3 1/4	1 15/16	3			06200-19-31	26.0
6.00	2.13	7.25	3.00	5,000	3 1/4	1	3	06201-19-16			26.0
6.00	2.13	7.25	3.00	5,000	3 1/4	1 1/4	3	06201-19-20			26.0
6.00	2.13	7.25	3.00	5,000	3 1/2	3/4	3		06209-19-12		26.0
6.00	2.13	7.25	3.00	6,000	3 1/2	1	3		06209-19-16		26.0
8.00	1.76	9.00	3.00	15,000	3 1/4	2 7/16	5			08200-29-39	50.0
8.00	1.76	9.00	3.00	6,000	3 1/4	1 1/4	5	08201-29-20			50.0
8.00	1.76	9.00	3.00	6,000	3 1/4	1 1/2	5	08201-29-24			50.0
8.00	1.76	9.00	3.00	15,000	3 1/4	2 7/16	5			08208-29-39	50.0
8.00	1.76	9.00	3.00	10,000	3 1/2	1	5		08209-29-16		50.0
8.00	1.76	9.00	3.00	10,000	3 1/2	1 1/4	5		08209-29-20		50.0
10.00	3.00	12.00	5.00	12,000	6	3 1/8	4 1/2			10308-19-50	95.0
10.00	3.00	12.00	5.00	12,000	6 1/4	1 1/4	4 1/2		10309-19-20		95.0
10.00	3.00	12.00	5.00	12,000	6 1/4	1 1/2	4 1/2		10309-19-24		95.0



RAIL SIZES

WEIGHT LB/FT	H	B	HD	W	D	F
12	2	2	1	3/16	9/16	1-3/32
16	2-3/8	2-3/8	1-11/64	7/32	41/64	1-23/64
20	2-5/8	2-5/8	1-11/32	1/4	23/32	1-15/32
25	2-3/4	2-3/4	1-1/2	19/64	25/32	1-31/64
30	3-1/8	3-1/8	1-11/16	21/64	7/8	1-23/32
40	3-1/2	3-1/2	1-7/8	25/64	1-1/64	1-55/64
60	4-1/4	4-1/4	2-3/8	31/64	1-7/32	2-17/64
80	5	5	2-1/2	35/64	1-1/2	2-5/8
85	5-3/16	5-3/16	2-9/16	9/16	1-35/64	2-3/4
90	5-5/8	5-1/8	2-9/16	9/16	1-15/32	3-5/32
100	6	5-3/8	2-11/16	9/16	1-21/32	3-9/32



CASTER CONCEPTS

V-GROOVE WHEELS

15,000 maximum capacity LBS

FEATURES

Bearings: Roller, tapered, plain
Temperature: Maximum to 800˚ F with proper bearing and lubrication.
Standard: All 1-1/2" and 2" width wheels with 3/4" roller bearings are supplied with 1/2" spanner bushing.

BENEFITS

V-groove wheels are constructed of premium G-3000 gray iron castings or hot forged C-1030 steel. The 90 degree grooves are accurately machined into the face of the wheels. A relief groove at the base of the "V" directs the load to each face of the angle track when in use. V-groove wheels can be used on a track, flat surface or both without fear of damage.

Exceptionally strong and ideal for heavy loads, the V-groove wheels are able to be machined out for keyway or various bore sizes.

Wheel material codes: Cast iron (15); heavy duty cast iron (16); forged steel (25); heavy duty forged steel (26)

06309-25-16 shown

APPLICATIONS

Excellent for guided industrial applications, assembly lines, paint lines and material handling where precise alignment is necessary.

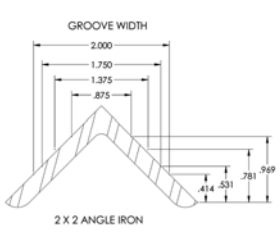
WHEEL		CAPACITY				PART NUMBER			
Dia.	Width	LBS	Hub Length	Bore	Width x Depth	Straight Roller	Precision Tapered	Less Bearing	Wt.
4	2.00	1,000	2 3/16	1 3/16	7/8 x 7/16			04200-15-19	5.0
4	2.00	1,000	2 3/16	3/4	7/8 x 7/16	04201-15-12			5.0
6	2.00	1,000	2 3/16	1 3/16	7/8 x 7/16			06200-15-19	5.0
6	2.00	1,000	2 3/16	3/4	7/8 x 7/16	06201-15-12			5.0
6	2.50	2,500	3 1/4	1 15/16	7/8 x 7/16			06250-15-31	10.0
6	2.50	2,500	3 1/4	1	7/8 x 7/16	06251-15-16			10.0
6	2.50	2,500	3 1/4	1 1/4	7/8 x 7/16	06251-15-20			10.0
6	2.50	2,500	3 1/2	3/4	7/8 x 7/16		06259-15-12		10.0
6	3.00	15,000	3 1/4	2 7/16	1-3/8 x 11/16			06300-25-39	20.0
6	3.00	6,000	3 1/4	1 1/4	1-3/8 x 11/16	06301-25-20			20.0
6	3.00	6,000	3 1/4	1 1/2	1-3/8 x 11/16	06301-25-24			20.0
6	3.00	10,000	3 1/2	1	1-3/8 x 11/16		06309-25-16		20.0
6	3.00	10,000	3 1/2	1 1/4	1-3/8 x 11/16		06309-25-20		20.0
6	3.00	15,000	3 1/4	3 1/8^	1-3/8 x 11/16			06308-26-50	20.0
6	3.00	15,000	3 1/2	1 1/4	1-3/8 x 11/16		06309-26-20		20.0
6	3.00	15,000	3 1/2	1 1/2	1-3/8 x 11/16		06309-26-24		20.0
8	2.50	2,500	3 1/4	1 15/16	7/8 x 7/16			08250-15-31	20.0
8	2.50	2,500	3 1/4	1	7/8 x 7/16	08251-15-16			20.0
8	2.50	2,500	3 1/4	1 1/4	7/8 x 7/16	08251-15-20			20.0
8	2.50	2,500	3 1/2	3/4	7/8 x 7/16		08259-15-12		20.0
8	3.00	4,000	3 1/4	1 15/16	7/8 x 7/16			08300-15-31	22.0
8	3.00	4,000	3 1/4	1	7/8 x 7/16	08301-15-16			22.0
8	3.00	4,000	3 1/4	1 1/4	7/8 x 7/16	08301-15-20			22.0
8	3.00	4,000	3 1/2	1	7/8 x 7/16		08309-15-16		22.0
8	3.00	4,000	3 1/2	1 1/4	7/8 x 7/16		08309-15-20		22.0
8	3.00	4,500	3 1/4	2 7/16	1-3/8 x 11/16			08300-16-39	24.0
8	3.00	4,500	3 1/4	1 1/4	1-3/8 x 11/16	08301-16-20			24.0
8	3.00	4,500	3 1/4	1 1/2	1-3/8 x 11/16	08301-16-24			24.0
8	3.00	4,500	3 1/2	1	1-3/8 x 11/16		08309-16-16		24.0
8	3.00	4,500	3 1/2	1 1/4	1-3/8 x 11/16		08309-16-20		24.0

