

# colson®

The Most Trusted Casters IN THE WORLD



INTRODUCING COLSON

# HYDROTECH™



- The innovative new TPE alloy HYDROTECH™ wheels are formulated and designed to withstand continuous exposure to moisture, significantly increasing life expectancy compared to TPU
- Fusion bonded to prevent tread separation and reduce noise related to mechanical interlock failures
- Same load capacity and rollability as TPU
- Excellent abrasion resistant 40D (±5) durometer
- USA-made wheel is built to last and backed with confidence (industry leading 3-year warranty)
- Since 1885, Colson's quality lines of casters and wheels have defined the caster industry



Download 3D CAD Models  
and Data Sheets ([colsoncaster.com](http://colsoncaster.com))

## 4 Series

Capacity up to **1000 lbs each**

TOP PLATE Swivel & Rigid



### Features

- Made in the USA
- Zinc plated finish fork and plate
- Quality construction with hardened thick forks, kingpin and top plate
- NSF listed; RoHS compliant
- HydroTech is designed for wet outdoor climates including food processing and marine applications

### Brake Options



### Other Options

- Optional Top Plates
- DirtBan Swivel Seal
- Thread Guards
- Hand Activated Swivel Lock Specify **MTG61**
- Foot Activated Swivel Lock Specify **MTG81**

Wheel Dia.	Tread Width	Capacity Each (Pounds)	Wheel Description	Wheel Bearing <sup>1</sup>	Swivel Caster Models	Rigid Caster Models	Load Height	Swivel Radius <sup>2</sup>	Weight (Pounds)
4"	2"	600	HydroTech (Flat)	Roller	4.04109.HF9	4.04108.HF9	5 5/8"	3 3/16"	4 3/4
5"	2"	750	HydroTech (Flat)	Roller	4.05109.HF9	4.05108.HF9	6 1/2"	4 1/4"	4 3/4
6"	2"	900	HydroTech (Flat)	Roller	4.06109.HF9	4.06108.HF9	7 1/2"	5"	5
8"	2"	1000	HydroTech (Flat)	Roller	4.08199.HF9	4.08198.HF9	9 1/2"	6 1/2"	5 3/4

<sup>1</sup> Recommended optional bearings: Delrin (HF1) & Pedestal Precision Ball Bearing (HF5)  
<sup>2</sup> Consult sales representative for swivel radius for brake models

## D4 Series

Capacity up to **1000 lbs each**

DEFENDER STAINLESS STEEL Swivel & Rigid

Swivel & Rigid



### Features

- Constructed of highly polished, corrosion resistant stainless steel (304 Grade)
- Top plate and legs formed from 1/4" thick stainless steel for durability
- NSF listed; RoHS compliant
- HydroTech is designed for wet outdoor climates including food processing and marine applications

### Brake Options



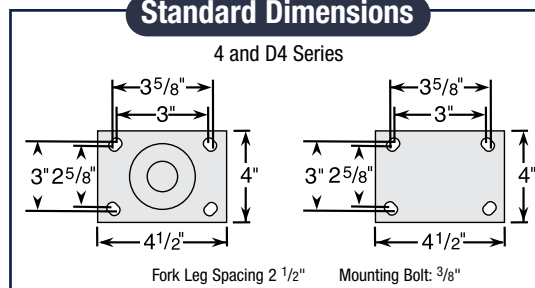
### Other Options

- DirtBan Swivel Seal
- Thread Guards
- Hand Activated Swivel Lock Specify **05213.67**
- Foot Activated Swivel Lock Specify **SWVLOCKX2SS**

