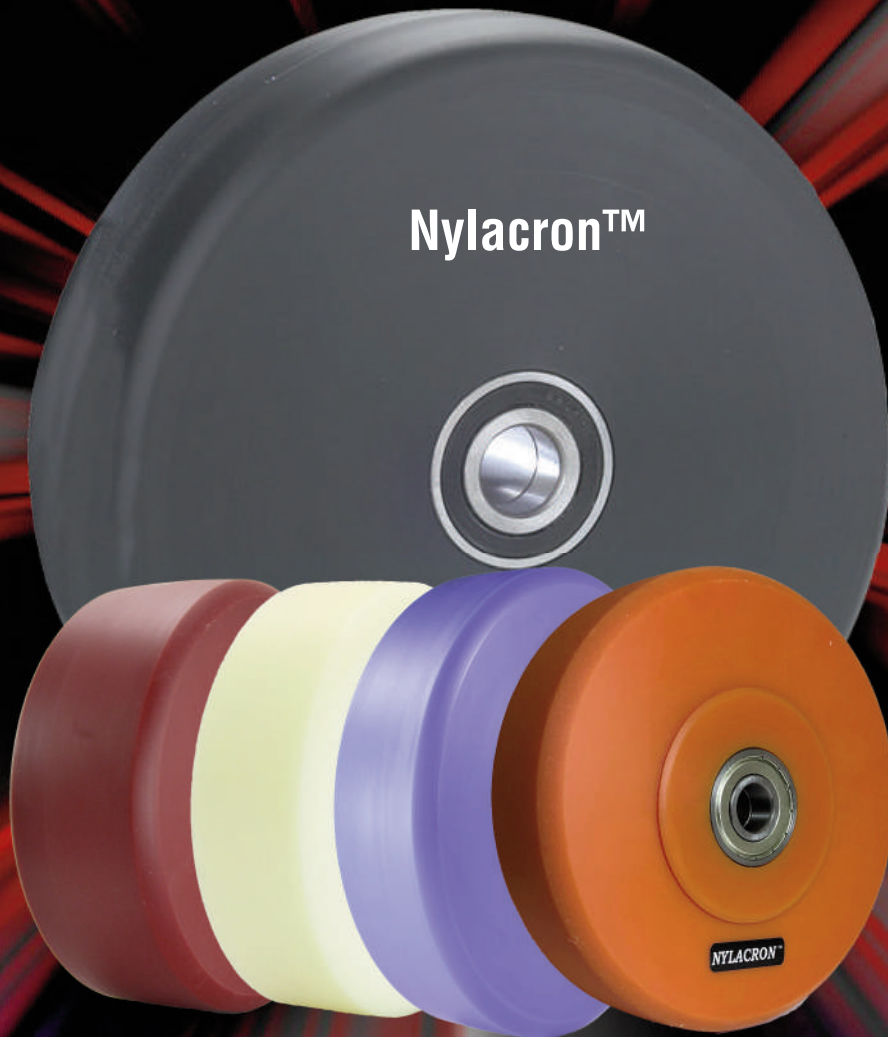


# INNOVATORS OF THE NYLACRON™ WHEELS

AVAILABLE IN ANY SIZE & LOAD CAPACITY  
MADE BY ACORN™ HERE IN THE USA.





|                     |             |
|---------------------|-------------|
|                     | <b>PAGE</b> |
| Nylacron™ . . . . . | 162-175     |

**NYLACRON™ WHEELS  
FOR EVERY APPLICATIONS**

**1/3 THE WEIGHT OF STEEL  
& THE SAME LOAD CAPACITY  
MADE IN USA**

**AVAILABLE IN  
FLANGED, V-GROOVE  
& CUSTOM DESIGNS**

**Applications**

- Aerospace**
- Fisheries**
- AGV**
- Food**
- Amusement Rides**
- Meat Processing**

- Automotive**
- Monorail Conveyors**
- Bakeries**
- Pharmaceutical**
- Chemical Plants**
- Retrieval Systems**

- Conveyor**
- Storage Racks**
- Crane**
- Towlines**
- Dairy**
- Turning Platforms**



# NYLACRON™ NY/MD

All information is based on Acorn's over 20 years experience working with the producers of the cast polyamides to successfully provide Nylacron™ wheels for the industries where the properties of this material offers many benefits.

**NYLACRON™ WHEELS ARE ALSO AVAILABLE IN FLANGED / V-GROOVE AND CUSTOM SIZES TO 51" DIAMETER TO MEET JOB REQUIREMENTS.**

**Nylacron™ Wheels design and manufactured by Acorn™ available in any size to fit any caster rig or wheel application and replace any type wheel.**



