HYDRAULIC POWER COMPONENTS

CLUTCH SHIFTS AND CONSTANT DRIVE POWER TAKE-OFFS

The CD10, CS6/8, FR6 and Titan M1 Series are Muncie Power Products’ most popular power take-off units for snow and ice control applications. Regardless of your application needs, we have a wide range of PTO options including those that fit Ford Super Duty trucks and Allison Transmissions.

HYDRAULIC COMPONENTS

Control Solutions

SPREADER PACKAGES

PRODUCT OVERVIEW

SIMPLY BETTER TECHNOLOGY

CONTROL SOLUTIONS

SPREADER PACKAGES

HYDRAULIC COMPONENTS

HYDRAULIC POWER COMPONENTS

DC POWER PACKS

Designed for reliable, quality performance, Muncie Power Products’ DC power packs feature motors available in 12 VDC and 24 VDC. Like our DC power packs for turbine applications including snow and ice applications such as snow plows.

HYDRAULIC FILTERS

Reduce contamination-related failures and equipment down-time with Muncie Power Products’ high-pressure and return line hydraulic filters – available in both nominal and absolute filtration.

HYDRAULIC INDICATOR DISPLAYS AND SWITCHES

Muncie Power’s hydraulic indicator display is an easy-to-install solution for caution indicator lights. The display mounts either on or above the dash and includes the switches you select with an optional buzzer available.

HYDRAULIC AND PRE-WETTING RESERVOIRS

Available in sizes from 15- to 150-gallon capacities, Muncie Power Products’ hydraulic reservoirs are created to suit a wide range of applications for snow and ice. For pre-wetting applications, the Hot Oil/Low Oil series are designed to maintain a constant oil temperature behind the cab and come complete with plumbing hardware and pumping components in required.

PRE-WET KITS

Developed to match ground speed and consistently maintain the desired gallons per ton of salt, our pre-wet kits are self-contained, weather resistant packages. Available with maximum flow rates of 3 GPM or 6 GPM in electric drive or 10 GPM in hydraulic drive, Muncie Power has options for all truck sizes.

HYDRAULIC PUMPS

High-performance and compact, cast iron housings make our clutch pumps a good choice for central hydraulic systems with flow ratings up to 11 GPM and pressures up to 4,350 PSI.

GEAR PUMPS

A proven performer in thousands of snow and ice control applications, Muncie Power’s gear pumps are ideal for use with many central hydraulic systems. Gear pumps are available in different sizes, pressure, shaft and mounting options to meet the needs of virtually any central hydraulic system application.

LOW SPEED HIGH TORQUE MOTORS

Amongst Muncie Power Products’ three series of low-speed, high-torque motors, we offer 32 different displacement sizes. Each of our series of motors can be used with any equipment requiring rotary power.

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PRE-WET KITS

Developed to match ground speed and consistently maintain the desired gallons per ton of salt, our pre-wet kits are self-contained, weather resistant packages. Available with maximum flow rates of 3 GPM or 6 GPM in electric drive or 10 GPM in hydraulic drive, Muncie Power has options for all truck sizes.

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GEAR PUMPS

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HYDRAULIC AND PRE-WETTING RESERVOIRS

Available in sizes from 15- to 150-gallon capacities, Muncie Power Products’ hydraulic reservoirs are created to suit a wide range of applications for snow and ice. For pre-wetting applications, the High Oil/Low Oil series are designed to maintain a constant oil temperature behind the cab and come complete with plumbing hardware and pumping components in required.

PRE-WET KITS

Developed to match ground speed and consistently maintain the desired gallons per ton of salt, our pre-wet kits are self-contained, weather resistant packages. Available with maximum flow rates of 3 GPM or 6 GPM in electric drive or 10 GPM in hydraulic drive, Muncie Power has options for all truck sizes.

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GEAR PUMPS

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Amongst Muncie Power Products’ three series of low-speed, high-torque motors, we offer 32 different displacement sizes. Each of our series of motors can be used with any equipment requiring rotary power.

