

# Omni-System<sup>®</sup> ESP

## CONTROL SOLUTION



# Omni-System®

## GROUNDSPEED CONTROL MADE SIMPLE

Designed to fit small to large chassis, the Omni-System® Electronic Spreader Package control solutions feature groundspeed control, which allows for salt conservation, saving money, and the driver to focus on driving. These systems are simple to install and setup, and are perfect for new or retrofit installations.

### MEETING THE NEEDS

#### OESP 3016/17

Class 5 to Class 8 Chassis



Tailgate / V-Body / Muni-Body Spreader Systems



#### OESP 3020

Class 5 Chassis



Tailgate / V-Body / Muni-Body Spreader Systems



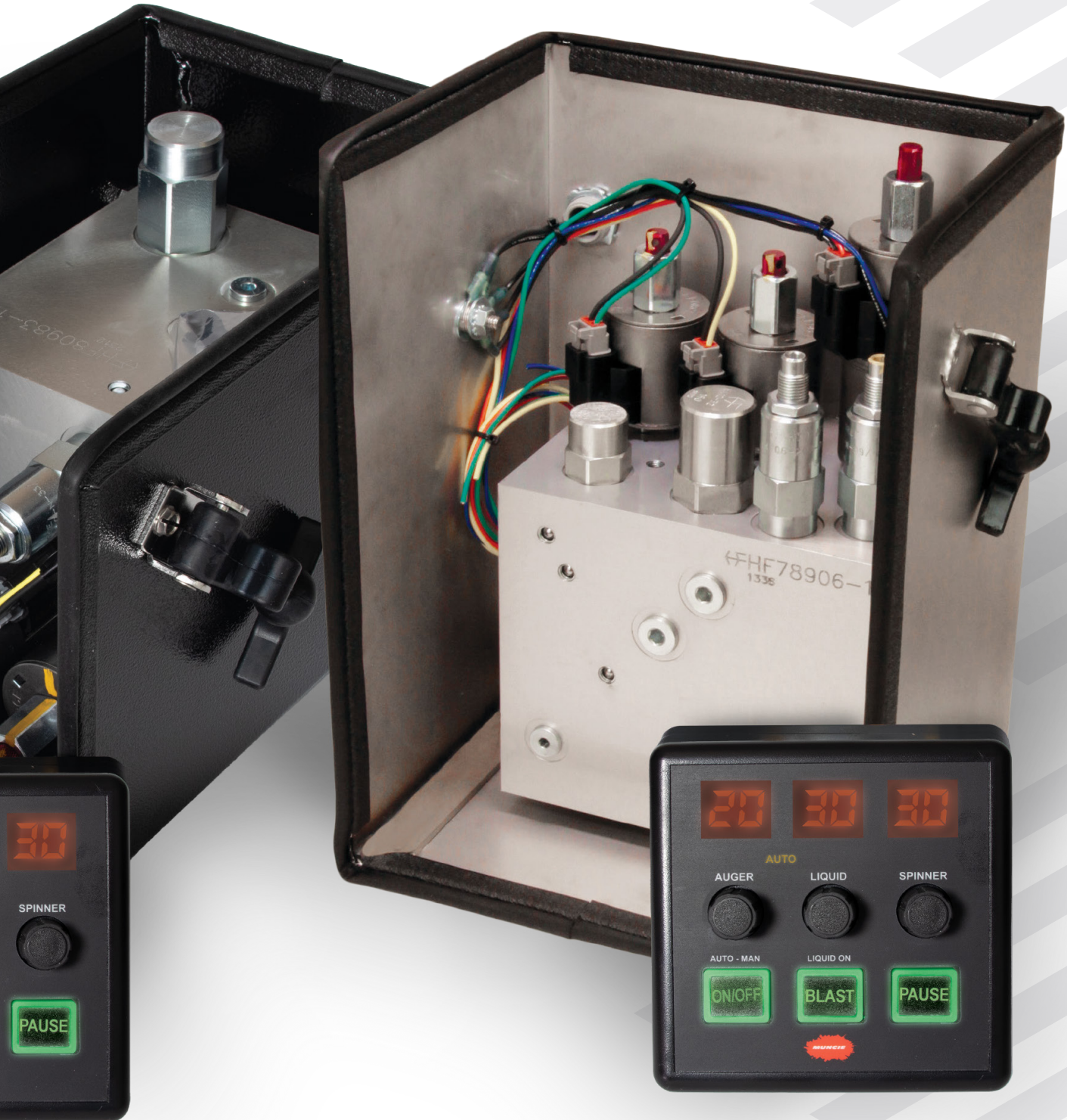
Hoists\*



\* Hoist maximum flow = 6 GPM. System not compatible with SA telescopic cylinders.