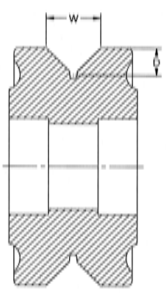
CASTER CONCEPTS

V-GROOVE WHEELS
15,000 maximum capacity LBS

WHEEL		CAPACITY			PART NUMBER				
Dia.	Width		Hub Length	Bore	Width x Depth	Straight Roller	Tapered Roller	Less Bearing	Wt.
8	3.00	5,000	3 1/4	1 15/16	7/8 x 7/16			08300-25-31	24.0
8	3.00	5,000	3 1/4	1	7/8 x 7/16	08301-25-16			24.0
8	3.00	5,000	3 1/4	1 1/4	7/8 x 7/16	08301-25-20			24.0
8	3.00	5,000	3 1/2	3/4	7/8 x 7/16		08309-25-12		24.0
8	3.00	5,000	3 1/2	1	7/8 x 7/16		08309-25-16		24.0
8	4.00	8,400	4 1/4	2 7/16	1-3/4 x 7/8			08400-25-39	30.0
8	4.00	8,400	4 1/4	1 1/4	1-3/4 x 7/8	08401-25-20			30.0
8	4.00	8,400	4 1/4	1 1/2	1-3/4 x 7/8	08401-25-24			30.0
8	4.00	10,000	4 1/2	1	1-3/4 x 7/8		08409-25-16		30.0
8	4.00	10,000	4 1/2	1 1/4	1-3/4 x 7/8		08409-25-20		30.0
8	4.00	15,000	4 1/4	3 1/8^	1-3/4 x 7/8			08408-26-50	31.0
8	4.00	15,000	4 1/2	1 1/4	1-3/4 x 7/8		08409-26-20		31.0
8	4.00	15,000	4 1/2	1 1/2	1-3/4 x 7/8		08409-26-24		31.0
10	3.00	3,000	3 1/4	1 15/16	1-3/8 x 11/16			10300-15-31	25.0
10	3.00	3,000	3 1/4	1	1-3/8 x 11/16	10301-15-16			25.0
10	3.00	3,000	3 1/4	1 1/4	1-3/8 x 11/16	10301-15-20			25.0
10	3.00	3,000	3 1/2	3/4	1-3/8 x 11/16		10309-15-12		25.0
10	3.00	3,500	3 1/4	2 7/16	1-3/8 x 11/16			10300-16-39	25.0
10	3.00	3,500	3 1/4	1 1/4	1-3/8 x 11/16	10301-16-20			25.0
10	3.00	3,500	3 1/4	1 1/2	1-3/8 x 11/16	10301-16-24			25.0
10	3.00	3,500	3 1/2	1	1-3/8 x 11/16		10309-16-16		25.0
10	3.00	3,500	3 1/2	1 1/4	1-3/8 x 11/16		10309-16-20		25.0
10	3.00	5,000	3 1/4	1 15/16	1-3/8 x 11/16			10300-25-31	27.0
10	3.00	5,000	3 1/4	1	1-3/8 x 11/16	10301-25-16			27.0
10	3.00	5,000	3 1/4	1 1/4	1-3/8 x 11/16	10301-25-20			27.0
10	3.00	5,000	3 1/2	3/4	1-3/8 x 11/16		10309-25-12		27.0
10	3.00	5,000	3 1/2	1	1-3/8 x 11/16		10309-25-16		27.0
10	3.00	6,000	3 1/4	2 7/16	1-3/8 x 11/16			10300-26-39	27.0
10	3.00	6,000	3 1/4	1 1/4	1-3/8 x 11/16	10301-26-20			27.0
10	3.00	6,000	3 1/4	1 1/2	1-3/8 x 11/16	10301-26-24			27.0
10	3.00	6,000	3 1/2	1	1-3/8 x 11/16		10309-26-16		27.0
10	3.00	6,000	3 1/2	1 1/4	1-3/8 x 11/16		10309-26-20		27.0
10	4.00	8,400	4 1/4	2 7/16	1-3/4 x 7/8			10400-25-39	48.0
10	4.00	8,400	4 1/4	1 1/4	1-3/4 x 7/8	10401-25-20			48.0
10	4.00	8,400	4 1/4	1 1/2	1-3/4 x 7/8	10401-25-24			48.0
10	4.00	10,000	4 1/2	1	1-3/4 x 7/8		10409-25-16		48.0
10	4.00	10,000	4 1/2	1 1/4	1-3/4 x 7/8		10409-25-20		48.0
10	4.00	15,000	4 1/4	3 1/8^	1-3/4 x 7/8			10408-26-50	48.0
10	4.00	15,000	4 1/2	1 1/4	1-3/4 x 7/8		10409-26-20		48.0
10	4.00	15,000	4 1/2	1 1/2	1-3/4 x 7/8		10409-26-24		48.0
12	5.00	9,500	5 1/4	1 1/4	2 x 1	12501-16-20*			110.0
12	5.00	9,500	5 1/4	1 1/2	2 x 1	12501-16-24*			110.0
12	5.00	12,000	5 1/2	1 1/4	2 x 1		12509-16-20*		110.0
12	5.00	12,000	5 1/2	1 1/2	2 x 1		12509-16-24*		110.0

Capacity listed is for manual operation.
For powered operations, consult factory.
^ Dimensions for tapered bearing bore.
** These wheels are ductile iron.*
All dimensions are in inches. All weights are in pounds.





CASTER CONCEPTS

PREMIUM CAST IRON WHEELS

15,000 *maximum capacity* **LBS**

FEATURES

These cast iron wheels are constructed of premium Class 30 gray iron for maximum load capacity and impact strength. The wheels feature heavy cross section castings for heavy duty use, abrasion resistance and a long service life. Each wheel is precision machined with rounded edges to finished tolerances.

Standard: All 1-1/2" and 2" wide wheels with 3/4" roller bearings are supplied with 1/2" spanner standard.

APPLICATIONS

Built for high capacity applications, the cast iron wheels can withstand extreme heat. Precision tapered bearings are available to complement the characteristics of the wheels.

OPTIONS

Wheel material codes: cast iron (10); heavy duty cast iron (11); ductile iron (12).

08301-10-16 shown

WHEEL CAPACITY					PART NUMBER			
Dia	Width	Capacity	Hub Length	Bore	Straight Roller	Precision Tapered	Less Bearing	Wt.
3	1.25	450	1 1/2	3/8			03120-10-06	2.0
3.25	1.50	400	1 5/8	3/4	03151-10-12			3.4
3.25	1.50	400	1 5/8	5/8	03151-10-10			3.4
3.25	2.00	700	2 3/16	3/4	03201-10-12			3.4
4	1.50	600	1 11/16	1/2			04150-10-08	3.4
4	1.50	600	1 5/8	5/8	04151-10-10			3.4
4	2.00	1,000	2 3/16	1 3/16			04200-10-19	4.0
4	2.00	1,000	2 3/16	3/4	04201-10-12			4.0
4	3.00	2,000	3 1/4	1 15/16			04300-10-31	7.0
4	3.00	2,000	3 1/4	1	04301-10-16			7.0
4	3.00	2,000	3 1/4	1 1/4	04301-10-20			7.0
4	3.00	2,000	3 1/2	3/4		04309-10-12		7.0
4	4.00	4,000	4 1/4	2 7/16			04400-10-39	11.0
4	4.00	4,000	4 1/4	1 1/4	04401-10-20			11.0
4	4.00	4,000	4 1/2	1		04409-10-16		11.0
4	4.00	4,000	4 1/2	1 1/4		04409-10-20		11.0
5	1.50	600	1 5/8	3/4	05151-10-12			
5	1.50	600	1 5/8	5/8	05151-10-10			
5	2.00	1,500	2 3/16	1 3/16			05200-10-19	6.0
5	2.00	1,200	2 3/16	3/4	05201-10-12			6.0
5	2.00	1,200	2 3/16	5/8	05201-10-10			
5	2.50	2,000	3 1/4	1 15/16			05250-10-31	7.5
5	2.50	2,000	3 1/4	1	05251-10-16			7.5
5	2.50	2,000	3 1/4	1 1/4	05251-10-20			7.5
5	2.50	2,000	3 1/2	3/4		05259-10-12		7.5
6	1.50	800	1 5/8	3/4	06151-10-12			
6	1.50	800	1 5/8	5/8	06151-10-10			
6	2.00	1,300	2 3/16	1 3/16			06200-10-19	6.8
6	2.00	1,300	2 3/16	3/4	06201-10-12			6.8
6	2.50	2,500	3 1/4	1 15/16			06250-10-31	12.0
6	2.50	2,500	3 1/4	1 1/4	06251-10-20			12.0
6	2.50	2,500	3 1/4	1	06251-10-16			12.0
6	2.50	2,500	3 1/2	3/4		06259-10-12		12.0
6	2.50	2,500	3 1/2	1		06259-10-16		12.0
6	3.00	2,500	3 1/4	1 15/16			06300-10-31	12.0
6	3.00	2,500	3 1/4	1	06301-10-16			12.0
6	3.00	2,500	3 1/4	1 1/4	06301-10-20			12.0
6	3.00	2,500	3 1/2	3/4		06309-10-12		12.0