## STANDARD U.S. CASTER WHEEL SIZES

| Dia. (inch) | Width (inch) | Capacity (lbs) | Hub Length (inch) | Axle Bore (inch) | Wheel Part Number* |
|-------------|--------------|----------------|-------------------|------------------|--------------------|
| 3           | 1-1/4        | 440            | 1-1/2             | 3/8              | NY/MDP031206       |
| 4           | 1-1/4        | 550            | 1-1/2             | 3/8              | NY/MDP041206       |
| 5           | 1-1/4        | 660            | 1-1/2             | 3/8              | NY/MDP051206       |
| 6           | 1-1/4        | 770            | 1-1/2             | 3/8              | NY/MDP061206       |
| 3           | 2            | 1000           | 2-3/16            | 1/2              | NY/MDP032008       |
| 4           | 2            | 2000           | 2-3/16            | 1/2              | NY/MDP042008       |
| 5           | 2            | 2000           | 2-3/16            | 1/2              | NY/MDP052008       |
| 6           | 2            | 2000           | 2-3/16            | 1/2              | NY/MDP062008       |
| 8           | 2            | 2400           | 2-3/16            | 1/2              | NY/MDP082008       |
| 6           | 2-1/2        | 5000           | 2-3/4             | 1/2              | NY/MDP062508       |
| 6           | 2-1/2        | 7200           | 3-1/4             | 3/4              | NY/MDP062512       |
| 6           | 3            | 10,000         | 3-1/2             | 3/4              | NY/MDP063012       |
| 8           | 2-1/2        | 7000           | 3                 | 1/2              | NY/MDP082508       |
| 8           | 2-1/2        | 7200           | 3-1/4             | 3/4              | NY/MDP082512       |
| 8           | 3            | 10,000         | 3-1/2             | 3/4              | NY/MDP083012       |
| 8           | 3            | 10,000         | 3-1/2             | 1                | NY/MDP083016       |
| 8           | 4            | 10,000         | 4-1/2             | 1-1/4            | NY/MDP084020       |
| 10          | 2-1/2        | 7200           | 2-3/4             | 1/2              | NY/MDP102508       |
| 10          | 2-1/2        | 7200           | 3                 | 3/4              | NY/MDP102508       |
| 10          | 3            | 10,000         | 3-1/2             | 3/4              | NY/MDP103012       |
| 10          | 4            | 12,000         | 4-1/2             | 1                | NY/MDP104016       |
| 10          | 4            | 12,000         | 4-1/2             | 1-1/4            | NY/MDP104020       |
| 12          | 2-1/2        | 8000           | 3                 | 3/4              | NY/MDP122512       |
| 12          | 3            | 11,000         | 3-1/2             | 3/4              | NY/MDP123012       |
| 12          | 4            | 14,000         | 4-1/2             | 1                | NY/MDP124016       |
| 12          | 4            | 14,000         | 4-1/2             | 1-1/4            | NY/MDP124020       |
| 12          | 5            | 18,000         | 5-1/2             | 1-1/4            | NY/MDP125020       |

\*Change NY/MD in the Wheel Part Number to NY/HSB for High Temp.

Capacities can be increased by increasing the size of the precision bearings or by providing double row precision bearings.

End caps provided with each wheel to fit in rig width and size of the axle.

**Can be made to metric sizes.**



## NYLACRON™ WHEELS NY/MD AND NY/HSB

Capacity Up to 26,400 lbs.



**Heavy Duty Nylacron™ Wheels** are made of tough, hard, highly compressed cast polyamide, MD (MoS<sub>2</sub>) filled or heat stabilized (high temp blue) to replace Steel, Phenolic, Solid Elastomer and Urethane Wheels, where very high load capacities, floor protection, low rolling resistance, impact proof, corrosive resistance and floor conditions allow. The casting process increases the load capacity compared to injection-molded nylon and has better properties in regard to tension and pressure, modulus of elasticity, thermoform stability, coefficient of friction, flow properties and absorption of humidity.

*Any size and type precision tapered or ball bearing available.*



### Features

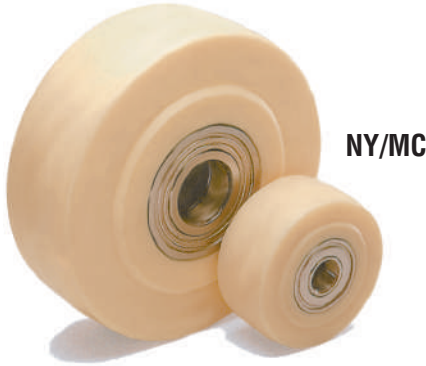
- **Ergonomic:** Extraordinarily easy to push - no more backaches - less power to tow.
- **Wheels:** Wheel dampens shock and vibration thus reducing noise.
- **High Impact Strength:** Resists fracture from repeated shock loads.
- **Higher Loads:** Mechanical strength supports greater weight and allows better utilization in caster rigs.
- **Higher Resilience:** Wheel returns to original shape without deforming when deflected by loads or rapidly applied stresses.
- **High Caster Ratings:** Higher wheel ratings allow better utilization of caster rig ratings.
- **Floor Protective:** Material does not damage floors and is lighter in weight than steel.
- **Longer Life:** Shows minimal wear in extended use—resists abrasion, water and many hazardous chemicals. Ideal for stainless steel rig applications.
- **Lower Maintenance:** Sealed precision bearings and wheels greatly reduce in-plant maintenance requirements. Only one type wheel needed.
- **Hardness:** 112-120 Rockwell R
- **Temperature range:** - 30 to + 220 ° F Continuous - 30 to + 400 ° F Continuous NY/HT (3" to 8")
- **Chemical Resistance:** See chart for wide range of chemical resistance.

### Applications

- Aerospace
- AGV
- Amusement Rides
- Automotive
- Bakeries
- Chemical Plants
- Conveyor
- Crane
- Dairy
- Fisheries
- Food
- Meat Processing
- Monorail Conveyors
- Pharmaceutical
- Retrieval Systems
- Storage Racks
- Towlines
- Turning Platforms

## NYLACRON™ MC (NY/MC)

**Capacity** Up to 26,400 lbs.



### Nylacron™ Monocast (NY/MC) Natural Wheels

are an unfilled cast type 6 nylon developed on proven in the field for FDA application requirements. Wheels are straight sided and precision machined on CNC equipment to exact tolerances and comply with section 177.1500 of food additive regulations. Stainless steel precision ball bearings are available for every wheel. Other than the type material, loadings and other characteristics are similar to Nylacron™ MD.

*Any size and type precision tapered or ball bearing available.*

### Features

- **Ergonomic:** Extraordinarily easy to push. No more backaches - less power to tow.
- **Quiet:** Wheel dampens shock and vibration thus reducing noise.
- **High Impact Strength:** Resists fracture from repeated shock loads.
- **Higher Loads:** Mechanical strength supports greater weight and allows better utilization in caster rigs.
- **Higher Resilience:** Wheel returns to original shape without deforming when deflected by loads or rapidly applied stresses.
- **High Caster Ratings:** Higher wheel ratings allow better utilization of caster rig ratings.
- **Floor Protective:** Material does not damage floors and is lighter in weight than steel.
- **Longer Life:** Shows minimal wear in extended use. Resists abrasion, water and many hazardous chemicals. Ideal for stainless steel rig applications.
- **Lower Maintenance:** Sealed precision bearings and wheels greatly reduce in-plant maintenance requirements. Only one type wheel needed.
- **Hardness:** 112-120 Rockwell R.
- **Temperature range:** - 30 to + 220 ° F Continuous.
- **Chemical Resistance:** See chart for wide range of chemical resistance.

