

Swivel YEAR & Rigid WARRANTY







- Constructed of highly polished, corrosion resistant stainless steel (304 Grade)
- Top plate and legs formed from 1/4" thick stainless steel for durability
- Legs precision welded to yoke for strength
- Double stainless steel ball bearing raceways (with zerk) formed smooth for ease of swiveling
- ¾" 304 Stainless steel permanent rivet kingpin for long swivel life
- Food grade -40°F to 600°F performance grease (FDA approved)
- ½" diameter 304 stainless steel zerk axle standard; solid axle available by special order
- NSF listed

The D4 Defender Series is the ideal 2" wide caster solution for customers requiring lasting performance and corrosion resistance. Manufactured from Type 304 stainless steel, this series provides critical defense to applications exposed to washdowns, cleaning agents, steam, caustic solutions, and other environmental conditions that eventually cause oxidation and failure in standard casters.



Brake Selection



Top Lock

Applies positive engagement to tread surface of wheel when activated for a secure lock; available on all swivel models (Specify BRK7; Example: D4.06109.839 EN BRK7 SS WB29).



Total Lock

Locks wheel and swivel simultaneously. Total Lock rig rated to 300°F continuous (Specify BRK4; Example: D4.06109.459 BRK4 SS WB29).



Side Lock

Large brake pedal places positive locking force against wheel hub when activated; available on all swivel casters with roller bearing (Specify **BRK3**; Example: D4.06109.929 **BRK3** SS WB29).

Brake Swivel Radius

DIA.	BRK4	BRK7	BRK3
4"	5 ¹⁵ /16"	4 ¹⁵ /16"	4 ¹⁵ /16"
5"	63/8"	51/8"	51/8"
6"	63/4"	53/8"	53/8"
8"	6 ¹⁵ /16"	61/2"	61/2"

Standard Dimensions -35/8"-3"25/8 3" 25/8 41/2"-Wheel Fork Leg Spacing 21/2" Swivel Cross Section Mounting Bolt 3/8"

Thicker 3/4" kingpin lasts

Defender 3/4" kingpin

in internal durability

testing compared to

constructions

HIGH HEAT WHEEL

standard 5/8" kingpin

*CONTINUOUS Temperature range

rigs last up to 2x longer

up to 2x longer!

Fork / Wheel Options

To order caster forks only use 1st 7 digits of model numbers and add SS (Example: D4.04109 SS).



Hand Operated Bolt-on Swivel Lock

Available for all swivel models (field installable); order part SWVLOCKX2SS separately. For welded version, please consult factory.



Foot Activated Swivel Lock Available for all swivel models (field installable); order part **05213.67** separately.



DirtBan Swivel Seals (Upper and Lower Raceways) Not compatible with Total

Lock brake and swivel locks. Temperature rating: 140°F (Specify SEAL; Example: D4.06109.929 SS SEAL).

Fork Temperature Range

Standard swivel rigs rated up to 600°F; see specified wheel and bearing ratings to determine maximum caster temperature rating.

Wheel Selection

Nylon Models: Temperature/moisture versatility, strong, floor protective HD

Maxim Nylon Glass Filled Nylon White

Nylon Glass Filled

Commander HD

Thermo Hi-Temp

Hi-Temp Nylon Glass Filled



Polyurethane Models: Versatile & floor protective, softer than nylon/metal for quieter ride

Polyurethane Hi-Tech

Performa

quiet, debris rejecting

Eagle Polyurethane

Rubber Models: Floor protective, shock absorbing

Performa Flat

Conductive

Endura Solid Elastomer

Performa

Round

K Solid



Performa

Conductive

Round

Phenolic Models: Economical & strong, not recommended for moisture Phenolic

Phenolic



Polyolefin Models: Most Economical, light weight, and water resistant



Polyolefin



Retort Hi-Temp

Thermo up to +480°F Hi-Temp Hi-Temp Nylon Glass Filled up to +480°F Phenolic up to +475°F Hi-Temp Retort up to +290°F Hi-Temp

*Temperature range dependent on bearing choice, see next page for bearing temperature specifications.

