

colson®

The Most Trusted Casters IN THE WORLD

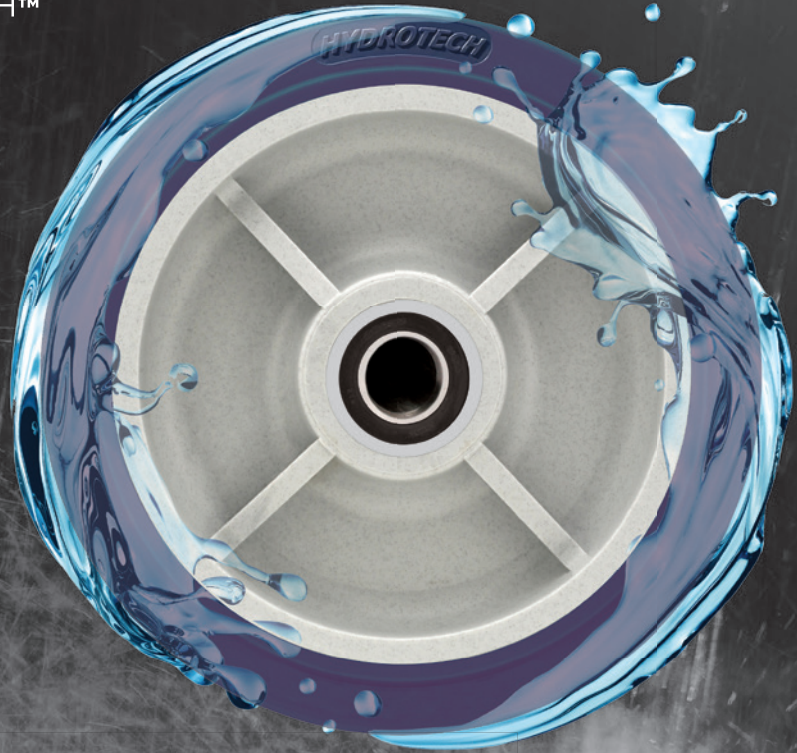
HYDROTECH™

ENGINEERED TO WEATHER THE ELEMENTS



The innovative 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 by an industry leading 3-year warranty
- Since 1885, Colson's quality lines of casters and wheels have defined the caster industry
- **The TPE Wheel is fully recyclable as TPO or PP after the bearing has been removed**



REQUEST SAMPLES OR QUOTES
WWW.COLSONCASTER.COM/CG-MAX

4 Series

TOP PLATE Swivel & Rigid
Capacity up to 1000 lbs each



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 ¹	Swivel Caster Models	Rigid Caster Models	Load Height	Swivel Radius ²	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

¹ Recommended optional bearings: Delrin (HF1) & Pedestal Precision Ball Bearing (HF5)

² Consult sales representative for swivel radius for brake models

D4 Series

DEFENDER STAINLESS STEEL Swivel & Rigid
Capacity up to 1000 lbs each



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

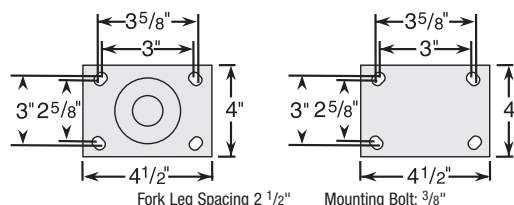
Wheel Dia.	Tread Width	Capacity Each (Pounds)	Wheel Description	Wheel Bearing ¹	Swivel Caster Models	Rigid Caster Models	Load Height	Swivel Radius ²	Weight (Pounds)
4"	2"	600	HydroTech (Flat)	Roller	D4.04109.HF9	D4.04108.HF9	5 5/8"	3 3/16"	4 3/4
5"	2"	750	HydroTech (Flat)	Roller	D4.05109.HF9	D4.05108.HF9	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

¹ Recommended optional bearings: Delrin (HF1) & Pedestal Precision Ball Bearing (HF5)