### Applications

- Aerospace
- AGV
- Amusement Rides
- Automotive
- Bakeries
- Chemical Plants
- Conveyor
- Crane
- Dairy
- Fisheries
- Food
- Meat Processing
- Monorail Conveyors
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- Storage Racks
- Towlines
- Turning Platforms

All information is based on Acorn's 20 years experience working with the producers of the cast polyamides to successfully provide Nylacron™ wheels for the industries where the properties of this material offers many benefits.

**NATURAL WHEELS ARE ALSO AVAILABLE IN FLANGED / V-GROOVE AND CUSTOM SIZES TO 51" DIAMETER TO MEET JOB REQUIREMENTS.**

**Nylacron™ Wheels design and manufactured by Acorn™ available in any size to fit any caster rig or wheel application and replace any type wheel.**

| Dia. (inch) | Width (inch) | Capacity (lbs) | Hub Length (inch) | Axle Bore (inch) | Wt. (lbs) | Wheel Part Number |
|-------------|--------------|----------------|-------------------|------------------|-----------|-------------------|
| 3           | 1-1/4        | 440            | 1-1/2             | 3/8              | 1         | NY/MCP032506      |
| 4           | 1-1/4        | 550            | 1-1/2             | 3/8              | 1.5       | NY/MCP042506      |
| 5           | 1-1/4        | 660            | 1-1/2             | 3/8              | 2         | NY/MCP052506      |
| 6           | 1-1/4        | 770            | 1-1/2             | 3/8              | 3         | NY/MCP062506      |
| 3           | 2            | 1000           | 2-3/16            | 1/2              | 1.5       | NY/MCP032008      |
| 4           | 2            | 2000           | 2-3/16            | 1/2              | 2         | NY/MCP042008      |
| 5           | 2            | 2000           | 2-3/16            | 1/2              | 3         | NY/MCP052008      |
| 6           | 2            | 2000           | 2-3/16            | 1/2              | 4         | NY/MCP0620-08     |
| 8           | 2            | 2400           | 2-3/16            | 1/2              | 5         | NY/MCP082008      |
| 6           | 2-1/2        | 5000           | 2-3/4             | 1/2              | 5         | NY/MCP062508      |
| 6           | 2-1/2        | 7200           | 3-1/4             | 3/4              | 5         | NY/MCP062512      |
| 6           | 3            | 10,000         | 3-1/2             | 3/4              | 6         | NY/MCP063012      |
| 8           | 2-1/2        | 7000           | 3                 | 1/2              | 6         | NY/MCP082508      |
| 8           | 2-1/2        | 7200           | 3-1/4             | 3/4              | 6         | NY/MCP082512      |
| 8           | 3            | 10,000         | 3-1/2             | 3/4              | 8         | NY/MCP083012      |
| 8           | 3            | 10,000         | 3-1/2             | 1                | 8         | NY/MCP083016      |
| 8           | 4            | 10,000         | 4-1/2             | 1-1/4            | 9         | NY/MCP084020      |
| 10          | 2-1/2        | 7200           | 2-3/4             | 1/2              | 7         | NY/MCP102508      |
| 10          | 2-1/2        | 7200           | 3                 | 3/4              | 7         | NY/MCP102512      |
| 10          | 3            | 10,000         | 3-1/2             | 3/4              | 8         | NY/MCP103012      |
| 10          | 4            | 12,000         | 4-1/2             | 1                | 9         | NY/MCP104016      |
| 10          | 4            | 12,000         | 4-1/2             | 1-1/4            | 9         | NY/MCP104020      |
| 12          | 2-1/2        | 8000           | 3                 | 3/4              | 8         | NY/MCP122512      |
| 12          | 3            | 11,000         | 3-1/2             | 3/4              | 9         | NY/MCP123012      |
| 12          | 4            | 14,000         | 4-1/2             | 1                | 10        | NY/MCP124016      |
| 12          | 4            | 14,000         | 4-1/2             | 1-1/4            | 10        | NY/MCP124020      |
| 12          | 5            | 18,000         | 3                 | 1-1/4            | 11        | NY/MCP125020      |

**CAPACITIES CAN BE INCREASED BY INCREASING THE SIZE OF THE PRECISION BEARINGS OR BY PROVIDING DOUBLE ROW PRECISION BEARINGS.**

## NYLACRON™ MD/FLANGED NY/NL & NY/ND

Capacity Up to 3000 lbs.



**Nylacron™ Wheel**  
Available as Single Flanged  
or Double Flanged

**Heavy Duty Nylacron™ Flanged Wheels** are straight sided and designed to operate quietly on steel track. All are precision machined on CNC equipment for concentricity and ensure proper tracking. Wheels are made of tough, hard, highly compressed cast polyamide, (MoS<sub>2</sub>) filled, heat stabilized and designed to replace Steel, Phenolics, Solid Elastomers and Urethane Wheels in flanged applications, where very high load capacities, low rolling resistance, impact proof, corrosive resistance and speed conditions allow.

**Custom requirements to drawings available.**

*Any size and type precision tapered or ball bearing available.*

### Features

- **Ergonomic:** Extraordinarily easy to push. No more backaches - less power to tow.
- **Quiet:** Wheel dampens shock and vibration thus reducing noise.
- **High Impact Strength:** Resists fracture from repeated shock loads.
- **Higher Loads:** Mechanical strength supports greater weight and allows better utilization in caster rigs.
- **Higher Resilience:** Wheel returns to original shape without deforming when deflected by loads or rapidly applied stresses.
- **High Caster Ratings:** Higher wheel ratings allow better utilization of caster rig ratings.
- **Floor Protective:** Material does not damage floors and is lighter in weight than steel.
- **Longer Life:** Shows minimal wear in extended use. Resists abrasion, water and many hazardous chemicals. Ideal for stainless steel rig applications.
- **Lower Maintenance:** Sealed precision bearings and wheels greatly reduce in-plant maintenance requirements. Only one type wheel needed.
- **Hardness:** 112-120 Rockwell R.
- **Temperature range:** - 30 to + 220 ° F Continuous.
- **Chemical Resistance:** See chart for wide range of chemical resistance.