Wheel Dia.	Tread Width	Capacity Each (Pounds)	Wheel Description	Wheel Bearing <sup>1</sup>	Swivel Caster Models	Rigid Caster Models	Load Height	Swivel Radius <sup>2</sup>	Weight (Pounds)
4"	2"	600	HydroTech (Flat)	Roller	D4.04109.HF9	D4.04108.HF9	5 5/8"	3 3/16"	4 3/4
5"	2"	750	HydroTech (Flat)	Roller	D4.05109.HF9	D4.05108.HF9	6 1/2"	4 1/4"	4 3/4
6"	2"	900	HydroTech (Flat)	Roller	D4.06109.HF9	D4.06108.HF9	7 1/2"	5"	5
8"	2"	1000	HydroTech (Flat)	Roller	D4.08109.HF9	D4.08108.HF9	9 1/2"	6 1/2"	5 3/4

<sup>1</sup> Recommended optional bearings: Delrin (HF1) & Pedestal Precision Ball Bearing (HF5)  
<sup>2</sup> Consult sales representative for swivel radius for brake models

### Standard Dimensions



## Replacement Wheels



### HydroTech Flat Tread

Temp range: -45°F to +180°F  
intermittent service; (120°F  
continuous service).

Durometer: 40 ±(5) Shore D

### Standard Bearings

Wheel Dia.	Tread Width	Capacity Each (Lbs)	Bearing	Wheel Model	Wheel			Spanner Bushing	
					Bearing Bore	Bore Less Bearing	Hub Length	Bore	Length
4"	2"	600	Plain Bore	WH4X2TPE19	—	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	—	—
		600	Delrin	504000HF1	3/4"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	1/2"	2 <sup>7</sup> / <sub>16</sub> "
		600	Pedestal Precision Ball	504000HF5	1/2"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>7</sup> / <sub>16</sub> "	—	—
		600	Roller	504000HF9	3/4"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	1/2"	2 <sup>7</sup> / <sub>16</sub> "
5"	2"	750	Plain Bore	WH5X2TPE19	—	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	—	—
		750	Delrin	505000HF1	3/4"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	1/2"	2 <sup>7</sup> / <sub>16</sub> "
		750	Pedestal Precision Ball	505000HF5	1/2"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>7</sup> / <sub>16</sub> "	—	—
6"	2"	900	Roller	505000HF9	3/4"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	1/2"	2 <sup>7</sup> / <sub>16</sub> "
		900	Plain Bore	WH6X2TPE19	—	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	—	—
		900	Delrin	506000HF1	3/4"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	1/2"	2 <sup>7</sup> / <sub>16</sub> "
6"	2"	900	Pedestal Precision Ball	506000HF5	1/2"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>7</sup> / <sub>16</sub> "	—	—
		900	Roller	506000HF9	3/4"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	1/2"	2 <sup>7</sup> / <sub>16</sub> "
		1000	Plain Bore	WH8X2TPE19	—	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	—	—
8"	2"	1000	Delrin	508000HF1	3/4"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	1/2"	2 <sup>7</sup> / <sub>16</sub> "
		1000	Pedestal Precision Ball	508000HF5	1/2"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>7</sup> / <sub>16</sub> "	—	—
		1000	Roller	508000HF9	3/4"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	1/2"	2 <sup>7</sup> / <sub>16</sub> "
		1000	Roller	508000HF9	3/4"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	1/2"	2 <sup>7</sup> / <sub>16</sub> "

