

# Freedom XDS Control System



**CPS**  
Certified Power Solutions™

# ControlGuard

The ControlGuard system incorporates our multi-function 3-axis Joystick. The Joystick is configurable with buttons that can be used for remote Blast and Pass functions designed with ease of operation. The ControlGuard Joystick has four operating modes and can control up to 12 valve sections in 3 axes simultaneously. This allows for the consolidation of multiple functions into one easy to use control.

The ControlGuard System incorporates our new XDS operator panel with specially designed and molded tactile buttons and programmable encoders and orientation bars for durability and ease of use. Panel is backlit for easy night-time visibility. Many switch options are available such as rocker and TouchGuard switches.



## Operator Panel

The operator panel has been re-designed for additional durability. The addition of orientation bars helps protect the knobs from damage and provides for better ergonomics. The panel has been designed for field serviceability and additional durability with a re-designed membrane switch layout. An additional spreader select switch has been provided to allow for dual spreader capability.



FR-611  
With Armrest

### Accessory Bracket

Used for mounting additional in-cab hardware such as AVL systems, radios and lighting packages.

### Mounting Base

Base mountings for all popular cab designs including Mack, International, Freightliner and more.

**FREEDOM XDS**  
CONTROL SERIES

# MultiGuard

The MultiGuard system incorporates many of the same features as the ControlGuard system. The operator, switch panel and armrest options are all the same. The MultiGuard designs utilize individual joysticks for each function. Each joystick can be specified with many different options. Single and dual axis joysticks can be specified with switches for dead-man, pass and/or float functions. Both the ControlGuard and MultiGuard control system allow for custom joystick programming to allow full range of operation regardless of individual functional requirements of the mounted equipment. This allows the customer to feather the function for precise control across the entire operating range of the joystick.



## Touchscreen Display

Display has been designed for ease of system use. Panel sizes can be configured to the desire of the customer. Colors can be configured to indicate specific functions and status. Error displays can be programmed to only show information of interest to the operator. Data download and system configuration is handled by a standard USB thumb drive. There is no need for a computer or other device to download or save material totals or calibration information. System software upgrades are also handled by USB using files that are easily e-mailed.



FR-211  
With Armrest



FR-311  
Without Armrest

**FREEDOM XDS**  
CONTROL SERIES



FR-311  
With Armrest

# Reservoirs and Enclosures

Our Family of StormGuard reservoirs and enclosures is specially designed to adapt to the new Freedom XDS output modules. Our new system allows the CAN Bus output module to be wired directly to the valve in the sealed enclosures. Both designs allow for expansion of the CAN Bus system with an output slave module for additional valve PWM outputs (14 PWM outputs standard and up to 56 PWM outputs when expanded). Our unique ServiceGuard design combines the valve enclosure and reservoir into one compact, accessible, durable package. ValveGuard offers an excellent alternative, where frame space is limited.

## ServiceGuard

Our ServiceGuard combination reservoir/valve enclosure is available in stainless or powder-coated mild steel with size ranges from 20-40 gallon oil capacity. Its unique design allows for easy access to the valve compartment without special tools. It incorporates our in-tank filter system, breather and optional porting to accommodate various hydraulic systems. It can also handle other options such as low-oil, filter and temperature sensors.

## ValveGuard

Our ValveGuard unit, shown in powder-coated mild steel, is also available in stainless steel. The Enclosure is designed to accommodate up to two XDS output modules for additional valve PWM outputs. Like the ServiceGuard, access to the valve is easy for hassle-free service and maintenance. Bulkhead fitting design eliminates hoses, tubing and leak points for a longer service-free life.

### Additional features for both models include:

- Standard TPE wiring connectors in the output modules provide the ultimate in durability and performance.
- Inputs for electronic pressure transducer directly to the CAN Bus system via the output module allowing for hydraulic system pressure readout on the XDS display module.
- All sensors, including Prewet, Anti-Ice and Auger feedback plug directly into the output module for shorter cable lengths, eliminating the need to run wiring into the cab.

# Advanced Control System Technology

The new Freedom XDS controller is the next advancement in the Freedom line of CAN Bus controls from Certified Power. As times change and equipment demands evolve, so do we. New features include Dual Spreader (including the popular Tow-Plow application), an enlarged color touch screen and a USB port for ease in software upgrades and saving configurations and data.