CASTER CONCEPTS

PREMIUM CAST IRON WHEELS

15,000 maximum capacity LBS

WHEEL	CAPACITY			PART NUMBER				
								LBS
Dia	Width	Capacity	Hub Length	Bore	Straight Roller	Precision Tapered	Less Bearing	Wt.
6	3.00	2,500	3 1/2	1		06309-10-16		12.0
7	3.00	4,000	3 1/4	1 15/16			07300-10-31	27.0
7	3.00	4,000	3 1/4	1	07301-10-16			27.0
7	3.00	4,000	3 1/4	1 1/4	07301-10-20			27.0
7	3.00	4,000	3 1/2	3/4		07309-10-12		27.0
7	3.00	6,000	3 1/4	2 7/16			07300-11-39	27.0
7	3.00	6,000	3 1/4	1 1/4	07301-11-20			27.0
7	3.00	6,000	3 1/4	1 1/2	07301-11-24			27.0
7	3.00	6,000	3 1/2	1		07309-11-16		27.0
7	3.00	6,000	3 1/2	1 1/4		07309-11-20		27.0
8	2.00	1,500	2 1/5	1 3/16			08200-10-19	7.5
8	2.00	1,500	2 1/5	3/4	08201-10-12			7.5
8	2.00	1,500	2 1/5	5/8	08201-10-10			7.5
8	3.00	3,500	3 1/4	1 15/16			08300-10-31	15.0
8	3.00	3,500	3 1/4	1	08301-10-16			15.0
8	3.00	3,500	3 1/4	1 1/4	08301-10-20			15.0
8	3.00	4,500	3 1/2	3/4		08309-10-12		15.0
8	3.00	4,500	3 1/4	1 1/4	08301-11-20			25.0
8	3.00	4,500	3 1/2	1		08309-11-16		25.0
8	3.00	4,500	3 1/2	1 1/4		08309-11-20		25.0
8	4.00	5,000	4 1/4	2 7/16			08400-10-39	28.0
8	4.00	5,000	4 1/4	1 1/4	08401-10-20			28.0
8	4.00	5,000	4 1/2	1		08409-10-16		28.0
8	4.00	5,000	4 1/2	1 1/4		08409-10-20		28.0
10	3.00	3,500	3 1/4	1 15/16			10300-10-31	30.0
10	3.00	3,500	3 1/4	1	10301-10-16			30.0
10	3.00	3,500	3 1/4	1 1/4	10301-10-20			30.0
10	3.00	3,500	3 1/2	3/4		10309-10-12		30.0
10	3.00	3,500	3 1/2	1		10309-10-16		30.0
10	3.00	4,000	3 1/4	2 7/16			10300-11-39	30.0
10	3.00	4,000	3 1/4	1 1/4	10301-11-20			30.0
10	3.00	4,000	3 1/4	1 1/2	10301-11-24			30.0
10	3.00	4,000	3 1/2	1		10309-11-16		30.0
10	3.00	4,000	3 1/2	1 1/4		10309-11-20		30.0
10	4.00	6,000	4 1/4	2 7/16			10400-10-39	32.0
10	4.00	6,000	4 1/4	1 1/4	10401-10-20			32.0
10	4.00	6,000	4 1/2	1		10409-10-16		32.0
10	4.00	6,000	4 1/2	1 1/4		10409-10-20		32.0
12	2.50	2,500	3 1/4	1	12251-10-16			37.0
12	2.50	2,500	3 1/4	1 1/4	12251-10-20			37.0
12	3.00	3,000	3 1/4	1	12301-10-16			39.0
12	3.00	3,000	3 1/4	1 1/4	12301-10-20			39.0
12	3.00	3,000	3 1/2	3/4		12309-10-12		39.0
12	3.00	3,000	3 1/2	1		12309-10-16		39.0
12	4.00	7,500	4 1/4	1 1/4	12401-12-20*			53.0
12	4.00	7,500	4 1/4	2 7/16			12400-12-39*	53.0
12	4.00	7,500	4 1/4	1 1/2	12401-12-24*			53.0
12	4.00	7,500	4 1/2	1		12409-12-16*		53.0
12	4.00	7,500	4 1/2	1 1/4		12409-12-20*		53.0
12	5.00	10,000	5 1/4	1 1/4	12501-12-20*			98.0
12	5.00	10,000	5 1/4	1 1/2	12501-12-24*			98.0
12	5.00	15,000	5 1/2	1 1/4		12509-12-20*		98.0
12	5.00	15,000	5 1/2	1 1/2		12509-12-24*		98.0
12	6.00	10,000	6 1/2	1 1/4		12609-10-20		75.0
12	6.00	10,000	6 1/2	1 1/2		12609-10-24		75.0
14	4.00	7,000	4 1/4	1 1/4	14401-10-20			60.0
14	4.00	7,000	4 1/4	2 7/16			14400-10-39	60.0
14	4.00	7,000	4 1/2	1		14409-10-16		60.0
14	4.00	7,000	4 1/2	1 1/4		14409-10-20		60.0
16	3.00	3,000	3 1/4	1	16301-10-16			64.0
16	3.00	3,000	3 1/4	1 1/4	16301-10-20			64.0
16	3.00	3,000	3 1/2	1		16309-10-16		64.0
16	4.00	7,500	4 1/4	2 7/16			16400-10-39	72.0
16	4.00	7,500	4 1/4	1 1/4	16401-10-20			72.0
16	4.00	7,500	4 1/4	1 1/2	16401-10-24			72.0
16	4.00	7,500	4 1/2	1		16409-10-16		72.0
16	4.00	7,500	4 1/2	1 1/4		16409-10-20		72.0
16	4.00	7,500	4 1/2	1 1/2		16409-10-24		72.0

Capacity listed is for manual operation. For powered operations, consult factory.
** These wheels are cast ductile iron*
All dimensions are in inches. All weights are in pounds.

CASTER CONCEPTS

FORGED STEEL WHEELS

20,000 *maximum capacity* **LBS**

FEATURES

Bearings: Roller, tapered, plain, Teflon
Temperature: Maximum to 800 degrees with proper bearings and lubrication.
Standard: All 1-1/2" and 2" wide wheels are supplied with 1/2" spanner standard.

BENEFITS

Forged steel wheels are hot forged from high carbon steel billets heated to 2,400 degrees then repeatedly hit by high tonnage forging hammers. This process enhances the grain structure and increases the ductility and tensile strength (64000 psi) of the wheel. The wheels are then precision machined flat with rounded edged to finished tolerances.

Forged steel wheels offer the greatest load capacity, impact strength and rollability of all caster wheels. Wheel material codes: forged steel (20); heavy duty forged steel (21); ductile iron (12)

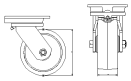
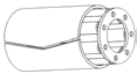
10409-21-20 shown

WHEEL		CAPACITY			PART NUMBER			
Dia.	Width		Hub Length	Bore	Straight Roller	Precision Tapered	Less Bearing	Wt.
4	1.50	1,400	2 3/16	1 3/16			04100-20-19	3.25
4	1.50	1,400	2 3/16	3/4	04101-20-12			3.25
4	1.50	1,400	2 7/16	1/2		04109-20-08		3.25
5	1.75	1,500	2 3/16	1 3/16			05200-20-19	5.25
5	1.75	1,500	2 3/16	3/4	05201-20-12			5.25
5	1.75	1,500	2 3/16	1 3/16			06200-20-19	5.25
5	1.75	1,800	2 7/16	1/2		05209-20-08		5.25
6	2.00	1,500	2 3/16	3/4	06201-20-12			6.25
6	2.00	2,500	2 7/16	1/2		06209-20-08		6.25
6	2.50	4,000	3 1/4	1 15/16			06250-20-31	12.00
6	2.50	4,000	3 1/4	1 1/4	06251-20-20			12.00
6	2.50	4,000	3 1/4	1	06251-20-16			12.00
6	2.50	5,000	3 1/2	3/4		06259-20-12		12.00
6	2.50	5,000	3 1/2	1		06259-20-16		12.00
6	3.00	6,000	3 1/4	2 7/16			06300-20-39	20.00
6	3.00	6,000	3 1/4	1 1/4	06301-20-20			20.00
6	3.00	6,000	3 1/4	1 1/2	06301-20-24			20.00
6	3.00	10,000	3 1/2	1		06309-20-16		21.00
6	3.00	10,000	3 1/2	1 1/4		06309-20-20		21.00
6	3.00	17,000	3 1/4	3 1/8^			06308-21-50	22.00
6	3.00	17,000	3 1/2	1 1/4		06309-21-20		22.00
6	3.00	17,000	3 1/2	1 1/2		06309-21-24		22.00
8	2.50	4,000	3 1/4	1 15/16			08250-20-31	12.00
8	2.50	4,000	3 1/4	1	08251-20-16			12.00
8	2.50	4,000	3 1/4	1 1/4	08251-20-20			12.00
8	2.50	5,000	3 1/2	3/4		08259-20-12		12.00

