



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

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- 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)





1	Fea	tures		Bra	ke Option	Other Options				
	• Zir • Qu	Iality const	USA nish fork and plate ruction with ck forks, kingpin and	1	Tech Lock Specify BRK2	a la	<i>Side Lock</i> Specify BRK3	• Dirtl	onal Top F Ban Swive ead Guards	l Seal
	tor • NS • Hy	o plate 6F listed; R droTech is	oHS compliant designed for wet	Ŕ	Total Lock Specify BRK4			Hand Activated Swivel Lock Specify MTG61		
	foo		ates including ing and marine		E E	Tread Lock Brake pecify BRK1			Swive	ctivated Lock y MTG81
I	Tread Width	Capacity Each (Pounds)	Wheel Description	Wheel Bearing [†]	Swivel Caster Models	Rigid Caster Models	Load Height	Swivel Radius ²	Weight (Pounds)	
	2"	600	HydroTech (Flat)	Roller	4.04109.HF9	4.04108.HF9	5 ⁵ /8"	3 ³ /16"	4 ³ /4	
	2"	750	HydroTech (Flat)	Roller	4.05109.HF9	4.05108.HF9	6 ¹ /2"	4 ¹ /4"	4 ³ /4	
	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"

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



Features

Wheel Dia. **4''**

5" 6"

- 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



Other Options

6^{1/2"}

5^{3/4}

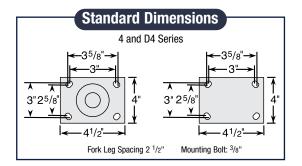
- DirtBan Swivel Seal
- Thread Guards



Foot Activated Swivel Lock Specify SWVLOCKX2SS

Wheel Dia.	Tread Width	Capacity Each (Pounds)	Wheel Description	Wheel Bearing [†]	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



HydroTech[®]

Replacement Wheels



HydroTech Flat Tread

Temp range: $-45^{\circ}F$ to $+180^{\circ}F$ intermittent service; (120°F continuous service). Durometer: 40 ±(5) Shore D

