

# PRODUCT OVERVIEW

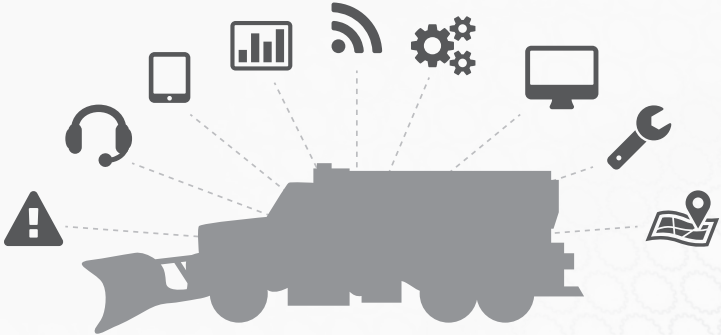
### CONTROL SOLUTIONS



### SPREADER PACKAGES



### HYDRAULIC COMPONENTS



SIMPLY BETTER TECHNOLOGY

# CONTROL SYSTEMS

## ADVANTAGE+®

The Advantage+® control system features GPS data logging, touch screen controls, Wi-Fi support links and a premium-design increasing reliability and revolutionizing fleet operation and maintenance.

Wi-Fi   ANDROID  GPS



## 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 between the controls and hydraulics. 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 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 provides full flow to the spreader when cylinders are idle.



V080 Hybrid System

Standard Conventional

# 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 air-shift stack valves for cylinder functions to provide a customized snow and ice solution.



Advantage+®

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.



MESP 3016/3017

Like the MESP 3016/3017, the MESP 3020 is an electronic spreader package. Our MESP 3020 includes an integrated hoist circuit, simple setup and has an easy-to-use controller.



MESP 3020

# ELECTRONIC SPREADER CONTROLLERS

## HIGH-TECHNOLOGY CONTROL

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



Advantage+™  
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. To compile information easily, our system encompasses data-logging, report software to provide organized reports with filtering capabilities.



## 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.



MESP 300  
Controller

## AIR AND ROAD TEMP SENSOR

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



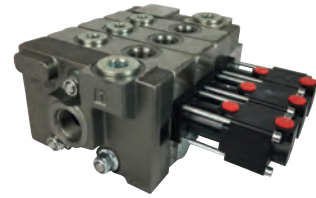
# HYDRAULIC CONTROLS

## DIRECTIONAL CONTROL VALVES (OPEN CENTER)

Different spool, control, positioner and accessory options allow for customization of Muncie Power Products' directional 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.



V080 Series



V130 Series

## 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.



L125 Load Sense Valve



L275 Series

## 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.



Manual Spreader Valve

## CYLINDER CONTROLS

Available in air, cable and a combination of cable/air operation, Muncie Power Products' control consoles are functional and attractive while meeting the demands of your application.



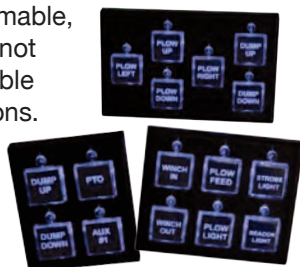
Control Consoles

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



Airshift Control Package

Muncie Power's programmable, push-button controls are not only backlit but are available in a variety of configurations. Including button legends, our controls come with up to eight, 15 AMP outputs to handle the power demands of heavy work trucks.



Control Panels

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



Joystick and Controller

# HYDRAULIC POWER COMPONENTS

## CLUTCH SHIFT AND CONSTANT DRIVE POWER TAKE-OFFS

The CD10, CS6/8, 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.



CD10 Series



CS6/8 Series



FR6Q Series



Titan MC1 Series

## 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 11 GPM and pressures up to 4,350 PSI.



H/K Series

Mounting Kits

## VARIABLE DISPLACEMENT PISTON PUMPS

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



PVE Series

## GEAR PUMPS

A proven performer in thousands of snow and ice control trucks, our line of gear pumps 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.



L Series

## TANDEM PUMPS

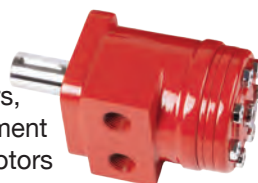
With two pumps in one, our tandem pumps give an independent flow source to the spreader operation and another to satisfy the flow requirements of the cylinders. An increasingly popular option to achieving optimum operation of your equipment at all engine speeds, our tandem pump is built upon the proven K/L Series pumps.



Tandem Pumps

## LOW SPEED HIGH TORQUE MOTORS

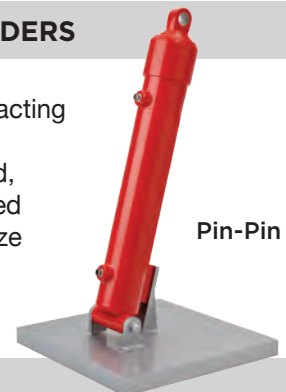
Amongst Muncie Power Products three series of low-speed, high-torque motors, we offer 39 different displacement sizes. Each of our series of motors can be used with any equipment requiring rotary power.



MB Series

## TELESCOPIC CYLINDERS

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



Pin-Pin

# 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. Use our DC power packs for numerous applications including snow and ice applications such as snow plows.



## HYDRAULIC FILTERS

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 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.



Hot Oil Cold Oil Low Oil Filter Bypass  
MSD1



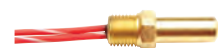
Body Up Switch



Filter Bypass



Hot Oil/Low Oil



Cold Oil

## HYDRAULIC AND PRE-WETTING RESERVOIRS

Available in sizes from 15- to 100-gallon capacities, Muncie Power Products' hydraulic oil 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 if 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.



Electric Pre-Wet



Hydraulic Pre-Wet