Components & Sub-Systems
Solutions for Commercial Vehicles

www.cw-industrialgroup.com
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, agriculture 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.

Our technologies increase vehicle productivity, safety and responsiveness.

Worldwide

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 the USA, Europe, China and Taiwan, with a network of representatives in other countries.
Applications Experience

Curtiss-Wright Industrial Division includes the legacy brands of Arens Controls, Penny & Giles, PG Drives Technology and Williams Controls. These businesses have decades of experience in supplying products to thousands of customers around the world. Using this diverse applications knowledge, we can confidently recommend solutions by offering standard products with rapid availability, or we can develop custom-engineered solutions by working with your engineers.

Industries Served

- **On-Highway Vehicles** – Medium- and Heavy-Duty Trucks, Buses and Motor Coaches, Recreational Vehicles, Refuse Trucks, Road Sweepers
- **Off-Highway Vehicles** – Construction, Road Building, Mining, Agriculture, Forestry, Airport Operations, Defense, Motorsport
- **Material Handling** – Lift Trucks, Telehandlers, Cranes, Aerial Work Platforms
- **Medical Mobility** – Wheelchairs and Scooters
- **Static Machinery** – Business Machines, Switchgear, Process Control, Security

Product Families

- **HMI Consoles**
- **Transmission Shifters**
- **Joystick Controls**
- **Power Management**
- **Electronic Throttle Controls**
- **Position Sensors**
- **Solenoid Actuators and Solenoid Valves**
Design Options

We offer our customers a choice of solutions to consider.

Custom Design – using our applications engineering expertise with your development team, we enable a free flow of ideas to provide the most reliable and cost effective product solution to suit your unique application.

- We have extensive hardware design expertise, with 3D modeling and rapid prototyping
- We have in-house, experienced software design teams
- We have in-house EMC test facilities in Europe and the USA
- We have our own environmental testing facilities to enable vibration, shock, temperature, humidity, salt spray and other tests to be performed

- We also have highly accelerated life test and stress screening (HALT/HASS) facilities to validate product reliability during development

Standard Products – many of our components can be specified straight from the catalog. This solution supports existing customers of standard products and can also aid the rapid evaluation of a technology when developing custom designs for OEMs.

Why Choose Us?

We believe in developing technology-based solutions in partnership with our customers – many of our products are custom-built for specific applications. We strive for the best solutions, from design and manufacturing to prompt, on-time delivery – with operational excellence and a world-class service.

- Extensive Experience – diverse applications knowledge over a breadth of industries
- Innovative Products – customer packaged technologies for mission-critical needs
- Reliable Partner – customer focused with a strong reputation for quality and reliability
- Global Support – sales support and distribution network in over 45 countries
- Financial Strength – supported by a $2.2 billion NYSE listed corporation

Our systems are accredited to ISO 9001, ISO 14001 and ISO/TS 16949.
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**Product Families**

**HMI Consoles**
- Lever and Rotary Hand Controls
- Multi-Function Operator Consoles
- Wheelchair Mobility Controls
- Vertical Mast Vehicle Controller

**Transmission Shifters**
- Transmission Shift Control Systems
- Dash-Mounted Electro-Mechanical Shifters
- Electro-Mechanical Shift-By-Wire Actuators and Controllers
- Pushbutton and Lever Shift Controls

**Joystick Controls**
- Fingertip Rockers
- Paddle Joysticks
- Fingertip Joysticks
- Mid-Sized Joysticks
- Single-Axis Joysticks
- Multi-Axis Joysticks
- Friction Lock Joysticks
- Rugged Joysticks and Handgrips
- Single- and Dual-Axis Hydraulic Levers

**Power Management**
- AC and DC Motor Controllers
- Multi-Functional Integrated Motor Controllers
- Power Distribution Modules
- Traction Inverters
- Auxiliary Power Modules

**Electronic Throttle Controls**
- Floor-Mounted Pedals
- Suspended Pedals
- Adjustable Pedal Units
- Thumb-Throttle Units
- Rotary Hand Controls
- Lever Hand Controls

**Position Sensors**
- Linear and Rotary Potentiometers
- Linear and Rotary Hall-Effect Sensors
- Inductive, LVDT and LVIT Linear Sensors
- In-Cylinder Linear Sensors
- Spool Valve Linear Sensors
- Tilt Sensors

**Solenoid Actuators and Solenoid Valves**
- C and D Frame Solenoids
- Tubular Solenoids
- AC Laminated Solenoids
- Shot-Bolts and Locking Solenoids
- Solenoid Valves
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We strive for the best solutions, from innovative design using leading-edge technologies and world-class manufacturing – delivering compelling value to our customers.

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- AC Laminated Solenoids
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Contact Us

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