



On-Highway

Components & Sub-System
Solutions for Commercial Vehicles

Curtiss-Wright Industrial Division

Curtiss-Wright Industrial Division is a recognized leader in providing components and sub-systems that enable customer specific solutions for on- and off-highway vehicles. These include material handling, construction, agricultural and other specialty vehicles, plus medium- and heavy-duty trucks, buses, and motor coaches, as well as sophisticated wheelchairs and scooters for medical mobility.

We are a leading provider of electronic throttle controls, transmission shifters, and sensors addressing the long-term trend across the globe towards attaining higher fuel efficiency and lower emissions. We are also addressing new energy solutions for a greener environment by providing advanced motor controllers and power electronics for hybrid and electric vehicles. In an effort to improve vehicle safety and operator efficiency, we also supply various human interface and operator controls that act seamlessly in today's modern cab environment.



Why Choose Curtiss-Wright?

Extensive Experience

Curtiss-Wright Industrial Division has established a leading position in various markets by being highly responsive to specific customer requirements.

This diverse application knowledge base includes:

- **Medium- and Heavy-Duty Trucks**
- **Municipal Buses**
- **Hybrid Systems**
- **School and Coach Buses**
- **Motor Coaches**
- **Military Vehicles**
- **Specialty Vehicles (e.g. Firetrucks, Ambulances, etc.)**

Innovative Products

We are proud of our product legacy spanning nearly 85 years in industries like commercial vehicle and municipal bus, providing customer specific solutions to market leading OEMs.

Using our applications engineering expertise with customer development teams, we enable a free flow of ideas that provide the most reliable and cost-effective product solution to each unique application.

Reliable Partner

We have long-term relationships with many of the industry-leading OEMs. Whether customizing an existing product to better suit an application, or creating completely new concepts to address an OEM specification, our global team of engineers are ready for the challenge.

Our engineers will work directly with your team to determine what is needed for a successful outcome.

Global Support

Curtiss-Wright Industrial Division has a global footprint, with design and manufacturing in the USA, the United Kingdom, China and India. This is backed by our own sales and technical support teams in over 45 other countries, ensuring exceptional levels of efficiency, quality and on-time delivery.



Serving the On-Highway Industry

The dynamic state of global emissions regulations has driven on-highway OEM's to seek flexible, cost-effective technologies to meet ever-changing regulatory demands. At the same time, fleet operators seek technology that improves fuel efficiency and ensures safe and easy operation in a complex environment. New vehicle controls are expected to simplify operation, automate daily tasks and reduce human error, playing a vital role in transportation's economic success.

As a world leader in electronic throttle controls and transmission shifters, Curtiss-Wright has proudly served the on-highway industry since 1937. This extensive experience allows us to successfully collaborate with our customers, bringing world class products to market on time and on budget.

As the industry embraces new and exciting technologies, Curtiss-Wright intends to maintain a leadership position developing products that enhance safety, reliability and performance. Our engineers have extensive experience in developing custom HMI solutions by collaborating with your design teams to develop the most cost-effective and reliable equipment.

Product Families

Electronic Throttle Controls

- Floor-Mounted Pedals
- Suspended Pedals
- Rocker Pedals
- Hand Controls



Electronic Transmission Shifters

- Push Button
- Lever
- Column-Mounted
- Shift-By-Wire



Mechanical Transmission Shifters

- Cable-Operated
- Single or Dual Lever



Position Sensors

- Linear and In-Cylinder Sensors
- Rotary Hall-Effect Sensors
- Tilt Sensors



Joystick Controls

- Fingertip Joysticks and Rockers
- Mid-Sized Joysticks
- Rugged Joysticks and Handgrips
- Single- and Dual-Axis Hydraulic Levers
- Hand Controls



HMIC

The Curtiss-Wright global team has extensive knowledge, expertise and experience to integrate systems consisting of user interface controls, system controller, displays, actuators and other systems to economically improve vehicle performance, efficiency, safety and functionality.



CW System Elements Include:

- HMIC Control Algorithms Unique to Vehicle and Application
- HMIC Controller Hardware
- Operator Controls Unique to Vehicle and Application that can be used with CW and Competitor Components

The Benefits Include:

- Improve Operator / Vehicle Safety, Efficiency and Functionality to Meet Increasing Market Requirements
- Reduce Cost / Complexity or Add Value to Distributed Vehicle Architecture and Discrete Components
- Enhance Diagnostic and Troubleshooting Feedback

Power Management Products

- Traction Inverters Product Line
 - Up to 800VDC Input Voltage
 - Single and Dual Inverters
 - Peak Power 80KVA to 530KVA
 - Modular PCB Construction
- Power Distribution Modules
 - 12/24VDC Systems on Highway Vehicles
 - 360VDC Power Systems for Hybrid Vehicles
 - 700VDC High Energy Vehicle Junction Box for Hybrid Vehicles



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