HYDRAULIC INDICATOR DISPLAYS AND SWITCHES

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PRE-WET KITS

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**CONTROL SYSTEMS**

**ADVANTAGE™**
The Advantage+ control system features Wi-Fi capabilities, touch screen controls, Wi-Fi support links and a premium design increasing reliability and revolutionizing fleet operation and maintenance.

**ADVANTAGE**
The Advantage system is a mid-level technology solution for snow and ice control. Providing the ultimate balance amongst performance, economy, convenience and safety, our system's controls are intuitive and extremely easy to operate. Utilizing a unique communication protocol, the two-wire communication of the Advantage requires only power and ground to communicate with the control console. As a result, the amount of conductors that are routed between the controls and hydraulic enclosure are reduced.

**CONVENTIONAL**
Designed to fit small to large chassis, Muncie Power Products offer conventional stack valve systems mounted in weather tight enclosures with air, cable or electric shift options, in addition to electronic spreader control packages. Muncie Power Products' conventional systems can be configured to meet your exact specifications. Our exclusive pass-through design provides seamless plumbing at a reduced cost and the V300 Hybrid system allows flow sharing during the press. The V300 Hybrid system provides full flow to the spreader when cylinders are idle.

**SPREADER PACKAGES**

**COMPLETE OPERATION**

Muncie Power Products’ Advantage+ snow and ice control system combines two unique technologies to increase reliability and revolutionize the method in which snow and ice removal fleets are operated and maintained. The Advantage+ can be used with a spreader manifold and then paired with cable or airshift stack valves for cylinder functions to provide a customized snow and ice solution.

**ADVANTAGE**

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**ELECTRONIC SPREADER CONTROLLERS**

**HIGH-TECHNOLOGY CONTROL**

Designed to be intuitive for the operator, our system's controls boast easy of readability for the user and simple settings.

**BASE-TECHNOLOGY CONTROL**

Muncie Power’s MESP 300 controller is easy to operate and setup with nine programmable settings of operation. With ground speed controls, the driver can focus on driving.

**AIR AND ROAD TEMP SENSOR**

Our infrared Air and Road Temperature Sensors provide operators with current and accurate data to make application decisions.

**LOAD SENSE VALVES (CLOSED CENTER)**

Available in both manual and electrohydraulic control options, our closed-centered, post-compensated load-sense valve features flow sharing sections with local compensation, resulting in an efficient, hydraulic control valve.

**LOAD SENSE VALVES (OPEN CENTER)**

Different speed, control, positioner and load-sense valve customization of Muncie Power Products’ electrohydraulic control valves. Each work section comes preassembled and 100 percent tested prior to shipment for customer satisfaction. The series of valves are available in air, cable or electric shift.

**HYDRAULIC CONTROLS**

**DIRECTIONAL CONTROL VALVES (OPEN CENTER)**

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**LOAD SENSE VALVES (CLOSED CENTER)**

Available in both manual and electrohydraulic control options, our closed-centered, post-compensated load-sense valve features flow sharing sections with local compensation, resulting in an efficient, hydraulic control valve.

**CYLINDER CONTROLS**

**MANUAL SPREADER VALVES**

A tried and true product, our manual spreader valves are considered an old standby as thousands of these valves have been utilized in snow and ice applications for years.

**AIRSHIFT CONTROL PACKAGE**

Add value to your finished installation with Muncie Power’s high-quality, airshift control packages. With many options available, we offer spring center, detented or no detent operation along with color-coded airlines and push-on fittings.

**JOYSTICK AND CONTROLLER**

Based on joystick design, Muncie Power’s proportional joystick control provides cylinder speed control. Our joystick work with cartridge valves or spool valves for uncompromised performance.
The Advantage+ control system features Wi-Fi and support for touchscreen, Wi-Fi-support links and a premium design increasing reliability and revolutionizing fleet operation and maintenance.

The Advantage system is a mid-level technology solution for snow and ice control. Providing the ultimate balance amongst performance, economy, convenience and safety, our system’s controls are intuitive and easy to operate. Utilizing a unique communication protocol, the two-way communication of the Advantage requires only power and ground to communicate with its manifold. As a result, the amount of conductors that are routed between the controls and hydraulic enclosure are reduced.