CASTER CONCEPTS

FORGED STEEL WHEELS

20,000 maximum capacity LBS

WHEEL		CAPACITY	PART NUMBER					
								
Dia.	Width		Hub Length	Bore	Straight Roller	Precision Tapered	Less Bearing	Wt.
8	3.00	4,500	3 1/4	1 15/16			08300-20-31	18.50
8	3.00	4,500	3 1/4	1	08301-20-16			18.50
8	3.00	4,500	3 1/4	1 1/4	08301-20-20			18.50
8	3.00	5,500	3 1/2	3/4		08309-20-12		18.50
8	3.00	5,500	3 1/2	1		08309-20-16		18.50
8	4.00	8,400	4 1/4	2 7/16			08400-20-39	37.00
8	4.00	8,400	4 1/4	1 1/4	08401-20-20			37.00
8	4.00	8,400	4 1/4	1 1/2	08401-20-24			37.00
8	4.00	10,000	4 1/2	1		08409-20-16		37.00
8	4.00	10,000	4 1/2	1 1/4		08409-20-20		37.00
8	4.00	20,000	4 1/4	3 1/8^			08408-21-50^	37.00
8	4.00	20,000	4 1/2	1 1/4		08409-21-20		37.00
8	4.00	20,000	4 1/2	1 1/2		08409-21-24		37.00
10	3.00	5,000	3 1/4	1 15/16			10300-20-31	28.00
10	3.00	5,000	3 1/4	1	10301-20-16			28.00
10	3.00	5,000	3 1/4	1 1/4	10301-20-20			28.00
10	3.00	6,000	3 1/2	3/4		10309-20-12		28.00
10	3.00	6,000	3 1/2	1		10309-20-16		28.00
10	3.00	6,000	3 1/4	2 7/16			10300-21-39	28.00
10	3.00	6,000	3 1/4	1 1/4	10301-21-20			28.00
10	3.00	6,000	3 1/4	1 1/2	10301-21-24			28.00
10	3.00	6,500	3 1/2	1		10309-21-16		28.00
10	3.00	6,500	3 1/2	1 1/4		10309-21-20		28.00
10	4.00	8,400	4 1/4	2 7/16			10400-20-39	48.00
10	4.00	8,400	4 1/4	1 1/4	10401-20-20			48.00
10	4.00	8,400	4 1/4	1 1/2	10401-20-24			48.00
10	4.00	10,000	4 1/2	1		10409-20-16		48.00
10	4.00	10,000	4 1/2	1 1/4		10409-20-20		48.00
10	4.00	20,000	4 1/4	3 1/8^			10408-21-50^	48.00
10	4.00	20,000	4 1/2	1 1/4		10409-21-20		48.00
10	4.00	20,000	4 1/2	1 1/2		10409-21-24		48.00
12	4.00	7,500	4 1/4	2 7/16			12400-12-39*	53.00
12	4.00	7,500	4 1/4	1 1/4	12401-12-20*			53.00
12	4.00	7,500	4 1/4	1 1/2	12401-12-24*			53.00
12	4.00	7,500	4 1/2	1		12409-12-16*		53.00
12	4.00	7,500	4 1/2	1 1/4		12409-12-20*		53.00
12	5.00	10,000	5 1/4	1 1/4	12501-12-20*			98.00
12	5.00	10,000	5 1/4	1 1/2	12401-12-24*			98.00
12	5.00	10,000	5 1/2	1 1/4		12509-12-20*		98.00
12	5.00	10,000	5 1/2	1 1/2		12509-12-24*		98.00

^ Dimensions for tapered bearing bore.

** These wheels are cast ductile iron*

All dimensions are in inches. All weights are in pounds.

PARTS & ACCESSORIES

REPLACEMENT AXLES

PART	O.D.	LENGTH	
AX085403	1/2	3-3/8	HOLLOW C/W L. NUT
AX085401	1/2	3-3/8	SOLID C/W LOCK NUT
AX127603	3/4	4-3/4	HOLLOW C/W L. NUT
AX127601	3/4	4-3/4	SOLID C/W LOCK NUT
AX168001	1	5	SOLID C/W LOCK NUT
AX168003	1	5	HOLLOW C/W L. NUT
AX169601	1	6	SOLID C/W LOCK NUT
AX169603	1	6	HOLLOW C/W L. NUT
AX208801	1-1/4	5-1/2	SOLID C/W LOCK NUT
AX201041	1-1/4	6-1/2	SOLID C/W LOCK NUT

SPANNER BUSHINGS

PART	I.D.	O.D.	LENGTH	
SB081239	1/2	3/4	2-7/16	WITH OIL HOLE
SB081248	1/2	3/4	3	
SB081264	1/2	3/4	4	
SB121656	3/4	1	3-1/2	
SB121657	3/4	1	3-9/16	WITH OIL HOLE
SB121648	3/4	1	3	
SB162057	1	1-1/4	3-9/16	
SB162073	1	1-1/4	4-9/16	
SB162089	1	1-1/4	5-9/16	
SB202457	1-1/4	1-1/2	3-9/16	
SB202473	1-1/4	1-1/2	4-9/16	
SB202489	1-1/4	1-1/2	5-9/16	

TAPERED BEARINGS

PART	I.D.	O.D.
TB123102	3/4	1.94
TB122802	3/4	1.78
TB163202	1	1.78
TB163902	1	1.98
TB203702	1-1/4	2.327
TB203902	1-1/4	2.437
TB205002	1-1/4	3.125
TB245002	1-1/2	3.125

STRAIGHT BEARINGS

PART	I.D.	O.D.	LENGTH
RB121930	3/4	1-3/16	1-7/8
RB121940	3/4	1-3/16	2-1/2
RB163140	1	1-15/16	2-1/2
RB163148	1	1-15/16	3
RB203140	1-1/4	1-15/16	2-1/2
RB203148	1-1/4	1-15/16	3
RB203948	1-1/4	2-7/16	3
RB203964	1-1/4	2-7/16	4
RB203980	1-1/4	2-7/16	5
RB243948	1-1/2	2-7/16	3
RB243964	1-1/2	2-7/16	4
RB243980	1-1/2	2-7/16	5

OTHER

SEALED WASHERS
SEALED WHEELS
SPECIAL FINISHES

AXLES **AX 20 152 02 (C)***

DIAMETER IN 1/16”

LENGTH IN 1/16”
(IF NEEDED 3 PLACES)

TYPE
00 SOLID
01 SOLID w/ LOCK NUT
02 HOLLOW
03 HOLLOW w/ LOCK NUT
08 SOLID w/ SLOTTED NUT
09 HOLLOW w/ SLOTTED NUT

Axles Feature Standard FineThread
08=1/2 - 13
12=3/4 - 16
16= 1 - 14
20=1-1/4-12

Optional Coarse Thread is available if a “(C)” is noted
08=1/2 - 13
12=3/4 - 10
16= 1 - 8
20=1-1/4 -7

PARTS & ACCESSORIES

REPLACEMENT AXLES

PART	O.D.	LENGTH	
AX085403	1/2	3-3/8	HOLLOW C/W L. NUT
AX085401	1/2	3-3/8	SOLID C/W LOCK NUT
AX127603	3/4	4-3/4	HOLLOW C/W L. NUT
AX127601	3/4	4-3/4	SOLID C/W LOCK NUT
AX168001	1	5	SOLID C/W LOCK NUT
AX168003	1	5	HOLLOW C/W L. NUT
AX169601	1	6	SOLID C/W LOCK NUT
AX169603	1	6	HOLLOW C/W L. NUT
AX208801	1-1/4	5-1/2	SOLID C/W LOCK NUT
AX201041	1-1/4	6-1/2	SOLID C/W LOCK NUT

SPANNER BUSHINGS

PART	I.D.	O.D.	LENGTH	
SB081239	1/2	3/4	2-7/16	WITH OIL HOLE
SB081248	1/2	3/4	3	
SB081264	1/2	3/4	4	
SB121656	3/4	1	3-1/2	
SB121657	3/4	1	3-9/16	WITH OIL HOLE
SB121648	3/4	1	3	
SB162057	1	1-1/4	3-9/16	
SB162073	1	1-1/4	4-9/16	
SB162089	1	1-1/4	5-9/16	
SB202457	1-1/4	1-1/2	3-9/16	
SB202473	1-1/4	1-1/2	4-9/16	
SB202489	1-1/4	1-1/2	5-9/16	

TAPERED BEARINGS

PART	I.D.	O.D.
TB123102	3/4	1.94
TB122802	3/4	1.78
TB163202	1	1.78
TB163902	1	1.98
TB203702	1-1/4	2.327
TB203902	1-1/4	2.437
TB205002	1-1/4	3.125
TB245002	1-1/2	3.125

STRAIGHT BEARINGS

PART	I.D.	O.D.	LENGTH
RB121930	3/4	1-3/16	1-7/8
RB121940	3/4	1-3/16	2-1/2
RB163140	1	1-15/16	2-1/2
RB163148	1	1-15/16	3
RB203140	1-1/4	1-15/16	2-1/2
RB203148	1-1/4	1-15/16	3
RB203948	1-1/4	2-7/16	3
RB203964	1-1/4	2-7/16	4
RB203980	1-1/4	2-7/16	5
RB243948	1-1/2	2-7/16	3
RB243964	1-1/2	2-7/16	4
RB243980	1-1/2	2-7/16	5

