



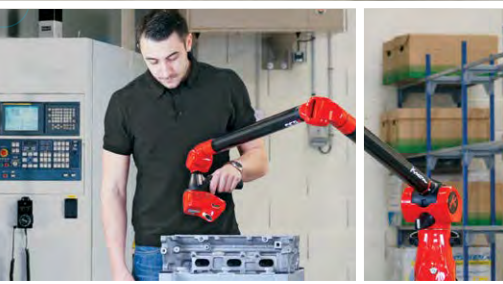
Motorized Vehicles Industry Products, Services, and Solutions



No matter what type of motorized vehicle or component you are manufacturing, the industry has the same driver: innovating to bring a high-quality, safe vehicle to market as efficiently as possible. We offer a wide range of products, services, and solutions to improve your machines and manufacturing process. We work with a number of motorized vehicle specialties including automotive, airport support equipment, material handling, agricultural equipment, mining equipment, municipal vehicles, construction and utility vehicles, rail equipment, and tire manufacturers. Cross Company has been working with vehicle manufacturers as long as we've been in business, helping them to improve quality, increase efficiency and reduce risk.

Providing Tangible Value

- **Increase efficiency:** Reduce waste and downtime in manufacturing and increase machine efficiency with the latest technology, precisely engineered for your application.
- **Reduce the risk of rework and warranty claims** by ensuring your measurement equipment is correctly calibrated and measuring accurately.
- **Improve the quality of movement** with finer controls and more precise handling.
- **Improve quality:** Better measurements yield better products, as does precise, repeatable motion.
- **Stay compliant:** Motorized vehicle standards, safety guidelines, and regulations are constantly changing. Make sure you can measure and document every part of your process to comply with the latest regulatory requirements including IATF16949.
- **Improve productivity:** Have a full-time measurement professional embedded at your facility, ready to calibrate or repair critical tooling immediately so the line doesn't stop.
- **Increase efficiency:** Precision motion control solutions automate dull or dangerous processes, making them faster and more repeatable.
- **Increase efficiency:** Maximize uptime and minimize downtime for you and your customers by using high-quality parts, hoses, fittings, and engineering services.
- **Improve innovation:** Our engineers keep up with the latest technologies in the mobile market, including IoT, electrification, and hybridization.



Products:

- Industrial and hydraulic hose
- Hose fittings, couplings, and connectors
- Transair modular aluminum clean compressed air systems
- Mobile equipment electrification components
- Mobile control components
- Motors
- Pressure control, flow, & directional valves
- Proportional valve
- Hydraulic filtration
- Hose fabrication equipment
- Precision measurement equipment
- Torque equipment
- Dimensional metrology equipment
- Motion control products
- Robotics
- End of arm tooling and end effectors

Services:

- Mobile IoT development and implementation
- Mobile control panel design and build
- Industrial software programming
- Hydraulic reservoir design
- Hydraulic manifold design
- Vehicle control systems prototyping
- Electrical control system design & implementation
- Mobile hose repair service
- Hose kitting
- ISO 17025 accredited calibration services
- Measurement equipment repair and maintenance
- First article inspection and PPAP
- Incoming parts inspection
- On-site check fixture certifications with portable CMMs and scanners
- Embedded calibration and inspection services
- Quality Control Checks, Power Tool Repair and Calibration
- Airbag systems testing
- Materials testing
- Environmental testing, including sun simulation and salt spray testing
- Vibration and shipment testing
- Electrical testing
- Safety services and risk assessments

Solutions:

- Mobile hydraulic system design
- Mobile equipment electrification
- Mobile vehicle optimization
- Robotic machine tending
- Automated material removal
- Robot-assisted inspection
- Robotic welding
- Custom measurement solutions