



# D3 / R3 Dual Wheel Kingpinless Series - Up to 20,000 lbs.

**Durable Superior Casters®**



### Applications:

Ideal for: Towlines and shock load applications, production line dollies & trucks used in various industries including but not limited to: boat & ship molding and assembly, automotive, aerospace, metal fabricating, heavy machinery, military equipment, mobile homes, tractor pulled trailers, extreme duty platform trucks & material handling carts, aircargo & ground support equipment, storage tanks, gantries & heavy duty processing equipment, coliseum & gymnasium equipment, shipping / receiving carts, warehousing & freight terminal dollies and carts, and countless other applications.

Dual wheel casters offer higher weight capacities with minimal overall heights, better load distribution, floor protection and increased mobility than single wheel casters by spreading the weight over a wider floor area while offering wheel differential action, resulting in less friction between the wheels and the floor, requiring less effort for the caster to swivel. Our D3 Series casters are made out of ASTM1045 steel, drop forged 1/2" thick top plate integrates with a forged 4-1/2" diameter precisely machined raceway with a single row of hardened 5/8" ball bearings. The legs are formed from 3/8" steel, double welded to the outer raceway for maximum strength. Our unique offset raceway design, heat treatment and tempering processes allows our casters to carry the maximum weight of the bearings used, without horizontal wear, kingpin failure or fracturing of welds; these advantages enable our kingpinless casters to handle side thrust force better than our competitors designs.

- Dual wheel design offers higher weight capacities & load distribution than single wheel casters.
- Hot forged Kingpinless raceways; 1 piece integrally forged top plate and inner raceway design.
- 3/8" thick legs are robotically welded on both sides.
- 3/4" CNC machined grade 8 axle bolt & locknut.
- Zinc plated finish is attractive & corrosion resistant.
- Comes with Zerk grease fittings for maintenance.
- D3 is a Standard stock series = Quick Deliveries.



### Options



Face Contact Brake (F)



T Handle Brake  
1 Side =(R) 2 Sides =(W)



4-Position Lock Bolt-on. Order Separately  
Part# 4PSL63

### Top Plate Specifications

Plate Code	Overall Size	Bolt Hole Pattern	Mounting Bolt Size
30	6-1/4 x 7-1/4	4-1/2 x 6 slotted to 4-1/8 x 6-1/8	1/2 or 9/16

Mold-on Rubber	Supreme Rubber™	Polyon™		EnergySaver Polyon™	UltraPoly®	ErgoLastomer™	Phenolic	HT Phenolic High Temp	Semi-Steel	Ductile	Energy Saver Ductile™ (Crowned)	Forged Steel
		G	V									

### CHOOSING THE RIGHT WHEEL BEARINGS FOR YOUR APPLICATION

#### ROLLER BEARING



Standard bearing for general duty applications; cost effective, best bearing for abusive and shock load applications. Not recommended for applications where side thrust is present or on casters used in constant circular turns. Requires periodical lubrication.

#### TAPERED ROLLER BEARING



Heaviest duty type of roller bearings with the added advantage of tapered design. Inner & outer raceways are precision machined and heat treated. Wheels come with 1 cup, cone, seal & thrust bushing on each side. This is the best bearing for extreme duty loads & towing applications. Maximizes the weight capacity and mobility of the wheel. Requires periodical lubrication.

#### SEALED PRECISION BEARINGS (63)



Ergonomic solution: Sealed precision bearings offer low rolling resistance and require the least amount of force to start and maintain a rolling load; excellent for both manual mobility & tow line applications. Maintenance Free! Two top hat spanner bushings are added to secure precise spacing & stability. Not recommended for side thrust or shock load applications.