OTHER

SEALED WASHERS
SEALED WHEELS
SPECIAL FINISHES

AXLES **AX 20 152 02 (C)***

DIAMETER IN 1/16”

LENGTH IN 1/16”
(IF NEEDED 3 PLACES)

TYPE
00 SOLID
01 SOLID w/ LOCK NUT
02 HOLLOW
03 HOLLOW w/ LOCK NUT
08 SOLID w/ SLOTTED NUT
09 HOLLOW w/ SLOTTED NUT

Axles Feature Standard FineThread
08=1/2 - 13
12=3/4 - 16
16= 1 - 14
20=1-1/4-12

Optional Coarse Thread is available if a “(C)” is noted
08=1/2 - 13
12=3/4 - 10
16= 1 - 8
20=1-1/4 -7

PARTS & ACCESSORIES

REPLACEMENT AXLES

PART	O.D.	LENGTH	
AX085403	1/2	3-3/8	HOLLOW C/W L. NUT
AX085401	1/2	3-3/8	SOLID C/W LOCK NUT
AX127603	3/4	4-3/4	HOLLOW C/W L. NUT
AX127601	3/4	4-3/4	SOLID C/W LOCK NUT
AX168001	1	5	SOLID C/W LOCK NUT
AX168003	1	5	HOLLOW C/W L. NUT
AX169601	1	6	SOLID C/W LOCK NUT
AX169603	1	6	HOLLOW C/W L. NUT
AX208801	1-1/4	5-1/2	SOLID C/W LOCK NUT
AX201041	1-1/4	6-1/2	SOLID C/W LOCK NUT

SPANNER BUSHINGS

PART	I.D.	O.D.	LENGTH	
SB081239	1/2	3/4	2-7/16	WITH OIL HOLE
SB081248	1/2	3/4	3	
SB081264	1/2	3/4	4	
SB121656	3/4	1	3-1/2	
SB121657	3/4	1	3-9/16	WITH OIL HOLE
SB121648	3/4	1	3	
SB162057	1	1-1/4	3-9/16	
SB162073	1	1-1/4	4-9/16	
SB162089	1	1-1/4	5-9/16	
SB202457	1-1/4	1-1/2	3-9/16	
SB202473	1-1/4	1-1/2	4-9/16	
SB202489	1-1/4	1-1/2	5-9/16	

TAPERED BEARINGS

PART	I.D.	O.D.
TB123102	3/4	1.94
TB122802	3/4	1.78
TB163202	1	1.78
TB163902	1	1.98
TB203702	1-1/4	2.327
TB203902	1-1/4	2.437
TB205002	1-1/4	3.125
TB245002	1-1/2	3.125

STRAIGHT BEARINGS

PART	I.D.	O.D.	LENGTH
RB121930	3/4	1-3/16	1-7/8
RB121940	3/4	1-3/16	2-1/2
RB163140	1	1-15/16	2-1/2
RB163148	1	1-15/16	3
RB203140	1-1/4	1-15/16	2-1/2
RB203148	1-1/4	1-15/16	3
RB203948	1-1/4	2-7/16	3
RB203964	1-1/4	2-7/16	4
RB203980	1-1/4	2-7/16	5
RB243948	1-1/2	2-7/16	3
RB243964	1-1/2	2-7/16	4
RB243980	1-1/2	2-7/16	5

OTHER

SEALED WASHERS
SEALED WHEELS
SPECIAL FINISHES

AXLES **AX 20 152 02 (C)***

DIAMETER IN 1/16”

LENGTH IN 1/16”
(IF NEEDED 3 PLACES)

TYPE
00 SOLID
01 SOLID w/ LOCK NUT
02 HOLLOW
03 HOLLOW w/ LOCK NUT
08 SOLID w/ SLOTTED NUT
09 HOLLOW w/ SLOTTED NUT

Axles Feature Standard FineThread
08=1/2 - 13
12=3/4 - 16
16= 1 - 14
20=1-1/4-12

Optional Coarse Thread is available if a “(C)” is noted
08=1/2 - 13
12=3/4 - 10
16= 1 - 8
20=1-1/4 -7

PARTS & ACCESSORIES

REPLACEMENT AXLES

PART	O.D.	LENGTH	
AX085403	1/2	3-3/8	HOLLOW C/W L. NUT
AX085401	1/2	3-3/8	SOLID C/W LOCK NUT
AX127603	3/4	4-3/4	HOLLOW C/W L. NUT
AX127601	3/4	4-3/4	SOLID C/W LOCK NUT
AX168001	1	5	SOLID C/W LOCK NUT
AX168003	1	5	HOLLOW C/W L. NUT
AX169601	1	6	SOLID C/W LOCK NUT
AX169603	1	6	HOLLOW C/W L. NUT
AX208801	1-1/4	5-1/2	SOLID C/W LOCK NUT
AX201041	1-1/4	6-1/2	SOLID C/W LOCK NUT

SPANNER BUSHINGS

PART	I.D.	O.D.	LENGTH	
SB081239	1/2	3/4	2-7/16	WITH OIL HOLE
SB081248	1/2	3/4	3	
SB081264	1/2	3/4	4	
SB121656	3/4	1	3-1/2	
SB121657	3/4	1	3-9/16	WITH OIL HOLE
SB121648	3/4	1	3	
SB162057	1	1-1/4	3-9/16	
SB162073	1	1-1/4	4-9/16	
SB162089	1	1-1/4	5-9/16	
SB202457	1-1/4	1-1/2	3-9/16	
SB202473	1-1/4	1-1/2	4-9/16	
SB202489	1-1/4	1-1/2	5-9/16	

TAPERED BEARINGS

PART	I.D.	O.D.
TB123102	3/4	1.94
TB122802	3/4	1.78
TB163202	1	1.78
TB163902	1	1.98
TB203702	1-1/4	2.327
TB203902	1-1/4	2.437
TB205002	1-1/4	3.125
TB245002	1-1/2	3.125

STRAIGHT BEARINGS

PART	I.D.	O.D.	LENGTH
RB121930	3/4	1-3/16	1-7/8
RB121940	3/4	1-3/16	2-1/2
RB163140	1	1-15/16	2-1/2
RB163148	1	1-15/16	3
RB203140	1-1/4	1-15/16	2-1/2
RB203148	1-1/4	1-15/16	3
RB203948	1-1/4	2-7/16	3
RB203964	1-1/4	2-7/16	4
RB203980	1-1/4	2-7/16	5
RB243948	1-1/2	2-7/16	3
RB243964	1-1/2	2-7/16	4
RB243980	1-1/2	2-7/16	5

OTHER

SEALED WASHERS

SEALED WHEELS

SPECIAL FINISHES

AXLES **AX 20 152 02 (C)***

DIAMETER IN 1/16”

LENGTH IN 1/16”
(IF NEEDED 3 PLACES)

TYPE
00 SOLID
01 SOLID w/ LOCK NUT
02 HOLLOW
03 HOLLOW w/ LOCK NUT
08 SOLID w/ SLOTTED NUT
09 HOLLOW w/ SLOTTED NUT

Axles Feature Standard FineThread
08=1/2 - 13
12=3/4 - 16
16= 1 - 14
20=1-1/4-12

Optional Coarse Thread is available if a “(C)” is noted
08=1/2 - 13
12=3/4 - 10
16= 1 - 8
20=1-1/4 -7

PARTS & ACCESSORIES

REPLACEMENT AXLES

PART	O.D.	LENGTH	
AX085403	1/2	3-3/8	HOLLOW C/W L. NUT
AX085401	1/2	3-3/8	SOLID C/W LOCK NUT
AX127603	3/4	4-3/4	HOLLOW C/W L. NUT
AX127601	3/4	4-3/4	SOLID C/W LOCK NUT
AX168001	1	5	SOLID C/W LOCK NUT
AX168003	1	5	HOLLOW C/W L. NUT
AX169601	1	6	SOLID C/W LOCK NUT
AX169603	1	6	HOLLOW C/W L. NUT
AX208801	1-1/4	5-1/2	SOLID C/W LOCK NUT
AX201041	1-1/4	6-1/2	SOLID C/W LOCK NUT

SPANNER BUSHINGS

PART	I.D.	O.D.	LENGTH	
SB081239	1/2	3/4	2-7/16	WITH OIL HOLE
SB081248	1/2	3/4	3	
SB081264	1/2	3/4	4	
SB121656	3/4	1	3-1/2	
SB121657	3/4	1	3-9/16	WITH OIL HOLE
SB121648	3/4	1	3	
SB162057	1	1-1/4	3-9/16	
SB162073	1	1-1/4	4-9/16	
SB162089	1	1-1/4	5-9/16	
SB202457	1-1/4	1-1/2	3-9/16	
SB202473	1-1/4	1-1/2	4-9/16	
SB202489	1-1/4	1-1/2	5-9/16	

