

RoboTire™ Automated System



1 Precise Control

The controls cabinet, designed by Mitsubishi Electric Engineered Solutions Group, houses the PLC master and system controls. The system is monitored by artificial intelligence.

2 Wheel Mounting

Robotic wheel lifting and mounting reduces labor and keeps workers safe. Computer vision identifies studs for proper placement of wheels.

3 Lug Nut Remove/Replace

Computer vision locates the lug nuts and identifies their size. The robots remove and replace them, while ensuring that they are safely tightened.

4 Safe Work Zone

Safety sensors scan the work zone to keep workers out of harm's way.

5 Automated Wheel Storage

An automated storage and retrieval system (ASRS) stores tires and uses a hydraulic lift system via servo motion to move tires efficiently.



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