The MESP 300 controller is easy to operate and setup with nine programmable settings of operation. With ground speed controls, the driver can focus on driving.

Our Infrared Air and Road Temperature Sensors provide operators with current and accurate data to make application decisions.

HIGH-TECHNOLOGY CONTROL

Designed to be intuitive for the operator, our system’s controls boast ease of readability for the user and simple settings.

BASE-TECHNOLOGY CONTROL

Muncie Power’s MESP-100 controller can focus on driving and has an easy-to-use controller.

ADVANTAGE+™

Muncie Power Products’ Advantage+™ snow and ice control system combines two unique technologies to increase reliability and revolutionize the method in which snow and ice removal fleets are operated and maintained. The Advantage+™ can be used with a spreader manifold and then paired with cable or air-shift stack valves for cylinder functions to provide a customized snow and ice solution.

Muncie Power’s programmable push-button controls are not only reliable but also available in a wide variety of configurations. Including button legends on our controllers, up to eight, 15 AWP outputs to handle the power demands of heavy work trucks.

The MESP 3016/3017 is our latest electronic spreader package for snow and ice control vehicles. Featuring ease of installation and simple setup, the MESP 3016/3017 is perfect for new or retrofit installations and is suitable for all spreader setups.

Like the MESP 2016/2017, the MESP 3020 is an electronic spreader package. Our MESP 3020 includes an integrated load circuit, simple setup and has an easy-to-use controller.

The MESP 3000 is an electronic spreader controller. Equipped with Wi-Fi and an app for Android devices, the Advantage+™ allows users to connect with Muncie Power engineers for assistance or to use the app to change settings, view remote operations, troubleshoot and more.

ELECTRONIC SPREADER CONTROLLERS

Muncie Power Products offers conventional stack valve systems mounted in weather tight enclosures with air, cable or electric shift options, in addition to electronic spreader control packages. Muncie Power Products’ conventional systems can be configured to meet your exact specifications. Our exclusive pass-through design provides seamless plumbing at a reduced cost and the V080 Hybrid system allows flow sharing during simultaneous operations and configured to meet your exact specifications. Our exclusive Muncie Power Products’ conventional systems can be programmed, the driver can focus on driving.

V080 Hybrid System
Standard Conventional

LOAD SENSE VALVES (CLOSED CENTER)

Available in both manual and electrohydraulic control options, our closed-centered, post-compensated load-sense valve feature flow sharing sections with local compensators resulting in an efficient, hydraulic control valve at a reduced cost.

MANUAL SPREADER VALVES

A tried and true product, our manual spreader valves are considered an old standby as thousands of these valves have been utilized in snow and ice applications for years.

CYLINDER CONTROLS

Aircraft Control Package

Add value to your finished installation with Muncie Power’s high-quality, airshift control packages. With many options available, we offer spring center, detent, zero-center and other color-coded airlines and push-on fittings.

BASE TECHNOLOGY

Muncie Power’s programmable push-button controls are not only reliable but also are available in a wide variety of configurations. Including button legends on our controllers, up to eight, 15 AWP outputs to handle the power demands of heavy work trucks.

LOAD SENSE VALVES (OPEN CENTER)

Different speed, control, positioning and load-sensing minimizes the amount of time spent on field calibration and maximizes the consistency of Muncie Power Products’ electrohydraulic control valves. Each work section comes pre-positioned and 100% tested prior to shipment for customer satisfaction. The series of valves are available in air, cable or electric shift.

Muncie Power Products’ conventional systems can be programmed, the driver can focus on driving.

Speed and control, positioning and load-sensing minimizes the amount of time spent on field calibration and maximizes the consistency of Muncie Power Products’ electrohydraulic control valves. Each work section comes pre-positioned and 100% tested prior to shipment for customer satisfaction. The series of valves are available in air, cable or electric shift.

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ADVANTAGE

The Advantage+ control system features Wi-Fi capability for screen controls, Wi-Fi support links and a premium design increasing reliability and revolutionizing fleet operation and maintenance.