TAPERED BEARINGS

PART	I.D.	O.D.
TB123102	3/4	1.94
TB122802	3/4	1.78
TB163202	1	1.78
TB163902	1	1.98
TB203702	1-1/4	2.327
TB203902	1-1/4	2.437
TB205002	1-1/4	3.125
TB245002	1-1/2	3.125

STRAIGHT BEARINGS

PART	I.D.	O.D.	LENGTH
RB121930	3/4	1-3/16	1-7/8
RB121940	3/4	1-3/16	2-1/2
RB163140	1	1-15/16	2-1/2
RB163148	1	1-15/16	3
RB203140	1-1/4	1-15/16	2-1/2
RB203148	1-1/4	1-15/16	3
RB203948	1-1/4	2-7/16	3
RB203964	1-1/4	2-7/16	4
RB203980	1-1/4	2-7/16	5
RB243948	1-1/2	2-7/16	3
RB243964	1-1/2	2-7/16	4
RB243980	1-1/2	2-7/16	5

OTHER

SEALED WASHERS

SEALED WHEELS

SPECIAL FINISHES

AXLES **AX 20 152 02 (C)***

DIAMETER IN 1/16”

LENGTH IN 1/16”
(IF NEEDED 3 PLACES)

TYPE
00 SOLID
01 SOLID w/ LOCK NUT
02 HOLLOW
03 HOLLOW w/ LOCK NUT
08 SOLID w/ SLOTTED NUT
09 HOLLOW w/ SLOTTED NUT

Axles Feature Standard FineThread
08=1/2 - 13
12=3/4 - 16
16= 1 - 14
20=1-1/4-12

Optional Coarse Thread is available if a “(C)” is noted
08=1/2 - 13
12=3/4 - 10
16= 1 - 8
20=1-1/4 -7

CASTER CONCEPTS

30 SERIES MEDIUM DUTY CASTERS 900 maximum capacity LBS

FEATURES

Swivel Section: Cold forged out of 1/4” steel, the swivel section includes high-strength double row ball bearings in smooth raceways.
Legs: 1/4” steel formed for strength
Kingpin: 5/8” diameter kingpin
Axle: 1/2” diameter
Lubrication: Pre-lubricated before shipping
Wheels: 4” to 8” diameter wheels are available with straight roller bearings or ball bearings for ease in rolling.
Finish: Zinc plated for corrosion resistance

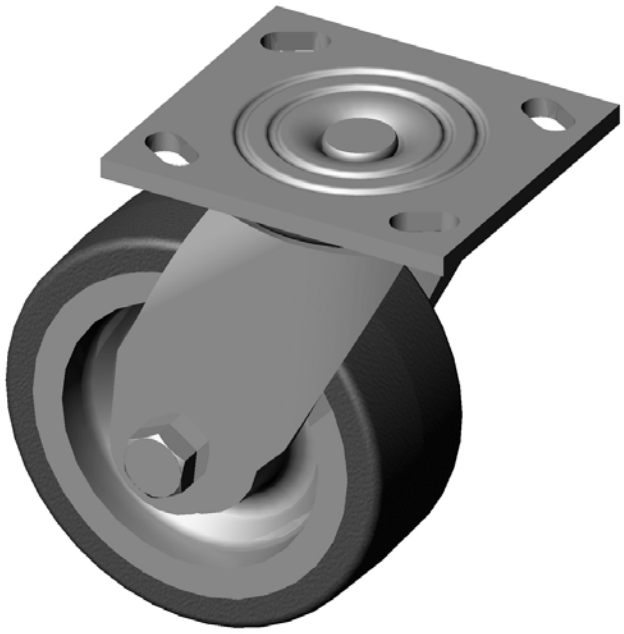
BENEFITS

The 30 Series is constructed of cold forged steel and is recommended for medium duty applications.

OPTIONS

Brakes	
Cam:	C*
Tread Lock:	T
Swivel Locks:	
Factory Installed:	L
Demountable:	DL
Sealed Wheels :	SW
Toe Guard:	TG

*For wheels with diameter >6



30-05201-60-1 shown

APPLICATIONS

Excellent for dollies, waste disposal trucks, warehouse trucks, proof or cooling racks, portable work benches, floor trucks, shop carts, drywall dollies, trailer frames, wire shelving units, tool boxes, laundry distribution carts, manual lifting devices, unitized dairy distribution carts and other medium duty applications.

Spindle rack for gear blanks. T/R compound soft polyurethane is floor protective and will not pick up machine shavings or debris.

CASTER CONCEPTS

30 SERIES MEDIUM DUTY CASTERS

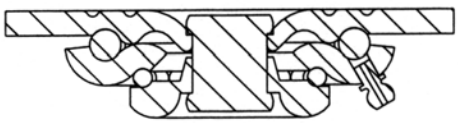
900 maximum capacity LBS

WHEEL			CAPACITY			PART NUMBER		
Dia.	Width	Material	Roller Bearing	OAH	Swivel Lead	Straight Roller	Precision Ball	Wt.
4	1.50	Forged Steel	900	5.63	1.38	30-04101-20-1		6.0
4	2.00	Import Cast Iron	900	5.63	1.38	30-04201-14-1	30-04204-14-1*	7.5
4	2.00	Phenolic Resin	700	5.63	1.38	30-04201-30-1		6.5
4	2.00	Polyurethane	750	5.63	1.38	30-04201-60-1		7.5
4	2.00	Soft Polyurethane	600	5.63	1.38	30-04201-66-1	30-04202-66-1	7.5
4	2.00	Solid Elastomer	650	5.63	1.38	30-04201-62-1	30-04202-62-1	7.5
4	2.00	Import Mold on Rubber	350	5.63	1.38	30-04201-74-1		7.5
4	2.00	Softech	250	5.63	1.38	30-04201-72-1	30-04204-72-1*	7.5
5	2.00	Import Cast Iron	900	6.50	1.69	30-05201-14-1		8.0
5	2.00	Forged Steel	900	6.50	1.69	30-05201-20-1		8.0
5	2.00	Phenolic Resin	900	6.50	1.69	30-05201-30-1		7.0
5	2.00	Polyurethane	900	6.50	1.69	30-05201-60-1		9.0
5	2.00	Soft Poly	800	6.50	1.69	30-05201-61-1	30-05202-61-1	8.0
5	2.00	Solid Elastomer	800	6.50	1.69	30-05201-62-1	30-05202-62-1	7.0
5	2.00	Import Mold on Rubber	400	6.50	1.69	30-05201-74-1		8.0
5	2.00	Softech	275	6.50	1.69	30-05201-72-1	30-05204-72-1*	8.0
6	2.00	Import Cast Iron	900	7.50	2.00	30-06201-14-1		10.0
6	2.00	Forged Steel	900	7.50	2.00	30-06201-20-1		10.0
6	2.00	Phenolic Resin	900	7.50	2.00	30-06201-30-1		8.0
6	2.00	Polyurethane	900	7.50	2.00	30-06201-60-1	30-06202-60-1	10.0
6	2.00	Soft Poly	900	7.50	2.00	30-06201-61-1	30-06202-61-1	9.0
6	2.00	Solid Elastomer	900	7.50	2.00	30-06201-62-1	30-06202-62-1	9.0
6	2.00	Import Mold on Rubber	425	7.50	2.00	30-06201-74-1		9.0
6	2.00	Softech	450	7.50	2.00	30-06201-72-1	30-06204-72-1*	9.0
8	2.00	Import Cast Iron	900	9.50	2.38	30-08201-14-1		10.0
8	2.00	Phenolic Resin	900	9.50	2.38	30-08201-30-1		9.0
8	2.00	Polyurethane	900	9.50	2.38	30-08201-60-1	30-08202-60-1	10.0
8	2.00	Soft Poly	900	9.50	2.38	30-08201-61-1	30-08202-61-1	9.0
8	2.00	Solid Elastomer	900	9.50	2.38	30-08201-62-1	30-08202-62-1	9.0
8	2.00	Import Mold on Rubber	500	9.50	2.38	30-08201-74-1		10.0
8	2.00	Softech	600	9.50	2.38	30-08201-72-1	30-08204-72-1*	10.0

Capacity listed is for manual operation. For powered operations, consult factory.
Part numbers listed are for the swivel caster. For rigid casters, change the last digit from 1 to 2 (i.e. 30-06201-30-2)
Estimated weight is for the swivel caster. Deduct 20% of swivel caster weight for rigid caster.
** These casters have annular ball bearings.*
All dimensions are in inches. All weights are in pounds.

