

# 3S Series




## Hollow Kingpin

Capacity to 325 pounds each

### FEATURES

- ✓ **Finish:** bright zinc plating to resist rust and corrosion.
- ✓ **Design:** heavy gauge cold rolled steel, formed for strength.
- ✓ **Dust Cap:** all swivel models feature dust cap which protects swivel raceway bearings and improves performance.
- ✓ **Swivel Construction:** double ball bearing with hardened raceways.
- ✓ **Axle:** 3/8" diameter bolt with lock nut.
- ✓ **King Pin:** 1/2" hollow rivet, hydraulically upset.

### CASTER OPTIONS

- ✓ **Bright Nickel Plating:** to order, add "5" to body of model number (Example: 5-3S5-105). **Other finishes available**, see page 13.
- ✓ **PosiLoc® Brake:** all stainless steel construction. To order, add "PL" to end of model number (not available on 2-1/2" wheel models).
 
- ✓ **VertiLoc® Brake:** to order, add "VL" to end of model number (not available on 2-1/2" wheel models).
 
- ✓ **Precision Ball Wheel Bearing:** Sealed precision ball bearing available for most wheels—consult factory.
- ✓ **Swivel Grease Seal:** Includes zerk grease fitting in dust cap. To order, add "GS" to end of model number.
 
- ✓ **Thread Guards:** See page 94 for thread guard availability.



**5-3S-314GF**  
(shown in photo)

### MOUNTING OPTIONS

Hollow kingpin casters are designed to accept a 3/8" diameter bolt or other stem type.

### WHEEL OPTIONS



Wheel Diameter (Inches)	Tread Width (Inches)	Wheel Type	Bearing	Capacity (Pounds)	Hollow Kingpin Model Number	Approximate Weight (Pounds)	Load Height (Inches)	Swivel Radius (Inches)
2 1/2	1 1/4	CUSHION RUBBER	DELRIN	140	2-1/2-3S-105	1-11/16	3 7/16	2 3/4
		HARD RUBBER	DELRIN	210	2-1/2-3S-106	1-11/16		
		POLYOLEFIN	PLAIN	210	2-1/2-3S-513	1-11/16		
3	1 1/4	CUSHION RUBBER	DELRIN	150	3-3S-105	1-3/4	3 15/16	3
		CUSHION RUBBER	BALL	150	3-3S-152	1-3/4		
		HARD RUBBER	DELRIN	220	3-3S-106	1-3/4		
		HARD RUBBER	BALL	220	3-3S-162	1-3/4		
		POLYOLEFIN	PLAIN	250	3-3S-521	1-3/4		
	PHENOLIC	PLAIN	300	3-3S-121	1-3/4			
3 1/2	1 1/4	CUSHION RUBBER	DELRIN	160	3-1/2-3S-105	2	4 7/16	3 1/4
		CUSHION RUBBER W/ SIDE PLATES*	BALL	160	3-1/2-3S-452*	2		
		WELDED DISC / BLACK RUBBER	BALL	200	3-1/2-3S-113	2-3/16		
		WELDED DISC / GREY RUBBER	BALL	225	3-1/2-3S-113G	2-3/16		
		ADVANTAGE TPR / ROUND	DELRIN	225	3-1/2-3S-314GD	2-3/16		
		ADVANTAGE TPR / ROUND	BALL	225	3-1/2-3S-213GD	2-3/16		
		ADVANTAGE HEAT ROUND	S.S. BALL	225	3-1/2-3S-213RTR	2-3/16		
		ADVANTAGE HEAT FLAT	S.S. BALL	225	3-1/2-3S-213RTF	2-3/16		
ADVANTAGE HEALTH	S.S. BALL	225	3-1/2-3S-213MF	2-3/16				