ADVANTAGE

The Advantage system is a mid-level technology solution for snow and ice control. Providing the ultimate balance amongst performance, economy, convenience and safety, our system’s controls are intuitive and extremely easy to operate. Utilizing a unique communication protocol, the two-way communication of the Advantage requires only power and ground to communicate. As a result, the amount of conductors that are routed between the controls and hydraulic enclosure are reduced.

CONVENTIONAL

Designed to fit small to large chassis, Muncie Power Products offer conventional stack valve systems mounted in weather tight enclosures with air, cable or electric shift options, in addition to electronic spreader control packages. Muncie Power Products’ conventional systems can be configured to meet your exact specifications. Our exclusive pass-through design provides seamless plumbing at a reduced cost and the V080 Hybrid system allows fluid sharing during simultaneous operations and allows flow sharing during pass-through design provides full flow to the spreader when cylinders are idle.

SPREADER PACKAGES

Muncie Power Products’ Advantage+ snow and ice control systems combine two unique technologies to increase reliability and revolutionize the method in which snow and ice removal fleets are operated and maintained. The Advantage+ can be used with a spreader manifold and then paired with cable or airshift stack valves for cylinder functions to provide a customized snow and ice solution.

The MESP 2016/2017 is our latest electronic spreader package for snow and ice control vehicles. Featuring ease of installation and simple setup, the MESP 2016/2017 is perfect for new or retrofit installations and is suitable for all spreader setups.

Like the MESP 2016/2017, the MESP 300 series of electronic spreader package. Our MESP 300 includes an integrated twist cage, simple setup and has an easy-to-use controller.

ELECTRONIC SPREADER CONTROLLERS

HIGH-TECHNOLOGY CONTROL

Designed to be intuitive for the operator, our system’s controls boast ease of readability for the operator, our system’s controls boast ease of readability for the operator, our system’s controls boast ease of readability for the operator. Designed to fit small to large chassis, Muncie Power Products offer conventional stack valve systems mounted in weather tight enclosures with air, cable or electric shift options, in addition to electronic spreader control packages. Muncie Power Products’ conventional systems can be configured to meet your exact specifications. Our exclusive pass-through design provides seamless plumbing at a reduced cost and the V080 Hybrid system allows fluid sharing during simultaneous operations and allows flow sharing during pass-through design provides full flow to the spreader when cylinders are idle.

BASE-TECHNOLOGY CONTROL

Muncie Power’s MESP 300 controller is easy to operate and setup with nine programmable settings of operation. With ground speed controls, the driver can focus on driving.

Our Infrared Air and Road Temperature Sensors provide operators with current and accurate data to make application decisions.

Muncie Power’s programmable push-button controls are not only ease of use but are available in a wide variety of configurations. Including button legends to our controls can be programmed up to eight, 15 AMP outputs to handle the power demands of heavy work trucks.

CONTROL SYSTEMS

The Advantage+ control system features Wi-Fi capability for screen controls, Wi-Fi support links and a premium design increasing reliability and revolutionizing fleet operation and maintenance.

COMPLETE OPERATION

Muncie Power Products’ Advantage+ snow and ice control systems combine two unique technologies to increase reliability and revolutionize the method in which snow and ice removal fleets are operated and maintained. The Advantage+ can be used with a spreader manifold and then paired with cable or airshift stack valves for cylinder functions to provide a customized snow and ice solution.

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HYDRAULIC CONTROLS

DIRECTIONAL CONTROL VALVES (OPEN CENTER)

Different spool, control, positioner and cable/air operation customization of Muncie Power Products’ electrohydraulic control valves. Each work section comes pre-assembled and 100 percent tested prior to shipment for customer satisfaction. The series of valves are available in air, cable or electric shift.

LOAD SENSE VALVES (CLOSED CENTER)

Available in both manual and electrohydraulic control options, our closed-centered, post-compensated load-sense valve features flow sharing sections with local compensators, resulting in an efficient, hydraulic control valve. Designed to fit small to large chassis, Muncie Power Products offer conventional stack valve systems mounted in weather tight enclosures with air, cable or electric shift options, in addition to electronic spreader control packages. Muncie Power Products’ conventional systems can be configured to meet your exact specifications. Our exclusive pass-through design provides seamless plumbing at a reduced cost and the V080 Hybrid system allows fluid sharing during simultaneous operations and allows flow sharing during pass-through design provides full flow to the spreader when cylinders are idle.