### Applications

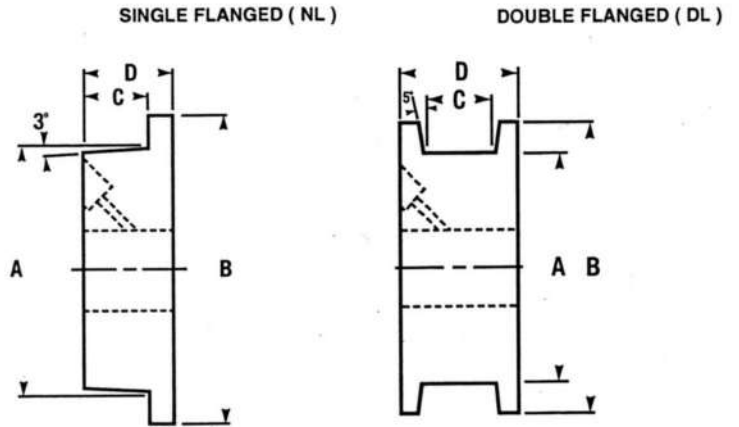
- Aerospace
- Amusement Rides
- Automotive
- Bakeries
- Dairy
- Meat Processing
- Fisheries
- Food Processing
- Pharmaceutical
- Turning Platforms
- Towlines

# NYLACRON™ MD/FLANGED

All information is based on Acorn's 20 years experience working with the producers of the cast polyamides to successfully provide Nylacron™ wheels for the industries where the properties of this material offers many benefits.

**Nylacron™ Wheels design and manufactured by Acorn™ available in any size to fit any caster rig or wheel application and replace any type wheel.**

STANDARD FLAT  
3 DEG SLOPE OPTIONAL



| Face Dia. A | Flange OD B | Flange Width C | OAW Width D | Hub Length (inch) | Material Type | Load Capacity (lbs) | Axle Size (inch) | Approx Weight (lbs) | Part Number (P) Prec Ball Brg (T) Tapered Brg |
|-------------|-------------|----------------|-------------|-------------------|---------------|---------------------|------------------|---------------------|---|
| 5"          | 6"          | 1-3/4"         | 2"          | 2-3/16"           | Nylacron™     | 1300                | 1/2              | 3                   | NY/NLP052012                                  |
| 5"          | 6"          | 1-3/4"         | 2"          | 2-3/16"           | Nylacron™     | 1300                | 1/2              | 3                   | NY/NLT052008                                  |
| 5"          | 6"          | 1"             | 1-1/2"      | 2-3/16"           | Nylacron™     | 1100                | 1/2              | 3                   | NY/DLP051512                                  |
| 5"          | 6"          | 1"             | 1-1/2"      | 2-3/16"           | Nylacron™     | 1100                | 1/2              | 3                   | NY/DLT051508                                  |
| 6"          | 6-3/4"      | 1-3/4"         | 2"          | 2-3/16"           | Nylacron™     | 1600                | 1/2              | 4                   | NY/NLP062012                                  |
| 6"          | 6-3/4"      | 1-3/4"         | 2"          | 2-3/16"           | Nylacron™     | 1600                | 1/2              | 4                   | NY/NLT062008                                  |
| 8"          | 9-1/2"      | 2"             | 2-1/2"      | 2-3/4"            | Nylacron™     | 2500                | 3/4              | 7                   | NY/NLP082516                                  |
| 8"          | 9-1/2"      | 2"             | 2-1/2"      | 2-3/4"            | Nylacron™     | 2500                | 3/4              | 7                   | NY/NLT082512                                  |
| 10"         | 12"         | 2-5/8"         | 3"          | 3-1/4"            | Nylacron™     | 3000                | 3/4              | 8                   | NY/NLP103016                                  |
| 10"         | 12"         | 2-5/8"         | 3"          | 3-1/4"            | Nylacron™     | 3000                | 3/4              | 8                   | NY/NLT103012                                  |
| 10"         | 12"         | 2-1/4"         | 3"          | 3-1/4"            | Nylacron™     | 2000                | 3/4              | 8                   | NY/DLP103016                                  |
| 10"         | 12"         | 2-1/4"         | 3"          | 3-1/4"            | Nylacron™     | 2000                | 3/4              | 8                   | NY/DLT105012                                  |

**CAPACITIES CAN BE INCREASED BY INCREASING THE SIZE OF THE PRECISION BEARINGS OR BY PROVIDING DOUBLE ROW PRECISION BEARINGS.**

**Nylacron™ Wheels can be made to any steel or cast iron size.**



## NYLACRON™ MONOCAST/ V-GROOVE - NY/MC/VG

Capacity Up to 26,00 lbs.



**Nylacron™ Monocast (NY/MC/VG) V-Groove Wheels** are straight sided and designed to operate quietly on steel track. All are precision machined on CNC equipment for concentricity and ensure proper tracking. Wheels are made of tough hard, highly compressed cast polyamide, (MoS<sub>2</sub>) filled, heat stabilized and designed to replace Steel, Phenolics, Solid Elastomers and Urethane Wheels in V-groove applications where very high load capacities, low rolling resistance, impact proof, corrosive resistance and speed conditions allow.

### Available in black MD

**CUSTOM REQUIREMENTS TO DRAWINGS ARE AVAILABLE.**

*Any size and type precision tapered or ball bearing available.*

## Features

- **Ergonomic:** Extraordinarily easy to push. No more backaches - less power to tow.
- **Quiet:** Wheel dampens shock and vibration thus reducing noise.
- **High Impact Strength:** Resists fracture from repeated shock loads.
- **Higher Loads:** Mechanical strength supports greater weight and allows better utilization in caster rigs.
- **Higher Resilience:** Wheel returns to original shape without deforming when deflected by loads or rapidly applied stresses.
- **High Caster Ratings:** Higher wheel ratings allow better utilization of caster rig ratings.
- **Floor Protective:** Material does not damage floors and is lighter in weight than steel.
- **Longer Life:** Shows minimal wear in extended use. Resists abrasion, water and many hazardous chemicals. Ideal for stainless steel rig applications.
- **Lower Maintenance:** Sealed precision bearings and wheels greatly reduce in-plant maintenance requirements. Only one type wheel needed.
- **Hardness:** 112-120 Rockwell R.
- **Temperature range:** - 30 to + 220 ° F Continuous.
- **Chemical Resistance:** See chart for wide range of chemical resistance.