						Wheel			Spanner Bushing		
Wheel Dia.	Tread Width	Capacity Each (Lbs)	Bearing	Wheel Model	Bearing Bore	Bore Less Bearing	Hub Length	Bore	Length		
		600	Plain Bore	WH4X2TPE19	-	1 ³ /16"	2 ³ /16"	-	-		
4"	2"	600	Delrin	504000HF1	3/4"	1 ³ /16"	2 ³ /16"	1/2"	27/16"		
	2	600	Pedestal Precision Ball	504000HF5	1/2"	1 ³ /16"	27/16"	_	_		
		600	Roller	504000HF9	3/4"	1 ³ /16"	2 ³ /16"	1/2"	27/16"		
		750	Plain Bore	WH5X2TPE19	-	1 ³ /16"	2 ³ /16"	_	-		
		750	Delrin	505000HF1	3/4"	1 ³ /16"	2 ³ /16"	1/2"	27/16"		
5"	2"	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"	27/16"		
		900	Plain Bore	WH6X2TPE19	-	1 ³ /16"	2 ³ /16"	-	-		
CII	2"	900	Delrin	506000HF1	3/4"	1 ³ /16"	23/16"	1/2"	27/16"		
0	2	900	Pedestal Precision Ball	506000HF5	1/2"	1 ³ /16"	27/16"	-	-		
		900	Roller	506000HF9	3/4"	1 ³ /16"	2 ³ /16"	1/2"	27/16"		
		1000	Plain Bore	WH8X2TPE19	-	1 ³ /16"	2 ³ /16"	-	-		
QII	2"	1000	Delrin	508000HF1	3/4"	1 ³ /16"	2 ³ /16"	1/2"	27/16"		
0	2	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"	27/16"		
									•		
staini	ess S	teel Bea	rings (Including co	omponents)							
Stainl	ess S		rings (Including co	omponents)		Wheel		Spanne	r Bushing		
Staini Wheel Dia.	ess S Tread Width	teel Bea Capacity Each (Lbs)	rings (Including co Bearing	omponents) Wheel Model	Bearing Bore	Wheel Bore Less Bearing	Hub Length	Spanne Bore	r Bushing Length		
Wheel Dia. 4" 5" 6" 8" tainl Wheel	Tread	Capacity		. ,	Bearing Bore	Bore Less	Hub Length	· · · ·	_		
Wheel Dia.	Tread Width	Capacity Each (Lbs)	Bearing	Wheel Model	Bearing Bore — 3/4"	Bore Less Bearing	2 ³ /16"	· · · ·	Length		
Wheel Dia. 4" 5" 6" 8" Stain Dia. 4" 5" 6"	Tread	Capacity Each (Lbs) 600 600	Bearing Plain Bore Delrin	Wheel Model WH4X2TPE19 504040HF1	- 3/4"	Bore Less Bearing 1 ³ /16" 1 ³ /16"	2 ³ /16" 2 ³ /16"	Bore –	_		
Wheel Dia.	Tread Width	Capacity Each (Lbs) 600 600 600	Bearing Plain Bore Delrin Pedestal Precision Ball	Wheel Model WH4X2TPE19 504040HF1 504040HF5	- 3/4" 1/2"	Bore Less Bearing 1 ³ /16" 1 ³ /16" 1 ³ /16"	2 ³ /16" 2 ³ /16" 2 ⁷ /16"	Bore - 1/2"	Length - 27/16' 27/16' 27/16'		
Dia. 4" 5" 6" 8" Stainl Dia. 4" 5" 6"	Tread Width	Capacity Each (Lbs) 600 600 600 600	Bearing Plain Bore Delrin Pedestal Precision Ball Roller	Wheel Model WH4X2TPE19 504040HF1 504040HF5 504040HF9	- 3/4"	Bore Less Bearing 1 ³ /16" 1 ³ /16" 1 ³ /16" 1 ³ /16"	2 ³ /16" 2 ³ /16" 2 ⁷ /16" 2 ³ /16"	Bore –	Length		
Wheel Dia. 4''	Tread Width 2"	Capacity Each (Lbs) 600 600 600 600 750	Bearing Plain Bore Delrin Pedestal Precision Ball Roller Plain Bore	Wheel Model WH4X2TPE19 504040HF1 504040HF5 504040HF9 WH5X2TPE19	- 3/4" 1/2" 3/4"	Bore Less Bearing 13/16" 13/16" 13/16" 13/16" 13/16"	2 ³ /16" 2 ³ /16" 2 ⁷ /16" 2 ³ /16" 2 ³ /16"	Bore - 1/2" - 1/2" - 1/2" -	Length - 27/16" - 27/16" - 27/16" -		
Wheel Dia. 4''	Tread Width	Capacity Each (Lbs) 600 600 600 600 750 750	Bearing Plain Bore Delrin Pedestal Precision Ball Roller Plain Bore Delrin	Wheel Model WH4X2TPE19 504040HF1 504040HF5 504040HF9 WH5X2TPE19 505040HF1		Bore Less Bearing 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16"	2 ³ /16" 2 ³ /16" 2 ⁷ /16" 2 ³ /16" 2 ³ /16" 2 ³ /16"	Bore - 1/2"	Length - 2 ⁷ /16" -		
Wheel Dia. 4''	Tread Width 2"	Capacity Each (Lbs) 600 600 600 600 750 750 750 750	Bearing Plain Bore Delrin Pedestal Precision Ball Roller Plain Bore Delrin Pedestal Precision Ball	Wheel Model WH4X2TPE19 504040HF1 504040HF5 504040HF9 WH5X2TPE19 505040HF1 505040HF5	- 3/4" 1/2" 3/4" - 3/4" 1/2"	Bore Less Bearing 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16"	2 ³ /16" 2 ³ /16" 2 ⁷ /16" 2 ³ /16" 2 ³ /16" 2 ³ /16" 2 ⁷ /16"	Bore - 1/2" - 1/2" - 1/2" - 1/2"	Length - 27/16" - 27/16" - 27/16" - 27/16"		
Wheel Dia. 4''	Tread Width 2"	Capacity Each (Lbs) 600 600 600 600 750 750 750 750	Bearing Plain Bore Delrin Pedestal Precision Ball Roller Plain Bore Delrin Pedestal Precision Ball Roller	Wheel Model WH4X2TPE19 504040HF1 504040HF5 504040HF9 WH5X2TPE19 505040HF1 505040HF5 505040HF9		Bore Less Bearing 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16"	23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 27/16" 23/16"	Bore - 1/2" - 1/2" - 1/2" -	Length - 27/16" - 27/16" - 27/16" - 27/16"		
