



Material Handling

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:

- Counterbalance Forklift Trucks
- Narrow Aisle Reach Trucks
- Electric Pallet Trucks
- Electric Stacker Trucks
- Tow Trucks
- Burden Carriers
- Telehandlers
- Reach Stackers
- Container Handlers
- Truck-Mounted Forklifts

Innovative Products

We are proud of our legacy spanning 85 years in industries like material handling, 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 Material Handling Industry

The globalization of supply chains, rising labor costs and continuous improvements in operator health & safety have driven the material handling industry to deliver highly-efficient, flexible and safety-critical, self-propelled vehicles. The industry has developed a vast array of trucks, machinery and equipment to increase productivity in the transporting, loading, unloading, positioning and picking of materials, goods and products.

Curtiss-Wright is highly experienced in working with industrial truck designers to provide safety-critical components and sub-systems that not only offer optimal ergonomics for efficient operator control to reduce fatigue, but can also withstand the environmental challenge of water, dust, shock, vibration and temperature extremes.

New vehicle cab designs are now using electronic Human-Machine Interfaces (HMI) that replace multiple hydraulic levers and discrete components into fully integrated armrest assemblies that give operators a wide range of new capabilities. 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

HMI Consoles

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

Motor Controllers

- AC and DC Motor Controllers
- Traction, Pump and Steering Motor Controllers
- Multi-Functional Integrated Motor Controllers
- High Voltage Inverters



Position Sensors

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



Electronic Throttle Controls

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



Joystick Controls

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



CAN J1939 is available for various pedals, sensors, shifters and joysticks



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