

Wheel Selection Guide

Polyolefin Wheels



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Wheel Application Guide

					
Wheel Type	Carpet	Linoleum	Wood	Concrete	Tile
MonoTech	Good	Excellent	Excellent	Excellent	Excellent
Thermoplastic Rubber (TPR)	Good	Good	Good	Good	Good
Polyurethane (TPU)	Good	Good	Good	Excellent	Excellent
Soft Rubber**	Good	Good	Good	Good	Good
Hard Rubber**	Good			Good	
Polyolefin	Good			Good	Good
Vipor	Excellent	Good	Good	Excellent	Good
Pneumatic**	Good	Good	Good	Good	Good
No-Matic**	Good	Good	Good	Good	Good
Phenolic	Good			Good	
Glass Filled Nylon	Good			Good	
Cast Iron				Good	

*Always consult your flooring manufacturer to determine the best wheel materials for your floor prior to use.

**Some industrial rubber wheels may leave rubber residue on certain floor types, test prior to use.

Polyolefin Wheels

Polyolefin (Popular on Regent, Monarch, Institutional Series and E-Line Series)

Wheel Diameter (Inches)	Tread Width (Inches)	Bearing	Hub Length (Inches)	Axle Size (Inches)	Color Tread/ Core	Durometer / Shore Scale	Dynamic Load (Pounds)	Part Number
1-1/4"	17/32"	Plain	.63"	3/16"	Black	70D	75	007114
1-5/8"	11/16"	Plain	.77"	7/32"	Black	70D	80	006971
2"	13/16"	Plain	.90"	1/4"	Black	70D	100	006972
2-1/2"	13/16"	Plain	.92"	1/4"	Black	70D	120	007213
3"	13/16"	Plain	.99"	1/4"	Black	70D	125	007386
	1-1/4"	Plain	1.56"	3/8"	Black	70D	270	005100
4"	15/16"	Plain	1.15"	5/16"	Black	70D	150	004101
	1-1/4"	Plain	1.56"	3/8"	Black	70D	275	005102
	2"	Plain	2.375"	1-3/16" bore ¹	Black	70D	500	WH4X2POD19
5"	15/16"	Plain	1.15"	5/16"	Black	70D	150	007310
	1-1/4"	Plain	1.56"	3/8"	Black	70D	300	005103
	2"	Plain	2.375"	1-3/16" bore ¹	Black	70D	600	WH5X2POD19
6"	2"	Plain	2.375"	1-3/16" bore ¹	Black	70D	600	WH6X2POD19
8"	2"	Plain	2.375"	1-3/16" bore ¹	Black	70D	900	WH8X2POD19

¹Requires bearing and spanner to utilize 1/2" axle.



Features

- The most economical hard tread wheel solution
- Non-marking and resistant to frequent wash-downs, oil, grease, cleaning solutions, and most chemicals
- High-impact strength in a lightweight injection molded construction
- Other wheel options available; please consult factory for details
- **Temperature Range:**
-20° to 180° F



2" Regent/
Monarch



2" Low Profile
00



2-1/2" Low Profile
BLS/BLM

Solid Wall Polyolefin (Popular on Regent, Monarch, Low Profile 00 and Low Profile BLS/BLM Series)

Wheel Diameter (Inches)	Tread Width (Inches)	Bearing	Hub Length (Inches)	Axle Size (Inches)	Color Tread/ Core	Durometer / Shore Scale	Dynamic Load (Pounds)	Part Number
2"	3/4"	Plain	.90"	1/4"	Black	70D	100	007956
	3/4"	Plain	.921"	5/16"	Black	70D	100	618712
	1-13/16"	Plain	1.85"	5/16"	Black	70D	300	618901
2-1/2"	1-3/4"	Roller	1.94"	3/8" ²	Black	70D	400	618820

²Requires spanner #009292 to utilize 3/8" axle.