Wheel Diameter (Inches)	Tread Width (Inches)	Wheel Type	Bearing	Capacity (Pounds)	Hollow Kingpin Model Number	Approximate Weight (Pounds)	Load Height (Inches)	Swivel Radius (Inches)
<b>3 1/2</b>	1 1/4	HARD RUBBER	DELRIN	230	3-1/2-3S-106	2	4 7/16	3 1/4
		HARD RUBBER W/ SIDE PLATES*	BALL	230	3-1/2-3S-462*	2-3/16		
		POLYOLEFIN	PLAIN	250	3-1/2-3S-513	2-3/16		
		HI-TEMP RESIN	PLAIN	250	3-1/2-3S-521HTN	2-1/2		
		WELDED DISC / POLYURETHANE	BALL	250	3-1/2-3S-113P	2-3/16		
		ADVANTAGE TPR / FLAT	DELRIN	250	3-1/2-3S-314GF	2-3/16		
		ADVANTAGE TPR / FLAT	BALL	250	3-1/2-3S-213GF	2-3/16		
		POLYLOC / GREY	BALL	250	3-1/2-3S-213G	2-3/16		
		POLYLOC / GREY	DELRIN	250	3-1/2-3S-314G	2-3/16		
		POLYLOC / BLUE	BALL	250	3-1/2-3S-213P	2-3/16		
<b>4</b>	1 1/4	CUSHION RUBBER	DELRIN	170	4-3S-105	2-3/8	4 15/16	3 1/2
		CUSHION RUBBER W/ SIDE PLATES*	BALL	170	4-3S-452*	2-3/8		
		WELDED DISC / BLACK RUBBER	BALL	200	4-3S-113	2-1/2		
		WELDED DISC / GREY RUBBER	BALL	200	4-3S-113G	2-1/2		
		HARD RUBBER	DELRIN	250	4-3S-106	2-3/8		
		HARD RUBBER W/ SIDE PLATES*	BALL	250	4-3S-462*	2-3/8		
		ADVANTAGE TPR / ROUND	DELRIN	250	4-3S-314GD	2-1/2		
		ADVANTAGE TPR / ROUND	BALL	250	4-3S-213GD	2-1/2		
		WELDED DISC / POLYURETHANE	BALL	275	4-3S-113P	2-1/2		
		POLYLOC / GREY	BALL	275	4-3S-213G	2-1/2		
		POLYLOC / GREY	DELRIN	275	4-3S-314G	2-1/2		
		POLYLOC / BLUE	BALL	275	4-3S-213P	2-1/2		
		POLYOLEFIN	PLAIN	275	4-3S-513	2-1/2		
		ADVANTAGE TPR / FLAT	DELRIN	300	4-3S-314GF	2-1/2		
	ADVANTAGE TPR / FLAT	BALL	300	4-3S-213GF	2-1/2			
	ADVANTAGE HEAT ROUND	S.S. BALL	300	4-3S-213RTR	2-1/2			
	ADVANTAGE HEAT FLAT	S.S. BALL	300	4-3S-213RTF	2-1/2			
	ADVANTAGE HEALTH	S.S. BALL	300	4-3S-213MF	2-1/2			
	1 1/2	PHENOLIC	PLAIN	300	4-3S-121	2-1/2		
	HI-TEMP RESIN	PLAIN	300	4-3S-521HT	2-1/2			
<b>5</b>	1 1/4	CUSHION RUBBER	DELRIN	200	5-3S-105	2-3/4	6 1/16	4
		CONDUCTIVE CUSHION RUBBER	SINTERED	200	5-3S-105C	2-3/4		
		CUSHION RUBBER	BALL	200	5-3S-152	2-3/4		
		CUSHION RUBBER W/ SIDE PLATES*	BALL	200	5-3S-452*	2-3/4		
		WELDED DISC / BLACK RUBBER	BALL	200	5-3S-113	3		
		WELDED DISC / GREY RUBBER	BALL	200	5-3S-113G	3		
		ADVANTAGE TPR / ROUND	DELRIN	250	5-3S-314GD	3		
		ADVANTAGE TPR / ROUND	BALL	250	5-3S-213GD	3		
		HARD RUBBER	DELRIN	280	5-3S-106	2-3/4		
		HARD RUBBER	BALL	280	5-3S-162	2-3/4		
		HARD RUBBER W/ SIDE PLATES*	BALL	280	5-3S-462*	2-3/4		
		WELDED DISC / POLYURETHANE	BALL	300	5-3S-113P	3		
		POLYLOC / GREY	BALL	300	5-3S-213G	3		
		POLYLOC / GREY	DELRIN	300	5-3S-314G	3		
		POLYLOC / BLUE	BALL	300	5-3S-213P	3		
		POLYOLEFIN	PLAIN	300	5-3S-513	3		
	POLYOLEFIN	BALL	300	5-3S-514	3			
	ADVANTAGE HEAT ROUND	S.S. BALL	300	5-3S-213RTR	3			
	ADVANTAGE HEAT FLAT	S.S. BALL	300	5-3S-213RTF	3			
	ADVANTAGE HEALTH	S.S. BALL	300	5-3S-213MF	3			
	ADVANTAGE TPR / FLAT	DELRIN	325	5-3S-314GF	3			
	ADVANTAGE TPR / FLAT	BALL	325	5-3S-213GF	3			
1 1/2	PHENOLIC	PLAIN	300	5-3S-121	3			
HI-TEMP RESIN	PLAIN	325	5-3S-521NHT	3				
<b>6</b>	1 1/4	CUSHION RUBBER	DELRIN	220	6-3S-105	3-1/8	7 1/16	4 1/2
		CONDUCTIVE CUSHION RUBBER	SINTERED	220	6-3S-105C	3-1/8		
		WELDED DISC / BLACK RUBBER	BALL	250	6-3S-113	3-3/4		
		WELDED DISC / GREY RUBBER	BALL	250	6-3S-113G	3-3/4		
		HARD RUBBER	DELRIN	300	6-3S-106	3-1/8		
		HARD RUBBER	BALL	300	6-3S-162	3-1/8		
		WELDED DISC / POLYURETHANE	BALL	300	6-3S-113P	3-3/4		
		ADVANTAGE TPR / ROUND	DELRIN	300	6-3S-314GD	3-3/4		
		ADVANTAGE TPR / ROUND	BALL	300	6-3S-213GD	3-3/4		
		POLYLOC / GREY	BALL	300	6-3S-213G	3-3/4		
		POLYLOC / GREY	DELRIN	300	6-3S-314G	3-3/4		
		POLYLOC / BLUE	BALL	300	6-3S-213P	3-3/4		
		ADVANTAGE HEAT ROUND	S.S. BALL	325	6-3S-213RTR	3-3/4		
	ADVANTAGE HEAT FLAT	S.S. BALL	325	6-3S-213RTF	3-3/4			
	ADVANTAGE HEALTH	S.S. BALL	325	6-3S-213MF	3-3/4			
	1 1/2	PHENOLIC	PLAIN	300	6-3S-121	3-3/4		
	POLYOLEFIN	PLAIN	300	6-3S-521	3-3/4			

