



MP²

**CENTRAL
HYDRAULIC
SYSTEMS**



**MUNCIE
DOES IT ALL**

**FROM THE BASIC TO THE
HIGHEST TECHNOLOGY
PRODUCTS AVAILABLE,
MUNCIE POWER PRODUCTS
IS YOUR SINGLE SOURCE
SUPPLIER OF HYDRAULIC
SYSTEMS FOR SNOW AND
ICE CONTROL TRUCKS.**



VARIABLE DISPLACEMENT PISTON PUMPS

Many flow ranges and options available. All are designed for the rigorous operation and environment of snow and ice control vehicles.

Product Brochure MP98-03

PUMP & PTO FAMILY

Muncie is a world class leader in PTO's and Pumps. Our lines are as extensive as they come. The products on this page are examples of those particularly suited and popular to snow and ice control applications.



CLUTCH PUMPS

High performance and compact cast-iron housings make these pumps a good choice for many central hydraulic systems. Flow ratings to 11 GPM and pressures to 4350 PSI.

Product Brochures MP89-14 & MP93-03



TANDEM PUMPS

Two pumps in one! Gives an independent flow source to the spreader operation and another to satisfy the cylinders. An increasingly popular option to meet optimum equipment operations at all engine speeds. Built upon the proven K/L series pumps.



K/L SERIES GEAR PUMPS

These are proven performers in thousands of snow and ice control trucks. Simple, rugged, effective and reliable. Sizes, pressures, shaft and mounting options for virtually any central hydraulic system application.

Product Brochures MP89-12 & MP89-13



CD10 AND CS20 PTOs

Two of our most popular PTO selections for snow and ice control applications. The CD10 is a constant drive PTO and the CS20 is a clutch shiftable PTO. Both fit the Allison World Transmissions. Of course, Muncie has PTO's for all of your application needs.



CLUTCH PUMP MOUNTING KITS

A full range of kits is available for various chassis. These mounting kits are factory designed and built for a professional installation that insures perfect alignment and optimum operation of your clutch pump.

Product Brochure MP87-01

ELECTRONIC SPREADER CONTROLS

HIGH TECHNOLOGY CONTROLLER

DATALOG

Lbs/Mile, MPH, Date, Time, Product Selection, Road Temperature and much, much more is recorded every 1/10-10 mile increments. Thousands of miles of data can be stored before the memory is full. Computer software to analyze the data comes with the product.

RF DATALINK

Datalog information is automatically transmitted to a base station via this pre-approved FCC radio frequency transceiver. Design precautions have been taken regarding any interference problems.



MESP-402

GPS

Designed to interface with Global Positioning Systems. Operation can be established to receive positional information for insertion to the datalog or datalog information can be passed to the GPS system for real time data transmission.

ROAD SURFACE / AIR TEMPERATURE SENSOR

An infrared sensor that accurately measures road temperatures and air temperatures. Displays both values on the MESP-402E screen and inserts them into the datalog information. User calibrations available.



PRE-WETTING SYSTEM

Pre-Wetting agents are applied in proportion to the granular product discharge. Muncie also offers the entire system with tanks, spray bars, pumps, and mounting hardware.

ANTI-ICING CONTROL

All MESP-402E controllers are capable of operating the hydraulic spreader system as a drive for Anti-icing equipment. Special displays and program adjustments are designed in for this important application.



MID TECHNOLOGY CONTROLLER



MESP-401

A mid-level technology spreader control that is loaded with important features:

- Groundspeed controlled spreading • Manual operation
- Programmable adjustments using displays and knobs
- Blast and Pause controls • Lighted LED displays
- Auto short-circuit, open-circuit detection and protection
- Closed-loop spreader control
- Self calibration feature (soon to be released)

BASE TECHNOLOGY CONTROLLER



MESP-400

Our basic electronic spreader control with these features:

- Manual operation with an automatic shutdown feature when the truck stops
- Lighted knob reference positions
- Blast and Pause functions
- PWM valve drive (adjustable to all popular valve specs)



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PACKAGED CENTRAL HYDRAULICS



Muncie's pre-packaged central hydraulics offers many very important advantages over systems put together in a piecemeal design.