2" Spherical:
Baron Series

Spherical Polyolefin (Popular on Baron Series)

Wheel Diameter (Inches)	Tread Width (Inches)	Bearing	Hub Length (Inches)	Axle Size (Inches)	Color Tread/ Core	Durometer / Shore Scale	Dynamic Load (Pounds)	Part Number
2"	-	Plain	1.98"	1/4"	Black	70D	100	006520

Popular Polyolefin Caster Series



E-Line
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Institutional
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Regent
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Low Profile 00
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Baron
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Soft and Hard Rubber Tread Wheels



Features

- Soft rubber wheels combine a soft tread on a hard rubber core—offering quiet movement, a cushioned ride, and added floor protection
- Hard rubber wheels provide higher load capacities and impact resistance
- Resistant to most chemicals and oils
- **Temperature Range:**
-40° to 160° F

Wheel Diameter (Inches)	Tread Width (Inches)	Bearing	Hub Length (Inches)	Axle Size (Inches)	Wheel Color	Durometer / Shore Scale	Dynamic Load (Pounds)	Part Number
Soft Rubber (Popular on Regent, Monarch and Institutional Series)								
1-5/8"	23/32"	Plain	.77"	7/32"	Black	75A	70	006371
2"	13/16"	Plain	.92"	1/4"	Black	75A	80	006102
	13/16"	Plain	.92"	5/16"	Dark Grey	75A	80	618711
2-1/2"	13/16"	Plain	.92"	1/4"	Black	75A	90	006742
3"	13/16"	Plain	.99"	1/4"	Black	75A	110	007385
	1-1/4"	Plain	1.56"	3/8" ¹	Black	75A	150	615493
3-1/2"	1-1/4"	Plain	1.56"	3/8" ¹	Black	75A	150	615121
4"	15/16"	Plain	1.15"	5/16"	Black	75A	125	007272
	1-1/4"	Plain	1.56"	3/8" ¹	Black	75A	165	615514
5"	15/16"	Plain	1.15"	5/16"	Black	75A	130	007312
	1-1/4"	Plain	1.56"	3/8" ¹	Black	75A	200	615519

¹Requires spanner# 612240 to utilize 3/8" axle, order separately with wheel.

Hard Rubber (Popular on Regent, Monarch and Institutional Series)

2"	13/16"	Plain	.92"	1/4"	Black	80D	100	006646
	13/16"	Plain	.92"	5/16"	Loden Grey	80D	100	618710
2-1/2"	13/16"	Plain	.92"	1/4"	Black	80D	110	006744
3"	13/16"	Plain	.99"	1/4"	Black	80D	120	007380
	1-1/4"	Plain	1.56"	3/8" ¹	Black	80D	210	615487
3-1/2"	1-1/4"	Plain	1.56"	3/8" ¹	Black	80D	250	615120
4"	15/16"	Plain	1.15"	5/16"	Black	80D	150	007271
	1-1/4"	Plain	1.56"	3/8" ¹	Black	80D	255	615513
5"	15/16"	Plain	1.15"	5/16"	Black	80D	150	007311
	1-1/4"	Plain	1.56"	3/8" ¹	Black	80D	280	615516

¹Requires spanner# 612240 to utilize 3/8" axle, order separately with wheel.

Spherical Soft Rubber (Popular on Baron Series)



1-5/8" Spherical:
Baron Series

Wheel Diameter (Inches)	Bearing	Hub Length (Inches)	Axle Size (Inches)	Wheel Color	Durometer / Shore Scale	Dynamic Load (Pounds)	Part Number
1-5/8"	Plain	1.52"	7/32"	Black	75A	75	006522

Popular Rubber Tread Caster Series



Institutional Hard and Soft Rubber
Pages 10-12



Regent Hard and Soft Rubber
Pages 6-8



Low Profile 00 Hard and Soft Rubber
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Baron Soft Rubber
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Thermoplastic Rubber (TPR) Wheels

TPR (Popular on Regent, Monarch and Institutional Series)