\* Grey tread wheels are available (consult factory).

# Wheel Selection Guide

Wheel Type	Capacity Range Per Wheel	Temperature Range	Hardness	Page Number
CUSHION / SOLID RUBBER	Up to 260 lbs.	-30° to +160° F	75 (±) 5 (A)	74-75
HARD / SOLID RUBBER	Up to 400 lbs.	-30° to +160° F	75 (±) 5 (D)	75
WELDED DISC / RUBBER	Up to 250 lbs.	-40° to +160° F	75 (±) 5 (A)	76
WELDED DISC / POLYURETHANE	Up to 300 lbs.	-40° to +180° F	95 (±) 5 (A)	76
ADVANTAGE TPR (INCLUDING HEAT / HEALTH)	Up to 675 lbs.	-40° to +180° F	65 (±) 5 (A)	77-79
HIGH MODULUS RUBBER	Up to 550 lbs.	-40° to +160° F	65 (±) 5 (A)	81
FULL PNEUMATIC RUBBER	Up to 470 lbs.	-20° to +160° F	-----	81
POLYOLEFIN	Up to 900 lbs.	-20° to +180° F	65 (±) 5 (D)	82
TRITON	Up to 1,500 lbs.	-20° to +180° F	65 (±) 5 (D)	83
HI-TEMP RESIN	Up to 600 lbs.	-20° to +475° F	75 (±) 5 (D)	83
MAGNUM POLYURETHANE	Up to 1200 lbs.	-40° to +180° F	Choices	84
POLYLOC GREY OR BLUE POLYURETHANE	Up to 1,000 lbs.	-30° to +180° F	95 (±) 5 (A)	85-86
SOLID ELASTOMER	Up to 1,250 lbs.	-40° to +230° F	73 (±) 5 (D)	88
MOLDON RUBBER / ALUMINUM CORE	Up to 500 lbs.	-40° to +160° F	75 (±) 5 (A)	80
MOLDON POLYURETHANE / ALUMINUM CORE	Up to 1,200 lbs.	-40° to +160° F	55 (±) 5 (D)	87
MOLDON RUBBER / CAST IRON CORE	Up to 500 lbs.	-40° to +160° F	75 (±) 5 (A)	80
MOLDON POLYURETHANE / CAST IRON CORE	Up to 1,500 lbs.	-30° to +180° F	55 (±) 5 (D)	87
PHENOLIC	Up to 1,400 lbs.	-45° to +250° F	90(±) 5 (D)	89
CAST IRON	Up to 1,500 lbs.	-45° to +250° F	-----	90
DUCTILE	Up to 3,800 lbs.	-45° to +250° F	-----	90
V-GROOVE	Up to 1,000 lbs.	-45° to +250° F	-----	90

