

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.

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 dispatch.

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



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ISO 9001, ISO 14001 and ISO/TS 16949.

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





**We strive for
the best solutions,**

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

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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