² Consult sales representative for swivel radius for brake models

Standard Dimensions

4 and D4 Series



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 ³ / ₁₆ "	2 ³ / ₁₆ "	—	—
		600	Delrin	504000HF1	3/4"	1 ³ / ₁₆ "	2 ³ / ₁₆ "	1/2"	2 ⁷ / ₁₆ "
		600	Pedestal Precision Ball	504000HF5	1/2"	1 ³ / ₁₆ "	2 ⁷ / ₁₆ "	—	—
		600	Roller	504000HF9	3/4"	1 ³ / ₁₆ "	2 ³ / ₁₆ "	1/2"	2 ⁷ / ₁₆ "
5"	2"	750	Plain Bore	WH5X2TPE19	—	1 ³ / ₁₆ "	2 ³ / ₁₆ "	—	—
		750	Delrin	505000HF1	3/4"	1 ³ / ₁₆ "	2 ³ / ₁₆ "	1/2"	2 ⁷ / ₁₆ "
		750	Pedestal Precision Ball	505000HF5	1/2"	1 ³ / ₁₆ "	2 ⁷ / ₁₆ "	—	—
		750	Roller	505000HF9	3/4"	1 ³ / ₁₆ "	2 ³ / ₁₆ "	1/2"	2 ⁷ / ₁₆ "
6"	2"	900	Plain Bore	WH6X2TPE19	—	1 ³ / ₁₆ "	2 ³ / ₁₆ "	—	—
		900	Delrin	506000HF1	3/4"	1 ³ / ₁₆ "	2 ³ / ₁₆ "	1/2"	2 ⁷ / ₁₆ "
		900	Pedestal Precision Ball	506000HF5	1/2"	1 ³ / ₁₆ "	2 ⁷ / ₁₆ "	—	—
		900	Roller	506000HF9	3/4"	1 ³ / ₁₆ "	2 ³ / ₁₆ "	1/2"	2 ⁷ / ₁₆ "
8"	2"	1000	Plain Bore	WH8X2TPE19	—	1 ³ / ₁₆ "	2 ³ / ₁₆ "	—	—
		1000	Delrin	508000HF1	3/4"	1 ³ / ₁₆ "	2 ³ / ₁₆ "	1/2"	2 ⁷ / ₁₆ "
		1000	Pedestal Precision Ball	508000HF5	1/2"	1 ³ / ₁₆ "	2 ⁷ / ₁₆ "	—	—
		1000	Roller	508000HF9	3/4"	1 ³ / ₁₆ "	2 ³ / ₁₆ "	1/2"	2 ⁷ / ₁₆ "

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 ³ / ₁₆ "	2 ³ / ₁₆ "	—	—
		600	Delrin	504040HF1	3/4"	1 ³ / ₁₆ "	2 ³ / ₁₆ "	1/2"	2 ⁷ / ₁₆ "
		600	Pedestal Precision Ball	504040HF5	1/2"	1 ³ / ₁₆ "	2 ⁷ / ₁₆ "	—	—
		600	Roller	504040HF9	3/4"	1 ³ / ₁₆ "	2 ³ / ₁₆ "	1/2"	2 ⁷ / ₁₆ "
5"	2"	750	Plain Bore	WH5X2TPE19	—	1 ³ / ₁₆ "	2 ³ / ₁₆ "	—	—
		750	Delrin	505040HF1	3/4"	1 ³ / ₁₆ "	2 ³ / ₁₆ "	1/2"	2 ⁷ / ₁₆ "
		750	Pedestal Precision Ball	505040HF5	1/2"	1 ³ / ₁₆ "	2 ⁷ / ₁₆ "	—	—
		750	Roller	505040HF9	3/4"	1 ³ / ₁₆ "	2 ³ / ₁₆ "	1/2"	2 ⁷ / ₁₆ "
6"	2"	900	Plain Bore	WH6X2TPE19	—	1 ³ / ₁₆ "	2 ³ / ₁₆ "	—	—
		900	Delrin	506040HF1	3/4"	1 ³ / ₁₆ "	2 ³ / ₁₆ "	1/2"	2 ⁷ / ₁₆ "
		900	Pedestal Precision Ball	506040HF5	1/2"	1 ³ / ₁₆ "	2 ⁷ / ₁₆ "	—	—
		900	Roller	506040HF9	3/4"	1 ³ / ₁₆ "	2 ³ / ₁₆ "	1/2"	2 ⁷ / ₁₆ "
8"	2"	1000	Plain Bore	WH8X2TPE19	—	1 ³ / ₁₆ "	2 ³ / ₁₆ "	—	—
		1000	Delrin	508040HF1	3/4"	1 ³ / ₁₆ "	2 ³ / ₁₆ "	1/2"	2 ⁷ / ₁₆ "
		1000	Pedestal Precision Ball	508040HF5	1/2"	1 ³ / ₁₆ "	2 ⁷ / ₁₆ "	—	—
		1000	Roller	508040HF9	3/4"	1 ³ / ₁₆ "	2 ³ / ₁₆ "	1/2"	2 ⁷ / ₁₆ "