# ESP



# OESP 3016/17



The Omni-System® ESP 3016/17 is designed for easy, consistent, and reliable operation while providing driver safety.

## KEY FEATURES

- Upgraded controller with digital readout, simple setup, and optional adjustable RAM mounting system
- Features groundspeed control and the ability to control the spinner, auger/conveyor, and optional liquid setup (hydraulic and electric)
- Fits Class 5 to Class 8 chassis including tailgate, V-body, muni-body, and spreader systems



<b>MAX. FLOW RATE</b>	40 GPM (151.4 LPM)
Auger Flow (Proportional)	0–10 GPM (0–38 LPM)
Spinner Flow (Proportional)	0–8 GPM (0–30 LPM)
Liquid Flow* (Proportional)	0–6 GPM (0–23 LPM)

**MAX. ADJUSTABLE RELIEF** 3,000 PSI (207 BAR)

**MAX. SYSTEM PRESSURE** 3,000 PSI (207 BAR)  
Factory Setting 1,800 (124 BAR)

\* Optional

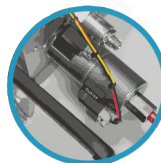
## INTUITIVE CONTROL SETUP

Turnkey ready system is easier to setup and operate



## CARTRIDGE VALVE DESIGN

Premium solution for hydraulic circuits: reduces internal hose connections for simpler install, easier to service, and includes flow sharing to keep all functions operating



# MODEL NUMBER CONSTRUCTION

## OESP - 30 - 16 - G - E - ASM - SS

OESP – Omni-System® ESP

30 – OESP Controller

### Valve Configuration

16 – Open Center (Gear Pump)

17 – Closed Center (LS Piston Pump)