Colson D4 Series Casters • Defender Stainless Steel Top Plate Swivel & Rigid • Capacity to 1250 lbs

Wheel Dia.	Tread Width	Capacity Each (Pounds)	Wheel Descriptions	Swivel Top Plate SS Roller Bearing Models	Rigid Top Plate SS Roller Bearing Models	Optional Bearings (order information in below chart)	Load Height		Weight (Pounds) Rigid Deduct 1.5 lbs)
		300		D4.04109.459 COND SS WB29	D4.04108.459 COND SS WB29	PPBB Delvin Droppe DDDD	5-5/8"	3-3/8"	5-1/4
		400		D4.04109.459 SS WB29 D4.04109.559 SS WB29	D4.04108.459 SS WB29 D4.04108.559 SS WB29	Delrin, Bronze, PPBB Delrin, Bronze, PPBB	5-5/8" 5-5/8"	3-3/8" 3-3/8"	5-1/4 5-1/4
				D4.04109.839 RW SS WB29	D4.04108.839 RW SS WB29	Delrin, Bronze, PPBB	5-5/8"	3-3/8"	5
		500		D4.04109.839 SS WB29	D4.04108.839 SS WB29	Delrin, Bronze, PPBB	5-5/8"	3-3/8"	3-3/4
		600		D4.04109.929 EG SS WB29	D4.04108.929 EG SS WB29	Delrin, Bronze, PPBB	5-5/8"	3-3/8"	5
				D4.04109.929 SS WB29	D4.04108.929 SS WB29	Delrin, Bronze, PPBB	5-5/8"	3-3/8"	5
4"	2"	700		D4.04109.935 KW SS D4.04109.339 HT SS WB29	D4.04108.935 KW SS D4.04108.339 HT SS WB29	Delrin, Bronze Delrin, Bronze, PPBB	5-5/8" 5-5/8"	3-3/8" 3-3/8"	4-1/4 5
7				D4.04109.339 SS WB29	D4.04108.339 SS WB29	Delrin, Bronze, PPBB	5-5/8"	3-3/8"	5
		800	Maxim Nylon Glass Filled	D4.04109.539 SS WB29	D4.04108.539 SS WB29	Delrin, Bronze, PPBB	5-5/8"	3-3/8"	5
				D4.04109.839 HTBLK SS WB29	D4.04108.839 HTBLK SS WB29	Delrin, Bronze, PPBB	5-5/8"	3-3/8"	5
		900		D4.04109.839 HT SS WB29 D4.04109.539 WN SS WB29	D4.04108.839 HT SS WB29 D4.04108.539 WN SS WB29	Delrin, Bronze, PPBB Delrin, Bronze, PPBB	5-5/8" 5-5/8"	3-3/8" 3-3/8"	5 5
				D4.04109.839 DT SS WB29	D4.04108.839 DT SS WB29	Delrin, Bronze, PPBB	5-5/8"	3-3/8"	5
		1000	Endura Solid Elastomer	D4.04109.839 EN SS WB29	D4.04108.839 EN SS WB29	Delrin, Bronze, PPBB	5-5/8"	3-3/8"	5-3/4
		1250		D4.04109.5PN SS	D4.04108.5PN SS	SS Prec. Ball Standard	5-5/8"	3-3/8"	7
		325		D4.05109.459 COND SS WB29	D4.05108.459 COND SS WB29	PPBB Dolrin Propzo DDPP	6-1/2"	4-1/8"	5-1/2
		425 500		D4.05109.559 SS WB29 D4.05109.459 SS WB29	D4.05108.559 SS WB29 D4.05108.459 SS WB29	Delrin, Bronze, PPBB Delrin, Bronze, PPBB	6-1/2" 6-1/2"	4-1/8" 4-1/8"	5-1/2 5-1/2