HydroTech Chemical Chart

Organics & Solvents

Acetone	G
Alcohol, butyl	G
Alcohol, ethyl	G
Alcohol, methyl	G
Aniline	G
Benzene	X
Bravo (wax stripper diluted)	E
Carbon disulfide	X
Carbon tetrachloride	X
Chlorobenzene	X
Chloroform	X
Colson 45 lubricant	G
Enclean SS-2 (parts cleaner)	X
Ethyl acetate	F
Ethylene chloride	G
Ethylene dichloride	F
Ethyl ether	G
Formaldehyde, 37%	G
Gasoline	X
Heptane	X

Methylene chloride	X
Methyl ethyl ketone	F
Oakite (floor cleaner)	E
Orangeve	X
Naptha	F
Nitrobenzene	X
Phenol	X
Toluene	X
Trichloroethylene	X
Varsol	X
Vestalene (detergent diluted)	E
Urine	E
Gases	
Carbon dioxide	G
Carbon monoxide	G
Chlorine, wet	F
Chlorine, dry	F
Hydrogen sulfide	G
Sulfur dioxide, wet	F
Sulfur dioxide, dry	F

Acids

Acetic, 10-50%	G
Acetic, 75%	G
Acetic, glacial	G
Boric	G
Butyric	G
Chromic	F
Citric	G
Fluoboric	G
Hydrobromic, 25%	G
Hydrochloric, 10%	G
Hydrofluoric	F
Lactic	F
Nitric, 5%	G
Nitric, 65%	X
Oleic	G
Oleum	X
Oxalic	G
Phosphoric, 25%	G
Phosphoric, 85%	G
Sulfuric, 10%	G

Sulfuric, 78%	F
Tannic	G
Alkalies	
Tartaric	F
Ammonium hydroxide	G
Calcium hydroxide	G
Potassium hydroxide	G
Sodium hydroxide	G
Salts	
Acid salts	G-F
Alkaline salts	G
Neutral salts	G
Miscellaneous salts:	
Potassium dichromate	G
Potassium permanganate	G
Salt water	G
Sodium cyanide	G
Sodium ferricyanide	G
Sodium hypochlorite	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.



INTRODUCING HYDROTECH: THE NEW INNOVATIVE TPE ALLOY

Colson Group USA is excited to introduce their latest innovation: the HydroTech wheel. These water-resistant wheels are essential for industries where water, moisture, and humidity are present. The HydroTech wheel is formulated to withstand continuous exposure to moisture, significantly increasing its life expectancy compared to TPU wheels.

One of the standout features of the HydroTech wheel is its ability to withstand moisture. Many wheels crack, fall apart, or become unusable with continuous exposure to water, but HydroTech's TPE alloy ensures the wheel maintains its strength and durability, even in wet or humid environments.

Hydrolysis is a chemical reaction that occurs when water molecules break down the chemical bonds in a material. The TPE alloy used in the HydroTech wheel is specifically formulated to resist hydrolysis due to its unique formulation and fusion-bonded construction. This makes it a great choice for a variety of applications, including box stores, medical facilities, and industrial settings.

The HydroTech wheel has the same load capacity and rollability as TPU, making it an ideal choice for applications that require high-performance wheels. It also features a design that prevents tread separation and reduces noise related to mechanical interlock

failures, ensuring durability and reliability in tough conditions. With an excellent abrasion-resistant 40D (± 5) durometer, the HydroTech wheel can handle heavy loads and provide smooth, efficient movement.

Businesses that choose HydroTech wheels can be confident that they are investing in a reliable and durable product that is designed to last. The HydroTech wheel comes with an industry-leading 3-year warranty, making it a top choice for industries that require high-performance wheels that can withstand tough conditions, including moisture and hydrolysis. Contact Colson Group today to learn more about HydroTech wheels and how they can benefit your business.



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