## Floor Surfaces

Wheel Type	Carpet	Brick	Concrete	Linoleum	Asphalt	Terrazzo	Wood	Smooth Steel	Ribbed Steel	Tile
CUSHION / SOLID RUBBER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HARD / SOLID RUBBER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WELDED DISC / RUBBER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WELDED DISC / POLYURETHANE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ADVANTAGE TPR (INCLUDING HEAT / HEALTH)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HIGH MODULUS RUBBER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FULL PNEUMATIC RUBBER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
POLYOLEFIN / TRITON	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HI-TEMP RESIN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
POLYLOC AND MAGNUM POLYURETHANE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SOLID ELASTOMER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MOLDON RUBBER / ALUMINUM CORE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MOLDON POLYURETHANE / ALUMINUM CORE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MOLDON RUBBER / CAST IRON CORE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MOLDON POLYURETHANE / CAST IRON CORE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CAST IRON / DUCTILE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
V-GROOVE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

## Operating Conditions

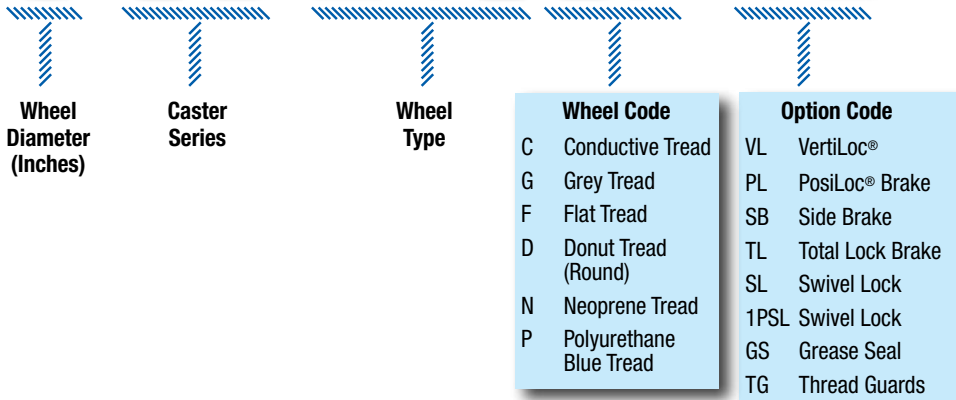
Wheel Type	Water	Steam	Mild Chemicals	Oil/Grease	Metal Chips	High Heat > +250°F	Extreme Cold -20°F	Animal Fats	Noise Reduction	Floor Protection	Shock Absorption
CUSHION / SOLID RUBBER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HARD / SOLID RUBBER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WELDED DISC / RUBBER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WELDED DISC / POLYURETHANE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ADVANTAGE TPR (INCLUDING HEAT / HEALTH)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HIGH MODULUS RUBBER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FULL PNEUMATIC RUBBER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
POLYOLEFIN / TRITON	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HI-TEMP RESIN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
POLYLOC AND MAGNUM POLYURETHANE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SOLID ELASTOMER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MOLDON RUBBER / ALUMINUM CORE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MOLDON POLYURETHANE / ALUMINUM CORE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MOLDON RUBBER / CAST IRON CORE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MOLDON POLYURETHANE / CAST IRON CORE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PHENOLIC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CAST IRON / DUCTILE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
V-GROOVE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

# Model Numbers

## Casters

Below model is a 5" wheel diameter 30 Series swivel caster with Flat Tread Advantage wheel with VertiLoc® brake.

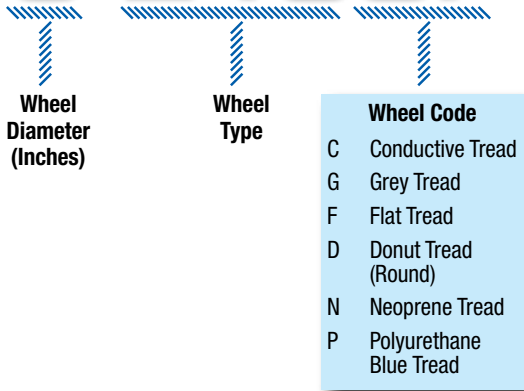
# 5-30-213GF VL



## Wheels

Below model is a 5" wheel diameter Flat Tread Advantage wheel with ball bearing.

# 5-213GF



## Forks

Below model is a 5" diameter 30 Series swivel fork.

# 5-30-000-PLT 2