Wheel Dia. 4 " 5 "	Tread Width 2" 2"	Capacity Each (Lbs) 600 600 600 600 750 750 750 900	Bearing Plain Bore Delrin Pedestal Precision Ball Roller Plain Bore Delrin Pedestal Precision Ball Roller Plain Bore	Wheel Model WH4X2TPE19 504040HF1 504040HF5 504040HF9 WH5X2TPE19 505040HF1 505040HF5 505040HF9 WH6X2TPE19 S05040HF5	- 3/4" 1/2" 3/4" - 3/4" 1/2" 1/2" 3/4"	Bore Less Bearing 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16"	23/16" 23/16" 27/16" 23/16" 23/16" 23/16" 23/16" 27/16" 23/16" 23/16"	Bore - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" 1/2"	Length 27/16" - 27/16" - 27/16" - 27/16" - 27/16" - 27/16" 27/16"		
Wheel Dia. 4 " 5 "	Tread Width 2"	Capacity Each (Lbs) 600 600 600 600 750 750 750 750	Bearing Plain Bore Delrin Pedestal Precision Ball Roller Plain Bore Delrin Pedestal Precision Ball Roller Plain Bore Delrin	Wheel Model WH4X2TPE19 504040HF1 504040HF5 504040HF9 WH5X2TPE19 505040HF1 505040HF5 506040HF5	- 3/4" 1/2" 3/4" - 3/4" 1/2" 3/4" -	Bore Less Bearing 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16"	23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 27/16" 23/16"	Bore - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" - 1/2"	Length 27/16" - 27/16" - 27/16" - 27/16" - 27/16" - 27/16" 27/16"		
Wheel Dia. 4 " 5 "	Tread Width 2" 2"	Capacity Each (Lbs) 600 600 600 600 750 750 750 900 900	Bearing Plain Bore Delrin Pedestal Precision Ball Roller Plain Bore Delrin Pedestal Precision Ball Roller Plain Bore	Wheel Model WH4X2TPE19 504040HF1 504040HF2 504040HF3 904040HF3 505040HF3 505040HF3 505040HF3 905040HF3 905040HF3 505040HF3 906040HF3 906040HF3	- 3/4" 1/2" 3/4" - 3/4" 1/2" 3/4" - 3/4"	Bore Less Bearing 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16"	23/16" 23/16" 27/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16"	Bore - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" 1/2"	Length - 27/16" - 27/16" - 27/16" - 27/16" - 27/16" - 27/16" - - - - - - - - - - - - -		
Wheel Dia. 4 " 5 "	Tread Width 2" 2"	Capacity Each (Lbs) 600 600 600 600 750 750 750 900 900 900	Bearing Plain Bore Delrin Pedestal Precision Ball Roller Plain Bore Delrin Pedestal Precision Ball Roller Plain Bore Delrin Pedestal Precision Ball	Wheel Model WH4X2TPE19 504040HF1 504040HF5 504040HF9 WH5X2TPE19 505040HF1 505040HF5 506040HF5	- 3/4" 1/2" 3/4" - 3/4" 1/2" 3/4" - 3/4" - 3/4" 1/2"	Bore Less Bearing 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16"	23/16" 23/16" 27/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16"	Bore - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" 1/2"	Length - 27/16" - 27/16" - 27/16" - 27/16" - 27/16" - 27/16" - - - - - - - - - - - - -		
Wheel Dia. 4" 5" 6"	Tread Width 2" 2" 2"	Capacity Each (Lbs) 600 600 600 600 750 750 750 900 900 900 900 900	Bearing Plain Bore Delrin Pedestal Precision Ball Roller Plain Bore Delrin Pedestal Precision Ball Roller Plain Bore Delrin Pedestal Precision Ball Roller	Wheel Model WH4X2TPE19 504040HF1 504040HF2 504040HF3 505040HF3 505040HF1 505040HF3 905040HF3 505040HF3 505040HF3 505040HF3 505040HF3 505040HF3 506040HF3 506040HF3 506040HF3 506040HF3	- 3/4" 1/2" 3/4" - 3/4" 1/2" 3/4" - 3/4" - 3/4" 1/2"	Bore Less Bearing 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16"	23/16" 23/16" 27/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16"	Bore - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" 1/2"	Length - 27/16" - 27/16" - 27/16" - 27/16" - 27/16" - 27/16" - 27/16" - 27/16"		
Wheel Dia. 4" 5" 6"	Tread Width 2" 2"	Capacity Each (Lbs) 600 600 600 600 750 750 750 900 900 900 900 900 900 900 900	Bearing Plain Bore Delrin Pedestal Precision Ball Roller Plain Bore Delrin Pedestal Precision Ball Roller Plain Bore Delrin Pedestal Precision Ball Roller Plain Bore Plain Bore	Wheel Model WH4X2TPE19 504040HF1 504040HF5 504040HF9 WH5X2TPE19 505040HF1 505040HF5 505040HF9 WH6X2TPE19 506040HF5 506040HF1 506040HF1 506040HF5 506040HF5 506040HF9 WH8X2TPE19	- 3/4" 1/2" 3/4" - 3/4" 1/2" 3/4" - 3/4" 1/2" 3/4" - - -	Bore Less Bearing 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16"	23/16" 23/16" 27/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16" 23/16"	Bore 1/2" - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" - 1/2" 1/2"	Length 27/16" - 27/16" - 27/16" - 27/16" - 27/16" - 27/16" 27/16"		