Wheel Diameter (Inches)	Tread Width (Inches)	Bearing	Tread/Core Color	Thread Guard	Hub Length (Inches)	Axle Size (Inches)	Durometer / Shore Scale	Dynamic Load (Pounds)	Part Number
2"	13/16"	Plain	Grey/Black	None	0.9"	1/4"	40D	80	007962
	13/16"	Plain	Grey/Black	None	0.92"	5/16"	40D	80	618713
2-1/2"	13/16"	Plain	Grey/Black	None	0.9"	1/4"	40D	90	007964
3"	13/16"	Plain	Grey/Black	None	0.99"	1/4"	40D	125	008063
	1-1/4"	Delrin	Grey/Grey	None	1.5"	3/8"	85A	210	009014
3-1/2"	1-1/4"	Precision Ball	Grey/Grey	Full	1.6"	3/8"	85A	210	008412
	1-1/4"	Delrin	Grey/Grey	None	1.5"	3/8"	85A	250	009197
4"	1-1/4"	Ball	Grey/Grey	Partial	1.625"	3/8"	85A	250	009198
	15/16"	Plain	Grey/Black	None	1.15"	5/16"	75A	125	008064
4"	1-1/4"	Delrin	Grey/Grey	None	1.5"	3/8"	85A	260	009018
	1-1/4"	Precision Ball	Grey/Grey	Partial	1.6"	3/8"	85A	260	008424M
5"	1-1/4"	Precision Ball	Grey/Grey	Full	1.6"	3/8"	85A	260	008415M
	15/16"	Plain	Grey/Black	None	1.15"	5/16"	75A	150	008065
5"	1-1/4"	Delrin	Grey/Grey	None	1.5"	3/8"	85A	280	009022
	1-1/4"	Precision Ball	Grey/Grey	Partial	1.6"	3/8"	85A	280	008427M
6"	1-1/4"	Precision Ball	Grey/Grey	Full	1.6"	3/8"	85A	280	008418M
	1-1/4"	Precision Ball	Grey/Grey	Partial	1.6"	3/8"	85A	300	008430M
6"	1-1/4"	Precision Ball	Grey/Grey	Full	1.6"	3/8"	85A	300	008421M



Features

- A better alternative to standard rubber wheels
- Non-marking and floor protective
- Tread is chemically bonded to the core
- Resistant to chemicals and oils, and ideal for wash down applications
- Can be manufactured in a variety of special colors; consult factory for minimums and details
- **Temperature Range:**
-40° to 180° F

RAZER (RZ)

See page 47 for E-Line flat and donut wheel models



Institutional TPR
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Regent TPR
Pages 6-8

MonoTech Wheels



Wheel Diameter (Inches)	Tread Width (Inches)	Bearing	Tread Shape	Thread Guard	Hub Length (Inches)	Axle Size (Inches)	Durometer / Shore Scale	Dynamic Load (Pounds)	Part Number
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Precision bearing model



Plain bearing model

Features

- Provides ultimate floor protection and a quiet, cushioned ride
- Rolls over obstacles with ease
- Will not flat spot and is excellent on any floor type
- Rejects floor debris, including metal shavings and glass
- Donut tread wheels provide easier rollability and maneuverability
- **Temperature Range:**
-45° to 180° F

MonoTech Light Duty (Popular on Regent and Monarch)

3"	13/16"	Plain	Donut	None	1.01"	1/4"	65A	120	009001
4"	15/16"	Plain	Donut	None	1.18"	5/16"	65A	150	009003
5"	15/16"	Plain	Donut	None	1.18"	5/16"	65A	160	007315
	15/16"	Precision Ball	Donut	Full	1.18"	5/16"	65A	160	007320

MonoTech Flat (Popular on Institutional)



3-1/2"	1-1/4"	Precision Ball	Flat	Partial	1-5/8"	3/8"	65A	250	009916
	1-1/4"	Delrin	Flat	None	1-1/2" ¹	3/8"	65A	250	009913
4"	1-1/4"	Precision Ball	Flat	Partial	1-5/8"	3/8"	65A	300	009917
	1-1/4"	Delrin	Flat	None	1-1/2" ¹	3/8"	65A	300	009914
5"	1-1/4"	Precision Ball	Flat	Partial	1-5/8"	3/8"	65A	325	009918
	1-1/4"	Delrin	Flat	None	1-1/2" ¹	3/8"	65A	325	009915

¹Requires spanner# 612240 to utilize 3/8" axle, order separately with wheel.