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Wheel Diameter	Tread Width	Wheel Type	Swivel caster part numbers shown below; to order Rigid casters change part# prefix D3 to R3					+Color	Overall Height	Swivel Radius
			Roller Bearings 24, 27	Weight Capacity	Tapered Bearings 70,79	Weight Capacity	Sealed Precision BB's 65			
6	3 x 2	Mold-On Rubber	D3RS60LB2430YY	1500					8-27/32	5-13/16
		Supreme Rubber™	D3RH60LS2430YY	1700	D3RH60LS7030YY	1700				
		Phenolic	D3PH60LB2430YY	4000						
		Polyon™	D3PU60L+2430YY	4000				G,V		
		EnergySaver Polyon™	D3SW60LU2430YY	4400	D3SW60LU7030YY	4400				
		UltraPoly®	D3EX60LG2430YY	6000	D3EX60LG7030YY	6000	D3EX60LG6530YY	6000		
		ErgoLastomer™					D3HU60JI6530YY	5800		
		Semi-Steel	D3SS60LS2430YY	5000						
		Ductile	D3DS60LR2430YY	12000	D3DS60LR7030YY	20000	D3DS60LR6530YY	12000		
		EnergySaver Ductile™	D3CD60LR2430YY	12000	D3CD60LR7030YY	20000	D3CD60LR6530YY	12000		
Forged Steel	D3FS60LS2730YY	16000	D3FS60LS7930YY	20000						
8	3 x 2	Mold-On Rubber	D3RS80LB2430YY	1800				10-7/8	7-1/2	
		Supreme Rubber™	D3RH80LS2430YY	2000	D3RH80LS7030YY	2000				
		Phenolic	D3PH80LB2430YY	5000						
		High-Temp Phenolic	D3HT80LQ2430YY	3000						
		Polyon™	D3PU80L+2430YY	5000						G,V
		EnergySaver Polyon™	D3SW80LU2430YY	5400	D3SW80LU7030YY	5400				
		UltraPoly®	D3EX80LG2430YY	7000	D3EX80LG7030YY	7000	D3EX80LG6530YY			7000
		ErgoLastomer™					D3HU60LR6530YY			6000
		Semi-Steel	D3SS80LS2430YY	5000						
		Ductile	D3DS80LR2430YY	12000	D3DS80LR7030YY	20000	D3DS80LR6530YY			12000
EnergySaver Ductile™	D3CD80LR2430YY	12000	D3CD80LR7030YY	20000						
Forged Steel	D3FS80LS2730YY	16000	D3FS80LS7930YY	20000						
10	3 x 2	Mold-On Rubber	D3RS10LB2430YY	2200				12-13/16	9	
		Supreme Rubber™	D3RH10LS2430YY	2600	D3RH10LS7030YY	2600				
		Phenolic	D3PH10LB2430YY	5800						
		High-Temp Phenolic	D3HT10LQ2430YY	4800						
		Polyon™	D3PU10L+2430YY	6000						G,V
		EnergySaver Polyon™	D3SW10LU2430YY	6000	D3SW10LU7030YY	6000				
		UltraPoly®	D3EX10LG2430YY	8000	D3EX10LG7030YY	8000	D3EX10LG6530YY			8000
		ErgoLastomer™					D3HU10LR6530YY			6400
		Semi-Steel	D3SS10LS2430YY	5000						
		Ductile	D3DS10LR2430YY	12000	D3DS10LR7030YY	20000	D3DS10LR6530YY			12000
EnergySaver Ductile™	D3CD10LR2430YY	12000	D3CD10LR7030YY	20000						
Forged Steel	D3FS10LS2730YY	16000	D3FS10LS7930YY	20000						
12	3 x 2	Mold-On Rubber	D3RS12LB2430YY	2600				15-1/2	11	
		Supreme Rubber™	D3RH12LS2430YY	2800	D3RH12LS7030YY	2800				
		Phenolic	D3PH12LB2430YY	7000						
		Polyon™	D3PU12L+2430YY	7000						G,V
		High-Temp Phenolic	D3HT12LQ2430YY	5200						
		EnergySaver Polyon™	D3SW12LU2430YY	7000	D3SW12LU7030YY	7000				
		UltraPoly®	D3EX12LG2430YY	10000	D3EX12LG7030YY	10000	D3EX12LG6530YY			10000
		Semi-Steel	D3SS12LS2430YY	5000						
		Ductile	D3DS12LR2430YY	12000	D3DS12LR7030YY	20000	D3DS12LR6530YY			16000
		EnergySaver Ductile™	D3CD12LR2430YY	12000	D3CD12LR7030YY	20000				
Forged Steel	D3FS12LS2730YY	16000	D3FS12LS7930YY	20000						