### Stainless Steel Bearings (Including components)

Wheel Dia.	Tread Width	Capacity Each (Lbs)	Bearing	Wheel Model	Wheel			Spanner Bushing	
					Bearing Bore	Bore Less Bearing	Hub Length	Bore	Length
4"	2"	600	Plain Bore	WH4X2TPE19	—	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	—	—
		600	Delrin	504040HF1	3/4"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	1/2"	2 <sup>7</sup> / <sub>16</sub> "
		600	Pedestal Precision Ball	504040HF5	1/2"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>7</sup> / <sub>16</sub> "	—	—
		600	Roller	504040HF9	3/4"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	1/2"	2 <sup>7</sup> / <sub>16</sub> "
5"	2"	750	Plain Bore	WH5X2TPE19	—	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	—	—
		750	Delrin	505040HF1	3/4"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	1/2"	2 <sup>7</sup> / <sub>16</sub> "
		750	Pedestal Precision Ball	505040HF5	1/2"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>7</sup> / <sub>16</sub> "	—	—
		750	Roller	505040HF9	3/4"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	1/2"	2 <sup>7</sup> / <sub>16</sub> "
6"	2"	900	Plain Bore	WH6X2TPE19	—	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	—	—
		900	Delrin	506040HF1	3/4"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	1/2"	2 <sup>7</sup> / <sub>16</sub> "
		900	Pedestal Precision Ball	506040HF5	1/2"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>7</sup> / <sub>16</sub> "	—	—
		900	Roller	506040HF9	3/4"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	1/2"	2 <sup>7</sup> / <sub>16</sub> "
8"	2"	1000	Plain Bore	WH8X2TPE19	—	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	—	—
		1000	Delrin	508040HF1	3/4"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	1/2"	2 <sup>7</sup> / <sub>16</sub> "
		1000	Pedestal Precision Ball	508040HF5	1/2"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>7</sup> / <sub>16</sub> "	—	—
		1000	Roller	508040HF9	3/4"	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	1/2"	2 <sup>7</sup> / <sub>16</sub> "

## HydroTech Chemical Chart

Organics & Solvents		Gases		Acids		Alkalies		Salts		Miscellaneous salts:	
Acetone	G	Methylene chloride	X	Acetic, 10-50%	G	Sulfuric, 78%	F	Acid salts	G-F	Potassium dichromate	G
Alcohol, butyl	G	Methyl ethyl ketone	F	Acetic, 75%	G	Tannic	G	Alkaline salts	G	Potassium permanganate	G
Alcohol, ethyl	G	Oakite (floor cleaner)	E	Acetic, glacial	G	Tartaric	F	Neutral salts	G	Salt water	G
Alcohol, methyl	G	Orangeve	X	Boric	G	Ammonium hydroxide	F			Sodium cyanide	G
Aniline	G	Naptha	F	Butyric	G	Calcium hydroxide	G			Sodium ferricyanide	G
Benzene	X	Nitrobenzene	X	Chromic	G	Potassium hydroxide	G			Sodium hypochlorite	G
Bravo (wax stripper diluted)	E	Phenol	X	Citric	F	Sodium hydroxide	G				
Carbon disulfide	X	Toluene	X	Fluoboric	G						
Carbon tetrachloride	X	Trichloroethylene	X	Hydrobromic, 25%	G						
Chlorobenzene	X	Varsol	X	Hydrochloric, 10%	G						
Chloroform	X	Vestalene (detergent diluted)	E	Hydrofluoric	G						
Colson 45 lubricant	G	Urine	E	Lactic	F						
Enclean SS-2 (parts cleaner)	X	<b>Gases</b>		Nitric, 5%	G						
Ethyl acetate	F	Carbon dioxide	G	Nitric, 65%	X						
Ethylene chloride	G	Carbon monoxide	G	Oleic	G						
Ethylene dichloride	F	Chlorine, wet	F	Oleum	X						
Ethyl ether	G	Chlorine, dry	F	Oxalic	G						
Formaldehyde, 37%	G	Hydrogen sulfide	G	Phosphoric, 25%	G						
Gasoline	X	Sulfur dioxide, wet	F	Phosphoric, 85%	G						
Heptane	X	Sulfur dioxide, dry	F	Sulfuric, 10%	G						

E=Excellent G=Good F=Fair X=Unacceptable

This chart lists an extensive range of chemicals, solvents and gases. Examine the listings in this chart to determine if your application is considered compatible with HydroTech wheels. Ratings are at 72°F. Concentrations of aqueous solutions are saturated except where noted. Information in this chart is based on laboratory tests and results may vary in actual caster applications. Field testing is recommended to confirm compatibility with your particular application. For information on the compatibility of other fluids and chemicals, please contact the factory.