508040HF9

3/4"

1³/16'

2³/16"

HydroTech Chemical Chart

Organics & Solvents Acetone Alcohol, butyl Alcohol, ethyl Alcohol, methyl Alcohol, methyl Aniline	6666	Methylene chloride Methyl ethyl ketone Oakite (floor cleaner) Orangeve Naptha Nitrobenzene	X F E X F	Acids Acetic, 10-50% Acetic, 75% Acetic, glacial Boric Butyric	GGGGG	Sulfuric, 78% Tannic Alkalies Tartaric Ammonium hydroxide Calcium hydroxide	F G F G G G G G
Bravo (wax stripper diluted) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroform Colson 45 lubricant Enclean SS-2 (parts cleaner) Ethyl acetate Ethylene chloride Ethylene dichloride Ethylene dichloride Ethyl ether Formaldehyde, 37% Gasoline Heptane	±XXXXGXFGFGGXX	Tuluene Trichloroethylene Varsol Vestalene (detergent diluted) Urine Gaşes Carbon dioxide Carbon monoxide Chlorine, wet Chlorine, dry Hydrogen sulfide Sulfur dioxide, wet Sulfur dioxide, dry	XXXEE GGFFGFF	Citric Fluoboric Hydrobromic, 25% Hydrochloric, 10% Hydrofluoric Lactic Nitric, 5% Nitric, 65% Oleic Oleum Oxalic Phosphoric, 25% Phosphoric, 85% Sulfuric, 10%	GGGGFFGXGXGGGGG	Potassium hydroxide Sodium hydroxide Salts Acid salts Alkaline salts Neutral salts Miscellaneous salts: Potassium dichromate Potassium permanganate Salt water Sodium cyanide Sodium ferricyanide Sodium hypochlorite	G G-F G G G G G G G G G G G G G G G G G

Roller

1000

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.



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27/16"

1/2"