

## High-Performance Urethane Wheels

*Custom-Engineered to Outlast and Outperform*

**High-Speed Performance** – Proprietary bonding for vibration & heat resistance

**Performs in Extreme Temperatures** – Cold storage ready

**UV-Stable** – Prevents yellowing, cracking, or degradation on products used outdoors long-term

**Custom Formulations** – Inserts, branding, optimized durometers

**Impact Resistance** – Dual-durometer construction absorbs shocks

**Non-Marking Options** – Clean floors, professional appearance (better than rubber)

**Robotics-Ready** – Ideal for AGVs, mobile platforms, and automation

**Vibration Resistant** – Performs reliably in high-vibration, high-speed environments without breakdown or delamination

### Engineered to Last. Manufactured to Scale.

- **Industry Leading Insert Molding** – Bonding processes to prevent delamination with specialty surface preparation, agent matching, and processes that minimize insert heating (expansion/contraction)
- **Prevent Delamination** – Experience and exacting standards for adhesion unlike other suppliers who under- or over-apply bonding agents
- **Spin Casting Expertise** – Delivers consistent, high-performance wheels with optimized material distribution for high-RPM applications
- **Insert Molding** – Aluminum, steel, and plastic options to meet load and environmental requirements
- **Embrittlement Resistance** – Long-life formulations for demanding cycles
- **Made in the USA** – Faster lead times and superior quality assurance



Dynatect's spin casting process yields **consistently balanced wheels** — eliminating post-grinding, **preventing heat-induced hub delamination**, and minimizing lateral vibration and wobble.



## High-Performance Urethane Wheels

*Engineered for Your Application*



**Designed for Extremes** – Dynatect wheels excel where others fail; from high-vibration automated systems to cold-storage warehouses

**Urethane Advantages** – Durability, chemical resistance, design flexibility, and non-marking options

### Industries & Applications

- Industrial Cranes / Automation
- Recreational / Outdoor
- Robotics / Security Robots
- Material Handling & AGVs
- Fire & Safety Equipment
- Medical / Cleanroom Equipment
- Food & Beverage Storage
- **Trolley Wheels?** Unique formulations to enhance grip, resist abrasion, and consistent performance through millions of surface feet of travel, high volume direction reversals, and high rpms
- **Outdoor Use?** UV-stabilized urethane resists fading and embrittlement
- **AGVs or Robots?** Precision-molded wheels with lasting tread adhesion
- **Cold Storage?** Custom durometers and metal bonding
- **Shock Loading?** Dual-durometer impact-resistant wheels

### Post Molding & Value-Added Services

- Balancing, polishing, assembly/kitting
- Inventory support / flexible volumes
- Branding (logo molding, color-matching)
- Recoating services (MRO value)



**Crane Trolley Wheels** – Dynatect provided a custom urethane formulation that would enhance the grip and improve abrasion resistance. An optimal thickness of urethane was calculated based on the performance demands provided. 3.4 million surface feet of travel with 100k direction reversals and >50 lbs of traction force.



**Let's solve your wheel challenge! Contact us:**  
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