MonoTech Donut (Popular on Institutional)

4"	1-1/4"	Precision Ball	Donut	Partial	1-5/8"	3/8"	65A	250	009919
	1-1/4"	Delrin	Donut	None	1-1/2" ¹	3/8"	65A	250	009907
5"	1-1/4"	Precision Ball	Donut	Partial	1-5/8"	3/8"	65A	300	009908
	1-1/4"	Delrin	Donut	None	1-1/2" ¹	3/8"	65A	300	009901
6"	1-1/4"	Precision Ball	Donut	Partial	1-5/8"	3/8"	65A	325	009904
	1-1/4"	Delrin	Donut	None	1-1/2" ¹	3/8"	65A	325	009903

¹Requires spanner# 612240 to utilize 3/8" axle, order separately with wheel.

Popular MonoTech Caster Series

Institutional MonoTech
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Regent MonoTech
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Regent MonoTech
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Pneumatic and No-Matic Wheels



Pneumatic (Popular on Institutional)

Wheel Diameter (Inches)	Tread Width (Inches)	Bearing	Tread/ Core Color	Hub Length (Inches)	Axle Size (Inches)	Tire Pressure	Dynamic Load (Pounds)	Part Number
6"	1-1/4"	Ball Bearing	Black/Grey	1.57"	3/8"	90PSI	150	006006

Pneumatic Features

- Shock absorbing to reduce vibration to protect equipment and cargo
- Smooth ride indoors or outdoors
- Will roll over obstacles, thresholds, and uneven surfaces with ease
- Durable polypropylene core
- 90 PSI



No-Matic (3" Regent/Monarch/6" Institutional)

Wheel Diameter (Inches)	Tread Width (Inches)	Bearing	Tread/ Core Color	Hub Length (Inches)	Axle Size (Inches)	Durometer / Shore Scale	Dynamic Load (Pounds)	Part Number
3"	13/16"	Plain	Black/Grey	.99"	1/4"	70A	150	010283
6"	1-1/4"	Ball Bearing	Black/Grey	1.57"	3/8"	70A	150	009922
	1-1/4"	Ball Bearing	Grey/Grey	1.57"	3/8"	70A	150	009923

No-Matic Features

- A pneumatic look and feel without the maintenance and risk of flat tires
- Available in a non-marking grey tire
- Shock absorbing and will roll over obstacles, thresholds, and uneven surfaces with ease
- Durable polypropylene core

Popular Pneumatic and No-Matic Caster Series

Institutional Pneumatic
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Institutional No-Matic
Pages 10-12



Regent No-Matic 3"
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Thermoplastic Urethane (TPU)



TPU (Popular on Regent, Monarch and Institutional)

Wheel Diameter (Inches)	Tread Width (Inches)	Bearing	Tread/Core Color	Thread Guard	Hub Length (Inches)	Axle Size (Inches)	Durometer / Shore Scale	Dynamic Load (Pounds)	Part Number
2"	13/16"	Plain	Grey/Black	None	0.9"	1/4"	40D	100	007963
2-1/2"	13/16"	Plain	Grey/Black	None	0.9"	1/4"	40D	120	007965
	13/16"	Plain	Grey/Black	None	0.99"	1/4"	40D	125	008083
3"	1-1/4"	Precision Ball	Blue/Grey	Full	1.6"	3/8"	45D	250	008443
	1-1/4"	Precision Ball	Grey/Grey	Full	1.6"	3/8"	45D	250	008413
3-1/2"	1-1/4"	Ball	Grey/Grey	Partial	1.625"	3/8"	45D	275	009199
	15/16"	Plain	Grey/Black	None	1.15"	5/16"	40D	150	008084
4"	1-1/4"	Precision Ball	Blue/Grey	Partial	1.6"	3/8"	45D	300	008444M
	1-1/4"	Precision Ball	Blue/Grey	Full	1.6"	3/8"	45D	300	008446M
	1-1/4"	Precision Ball	Grey/Grey	Partial	1.6"	3/8"	45D	300	008425M
	1-1/4"	Precision Ball	Grey/Grey	Full	1.6"	3/8"	45D	300	008416M
5"	15/16"	Plain	Grey/Black	None	1.15"	5/16"	40D	150	008085
	1-1/4"	Precision Ball	Blue/Grey	Partial	1.6"	3/8"	45D	315	008445M
	1-1/4"	Precision Ball	Blue/Grey	Full	1.6"	3/8"	45D	315	008447M
	1-1/4"	Precision Ball	Grey/Grey	Partial	1.6"	3/8"	45D	315	008428M
6"	1-1/4"	Precision Ball	Grey/Grey	Full	1.6"	3/8"	45D	315	008419M
	1-1/4"	Precision Ball	Grey/Grey	Partial	1.6"	3/8"	45D	325	008431M
6"	1-1/4"	Precision Ball	Grey/Grey	Full	1.6"	3/8"	45D	325	008422M