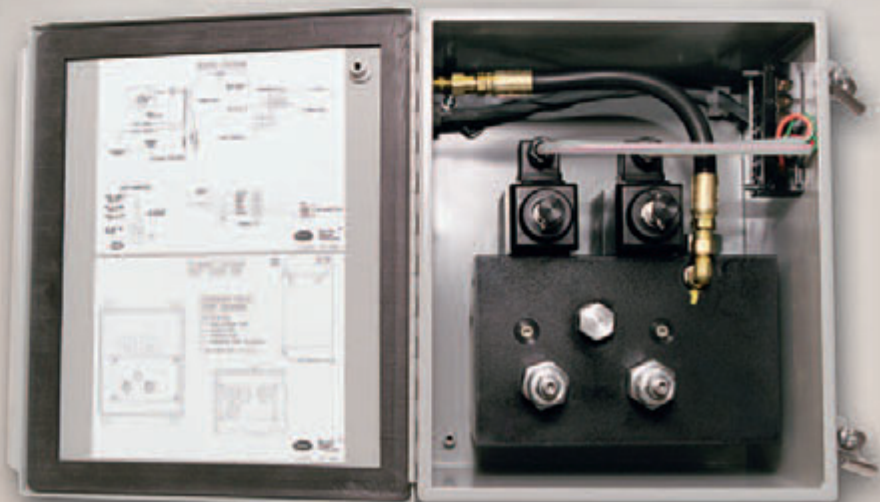
Factory designed and assembled.

This assures compatibility, reliability and accountability.

Documentation packages shipped and archived. You receive drawings, parts lists, and instructional manuals. Plus we keep those records for years.

Uniformity. If you have multiple trucks, pre-packaged systems offer you consistency. This is important for service and parts.

We simply do it better and more efficiently. We have the resources and manufacturing volume to get things done that are not possible by local shops.



Muncie Power Products, Inc.



V20 SERIES

**An industry standard.
This valve series can do it all.**

- Useable with gear or piston pumps
- Load sense options
- Pressure compensated sections, and a vast array of section options available for almost any function or feature
- Lever, cable, air, hydraulic or solenoid shiftable



65 SERIES LOAD SENSE VALVE

Lots of options and high flow-high pressure capabilities makes this attractive for larger applications.

- Flows to 65 GPM and pressures to 4000 PSI
- Individual pressure compensation on each section
- A variety of spool options for flow control and directional control

HYDRAULIC CONTROL VALVES

A full array of spreader and cylinder control valves are available. Manual, solenoid, air shifted, open-center, closed-center and load-sense are all in our inventory.



MANUAL SPREADER VALVE

An old standby, thousands of these valves have served in the snow and ice control market for years.

- 12 detented positions of control for each the spinner and auger
- On-off handle
- Pressure relief available



MESP-202B

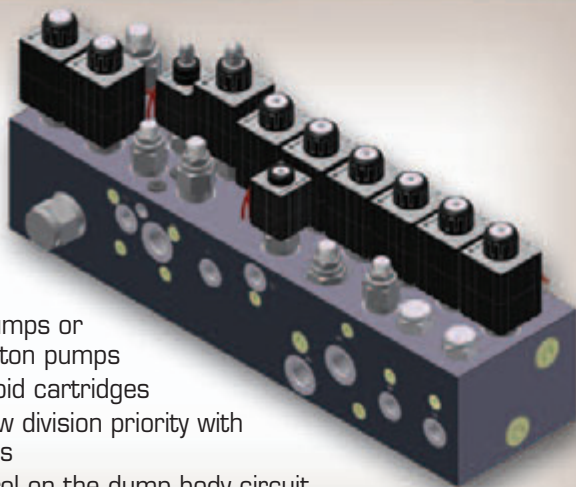
Our gold-standard spreader valve package. A "bulletproof" performer!

- Input flows to 35 GPM
- Exceptionally linear flow control characteristics (accurate open-loop operation)
- Full pressure compensation
- Direct solenoid operation
- Pressure relief
- Manual overrides

MESP-220A

A complete Central Hydraulic Valve package.

- 25 GPM input
- Operates with gear pumps or as load sense with piston pumps
- All direct acting solenoid cartridges
- Special on-demand flow division priority with gear pump applications
- Counter-balance control on the dump body circuit
- Inexpensive option for proportional cylinder control
- Work port pressure relief on the dump and plow cylinders



MESP-200A

A slightly smaller version of its big brother MESP-202B but, with all of its qualities.

- 25 GPM input flow
- Direct acting solenoids
- Very linear flow control characteristics
- Fully pressure compensated
- Optional pressure relief



Muncie Power Products, Inc.

ACCESSORIES



PRE WETTING RESERVOIRS



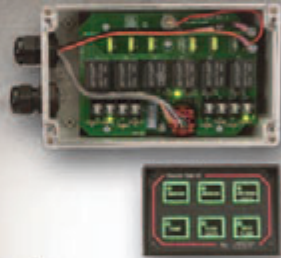
CABLE CONTROLS



DC POWER PACKS



POLY & STEEL RESERVOIRS



LIGHT CONTROLS



HYDRAULIC FILTERS



HYDRAULIC JOYSTICKS

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Power
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Muncie Power Products, Inc. Member of the Interpump Hydraulics Group
General Offices and Distribution Center • P.O. Box 548 • Muncie, IN 47308-0548
(765) 284-7721 • FAX (765) 284-6991 • E-mail info@munciepower.com
Web site <http://www.munciepower.com>

Drive Products, Inc., Toronto, Exclusive Agents for Canada, ISO Certified by an Accredited Registrar