				D4.05109.839 RW SS WB29	D4.05108.839 RW SS WB29	Delrin, Bronze, PPBB	6-1/2"	4-1/8"	5-1/4
		650	Polyolefin	D4.05109.839 SS WB29	D4.05108.839 SS WB29	Delrin, Bronze, PPBB	6-1/2"	4-1/8"	4-1/2
		750		D4.05109.929 SS WB29	D4.05108.929 SS WB29	Delrin, Bronze, PPBB	6-1/2"	4-1/8"	5-1/4
		900		D4.05109.929 EG SS WB29 D4.05109.339 HT SS WB29	D4.05108.929 EG SS WB29 D4.05108.339 HT SS WB29	Delrin, Bronze, PPBB Delrin, Bronze, PPBB	6-1/2" 6-1/2"	4-1/8" 4-1/8"	5-1/4 5-1/4
5"	2"			D4.05109.339 SS WB29	D4.05108.339 SS WB29	Delrin, Bronze, PPBB	6-1/2"	4-1/8"	5-1/4
·	_			D4.05109.539 SS WB29	D4.05108.539 SS WB29	Delrin, Bronze, PPBB	6-1/2"	4-1/8"	5-1/4
		1000		D4.05109.539 WN SS WB29	D4.05108.539 WN SS WB29	Delrin, Bronze, PPBB	6-1/2"	4-1/8"	5-1/4
		1000		D4.05109.839 EN SS WB29	D4.05108.839 EN SS WB29 D4.05108.839 HTBLK SS WB29	Delrin, Bronze, PPBB	6-1/2"	4-1/8"	5-7/8
				D4.05109.839 HTBLK SS WB29 D4.05109.935 KW SS	D4.05108.935 KW SS	Delrin, Bronze, PPBB Delrin, Bronze	6-1/2" 6-1/2"	4-1/8" 4-1/8"	5-1/4 5
				D4.05109.839 HT SS WB29	D4.05108.839 HT SS WB29	Delrin, Bronze, PPBB	6-1/2"	4-1/8"	5-1/4
				D4.05109.839 DT SS WB29	D4.05108.839 DT SS WB29	Delrin, Bronze, PPBB	6-1/2"	4-1/8"	5-1/4
		1250		D4.05109.5PN SS	D4.05108.5PN SS	SS Prec. Ball Standard		4-1/8"	8 5-3/4
		410		D4.06109.459 COND SS WB29 D4.06109.559 COND SS WB29	D4.06108.459 COND SS WB29 D4.06108.559 COND SS WB29	PPBB PPBB	7-1/2" 7-1/2"	4-7/8" 4-7/8"	5-3/4 5-3/4
		450	Performa (Round)	D4.06109.559 SS WB29	D4.06108.559 SS WB29	Delrin, Bronze, PPBB	7-1/2"	4-7/8"	5-3/4
		600	Performa (Flat)	D4.06109.459 SS WB29	D4.06108.459 SS WB29	Delrin, Bronze, PPBB	7-1/2"	4-7/8"	5-3/4
		700		D4.06109.839 RW SS WB29	D4.06108.839 RW SS WB29	Delrin, Bronze, PPBB	7-1/2"	4-7/8"	5-1/2
		900		D4.06109.839 SS WB29 D4.06109.929 SS WB29	D4.06108.839 SS WB29 D4.06108.929 SS WB29	Delrin, Bronze, PPBB Delrin, Bronze, PPBB	7-1/2" 7-1/2"	4-7/8" 4-7/8"	4-3/4 5-3/4
		900		D4.06109.839 EN SS WB29	D4.06108.839 EN SS WB29	Delrin, Bronze, PPBB	7-1/2"	4-7/8"	6
6"	2"	1100	Thermo Hi-Temp	D4.06109.839 HT SS WB29	D4.06108.839 HT SS WB29	Delrin, Bronze, PPBB	7-1/2"	4-7/8"	5-3/4
O				D4.06109.929 EG SS WB29	D4.06108.929 EG SS WB29	Delrin, Bronze, PPBB	7-1/2"	4-7/8"	5-3/4
