

## Electric control for medium-duty snow & ice truck equipment.

The march towards green continues to be a focal point in the truck equipment industry. Green initiatives have come in several forms; better fuel economy, reduction of material waste and equipment operated by electricity.

Henderson is proud to introduce the **CHARGE** Clean-Power Series, targeting a number of green initiatives. We start with electric control for medium-duty snow and ice truck equipment (classes 3-7). Unique to the industry, the **CHARGE** harnesses electricity and employs a CAN bus system to manage the entire snow and ice control package. This bumper-to-bumper management covers the snow plow, dump body, lighting, sand/salt spreader, spinner, pre-wet system and more. Operator friendly, all functions have been condensed into a single joystick controller that fits conveniently inside a cup holder.

**Compact  
System with  
Easy Setup &  
Installation**

The **CHARGE** system is also intelligent, aiding in the reduction of applied material by incorporating proportional ground speed control into the spreader's material output functions, a feature commonly absent on spreaders using electric controls.

Furthering Henderson's commitment to **GREEN**, note the elimination of a dedicated gas engine commonly used to power sand/salt spreaders. This reduces fuel consumption, noise pollution and maintenance associated with normal spreader operation.

As a whole, the **CHARGE** will save operators up to \$14 per day in fuel costs, when compared to complex central hydraulic systems. Estimate based on an 8 hour day, horsepower required to drive the equipment and a pump price of \$4.00 per gallon. Henderson is once again leading the way in emerging truck equipment technology, as expected from...

*The  
Dependable  
Ones™*



# FEATURES



Select A Snow Plow



Select A Dump Body



Select A Sand/Salt Spreader



Power Unit to Match Package

## PLOWING FUNCTION

Soft button thumbwheel type control directs up/down left/right. Speed and pressures of pump are optimized for cylinders used on Henderson MTP (medium-duty trip-edge plow) as part of this uniquely designed integrated package.

## DUMPING FUNCTION

Dual button safety lock protects user from accidental motion of dump, yet are easily maneuvered during plowing. Electric motor/pump combination is designed to allow high flow at low pressure and still keep amperage low for telescopic hoist or lower flows at high pressure to allow good control on underbody hoists. Double acting hoists or first stage double acting cylinders work smoothly with less pump wear.

## SPREADER FUNCTION

Custom designed unit requires little setup. Since the unit is designed specifically for Henderson spreaders it only requires a few inputs during installation to become fully operational. Adding an optional GPS sensor or other speed input device to the 12v dc driven spreader allows for ground speed interrupt or proportional ground speed control of spreading functions. Liquid pre-wet follows the conveyor speed to maintain a constant mixture regardless of truck or conveyor speed changes. Blast function for intersections standard. Power leads for an optional automatic oiler and strobe light included with controls. Rates displayed in lbs/mi, gal/ton, and feet of spread for proportional control or 1-10 settings for manual control.

## CHARGE POWER UNIT

Integral in-tank pump with heavy-duty electric motor powers this unit. Includes a weather resistant cover and tank shape that allows smooth hose routing. Unit also includes in-tank return filter and oil temperature/level sensor. CAN junction block completely sealed with IP 67/68 connectors. LED indicators on junction block as well as valve allow easy diagnostics. Relief adjustments for plow or entire valve allows adjustment for optimal use.

## WORKS with

### SNOW FLOWS:

- MTP - medium-duty trip-edge plow
- MSP - mid-size snow plow

### DUMP BODIES:

- MARK E - single axle dump body
- MARK III - single axle dump body
- MARK IV - single axle dump body

### DUMP HOISTS:

- TELESCOPIC
- UNDERBODY

### SPREADERS: w/Electric Drive System

- FSP - pickup sand & salt spreader
- FSM - medium-duty sand & salt spreader
- FSH - heavy-duty sand & salt spreader
- TGS - tailgate sand & salt spreader
- RTS - replacement tailgate sand & salt spreader

## OPTIONS

- Pre-wet System
- Ground Speed Interrupt
- Proportional Ground Speed Control
- Lighting
- Automatic Oiler
- CAN bus driven
- Communicates with the plow, dump body, spreader, etc...
- On screen display keeps operator informed
- On-the-go adjustments at your fingertips



**CAN<sup>TM</sup>**  
**COMMAND**  
Electric Control System

- Add unlimited number of functions to match need
- Compact, fits conveniently inside cup holder

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