SMALL SPREADER VALVES

Available in air, cable and a combination of cable/electric operation. Muncie Power Products’ control consoles are functional and attractive while appealing to the eye. Our system encompasses data logging, report software to provide organized reports with filtering capabilities.

CYLINDER CONTROLS

Available in air, cable and a combination of cable/electric operation. Muncie Power Products’ control consoles are functional and attractive while appealing to the eye. Our system encompasses data logging, report software to provide organized reports with filtering capabilities.

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V080 Series

V100 Series

L25 Load Sense Valve

L75 Series

L125 Load Sense Valve

Manual Spreader Valve

Aircraft Control Package

Based on joystick deflection, Muncie Power’s proportional joystick control provides cylinder speed control. Our joystick work with cartridge valves or spool valves for uncompromised performance.

V080 Hybrid System

Standard Conventional

V080 Series

V100 Series

L25 Load Sense Valve

L75 Series

L125 Load Sense Valve

Manual Spreader Valve

Aircraft Control Package

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## Hydraulic Power Components

### Clutch Shift and Constant Drive Power Take-Offs

The CD10, C56/5, F86Q and Titan M11 Series are Muncie Power’s most popular power take-offs. Ideal for a wide variety of snow and ice control applications. Regardless of your application needs, we have a wide range of PTO options including those that fit Ford Super Duty trucks and Allison Transmissions.

### Clutch Pumps

High-performance and compact, cast iron housings make our clutch pumps a good choice for hydraulic systems with flow ratings up to 11 GPM and pressures up to 4,350 PSI.

### Clutch Pumps - L Series

N/K Series

### Pneumatic Pumps

Many flow ranges and options are available for Muncie Power’s variable displacement pumps. Primarily, the units have been designed specifically for the rigorous operations and environments encountered by snow and ice control vehicles.

### Variable Displacement Piston Pumps

Many flow ranges and options are available for Muncie Power’s variable displacement pumps. Primarily, the units have been designed specifically for the rigorous operations and environments encountered by snow and ice control vehicles.

### Gear Pumps

A proven performer in thousands of snow and ice control applications, the CD10 Series delivers high torque at low speeds. The CD10 Series is simple, rugged, effective and reliable. Muncie Power’s gear pumps are available in different sizes, pressures, shaft and mounting options to meet the needs of virtually any central hydraulic system application.

### Tandem Pumps

With two pumps in one, our tandem pump gives you the ability to satisfy the flow requirements of the cylinders. An increasingly popular option to achieving optimum operation of your equipment at all engine speeds, our tandem pump is built upon the proven K/L Series pumps.

### Telescopic Cylinders

Muncie Power’s single-acting telescopic cylinders are constructed from a solid, steel plate with extended stage overlap to minimize bending and reduce hydraulic fluid usage.

## DC Power Packs

Designed for reliable, quality performance, Muncie Power Products’ DC power packs feature motors available in 12 VDC and 24 VDC. Ideal for DC power packs for extensive applications including snow and ice applications such as snow plows.

## Hydraulic Indicators Displays and Switches

Muncie Power’s hydraulic indicator display is an easy-to-install solution for cautious indicator lights. The display mounts either on or above the dash and includes the switches you select with an optional buzzer available.

## Hydraulic and Pre-Wetting Reservoirs

Available in sizes from 15- to 100-gallon capacities, Muncie Power Products’ hydraulic reservoirs are created to suit a wide range of applications for snow and ice. For pre-wetting applications, we offer high-density, 65-gallon brine tanks mounted in pairs behind the cab and come complete with mounting hardware and plumbing components in required. Pre-Wet Kits

Developed to match ground speed and consistently maintain the desired gallons per ton of salt, our pre-wet kits are self-contained, weather resistant packages. Available with maximum flow rates of 3 GPM or 6 GPM in electric drive or 10 GPM in hydraulic drive, Muncie Power has options for all truck sizes.

Reduce contamination-related failures and equipment downtime with Muncie Power Products’ high-pressure and return line hydraulic filters – available in both nominal and absolute filtration.