				D4.06109.339 HT SS WB29 D4.06109.339 SS WB29	D4.06108.339 HT SS WB29 D4.06108.339 SS WB29	Delrin, Bronze, PPBB Delrin, Bronze, PPBB	7-1/2" 7-1/2"	4-7/8" 4-7/8"	6-1/4 6-1/4
				D4.06109.539 SS WB29	D4.06108.539 SS WB29	Delrin, Bronze, PPBB	7-1/2"	4-7/8"	5-3/4
				D4.06109.539 WN SS WB29	D4.06108.539 WN SS WB29	Delrin, Bronze, PPBB	7-1/2"	4-7/8"	6-1/4
				D4.06109.839 HTBLK SS WB29	D4.06108.839 HTBLK SS WB29	Delrin, Bronze, PPBB	7-1/2"	4-7/8"	5-3/4
		1250		D4.06109.839 DT SS WB29 D4.06109.935 KW SS	D4.06108.839 DT SS WB29 D4.06108.935 KW SS		7-1/2" 7-1/2"	4-7/8" 4-7/8"	6-1/4 5-1/2
				D4.06109.5PN SS	D4.06108.5PN SS	SS Prec. Ball Standard			9-3/4
		500	Performa Conductive (Flat)	D4.08109.459 COND SS WB29	D4.08108.459 COND SS WB29	PPBB	9-1/2"	6-3/8"	6
		600	Performa Conductive (Round)	D4.08109.559 COND SS WB29	D4.08108.559 COND SS WB29	PPBB	9-1/2"		6
				D4.08109.559 SS WB29 D4.08109.459 SS WB29	D4.08108.559 SS WB29 D4.08108.459 SS WB29	Delrin, Bronze, PPBB Delrin, Bronze, PPBB	9-1/2" 9-1/2"	6-3/8" 6-3/8"	<u>6</u> 6
				D4.08109.839 RW SS WB29	D4.08108.839 RW SS WB29		9-1/2"	6-3/8"	6-1/4
		900	Polyolefin	D4.08109.839 SS WB29	D4.08108.839 SS WB29	Delrin, Bronze, PPBB	9-1/2"		6-1/4
		1000		D4.08109.929 SS WB29	D4.08108.929 SS WB29	Delrin, Bronze, PPBB	9-1/2"	6-3/8"	7
		1200		D4.08109.539 WN SS WB29 D4.08109.839 EN SS WB29	D4.08108.539 WN SS WB29 D4.08108.839 EN SS WB29	Delrin, Bronze, PPBB Delrin, Bronze, PPBB	9-1/2"		8 6-3/4
8"	2"			D4.08109.839 HT SS WB29	D4.08108.839 HT SS WB29	Delrin, Bronze, PPBB	9-1/2"	6-3/8"	7
			Eagle Polyurethane	D4.08109.929 EG SS WB29	D4.08108.929 EG SS WB29	Delrin, Bronze, PPBB	9-1/2"	6-3/8"	7
		F		D4.08109.339 HT SS WB29	D4.08108.339 HT SS WB29	Delrin, Bronze, PPBB	9-1/2"	6-3/8"	8
				D4.08109.339 SS WB29	D4.08108.339 SS WB29	Delrin, Bronze, PPBB Delrin, Bronze, PPBB			<u>8</u> 7
		1250		D4.08109.539 SS WB29 D4.08109.839 DT SS WB29	D4.08108.539 SS WB29 D4.08108.839 DT SS WB29		9-1/2" 9-1/2"	6-3/8" 6-3/8"	8
		Hi- K S			D4.08108.839 HTBLK SS WB29				7
			K Solid Polyurethane*	D4.08109.935 KW SS	D4.08108.935 KW SS	Delrin, Bronze	9-1/2"	6-3/8"	6-1/2
			t t	D4.08109.5PN SS	D4.08108.5PN SS	SS Prec. Ball Standard		6-3/8"	10

