

Industrial Group









Components & Sub-System Solutions for Commercial Vehicles





With a proud legacy spanning more than 85 years, Curtiss-Wright is a global innovative company that delivers highly engineered, critical function products and services to the commercial, industrial, defense and energy markets. Building on the heritage of Glenn Curtiss and the Wright brothers, we have a long tradition of providing reliable solutions through trusted customer relationships.

Curtiss-Wright Industrial Group

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

We are a leading provider of electronic throttle controls, transmission shifters and sensors for commercial off-highway equipment and heavy trucks, so helping to address the long-term trend towards attaining higher fuel efficiency and lower emissions. We also supply operator controls and advanced motor controllers for hybrid and electric vehicles such as buses, forklift trucks, pallet stackers, wheelchairs and rehabilitation chairs.

Our technologies increase vehicle productivity, safety and responsiveness.

Worldwide

Curtiss-Wright Industrial Group 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, India and Taiwan, with a network of representatives in other countries.



Applications Experience

Curtiss-Wright Industrial Group 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
- Materials Handling lift trucks, telehandlers, cranes, aerial work platforms
- · Medical Mobility wheelchairs and scooters
- **Static Machinery** business machines, switchgear, process control, security

Product Families

- Human-Machine Interface 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 modelling 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, with some items available from stock. This solution supports existing customers of standard products and can also aid the rapid evaluation of a technology when developing custom designs for OEMs.

Quality Assured

Our systems are accredited to ISO 9001, ISO 14001 and ISO/TS 16949. Our commitment to the quality of our design and manufacturing is the foundation of our business, ensuring the reliability of our products from initial design to final despatch.

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 \$2.5 billion NYSE listed corporation

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

Product Families





Human-Machine Interface Controls

- Single- and Dual-Axis Hydraulic Levers
- Lever and Rotary Hand Controls
- Fingertip Joysticks and Rockers
- · Mid-sized Joysticks
- Rugged Joysticks and Handgrips
- Multi-function Operator Consoles
- Transmission Shift Control Systems
- Dash-mounted Electro-mechanical Shifters
- Electro-mechanical Shift-By-Wire Actuators and Controllers
- Pushbutton and Lever Shift Controls
- · Wheelchair Mobility Controls
- Vertical Mast Vehicle Controller



We strive for the best solutions,

from innovative design using leading-edge
technologies and world-class manufacturing —
delivering compelling value to our customers.





- AC and DC Motor Controllers
- Multi-functional Integrated Motor Controllers
- Power Distribution Modules
- Traction Inverters
- Power Converters and Auxiliary Power Modules





Electronic Throttle Controls

- Floor-mounted Pedals
- Suspended Pedals
- Adjustable Pedal Units







Position Sensors

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





Solenoid Actuators and Solenoid Valves

- C and D Frame Solenoids
- Tubular Solenoids
- AC Laminated Solenoids
- Flapper and Latching Solenoids
- Shot-Bolts and Locking Solenoids
- Solenoid Valves
- Holding Magnets



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Partners Worldwide: For a listing of our global sales network, visit our website at www.cw-industrialgroup.com.

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