



**Reliable, Respectful & Responsible**  
**MANUFACTURING AUTOMATION & ENGINEERING**



**ROBOTIC  
TECHNICAL  
SUPPORT  
SERVICES**

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EXIST. SAFETY  
FENCE



# INTEGRATION OF AUTOMATED MANUFACTURING SYSTEMS

At Robotic Technical Support Services (RTSS), we help companies stay competitive in the marketplace by engineering, installing, servicing and upgrading automated manufacturing systems. We also provide supplemental contract services to companies in need of additional engineering or service technicians, whether it's last minute support or multi-year contracts.

RTSS serves a wide variety of markets including customers in Aerospace, Automotive (OEM, Tier 1), Class 8 and General Industry. Our team's expertise encompasses many applications, delivering exceptional quality services for your projects, from initial concept to ongoing support.

RTSS seamlessly integrates with your company and project team. Our full integration approach ensures your projects are highly successful.

## CUSTOMER-CENTRIC RELATIONSHIPS

We focus on our relationship with your team, because we know that clear communication and shared thinking are key to your projects' success.

Our concerted-effort approach allows us to take on projects of all sizes to build long-term satisfaction with our customers.

We enhance our customers' competitiveness and success:

- ✓ By being reliable, respectful and responsible.
- ✓ By leveraging experience and manpower.
- ✓ By executing projects with detail and efficiency.



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# OUR COMPREHENSIVE TURN-KEY SERVICES INCLUDE:

## Automation Engineering

- System Automation
- Robotic Systems
  - Design customized systems that automate manual processes
  - Upgrade existing automation systems
  - Fluid Dispense
  - Material Handling
  - Robot Programming and Path Teach

## Mechanical Engineering

- Machine Installation Packages and Assemblies
- Fluid and Pneumatic Schematics
- Hose Containment
- Part & Machine Design
- Tooling – EOAT, Part Racks, Support Brackets
- 2D & 3D CAD

## Electrical Engineering

- Complete Design Packages
- Power Distribution
- Controls
- Instrumentation
- PLC Programming
- HMI Design and Programming
- SCADA

## Documentation

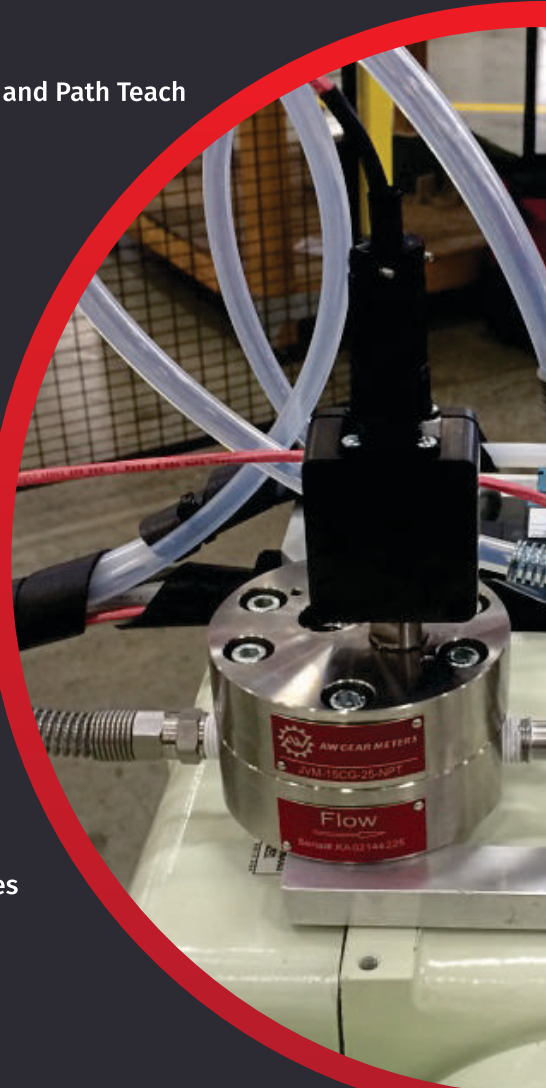
- Automation and Installation Documents/ Packages
- Bid Packages/Quoting Documents

## Project Management & Procurement

- We manage each step of a project from concept through commissioning buy-off.

## Industrial Maintenance & Build Services

- Robot Preventive Maintenance and Health Checks
  - Modular Build
  - Mechanical Debug Maintenance and Installations
  - Electrical Debug Maintenance and Installations
  - Installation and Commissioning Oversight
  - Mechanical Assemblies
  - Electrical/Pneumatic Panel Build
- Grease change, replace hosing and cables, replace cable carriers, determine appropriate PM schedules
  - Assembly and debug of machine and parts to prepare for installation, disassembling and packaging for transport
  - Oversight of system installation, commissioning and debugging





# SUPPORTED PROJECTS

The following is a list of completed projects and provided services.

## CHIYODA

Automated Paint Booth (Glasses  
Visor, Crash Detect Camera Housing)

- ✓ Project Management
- ✓ Mechanical & Electrical Engineering
- ✓ Modular Build
- ✓ Robot Process Engineering
- ✓ System Installation
- ✓ Production Support

## ENCORE AUTOMATION BOEING, SC

Automated Preparation and Paint  
System (787 Fuselage and Aft Sections)

- ✓ Mechanical Engineering

## FCA, SHAP

Powder Coat, Sealer Line  
✓ Mechanical Engineering

## NAPOLEON FIREPLACE

- ✓ Robotic Paint System Design,  
Install & Commissioning

## HONDA, AL (HMA)

Seam Sealer Line

- ✓ Electrical & Mechanical  
Engineering
- ✓ Installation Engineering Sealer  
Line Clean Out

## HYUNDAI (HMMA)

- ✓ Replacement of Robot Cable  
Harnesses (Durr Robot/Bell  
Paint System)
- ✓ Replacement of Cat-Track,  
Cabling, and Pneumatics

## FCA-TSAP, JEEP

Powder Coat, Sealer Line, PurFoam

- ✓ Controls Engineering
- ✓ Mechanical Engineering
- ✓ Tooling Design
- ✓ Installation & Commissioning

## FREIGHTLINER, CLEVELAND, NC

Robotic Primer, Base Coat  
& Top Coat Booths

- ✓ Mechanical & Electrical  
Engineering

## KIA (KMMG)

- ✓ Electro-mechanical  
Maintenance, Paint Line
- ✓ Fluid Pump Upgrade

## DIAMONDBACK TRUCK COVERS

Full Design & Implementation of  
7 Axis Robotic Spray Application

- ✓ Project Management
- ✓ Mechanical & Electrical  
Engineering
- ✓ Modular Build
- ✓ Robot Process Engineering
- ✓ System Installation
- ✓ Production Support

## GENERAL ENGINE

Full Design & Implementation of  
Robotic Sealant Application

- ✓ Project Management
- ✓ Mechanical & Electrical  
Engineering
- ✓ Modular Build
- ✓ Robot Process Engineering
- ✓ System Installation
- ✓ Production Support

## CLARIOS

Maintenance

- ✓ Robot PM's & Programming
- ✓ Light Curtain Upgrades
- ✓ Control System Upgrades

## HONDA-JET

Robotic Paint Application  
✓ System Engineering



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