Features

- Consists of a high-grade urethane tread mechanically interlocked to a polyolefin core
- Urethane offers extended wear and excellent floor protection
- Highly resistant to chemicals and oils
- Handles higher load ratings and provides excellent durability
- **Temperature Range:** -40° to 180° F

See page 47 for E-Line polyurethane tread models



Razer (TPR)



Razer Thermoplastic Rubber on Polyolefin

Wheel Diameter (Inches)	Tread Width (Inches)	Bearing	Tread/Core Color	Thread Guard	Hub Length (Inches)	Axle Size (Inches)	Durometer / Shore Scale	Dynamic Load (Pounds)	Part Number
2"	3/4"	Plain	Grey	None	0.84"	5/16"	85A	110	RZ-02TPN-070-05
3"	7/8"	Ball	Grey	Full	1.16"	5/16"	85A	110	RZ-03TPP-090-05
4"	7/8"	Ball	Grey	Full	1.16"	5/16"	85A	110	RZ-04TPP-090-05
5"	7/8"	Ball	Grey	Full	1.16"	5/16"	85A	110	RZ-05TPP-090-05

- Grey Thermoplastic Rubber (TPR) tread chemically bonded to polyolefin core
- Full Metal Thread Guard on 3" to 5" models
- **Temperature Range:** -30°F to +180°F

Institutional Grey TPU
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Razer Grey TPR
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Regent Grey TPU
Pages 6-8



Eclipse TPU
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Vipor

Vipor (Popular on Regent, Monarch and Institutional)

Wheel Diameter (Inches)	Tread Width (Inches)	Bearing	Tread/Core Color	Hub Length (Inches)	Axle Size (Inches)	Durometer / Shore Scale	Dynamic Load (Pounds)	Part Number
2"	13/16"	Plain	Clear/Grey	1"	1/4"	90A	80	001920
3"	13/16"	Plain	Clear/Grey	.99"	1/4"	85A-90A	120	001899
6"	1-1/4"	Ball	Clear/Grey	1.59"	3/8"	85A-90A	300	009256



Features

- A specialized Vipor material provides excellent abrasion resistance with a very high-tech look
- Resistant to chemicals and oils

Solid Urethane

Wheel Diameter (Inches)	Tread Width (Inches)	Bearing	Tread/Core Color	Hub Length (Inches)	Axle Size (Inches)	Durometer / Shore Scale	Dynamic Load (Pounds)	Part Number
3"	1-13/16"	Roller	Grey	2.05"	7/16" ¹	55D-65D	1,000	001587

¹Requires spanner# 009290 to utilize 7/16" axle, order separately with wheel.



Features

- Solid urethane construction provides excellent floor protection and durability
- Urethane helps absorb shocks and provide quieter mobility

Glass Filled Nylon

Wheel Diameter (Inches)	Tread Width (Inches)	Bearing	Tread/Core Color	Hub Length (Inches)	Axle Size (Inches)	Durometer / Shore Scale	Dynamic Load (Pounds)	Part Number
3"	1-13/16"	Precision Ball	Black	2.03"	7/16"	85D	1,000	006300

Features

- High impact resistance
- Handles heavy loads and is extremely durable
- Precision ball bearings provide easy mobility