## Applications

- Aerospace
- Amusement Rides
- Automotive
- Bakeries
- Dairy
- Meat Processing
- Fisheries
- Food Processing
- Pharmaceutical
- Turning Platforms
- Towlines

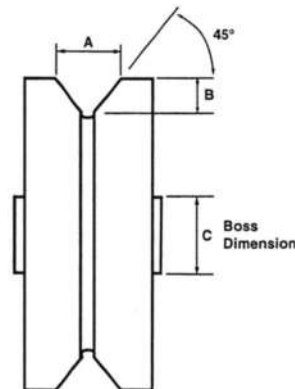
# NYLACRON™ MC/V-GROOVE

All information is based on Acorn's 20 years experience working with the producers of the cast Polyamides to successfully provide Nylacron™ wheels for the industries where the properties of this material offers many benefits. **CAPACITIES**

**CAN BE INCREASED BY INCREASING THE SIZE OF THE PRECISION BEARINGS OR BY PROVIDING DOUBLE ROW PRECISION BEARINGS.**

**Nylacron™ Wheels design and manufactured by Acorn™ available in any size to fit any caster rig or wheel application and replace any type wheel.**

| Wheel Dia. A | Width B | V-Groove Width WV | V-Groove Depth DV | Hub Length (inch) | Material Type  | Load Capacity (lbs) | Axle Size (inch) | Approx Weight (lbs) | Part Number (P) Precision Ball Bearings |
|--------------|---------|-------------------|-------------------|-------------------|----------------|---------------------|------------------|---------------------|---|
| 4"           | 2"      | 7/8"              | 7/16"             | 2-7/16"           | (NV) Nylacron™ | 1000                | 1/2              | 2                   | NY/MC/VGP042012                         |
| 5"           | 2"      | 7/8"              | 7/16"             | 2-7/16"           | (NV) Nylacron™ | 1300                | 1/2              | 3                   | NY/MC/VGP052012                         |
| 6"           | 2"      | 7/8"              | 7/16"             | 2-7/16"           | (NV) Nylacron™ | 1500                | 1/2              | 4                   | NY/MC/VGP062012                         |
| 8"           | 2"      | 7/8"              | 7/16"             | 2-7/16"           | (NV) Nylacron™ | 2000                | 1/2              | 6                   | NY/MC/VGP082012                         |
| 8"           | 2-1/2"  | 7/8"              | 7/16"             | 2-3/4"            | (NV) Nylacron™ | 2100                | 3/4              | 7                   | NY/MC/VGP082516                         |
| 8"           | 2-1/2"  | 7/8"              | 7/16"             | 2-3/4"            | (NV) Nylacron™ | 2100                | 3/4              | 7                   | NY/MC/VGP082516                         |
| 10"          | 2-1/2"  | 7/8"              | 7/16"             | 2-3/4"            | (NV) Nylacron™ | 2400                | 3/4              | 9                   | NY/MC/VGP102516                         |
| 10"          | 2-1/2"  | 7/8"              | 7/16"             | 2-3/4"            | (NV) Nylacron™ | 2400                | 3/4              | 9                   | NY/MC/VGP102512                         |
| 8"           | 3"      | 1-3/8"            | 11/16"            | 3-1/2"            | (NV) Nylacron™ | 2200                | 3/4              | 9                   | NY/MC/VGP083016                         |
| 8"           | 3"      | 1-3/8"            | 11/16"            | 3-1/2"            | (NV) Nylacron™ | 2200                | 3/4              | 9                   | NY/MC/VGP083016                         |
| 10"          | 3"      | 1-3/8"            | 11/16"            | 3-1/2"            | (NV) Nylacron™ | 2600                | 3/4              | 11                  | NY/MC/VGP103016                         |
| 10"          | 3"      | 1-3/8"            | 11/16"            | 3-1/2"            | (NV) Nylacron™ | 2600                | 3/4              | 11                  | NY/MC/VGP103012                         |