Top Plate Size	Bolt Hole Spacing	Bolt Diameter
Standard: 4.0 x 4.5	2.625 x 3.625 Slotted to 3.0 x 3.0	0.375
OT 35: 5 x 5.5	4.12 x 4.50	0.375

30 Series Cross Sectional View

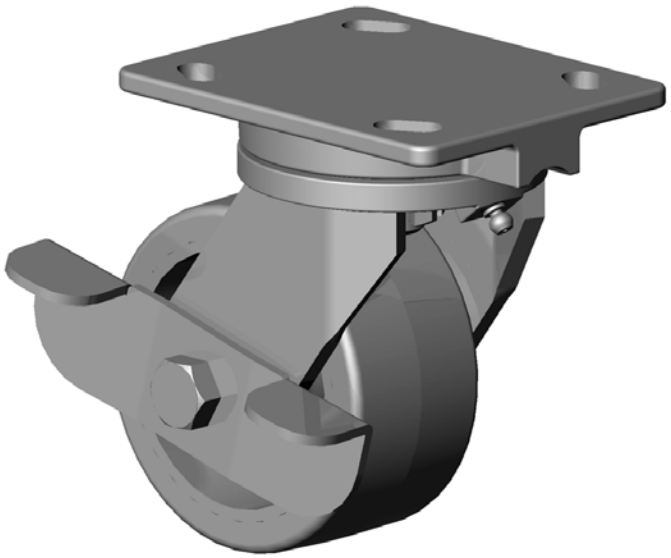


CASTER CONCEPTS

50 MEDIUM HEAVY DUTY SERIES CASTERS 1500 maximum capacity LBS

FEATURES

Swivel section: Constructed of hot forged SAE 1045 steel and built to the same dimensions as popular cold forged industrial casters. The 2-1/2" diameter load race is precision machined to a mirror smooth finish.
Kingpin: 3/4" diameter, integrally forged as part of the top plate, machined concentric to the load race.
Legs: 1/4"x 2" formed steel bar and welded inside and outside to the yoke base.
Axle: 1/2" diameter axle
Lubrication: Pre-lubricated before shipping
Wheels: 4" to 8" diameter wheels with straight roller bearings, ball bearings or tapered roller bearings.
Finish: Clear zinc plating



50-06201-62-1C shown with optional cam brake

BENEFITS

This heavy duty hot forged swivel caster is built for severe service. The hot forged, machined raceway with integral kingpin and steel bar formed and welded legs provides a stronger swivel with heavier section thickness. The long wearing characteristics of this caster will outperform cold forged or stamped casters in swivel applications.

APPLICATIONS

Production racks and fixtures, live skids, unitized dairy distribution carts, automated assembly lines.

OPTIONS

Brakes	
Cam:	C*
Poly Cam:	P*
Tread Lock:	T
Wrap Around:	W*
Dual Side:	DS
Swivel Locks	
Factory Installed:	L
Demountable:	DL
Passive:	PL
Sealed Swivel:	SSW
Sealed Wheels:	SW
Toe Guard:	TG
Heat Treated Raceways:	HT

*For wheels with diameter ≥ 6 inches

If You Don't See It…..Ask Us
In addition to the standard casters and wheels found in this catalog, Caster Concepts also provides:

- Lift truck stabilizer casters
- Turntable casters
- Press-on polyurethane wheels
- Aluminum core wheels

Other specialized solutions

CASTER CONCEPTS *Beyond Standard*

CASTER CONCEPTS

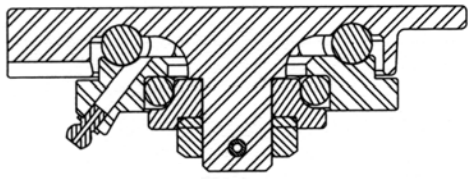
50 MEDIUM HEAVY DUTY SERIES CASTERS 1500 maximum capacity LBS

WHEEL			CAPACITY				PART NUMBER		
Dia.	Width	Material	Roller Bearing	Precision Ball	OAH	Swivel Lead	Roller Bearing	Precision Ball	Wt.
4	1.50	Forged Steel	1,400	1,400	5.63	1.50	50-04101-20-1	50-04109-20-1†	7.25
4	2.00	Phenolic Resin	800		5.63	1.50	50-04201-30-1		7.50
4	2.00	Cast Iron	1,000		5.63	1.50	50-04201-10-1		7.50
4	2.00	Polyurethane	700	700	5.63	1.50	50-04201-60-1	50-04204-60-1	7.50
4	2.00	Soft Polyurethane	600	600	5.63	1.50	50-04201-66-1	50-04202-66-1	7.50
4	2.00	Envirothane	650	650	5.63	1.50	50-04201-62-1	50-04202-62-1	7.50
4	2.00	Mold on Rubber	350		5.63	1.50	50-04201-70-1		8.20
4	2.00	Softech	250	250	5.63	1.50	50-04201-72-1	50-04204-72-1*	8.00
5	2.00	Forged Steel	1,500	1,500	6.50	1.75	50-05201-20-1	50-05209-20-1†	10.20
5	2.00	Cast Iron	1,200		6.50	1.75	50-05201-10-1		9.20
5	2.00	Phenolic Resin	1,000		6.50	1.75	50-05201-30-1		8.50
5	2.00	Polyurethane	1,050	1,050	6.50	1.75	50-05201-60-1	50-05202-60-1	10.00
5	2.00	T/R Compound	850	850	6.50	1.75	50-05201-61-1	50-05202-61-1	10.00
5	2.00	Envirothane	800	800	6.50	1.75	50-05201-62-1	50-05202-62-1	7.50
5	2.00	Mold on Rubber	400		6.50	1.75	50-05201-70-1		10.00
5	2.00	Softech	275	275	6.50	1.75	50-05201-72-1	50-05204-72-1*	10.00
6	2.00	Forged Steel	1,500	1,500	7.50	2.25	50-06201-20-1	50-06209-20-1†	13.50
6	2.00	Cast Iron	1,200		7.50	2.25	50-06201-10-1		13.00
6	2.00	Phenolic Resin	1,200		7.50	2.25	50-06201-30-1		9.50
6	2.00	Polyurethane	1,200	1,200	7.50	2.25	50-06201-60-1	50-06202-60-1	12.00
6	2.00	T/R Compound	1,000	1,000	7.50	2.25	50-06201-61-1	50-06202-61-1	12.00
6	2.00	Solid Elastomer	950	950	7.50	2.25	50-06201-62-1	50-06202-62-1	12.00
6	2.00	Mold on Rubber	425		7.50	2.25	50-06201-70-1		12.00
6	2.00	Softech	450	450	7.50	2.25	50-06201-72-1	50-06204-72-1*	12.00
8	2.00	Cast Iron	1,500		10.12	2.25	50-08201-10-1		16.50
8	2.00	Phenolic Resin	1,400		10.12	2.25	50-08201-30-1		12.00
8	2.00	Polyurethane	1,500	1,500	10.12	2.25	50-08201-60-1	50-08202-60-1	14.00
8	2.00	T/R Compound	1,200	1,200	10.12	2.25	50-08201-61-1	50-08202-61-1	14.00
8	2.00	Solid Elastomer	1,300	1,300	10.12	2.25	50-08201-62-1	50-08202-62-1	14.00
8	2.00	Mold on Rubber	500		10.12	2.25	50-08201-70-1		14.00
8	2.00	Softech	600	600	10.12	2.25	50-08201-72-1	50-08204-72-1*	14.00

Capacity listed is for manual operation. For powered operations, consult factory.
Part Numbers listed are for the swivel caster. For rigid casters, change the last digit from 1 to 2 (i.e. 50-06201-60-2)
Estimated weight is for swivel caster. Deduct 20 percent of swivel caster weight for rigid casters.
†This caster has tapered roller bearings.
** This caster has annular ball bearings.*
All dimensions are in inches. All weights are in pounds.