### Hydraulic Functionality

G – Standard Manifold  
*(Auger/Spinner)*

H – Liquid Manifold  
*(Auger/Spinner/Liquid)*

E – Standard Manifold plus  
PV76 Pre-Wet Exhaust Valve\*

\* Recommended for smaller duty vehicles

### Enclosure Material Selection

SS – Stainless Steel

Blank – Powder  
Coated Steel

### Enclosure Configuration

Blank – No Enclosure

ASM – Steel Enclosure

### Pre-Wet

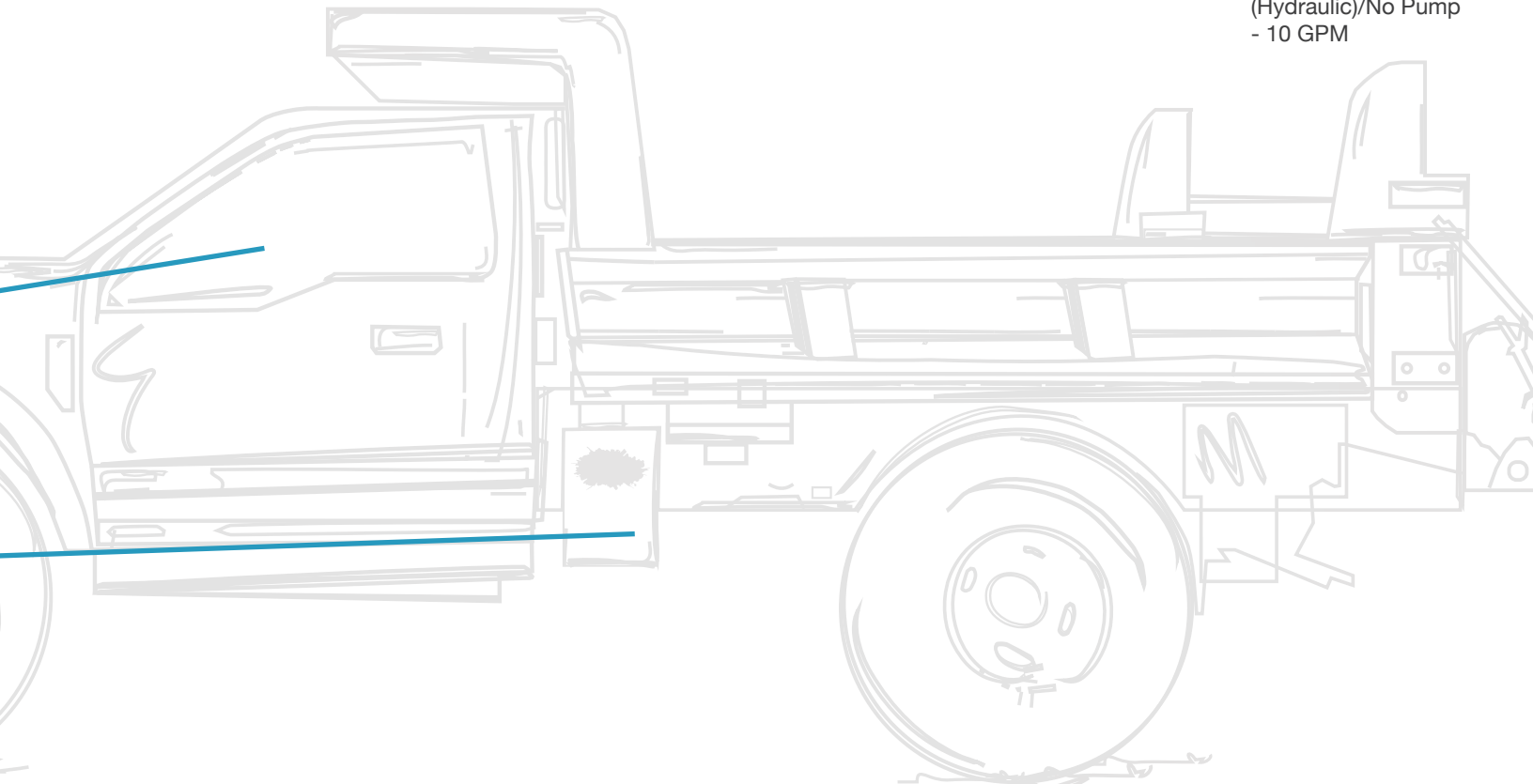
Blank – Loose lead  
supplied  
(Electric)/  
No Pump

3 – Electric Pre-Wet  
Incl. Pump w/  
Enclosure - 3 GPM

5 – Electric Pre-Wet  
Incl. Pump w/  
Enclosure - 5 GPM

L – Hydraulic Pre-Wet  
Incl. Pump w/  
Enclosure – 10 GPM

C – Loose lead supplied  
(Hydraulic)/No Pump  
- 10 GPM



# OESP 3020



The Omni-System® ESP 3020 includes an integrated hoist circuit and an easy-to-use controller for driver convenience.

## KEY FEATURES

- Includes flow sharing, auto or manual operation, and 5 levels of control for auger, spinner, and hoist
- Features groundspeed control to allow for salt conservation and for the driver to stay focused on the road
- Fits Class 5 chassis including tailgate, V-body, muni-body, and spreader systems



<b>MAX. FLOW RATE</b>	20 GPM (75.7 LPM)
Auger Flow (Proportional)	13 GPM (49 LPM)
Spinner Flow (Proportional)	5 GPM (19 LPM)
Liquid Flow (Proportional)	6 GPM (23 LPM)

**HOIST DOWNSIDE RELIEF** 950 PSI (66 BAR)

**MAX. ADJUSTABLE RELIEF** 3,000 PSI (207 BAR)

**MAX. SYSTEM PRESSURE** 3,000 PSI (207 BAR)  
Factory Setting 2,500 (172 BAR)

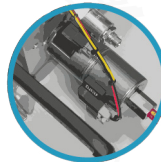
## INTUITIVE CONTROL SETUP

Turnkey ready system is easier to setup and operate



## CARTRIDGE VALVE DESIGN

Premium solution for hydraulic circuits: reduces internal hose connections for simpler install, easier to service, and includes flow sharing to keep all functions operating



