

Streamline JIT Delivery of Tire & Wheel Assemblies

Ultimation delivers industry-leading, trailer-mounted conveyor systems designed to facilitate the sequencing of the wheel assemblies to their final assembly destination. These mobile conveyors automate loading and unloading, enabling Just-in-Time (JIT) delivery from suppliers directly to vehicle assembly docks.

KEY BENEFITS:



Guaranteed Sequence Accuracy

A single-path conveyor ensures correct build sequence.



Damage-Free Handling

Avoids rim damage typical of stacking. Accommodates large or irregular tires and mini spares in the same load.



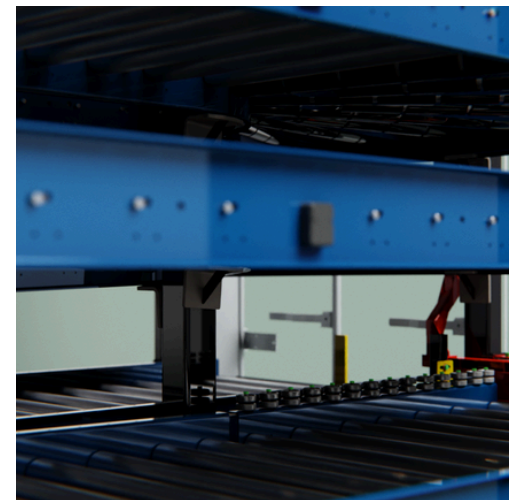
Automated Operation

Depending on application, drivers merely power the trailer and open the discharge gate—motors take over. One trailer typically handles 200–220 assemblies, reducing labor needs.



Space and Inventory Optimization

By using automated wheel delivery trailers, space is optimized inside the factory eliminating the need to use racks and facilitates lower inventory levels.



FEATURES:

Motor Driven Rollers

Silent, AC motorized rollers with no sensors needed.

Robust Construction & Serviceability

Motors stall under tension without damage; 200,000+ hour lifespan; easily serviced via side curtains and front access.

All Weather Durability

Proven dependable in harsh climates in the United States, Canada and Mexico.



ROI & OPERATIONAL GAINS:



Reduced Manual Labor

Minimal on-site handling — drivers manage setup and departure.



Minimize Errors

Automated sequencing avoids expensive assembly mistakes.



Protect Asset Integrity

Damage-resistant design saves cost on wheel replacement.



Boost Uptime

JIT delivery sustains smooth line flow; downtime costs far more than investment.



Inventory Optimization

Maximized floor space and reduced on-hand inventory lead to lower inventory costs.



Safety

Eliminating traditional racks reduces forklift use, improving overall safety.

TYPICAL SPECIFICATIONS:

- Built on standard 53 ft. triaxle step deck trailers. Custom lengths and widths are available to suit different applications.
- Conveyor Between Frame Widths: Starting at 34 inches up to 38 inches. There is a newly available option for 40 inches just developed in 2025.
- Conveyor Levels: 4 to 6 levels are available (most units are 6 levels)
- Holding Capacity: 200–220 tire and wheel assemblies, depending on size and number of levels.
- Motor Count: Up to 600+ motor driven rollers
- Motor Life: 200,000+ hours
- Materials: Rugged steel build with trailer-grade flooring
- Available Options: Internal LED lighting, single power cable connection, dock interlock, and dock ramp.



WHY CHOOSE ULTIMATION?

- **Over 30 years leading industrial conveyor design and manufacturing.**
- **Deep specialization in tire and wheel applications, including in-plant buffer systems along with mount and inflate machines.**
- **Full service: 2D and 3D CAD design, assembly, installation, spare parts, and post-installation support.**
- **Clients include Ford, General Motors, Rivian, Stellantis, and Tesla. As well as many well-known automotive third-party logistics companies.**