Top Plate Size	Bolt Hole Spacing	Bolt Diameter
4.0 x 5.0	2.625 x 3.625 Slotted to 3.0 x 3.0	0.375

50 Series Cross Sectional View



CASTER CONCEPTS

SHOCK ABSORBING CASTERS

20,000 maximum capacity LBS

FEATURES

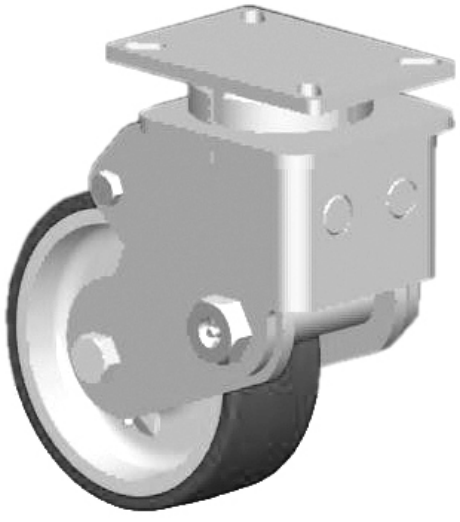
Our popular shock absorbing casters have swivel sections that are constructed of high alloy steel and are precision machined for close tolerences and long life. These casters feature legs of thick section plate steel. Integrally forged kingpins are available from 3/4" to 1-1/4" in diameter. In normal configurations, these swivel sections will carry 3 to 4 times their listed capacity.

BENEFITS

The high strength chrome vanadium springs provide longer life through constant flexing and compressing. The spring compression starts with as little as 25 pounds loading per caster resulting in cushioned loads and quiet empty returns. The long swivel lead reduces excessive shimmy and vibration while towing.

OPTIONS

Special non-catalog sizes and designs are available. Swivel locks and face contact brakes are available, consult factory.



73-08309-60-1 shown

APPLICATIONS

Shock absorbing casters are ideal for jet engine dollies, aircraft jacks, in-plant trailers, trash gondolas, lift truck stabilizer casters, revolving signs and parade floats.

WHEEL			CAPACITY		PART NUMBER				
Dia.	Width	Material	Roller Bearing	Tapered	OAH	Swivel Lead	Straight Roller	Precision Tapered	Series	Wt.
4	2.00	Polyurethane	500		7.31	1.75	53-04201-60-1		50	13.0
4	2.00	Mold on Rubber	400		7.31	1.75	53-04201-71-1		50	13.0
4	2.00	Phenolic Resin	500		7.31	1.75	53-04201-30-1		50	12.0
5	2.00	Polyurethane	500		7.81	1.75	53-05201-60-1		50	13.0
5	2.00	Mold on Rubber	400		7.81	1.75	53-05201-71-1		50	13.0
5	2.00	Phenolic Resin	500		7.81	1.75	53-05201-30-1		50	12.0
6	2.00	Polyurethane	500		9.25	2.25	53-06201-60-1		50	15.0
6	2.00	Mold on Rubber	425		9.25	2.25	53-06201-71-1		50	15.0
6	2.00	Phenolic Resin	500		9.25	2.25	53-06201-30-1		50	13.0
8	2.00	Polyurethane	500		11.63	3.25	53-08201-60-1		50	16.0
8	2.00	Mold on Rubber	500		11.63	3.25	53-08201-71-1		50	16.0
8	2.00	Phenolic Resin	500		11.63	3.25	53-08201-30-1		50	13.0
5	2.00	Polyurethane	400		7.50	2.75	63-05201-60-1		60	13.0
5	2.00	Mold on Rubber	400		7.50	2.75	63-05201-71-1		60	13.0
5	2.00	Phenolic Resin	400		7.50	2.75	63-05201-30-1		60	11.0
6	2.00	Polyurethane	500		8.50	2.38	63-06201-60-1		60	15.0
6	2.00	Mold on Rubber	500		8.50	2.38	63-06201-71-1		60	15.0
6	2.00	Phenolic Resin	500		8.50	2.38	63-06201-30-1		60	13.0
8	2.00	Polyurethane	500		10.50	3.50	63-08201-60-1		60	16.0
8	2.00	Mold on Rubber	410		10.50	3.50	63-08201-71-1		60	16.0
8	2.00	Phenolic Resin	500		10.50	3.50	63-08201-30-1		60	13.0

CASTER CONCEPTS

SHOCK ABSORBING CASTERS

20,000 maximum capacity LBS

WHEEL			CAPACITY		PART NUMBER					
Dia.	Width	Material	Roller	Tapered	OAH	Swivel Lead	Straight Roller	Precision Tapered	Series	Wt.
6	2.50	Polyurethane	800	800	9.50	3.63	67-06255-60-1	67-06257-60-1	65	27.0
6	2.50	Mold on Rubber	670	670	9.50	3.63	67-06255-70-1	67-06257-70-1	65	26.0
6	2.50	Phenolic Resin	800	800	9.50	3.63	67-06255-30-1	67-06257-30-1	65	18.0
8	2.50	Polyurethane	800	800	11.50	4.00	67-08255-60-1	67-08257-60-1	65	25.0
8	2.50	Mold on Rubber	670	670	11.50	4.00	67-08255-70-1	67-08257-70-1	65	25.0
8	2.50	Phenolic Resin	800	800	11.50	4.00	67-08255-30-1	67-08257-30-1	65	20.0
10	2.50	Polyurethane	800	800	14.00	5.50	67-10255-60-1	67-10257-60-1	65	32.0
10	2.50	Mold-on rubber	800	800	14.00	5.50	67-10255-70-1	67-10257-70-1	65	27.0
10	2.50	Phenolic Resin	800	800	14.00	5.50	67-10255-30-1	67-10257-30-1	65	22.0
6	3.00	Polyurethane	1,100	1,100	10.00	4.00	73-06301-60-1	73-06309-60-1	70	35.0
6	3.00	Mold on Rubber	700	700	10.00	4.00	73-06301-70-1	73-06309-70-1	70	34.0
6	3.00	Phenolic Resin	1,100	1,100	10.00	4.00	73-06301-30-1	73-06309-30-1	70	28.0
8	3.00	Polyurethane	1,100	1,100	12.00	4.00	73-08301-60-1	73-08309-60-1	70	38.0
8	3.00	Mold on Rubber	850	850	12.00	4.00	73-08301-70-1	73-08309-70-1	70	38.0
8	3.00	T/R Compound Soft Poly	1,100	1,100	12.00	4.00	73-08301-66-1	73-08309-66-1	70	32.0
10	3.00	Polyurethane	1,100	1,100	13.50	5.50	73-10301-60-1	73-10309-60-1	70	45.0
10	3.00	Mold on Rubber	1,100	1,100	13.50	5.50	73-10301-70-1	73-10309-70-1	70	42.0
10	3.00	T/R Compound Soft Poly	1,100	1,100	13.50	5.50	73-10301-66-1	73-10309-66-1	70	38.0
8	3.00	Polyurethane	1,700	1,700	12.00	4.00	83-08301-60-1	83-08309-60-1	80	58.0
8	3.00	Mold on Rubber	825	825	12.00	4.00	83-08301-70-1	83-08309-70-1	80	58.0
8	3.00	T/R Compound Soft Poly	1,700	1,700	12.00	4.00	83-08301-66-1	83-08309-66-1	80	48.0
10	3.00	Polyurethane	1,700	1,700	14.50	4.50	83-10301-60-1	83-10309-60-1	80	65.0
10	3.00	Mold on Rubber	1,000	1,000	14.50	4.50	83-10301-70-1	83-10309-70-1	80	55.0
10	3.00	T/R Compound Soft Poly	1,700	1,700	14.50	4.50	83-10301-66-1	83-10309-66-1	80	50.0
12	3.00	Polyurethane	1,500	1,500	17.00	5.50	83-12301-60-1	83-12309-60-1	80	65.0
12	3.00	Mold on Rubber	1,150	1,150	17.00	5.50	83-12301-70-1	83-12309-70-1	80	62.0
12	3.00	Phenolic Resin	1,500	1,500	17.00	5.50	83-12301-30-1	83-12309-30-1	80	64.0
10	4.00	Polyurethane	4,000	4,000	16.25	3.50		93-10409-60-1	91	100.0
10	4.00	Forged Steel	4,000	4,000	16.25	3.50		93-10409-20-1	91	110.0
10	5.00	Polyurethane	4,000	4,000	16.25	3.50		93-10509-65-1	91	110.0
SUPER DUTY SHOCK ABSORBING DUAL WHEEL CASTERS										
10	5.00	Polyurethane		8,000	16.25	3.50		2-93-10509-65-1	91	250.0
18	5.00	Polyurethane		20,000	25.50	4.50		103-18509-65-1	91	400.0

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. 83-12309-30-2)
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.

	Top Plate Size	Bolt Hole Spacing	Bolt Diameter
STD 53	4.0 x 5.0	2.625 x 3.625 Slotted to 3.0 x 3.0	0.375
STD 63/67	4.5 x 6.25	2.438 x 4.938 Slotted to 3.375 x 5.25	0.5
STD 73	5.0 x 7.25	3.375 x 5.25 Slotted to 4.125 x 6.125	0.5
STD 83	6.0 x 7.5	4.5 x 6.0	0.5
STD 93	8.5 x 8.5	7.0 x 7.0	0.625