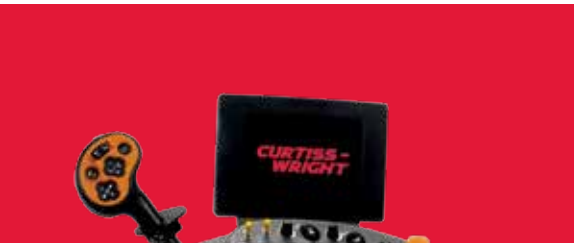


**CURTISS -  
WRIGHT**

**Industrial Group**



# Agriculture

Components & Sub-System Solutions  
for Commercial Vehicles

[www.cw-industrialgroup.com](http://www.cw-industrialgroup.com)

# 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 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 Group has established a leading position in various markets by being highly responsive to specific customer requirements. This diverse application knowledge base includes:

- Tractors
- Front Loaders
- Telehandlers and Telescopic Loaders
- Seed Drilling Attachments
- Combine Harvesters
- Self-Propelled Forage Harvesters
- Self-Propelled Sprayers
- Balers
- Hedge and Verge Attachments
- Remote-Controlled Mowers

### Innovative Products

We are proud of our legacy spanning 45 years in industries like agriculture, 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 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 over 45 other countries, ensuring exceptional levels of efficiency, quality and on-time delivery.



# Serving the Agriculture Industry

The world population increase has transformed the agricultural industry from labor-intensive manual work into a highly automated production process that uses self-propelled vehicles with GPS auto-steer technology. The industry has developed a vast array of vehicles, machinery and equipment to increase productivity in the planting, fertilization, irrigation and harvesting of crops.

Curtiss-Wright is highly experienced in working with agricultural machinery designers to provide safety-critical components and sub-systems that not only offer optimal ergonomics for efficient operator control to reduce fatigue and increase productivity, 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 with 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

- Multi-function Operator Consoles
- Custom Armrests and Command Arms
- CAN J1939 Communications



### Electronic Joystick Controls

- Rugged Joysticks and Handgrips
- Mid-size Joysticks
- Fingertip Joysticks and Rockers
- ISOBUS Handles and Controls



### Electronic Throttle Controls

- Floor-mounted Pedals
- Suspended Pedals
- Adjustable Pedal Units
- Lever and Rotary Hand Controls



### Shifters and Hydraulic Levers

- Pushbutton, Lever, and Column Shift Controls
- Hydrostatic Shift Controls
- Electro-mechanical Shift-By-Wire Actuators and Controllers
- Single- and Dual-Axis Hydraulic Levers



### Sensors

- Linear and Rotary Hall-effect Position Sensors
- In-Cylinder Linear Position Sensors
- Spool Valve Sensors
- Tilt Sensors
- Pressure Sensors



### Power Management

- Power Distribution Modules
- Power Converters and Auxiliary Power Modules
- Traction Inverters



CAN J1939 is available for various pedals, sensors, controllers and joysticks.



# Contact Us

## Asia

### Shanghai, China

T: +86.21.33310670  
E: [cwig.cn@curtisswright.com](mailto:cwig.cn@curtisswright.com)

### Taipei, Taiwan

T: +886.2.2778.1900  
E: [cwig.tw@curtisswright.com](mailto:cwig.tw@curtisswright.com)

### Singapore

T: +65.6705.6714  
E: [cwig.sg@curtisswright.com](mailto:cwig.sg@curtisswright.com)

### Pune, India

T: +91.20.67319100  
E: [cwig.in@curtisswright.com](mailto:cwig.in@curtisswright.com)

## Americas

### Brea, California

T: +1.714.982.1862  
E: [cwig.us@curtisswright.com](mailto:cwig.us@curtisswright.com)

### Arlington Heights, Illinois

T: +1.847.844.4700  
E: [cwig.us@curtisswright.com](mailto:cwig.us@curtisswright.com)

### Portland, Oregon

T: +1.503.684.8600  
E: [cwig.us@curtisswright.com](mailto:cwig.us@curtisswright.com)

### São Carlos, Brazil

T: +55.16.2107.8745  
E: [cwig.br@curtisswright.com](mailto:cwig.br@curtisswright.com)

## Europe

### Garching, Germany

T: +49.89.5404100.0  
E: [cwig.de@curtisswright.com](mailto:cwig.de@curtisswright.com)

### Christchurch, UK

T: +44.1202.034000  
E: [cwig.uk@curtisswright.com](mailto:cwig.uk@curtisswright.com)

### Cwmfelinfach, UK

T: +44.1495.202000  
E: [cwig.uk@curtisswright.com](mailto:cwig.uk@curtisswright.com)

**CURTISS -  
WRIGHT**



**Headquarters:** 15, Enterprise Way, Aviation Park West, Bournemouth Airport, Christchurch, BH23 6HH, UK • [www.cw-industrialgroup.com](http://www.cw-industrialgroup.com)

**Facilities:** Portland, Oregon, USA; Arlington Heights, Illinois, USA; Brea, California, USA; Christchurch, UK; Cwmfelinfach, UK; Garching, Germany; Pune, India; Suzhou, China; Shanghai, China; Taipei, Taiwan.

**Partners Worldwide:** For a listing of our global sales network, visit our website at [www.cw-industrialgroup.com](http://www.cw-industrialgroup.com).

While this information is presented in good faith and believed to be accurate, Curtiss-Wright does not guarantee satisfactory results from reliance on such information. Nothing contained herein is to be construed as a warranty or guarantee, expressed or implied, regarding the performance, merchantability, fitness or any other matter with respect to the products, nor as a recommendation to use any product or process in conflict with any patent. Curtiss-Wright reserves the right, without notice, to alter or improve the designs or specifications of the products described herein.