**NYLACRON WHEELS CAN BE MADE TO ANY STEEL OR CAST IRON STANDARD  
SEE FLANGED STEEL WHEEL SECTION FOR DIMENSIONS**

# WHITE NYLACRON™ WHEELS

## EURO (MM) DIMENSIONS



NY/MC/1 SERIES

| Item #              | Diameter (mm) | Wheel Width (mm) | Hub Length (mm) | Hub Diameter (mm) | Bore Hole (mm) | Load Capacity (kg) |
|---------------------|---------------|------------------|-----------------|-------------------|----------------|--------------------|
| NYMC/040/033/1/10   | 40            | 33               | 35              | 17                | 10             | 80                 |
| NYMC/045/019/1/10   | 45            | 19               | 22              | 16                | 10             | 70                 |
| NYMC/050/017/1/10-1 | 50            | 17               | 20              | 26                | 10             | 150                |
| NYMC/050/017/1/10-2 | 50            | 17               | 19              | 20                | 10             | 140                |
| NYMC/050/019/1/06   | 50            | 19               | 27              | 13                | 06             | 100                |
| NYMC/050/025/1/10   | 50            | 25               | 30              | 18                | 10             | 150                |
| NYMC/060/020/1/10   | 60            | 20               | 25              | 20                | 10             | 150                |
| NYMC/065/030/1/10   | 65            | 30               | 35              | 20                | 10             | 170                |
| NYMC/070/030/1/10   | 70            | 30               | 40              | 25                | 10             | 200                |
| NYMC/075/023/1/15   | 75            | 23               | 25              | 30                | 15             | 200                |
| NYMC/080/035/1/15   | 80            | 35               | 37              | 30                | 15             | 300                |
| NYMC/080/035/1/20   | 80            | 35               | 35              | 50                | 20             | 300                |
| NYMC/100/030/1/10   | 100           | 30               | 40              | 35                | 10             | 300                |
| NYMC/100/040/1/15   | 100           | 40               | 50              | 48                | 15             | 450                |
| NYMC/100/050/1/15   | 100           | 50               | 60              | 55                | 15             | 600                |
| NYMC/125/040/1/15   | 125           | 40               | 53              | 60                | 15             | 600                |
| NYMC/125/050/1/15   | 125           | 50               | 60              | 56                | 15             | 700                |
| NYMC/125/050/1/20   | 125           | 50               | 60              | 56                | 20             | 700                |
| NYMC/150/040/1/15   | 150           | 40               | 50              | 35                | 15             | 450                |
| NYMC/150/040/1/20   | 150           | 40               | 53              | 65                | 20             | 700                |
| NYMC/150/050/1/20-1 | 150           | 50               | 55              | 65                | 20             | 600                |
| NYMC/150/050/1/20-2 | 150           | 50               | 60              | 62                | 20             | 800                |
| NYMC/160/050/1/20   | 160           | 50               | 60              | 63                | 20             | 850                |
| NYMC/175/040/1/20   | 175           | 40               | 57              | 65                | 20             | 800                |
| NYMC/175/050/1/20   | 175           | 50               | 55              | 65                | 20             | 750                |
| NYMC/200/040/1/15   | 200           | 40               | 50              | 45                | 15             | 750                |
| NYMC/200/040/1/20   | 200           | 40               | 58              | 65                | 20             | 1.000              |
| NYMC/200/050/1/20-1 | 200           | 50               | 55              | 65                | 20             | 1.000              |
| NYMC/200/050/1/20-2 | 200           | 50               | 60              | 65                | 20             | 1.200              |
| NYMC/200/050/1/25   | 200           | 50               | 60              | 65                | 25             | 1.200              |
| NYMC/250/050/1/20   | 250           | 50               | 60              | 65                | 20             | 1.500              |
| NYMC/250/050/1/25   | 250           | 50               | 60              | 65                | 25             | 1.500              |
| NYMC/250/060/1/25   | 250           | 60               | 65              | 90                | 25             | 1.500              |
| NYMC/300/060/1/30   | 300           | 60               | 70              | 92                | 30             | 2.000              |

### NYLACRON™ wheels with plain bearing.

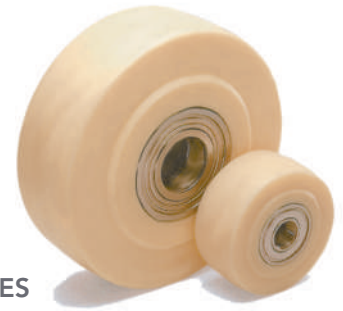
High-quality thermoplastic polyamide. Wheels in heavy-duty design with maintenance-free plain bearing.

25.4 mm = 1 inch 1 kg = 2.2 lbs

All wheels can be adapted to fit in U.S. caster rigs.

# WHITE NYLACRON™ WHEELS

## EURO (MM) DIMENSIONS



NY/MC/5 SERIES

| Item #              | Diameter (mm) | Wheel Width (mm) | Hub Length (mm) | Fixing Length (mm) | Hub Diameter (mm) | Bore Hole (mm) | Load Capacity (kg) |
|---------------------|---------------|------------------|-----------------|--------------------|-------------------|----------------|--------------------|
| NYMC/080/035/5/15   | 80            | 35               | 35              | 33                 | 50                | 12             | 300                |
| NYMC/100/040/5/12   | 100           | 40               | 50              | 43                 | 48                | 12             | 450                |
| NYMC/100/040/5/17   | 100           | 40               | 50              | 50                 | 48                | 17             | 450                |
| NYMC/100/050/5/20   | 100           | 50               | 60              | 60                 | 55                | 20             | 600                |
| NYMC/120/050/5/20   | 120           | 50               | 58              | 56                 | 58                | 20             | 600                |
| NYMC/125/040/5/20   | 125           | 40               | 53              | 53                 | 60                | 20             | 600                |
| NYMC/125/050/5/20   | 125           | 50               | 60              | 62                 | 70                | 20             | 700                |
| NYMC/150/040/5/20   | 150           | 40               | 53              | 51                 | 65                | 20             | 700                |
| NYMC/150/050/5/12   | 150           | 50               | 55              | 60                 | 65                | 15             | 600                |
| NYMC/150/050/5/20-1 | 150           | 50               | 55              | 53                 | 65                | 20             | 600                |
| NYMC/150/050/5/20-2 | 150           | 50               | 60              | 62                 | 76                | 20             | 800                |
| NYMC/160/040/5/20   | 160           | 40               | 60              | 58                 | 60                | 20             | 600                |
| NYMC/175/050/5/20   | 175           | 50               | 55              | 53                 | 65                | 20             | 800                |
| NYMC/200/050/5/12   | 200           | 50               | 55              | 60                 | 65                | 15             | 1.000              |
| NYMC/200/050/5/20   | 200           | 50               | 60              | 60                 | 85                | 20             | 1.200              |
| NYMC/200/065/5/25   | 200           | 65               | 74              | 72                 | 80                | 25             | 1.300              |
| NYMC/250/050/5/25   | 250           | 50               | 60              | 60                 | 92                | 25             | 1.500              |
| NYMC/250/060/5/25   | 250           | 60               | 65              | 63                 | 90                | 25             | 1.500              |
| NYMC/300/060/5/25   | 300           | 60               | 70              | 68                 | 93                | 25             | 2.000              |

**NYLACRON™** wheels with ball bearing. High-quality thermoplastic polyamide. Wheels in heavy-duty design with ball bearing.

