

Aerospace Industry Products, Services, and Solutions



The aerospace industry is subject to constantly evolving technology. Companies in both the defense and commercial sectors must face the complex challenge of **manufacturing innovative, high-performing products** while also **ensuring safety and regulatory compliance** to remain competitive. Whether you're producing aircraft engines, avionics, helicopters, or military satellites- **attaining the highest precision and quality are paramount**. The failure of a single component could produce devastating results.

The demands of manufacturing for military, aerospace, and defense applications and OEMs are **rigorous and precise**, requiring **expert knowledge of specialty hardware and environments**, as well as the **experience to integrate and control the entire system**. From motors to complex positioning systems, sensors, software, and command & control solutions, Cross's engineering expertise provides **proven components with known performance** as a complete assembly or turn-key solution to **get your mission-critical job done**. We take pride in providing our customers with the latest commercially available technology, reduced development costs, reduced lead time, lower unit cost and startup costs, rapid prototyping, faster fielding, and accelerated implementation.

Providing Tangible Value

- **Increase the efficiency** of your process and reduce lead times with the latest commercially available technology perfectly specified for your application
- **Reduce the risk** of a catastrophic failure by ensuring your measurement equipment is correctly calibrated and measuring exactly
- **Stay compliant:** FAA and DoD regulations are always changing. Make sure you can measure and document every part of your process to comply with the latest regulations.
- **Raise the quality** of your product with industry-leading measurement and inspection equipment. If your team doesn't have the time to inspect parts, outsource to our measurement experts.
- **Improve efficiency** by automating manual processes in your facility like machine tending, inspection, polishing, sanding, and deburring.



Products:

- Extremely precise motion control products, including data collection and feedback
- Robotics
- End of arm tooling and end effectors
- Servo & stepper motors, encoders and resolvers, including rad-and vacuum-rated servos for harsh environments
- Precision measurement equipment
- Torque equipment
- Aircraft platform scales
- Dimensional metrology equipment
- Pressure control, flow, & directional valves
- Proportional valves
- Gas detection equipment
- Hydraulic filtration
- Industrial and hydraulic hose
- Hose fittings, couplings, and connectors
- Transair modular aluminum clean compressed air systems
- Hose fabrication equipment

Services:

- Control system integration
- AS9100 compliant calibration services
- Measurement equipment repair and maintenance
- First article inspection
- 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
- Altitude testing
- Materials testing
- Environmental testing, including sun simulation and salt spray testing
- Vibration and transportation testing
- EMC and ESD testing
- Hose kitting
- Mobile hose repair service

Solutions:

- Robotic machine tending
- Robotic sanding and polishing
- Robot-assisted inspection
- Robotic welding
- Custom measurement solutions