# MODEL NUMBER CONSTRUCTION

## OESP - 30 - 20 - G - ASM - SS

OESP – Omni-System® ESP

30 – OESP Controller

### System

20 – Spreader w/ Integrated Hoist

### Manifold

G – Standard Manifold

*(Post-Compensated - Flow Sharing)*

### Finish

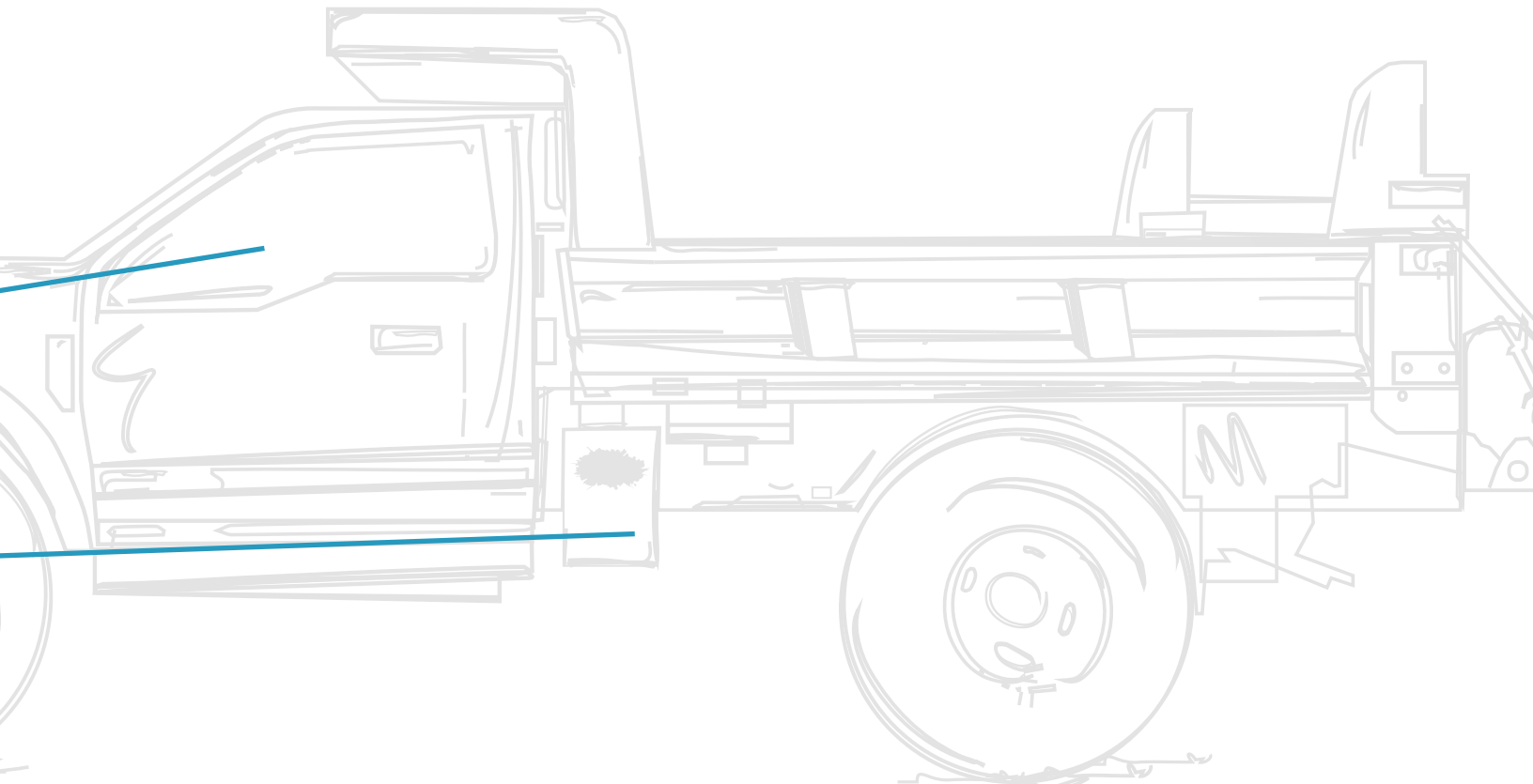
SS – Stainless Steel

Blank – Powder  
Coated Steel

### Enclosure

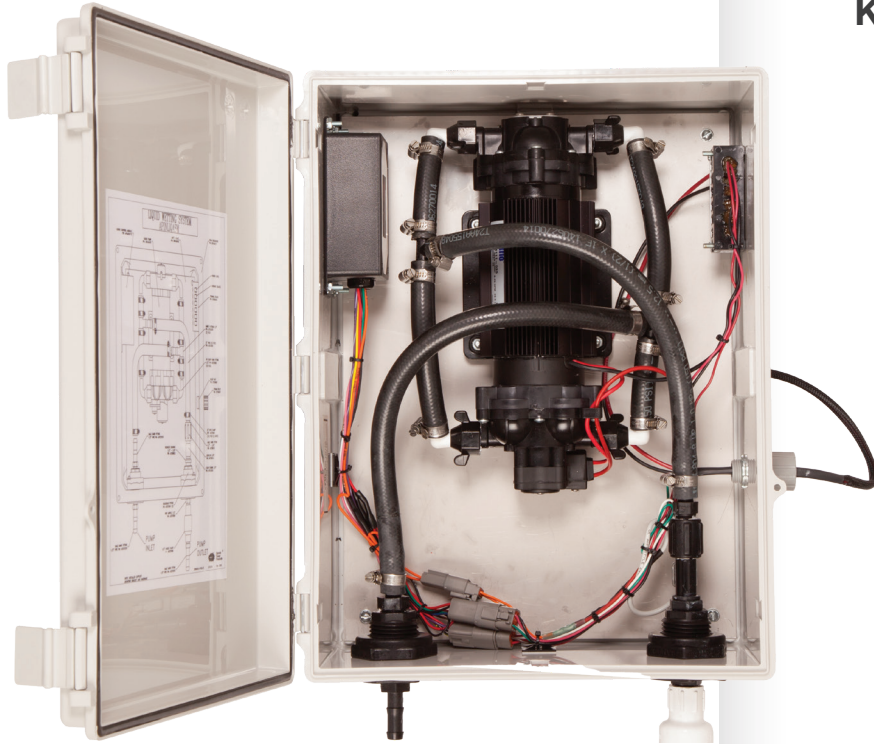
Blank – No Enclosure

ASM – Steel Enclosure



# PRE-WET SYSTEMS

## ELECTRIC SYSTEM



## KEY FEATURES

- Includes an integrated hoist circuit, simple setup, and has an easy-to-use controller
- Features groundspeed control to allow for salt conservation and for the driver to stay focused on the road
- Fits Class 5 chassis including tailgate, V-body, muni-body, and spreader systems
- Hydraulic and electronic drives available
- Configurable to work with Muncie Power snow and ice systems as well as other systems on the market
- Open and closed loop models available in most configurations
- All products have proportional electronic control for greater accuracy
- Flow turbines available with most configurations for greater precision

## HYDRAULIC SYSTEM



## SPECIFICATIONS

### Electric Specifications:

- 2 available models: 3 GPM (10 Amp) and 6.25 GPM (20 Amp)
- 45 PSI maximum output pressure

### Hydraulic Specifications:

- 15 GPM maximum hydraulic flow (Muncie Power provided valve)
- Independent hydraulic or auger exhaust options available
- Flow Sharing Option Available for Omni-System® Plus systems
- 10 GPM maximum liquid flow (10H option)
- 100 PSI maximum liquid pressure (10H option)



# MODEL NUMBER CONSTRUCTION

## OMPWT - 1 - ASM - 10H

### System Type

OMPWT – Omni-System®  
ESP Pre-Wet System

### Revision

1 – Original Elec. NEMA  
Enclosure

### Pump

03M – 3 GPM Electric  
05M – 6 GPM Electric  
10H – 10 GPM Hydraulic

### Enclosure

ASM – Assembled Complete  
w/ Enclosure  
XXX – No assembly/  
Kit Only









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