*K Solid Polyurethane wheels standard with Pedestal Precision Ball Bearing (PPBB); Commander HD wheels standard with large Precision Ball Bearings.

Bearing Options

Wheels feature stainless steel roller bearings in above chart, unless otherwise noted. To order optional bearings, see information to right.



Stainless Steel **Roller Bearing**

Temperature Rating: 350°F The standard bearing option in all above models with WB29 specification.

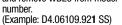
High Temp wheel selections are automatically upgraded to stainless steel thrust and retaining washers.



Delrin® Bearing

Temperature Rating: 160°F (increases to 350°F continuous for high-temp wheel selections)

To order, change 10th digit to "1" and remove WB29 from model number.





Stainless Steel **Pedestal Precision** Ball Bearing (PPBB)

Temperature Rating: 250°F (increases to 480°F continuous for high-temp wheel selections) To order change 10th digit to "5" and remove WB29 from model number.

(Example: D4.06109.925 SS).



Bronze Bearing

Temperature Rating: 525°F To order, change the 10th digit in model number to "4" and remove WB29 from model number.

(Example: D4.06109.534 SS).



Defender D4 Stainless Steel Series Components

Swivel and Rigid Rigs





Wheel Dia.		*Load Capacity (lbs)		Swivel Caster Part #	Rigid Caster Part #
4"	2"	1250	5-5/8"	D4.04109SS	D4.04108SS
5"	2"	1250	6-1/2"	D4.05109SS	D4.05108SS
6"	2"	1250	7-1/2"	D4.06109SS	D4.06108SS
8"	2"	1250	9-1/2"	D4.08199SS	D4.08198SS

Total Lock Rigs



	Tread Width	*Load Capacity (lbs)	Mount Height	Part #
4"	2"	1250	5-5/8"	D4.04149SS BRK4
5"	2"	1250	6-1/2"	D4.05149SS BRK4
6"	2"	1250	7-1/2"	D4.06149SS BRK4
8"	2"	1250	9-1/2"	D4.08149SS BRK4

Brake Kits

All brake kits include axle, nut and necessary hardware to install on swivel or rigid rigs.

Top Lock (BRK7)



Model #	Description		
DEFTBK4X2SS			
DEFTBK5X2SS	5" models		
DEFTBK6X2SS			
DEFTBK8X2SS	8" models		

Side Lock (BRK3) Only works with roller bearing models. Fits all caster sizes.



Model #	Description		
DEFCAMXX2SS	Comes with custom		
	spanner bushing (roller		
	bearing required)		

Swivel Locks

Choice of hand operated or foot operated swivel locks.

Hand Operated Swivel Locks



SWVLOCKX2SS For welded version, please consult factory.





05213.67

Hardware (All hardware parts sold per piece, not sets) Axles, nuts and bushings



Stainless Steel Axle (Zerk) 1/2-13x3.75

AXLEZRKEX2SS



Stainless Steel Solid Axle 1/2-13x3.75

AXLESLDEX2SS



Stainless Steel Nut 1/2-13



Stainless Steel Spanner Bushing 1/2 X 3/4 X 2-7/16

AXLENUTEX2SS

SPANNEREX2SS

Washers



Stainless Steel **Retaining Washer**



RETAINEREX2SS

THRUSTEX2SS

Bearings



Stainless Steel **Roller Bearing** Temperature Rating: 350°F

34 I.D. (Use With Bushing For ½ I.D.)

BRGCROLLEX2SS



Bronze Bearing Temperature Rating: 525°F **BRGBRZEX2**



Stainless Steel **Pedestal Precision Ball Bearing**

Temperature Rating: 250°F

BRGPBALLEX2SS



High Temperature Stainless Steel Pedestal Precision Ball Bearing

Temperature Rating: 480°F continuous **BRGPBALLEX2SSHT**



Flanged Delrin® **Bearing** Temperature Rating:

160°F 34 I.D. (Use With Spanner For ½ I.D.)

BRGDELRNEX2



Flanged High **Temperature Nylon Bearing**

Temperature Rating: 350°F

34 I.D. (Use With Spanner For 1/2 I.D.)

BRGNYLONEX2HT

Raceway Seals



Upper and lower seals available on swivel caster models. Seals are not available for total lock or swivel lock models. Temperature rating: 140°F.





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