25.4 mm = 1 inch 1 kg = 2.2 lbs

**CUSTOM SIZES AVAILABLE**

**All wheels can be adapted to fit in U.S. caster rigs.**

# HEAVY DUTY INDUSTRIAL STAINLESS STEEL CASTERS WITH NYLACRON™ WHEELS EURO (MM) DIMENSIONS



NR SERIES

NRS SERIES

**NS Heavy-Duty  
Stainless Steel  
SWIVEL CASTER  
NYLACRON™  
WHEELS.**

**NR Heavy-Duty  
Stainless Steel  
RIGID CASTER  
NYLACRON™  
WHEELS.**

**NTL Heavy-Duty  
Stainless Steel  
TOTAL LOCK  
CASTER  
NYLACRON™  
WHEELS.**

| Item #         | Diameter (mm) | Wheel Width (mm) | Overall Height (mm) | Top Plate Size (mm) | Bolt Hole Spacing (mm) | Bolt Hole Diameter (mm) | Offset (mm) | Load Capacity (kg) |
|----------------|---------------|------------------|---------------------|---------------------|------------------------|-------------------------|-------------|--------------------|
| NSSS/080/35/5L | 80            | 35               | 118                 | 105 x 85            | 80 x 60                | 9                       | 40          | 300                |
| NSSS/100/40/5L | 100           | 40               | 140                 | 105 x 85            | 80 x 60                | 9                       | 45          | 350                |
| NSSS/100/50/5L | 100           | 50               | 148                 | 135 x 110           | 105 x 80               | 11                      | 50          | 600                |
| NSSS/125/40/5L | 125           | 40               | 165                 | 105 x 85            | 80 x 60                | 9                       | 45          | 350                |
| NSSS/125/50/5  | 125           | 50               | 178                 | 135 x 110           | 105 x 80               | 11                      | 50          | 700                |
| NSSS/150/50/5  | 150           | 50               | 205                 | 135 x 110           | 105 x 80               | 11                      | 50          | 750                |
| NSSS/175/50/5  | 175           | 50               | 228                 | 135 x 110           | 105 x 80               | 11                      | 50          | 750                |
| NSSS/200/50/5  | 200           | 50               | 250                 | 135 x 110           | 105 x 80               | 11                      | 55          | 750                |
| NSSS/250/50/5  | 250           | 50               | 307                 | 160 x 120           | 160 x 120              | 15                      | 63          | 1.000              |
| NSSS/300/60/5  | 300           | 60               | 347                 | 160 x 120           | 160 x 120              | 15                      | 73          | 1.400              |

| Item #         | Diameter (mm) | Wheel Width (mm) | Overall Height (mm) | Top Plate Size (mm) | Bolt Hole Spacing (mm) | Bolt Hole Diameter (mm) | Offset (mm) | Load Capacity (kg) |
|----------------|---------------|------------------|---------------------|---------------------|------------------------|-------------------------|-------------|--------------------|
| NRSS/080/35/5L | 80            | 35               | 118                 | 105 x 85            | 80 x 60                | 9                       | 40          | 300                |
| NRSS/100/40/5L | 100           | 40               | 140                 | 105 x 85            | 80 x 60                | 9                       | 45          | 350                |
| NRSS/100/50/5L | 100           | 50               | 148                 | 135 x 110           | 105 x 80               | 11                      | 50          | 600                |
| NRSS/125/40/5L | 125           | 40               | 165                 | 105 x 85            | 80 x 60                | 9                       | 45          | 350                |
| NRSS/125/50/5  | 125           | 50               | 178                 | 135 x 110           | 105 x 80               | 11                      | 50          | 700                |
| NRSS/150/50/5  | 150           | 50               | 205                 | 135 x 110           | 105 x 80               | 11                      | 50          | 750                |
| NRSS/175/50/5  | 175           | 50               | 228                 | 135 x 110           | 105 x 80               | 11                      | 50          | 750                |
| NRSS/200/50/5  | 200           | 50               | 250                 | 135 x 110           | 105 x 80               | 11                      | 55          | 750                |
| NRSS/250/50/5  | 250           | 50               | 307                 | 160 x 120           | 160 x 120              | 15                      | 63          | 1.000              |
| NRSS/300/60/5  | 300           | 60               | 347                 | 160 x 120           | 160 x 120              | 15                      | 73          | 1.400              |

| Item #          | Diameter (mm) | Wheel Width (mm) | Overall Height (mm) | Top Plate Size (mm) | Bolt Hole Spacing (mm) | Bolt Hole Diameter (mm) | Offset (mm) | Load Capacity (kg) |
|-----------------|---------------|------------------|---------------------|---------------------|------------------------|-------------------------|-------------|--------------------|
| NTLSS/080/35/5L | 80            | 35               | 118                 | 105 x 85            | 80 x 60                | 9                       | 40          | 300                |
| NTLSS/100/40/5L | 100           | 40               | 140                 | 105 x 85            | 80 x 60                | 9                       | 45          | 350                |
| NTLSS/100/50/5L | 100           | 50               | 148                 | 135 x 110           | 105 x 80               | 11                      | 50          | 600                |
| NTLSS/125/40/5L | 125           | 40               | 165                 | 105 x 85            | 80 x 60                | 9                       | 45          | 350                |
| NTLSS/125/50/5  | 125           | 50               | 178                 | 135 x 110           | 105 x 80               | 11                      | 50          | 700                |
| NTLSS/150/50/5  | 150           | 50               | 205                 | 135 x 110           | 105 x 80               | 11                      | 50          | 750                |
| NTLSS/175/50/5  | 175           | 50               | 228                 | 135 x 110           | 105 x 80               | 11                      | 50          | 750                |
| NTLSS/200/50/5  | 200           | 50               | 250                 | 135 x 110           | 105 x 80               | 11                      | 55          | 750                |
| NTLSS/250/50/5  | 250           | 50               | 307                 | 160 x 120           | 160 x 120              | 15                      | 63          | 1.000              |
| NTLSS/300/60/5  | 300           | 60               | 347                 | 160 x 120           | 160 x 120              | 15                      | 73          | 1.400              |