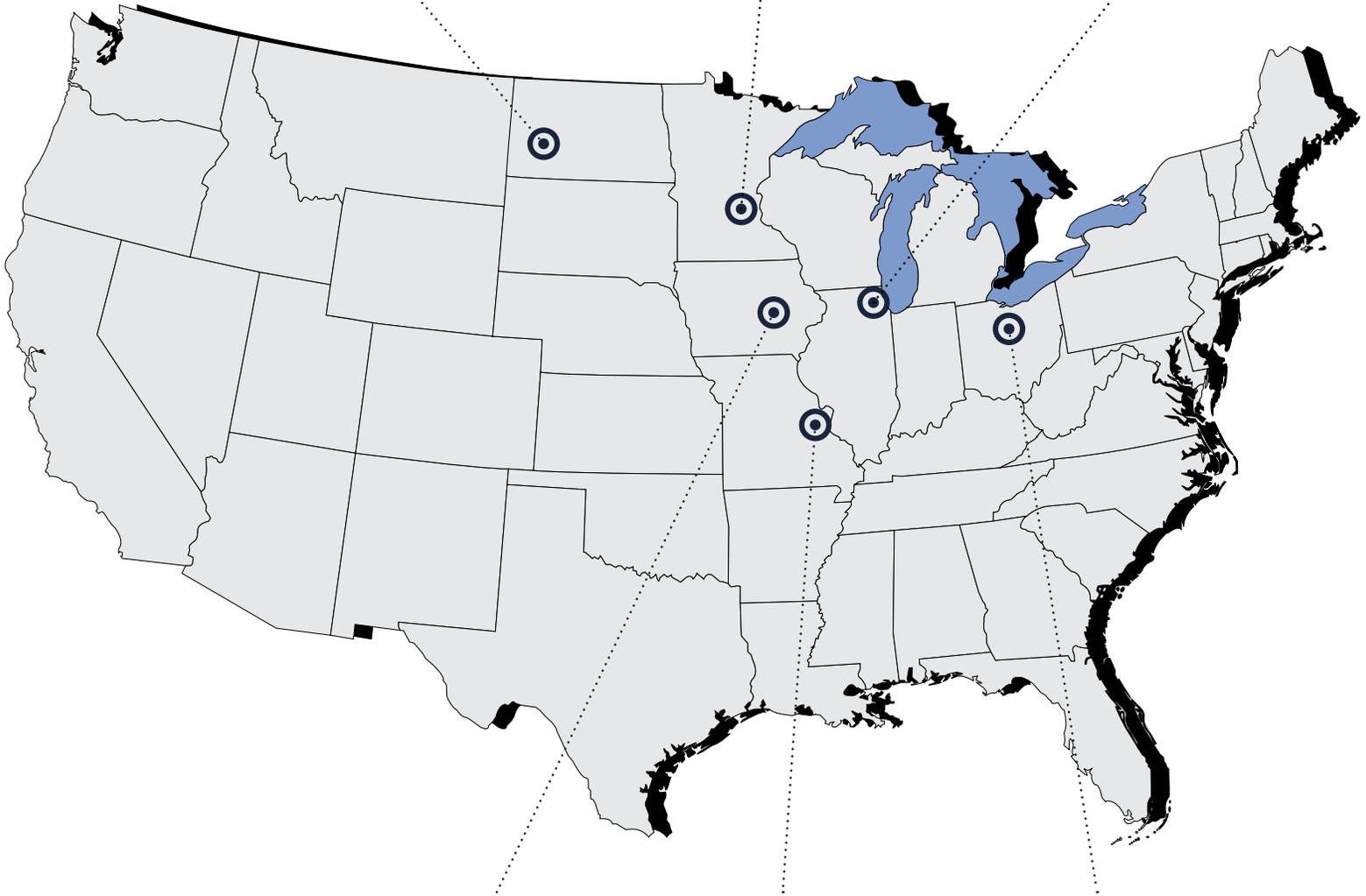
# No matter where you are, we've got you covered!

We have locations across the country and we are always growing. With our broad spectrum of product lines, our network of organizations throughout the U.S. gives us the ability to deliver the right parts, components and services at the right time and the right price.

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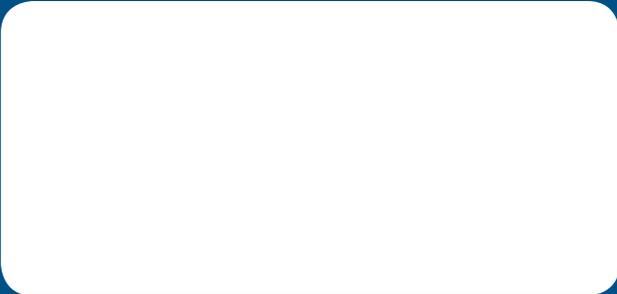


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