## Hydraulic Filters

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## Pre-Wet Kits

Developed to match ground speed and consistently maintain the desired gallons per ton of salt, our pre-wet kits are self-contained, weather resistant packages. Available with maximum flow rates of 3 GPM or 6 GPM in electric drive or 10 GPM in hydraulic drive, Muncie Power has options for all truck sizes.
PRODUCT OVERVIEW

HYDRAULIC COMPONENTS

HYDRAULIC POWER COMPONENTS

CLUTCH SHIFT AND CONSTANT DRIVE POWER TAKE-OFFS

The CD10, CS65, FR6Q and Titan MC1 Series are Muncie Power’s most popular power take-off selections for snow and ice control applications. Regardless of your application needs, we have a wide range of PTO options including those that fit Ford Super Duty trucks and Allison Transmissions.

HYDRAULIC COMPONENTS

CLUTCH PUMPS

High-performance and compact, cast iron housings make our clutch pumps a good choice for many central hydraulic systems with flow ratings up to 9 GPM and pressures up to 3,500 PSI.

CLUTCH FILTERS

A proven performer in thousands of snow and ice control vehicles, the Muncie Power Series of clutch filters are simple, rugged and effective. Our series of filters is designed to meet the needs of virtually any application requiring reliable filtration.

GEAR PUMPS

Amongst Muncie Power Products’ three series of low-speed, high-torque motors, we offer the 30 different displacement sizes. Each of our series of motors can be used with any equipment requiring rotary power.

LOW SPEED HIGH TORQUE MOTORS

A proven performer in thousands of snow and ice control vehicles, the Muncie Power Series of low-speed, high-torque motors are simple, rugged and effective. Each of our series of motors is designed to meet the needs of virtually any application requiring reliable filtration.

TANDEM PUMPS

Many flow ranges and options are available for Muncie Power’s variable displacement pumps. These pumps have been designed specifically for the rigorous operations and environments encountered by snow and ice control vehicles.

TANDEM CYLINDERS

Muncie Power’s single-acting telescopic cylinders are constructed from a solid, steel plate with extended stage overlap to minimize bending and reduce hydraulic fluid usage.

DC POWER PACKS

Designed for reliable, quality performance, Muncie Power Products’ DC power packs feature motors available in 12 VDC and 24 VDC. Use our DC power packs for numerous applications including snow and ice control vehicles such as snow plows.

HYDRAULIC INDICATOR DISPLAYS AND SWITCHES

Muncie Power’s hydraulic indicator display is an easy-to-install solution for caution indicator lights. The display mounts either on or below the dash and includes the switches you select with an optional buzzer available.

HYDRAULIC INDICATOR FILTERS

Reduce contamination-related failures and equipmment downtime with Muncie Power Products’ high pressure and return line hydraulic filters – available in both nominal and absolute filtration.

HYDRAULIC FILTERS

A proven performer in thousands of snow and ice control vehicles, the Muncie Power Series of hydraulic filters are simple, rugged and effective. Each of our series of filters is designed to meet the needs of virtually any application requiring reliable filtration.

PRE-WET KITS

Developed to match ground speed and consistently maintain the desired gallons per ton of salt, our pre-wet kits are all weather, weather resistant packages. Available with maximum flow rate of 5 GPM or 10 GPM in electric drive or 10 GPM in hydraulic drive, Muncie Power has options for all truck sizes.

PRE-WET KITS

Available in sizes from 15- to 100-gallon capacities, Muncie Power Products’ hydraulic reservoirs are created to suit a wide range of applications for snow and ice. For pre-wetting applications, our reservoirs are available in high capacity tanks installed behind the cab and come complete with mounting hardware and plumbing components.

HYDRAULIC AND PRE-WETTING RESERVOIRS

Developed to match ground speed and consistently maintain the desired gallons per ton of salt, our pre-wet kits are all-weather, weather resistant packages. Available with maximum flow rate of 5 GPM or 10 GPM in electric drive or 10 GPM in hydraulic drive, Muncie Power has options for all truck sizes.

HYDRAULIC RESERVOIRS

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