25.4 mm = 1 inch 1 kg = 2.2 lbs



## NYLACRON™ ERGONOMIC TEST RESULTS FROM AN INDEPENDENT FORTUNE 500 CUSTOMER TEST.

| FORCE/STRAIN MEASUREMENTS FOR 9C BASE ROLL CARTS.  |                        |                 |                              |                               |
|--|------------------------|-----------------|------------------------------|-------------------------------|
| PUSHING FORCE REQUIRED (KG)                        | WHEEL TYPE             |                 |                              |                               |
| Foces measured using Chatillon DPPH-50 Force Gage  | Current (Black Albion) | Black Nylacron™ | Swivel EAZ Dual Wheel - grey | Swivel EAZ Dual Wheel - black |
| Static Force                                       | 11-13                  | 9-12            | 14-15                        | 15-16                         |
| Force required to keep cart moving, once in motion | 4-5                    | 2-4             | 5-6                          | 8-10                          |
| PUSHING FORCE REQUIRED (KG)                        | WHEEL TYPE             |                 |                              |                               |
| Foces measured using Chatillon DPPH-50 Force Gage  | Current (Black Albion) | Black Nylacron™ | Swivel EAZ Dual Wheel - grey | Swivel EAZ Dual Wheel - black |
| Static Force                                       | 14-16                  | 9-12            | 15                           | 25                            |
| Force required to keep cart moving, once in motion | 3-4                    | 2-4             | 5-6                          | 10                            |
| Turning Force                                      | 20                     | 20              | 19-20                        | 25                            |

# NYLACRON™ SPEED CORRECTION

| WHEEL    | MPH**  | MPH CORRECTION FACTOR | LOAD RATING |
|----------|--------|-----------------------|-------------|
| 4 X 2    | 0.38 * | 1.00                  | 2400        |
|          | 2.00   | 0.82                  | 1968        |
|          | 4.00   | 0.63                  | 1512        |
| 5 X 2    | 0.42 * | 1.00                  | 3000        |
|          | 2.00   | 0.71                  | 2130        |
|          | 4.00   | 0.52                  | 1560        |
| 6 X 2    | 0.61 * | 1.00                  | 3320        |
|          | 2.00   | 0.68                  | 2258        |
|          | 4.00   | 0.54                  | 1793        |
| 8 X 2    | 0.79*  | 1.00                  | 3320        |
|          | 2.00   | 0.75                  | 2490        |
|          | 4.00   | 0.64                  | 2125        |
| 8 X 2.5  | 0.79*  | 1.00                  | 6000        |
|          | 2.00   | 0.89                  | 5340        |
|          | 4.00   | 0.76                  | 4560        |
| 10 X 2.5 | 0.98*  | 1.00                  | 7140        |
|          | 2.00   | 0.82                  | 5855        |
|          | 4.00   | 0.65                  | 4641        |
| 6 X 3    | 0.61*  | 1.00                  | 5400        |
|          | 2.00   | 1.00                  | 5400        |
|          | 4.00   | 1.00                  | 5400        |
| 8 X 3    | 0.79*  | 1.00                  | 7200        |
|          | 2.00   | 1.00                  | 7200        |
|          | 4.00   | 1.00                  | 7200        |
| 10 X 3   | 0.98*  | 1.00                  | 9000        |
|          | 2.00   | 1.00                  | 9000        |
|          | 4.00   | 1.00                  | 9000        |

\* MPH @ 33-1/3 RPM

\*\* All speeds in chart are under 500 RPM

MPH = RPM x Wheel Circumference (FT)  
x 60 Min/Hour x Mile / 5280

**EXAMPLE:**

Find MPH for 4 X 2 wheel going 33.33 RPM:  
MPH = 33.33 REV/MIN x 1.04 FT/REV x 60 Min/Hour  
x Mile / 5280 FT = .38 MPH

## Applications

- Food Processing
- Dairies
- Meat Processing
- Automotive
- Turning Platforms
- Towlines
- Bakeries
- Fisheries
- Pharmaceutical
- Aerospace
- Amusement Rides

# NYLACRON™ CHEMICAL RESISTANCE

The following chemicals are considered compatible with Nylacron™ wheels. This is a general guide only, since there are many other chemicals compatible with these wheels. Field testing is recommended to confirm these recommendations.

**Call Acorn™ (Toll Free) for any specific Chemical Resistance Data**

|                                   |                            |                                  |
|-----------------------------------|----------------------------|----------------------------------|
| <b>Acetic acid</b>                | <b>Ethyl alcohol</b>       | <b>Petrol</b>                    |
| <b>Acetone</b>                    | <b>Ether</b>               | <b>Petroleum</b>                 |
| <b>Amyl acetate</b>               | <b>Fish glue</b>           | <b>Sea water</b>                 |
| <b>Ammonia</b>                    | <b>Freon</b>               | <b>Silicone oil/grease</b>       |
| <b>Ammonia chloride</b>           | <b>Gasoline</b>            | <b>Sodium chloride solutions</b> |
| <b>Ammonia sulfate</b>            | <b>Glycerine</b>           | <b>Soy Bean oil</b>              |
| <b>Beer</b>                       | <b>Glycol</b>              | <b>Tolulene</b>                  |
| <b>Benzene</b>                    | <b>Hexane</b>              | <b>Toluol</b>                    |
| <b>Boric acid</b>                 | <b>Hydrogen sulfide</b>    | <b>Trichloroehylene</b>          |
| <b>Butyric acid</b>               | <b>Hydrochloric acid</b>   | <b>Turpentine</b>                |
| <b>Butane</b>                     | <b>Isopropyl alcohol</b>   | <b>Urea</b>                      |
| <b>Calcium chloride solutions</b> | <b>Jet fuels</b>           | <b>Vaseline</b>                  |
| <b>Carbon dioxide</b>             | <b>Linseed oil</b>         | <b>Vegetable oils</b>            |
| <b>Carbon disulphide</b>          | <b>Lubricating oils</b>    | <b>Vinyl chloride</b>            |
| <b>Carbon monoxide</b>            | <b>Lye</b>                 | <b>Water</b>                     |
| <b>Carbon tetrachloride</b>       | <b>Mercury</b>             | <b>Wax molten</b>                |
| <b>Citric acid solutions</b>      | <b>Methyl chloride</b>     | <b>White spirit</b>              |
| <b>Copper sulphate solutions</b>  | <b>Methyl ethyl ketone</b> | <b>Wines &amp; spirits</b>       |
| <b>Diesel oil</b>                 | <b>Milk</b>                | <b>Xylene</b>                    |
| <b>Edible oils</b>                | <b>Mineral oil</b>         | <b>Zinc chloride solutions</b>   |
| <b>Esters</b>                     | <b>Motor oil</b>           |                                  |
| <b>Ethanol</b>                    | <b>Olive oil</b>           |                                  |