

# SALT SPREADERS CONTROL SYSTEM

**NEW ECOMATIC CONTROL UNIT  
TRACKED BY GPS**



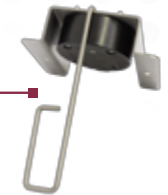
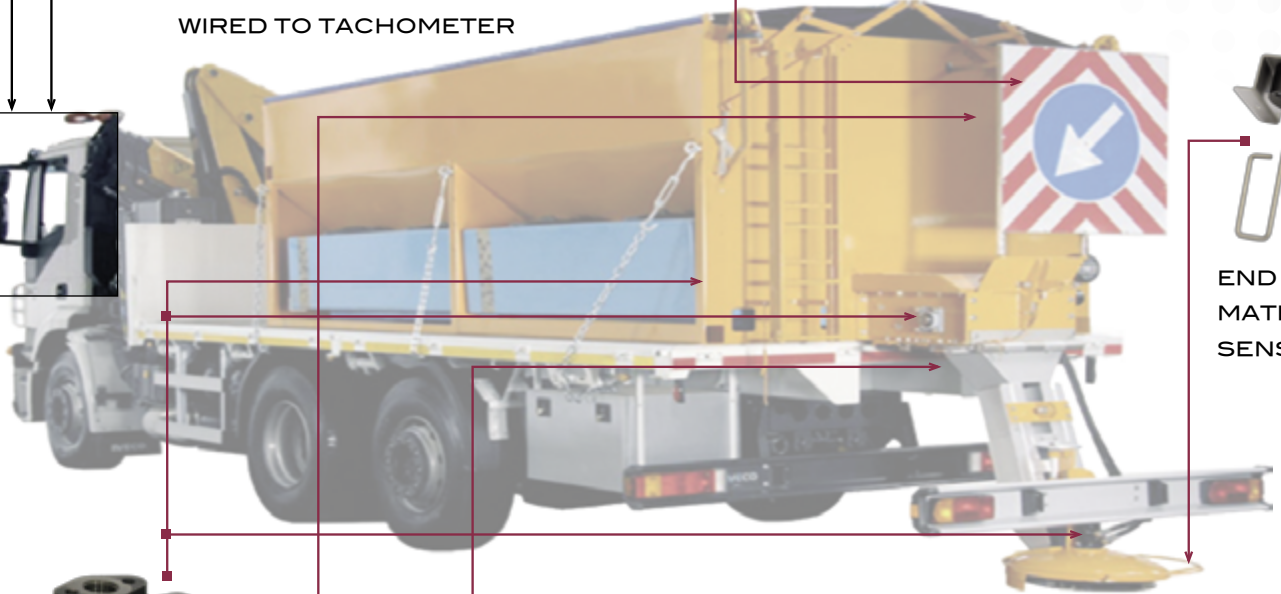
GPRS

**EASY TAC CONTROL UNIT  
WIRED TO TACHOMETER**



**HYDRAULIC PROPORTIONAL VALVE SYSTEM**

- CONVEYOR/AUGER
- SPINNER
- WATER PUMP



**END OF MATERIAL  
SENSOR**



**HYDRAULIC MOTORS WITH RPM PICK-UP  
SENSOR**

- CONVEYOR/AUGER
- SPINNER
- WATER PUMP



**SENSORS**

- SPINNER POSITION
- PAVEMENT TEMPERATURE



**WIRING HARNESS**

**TRACTOR SPREADER**



**AMON**  
ELECTRO-HYDRAULIC CONTROLS

*The Customizing Attitude*

# SALT SPREADERS CONTROL SYSTEM

## OPERATIONS

Spreading system controls conveyor (or auger) and spinner motor speed.

Conveyor (or auger) speed motor allow to get the requested amount of material per surface unit ( $\text{gr}/\text{m}^2$ ) while spinner allow to spread material at the requested width (m) depending on the road where system is operating.

For simple system amount of material for surface unit and spreading width are set manually otherwise, for more sophisticated system, amount of material set by operator automatically depends on vehicle speed.

Display unit, depending on machine parameters like dimensions, spreading efficiency, can be tuned on many different spreading system getting best performance.

Pavement temperature can also be used to improve spreading efficiency. Graphical display allows to show in an easy way spreading parameters, such as:

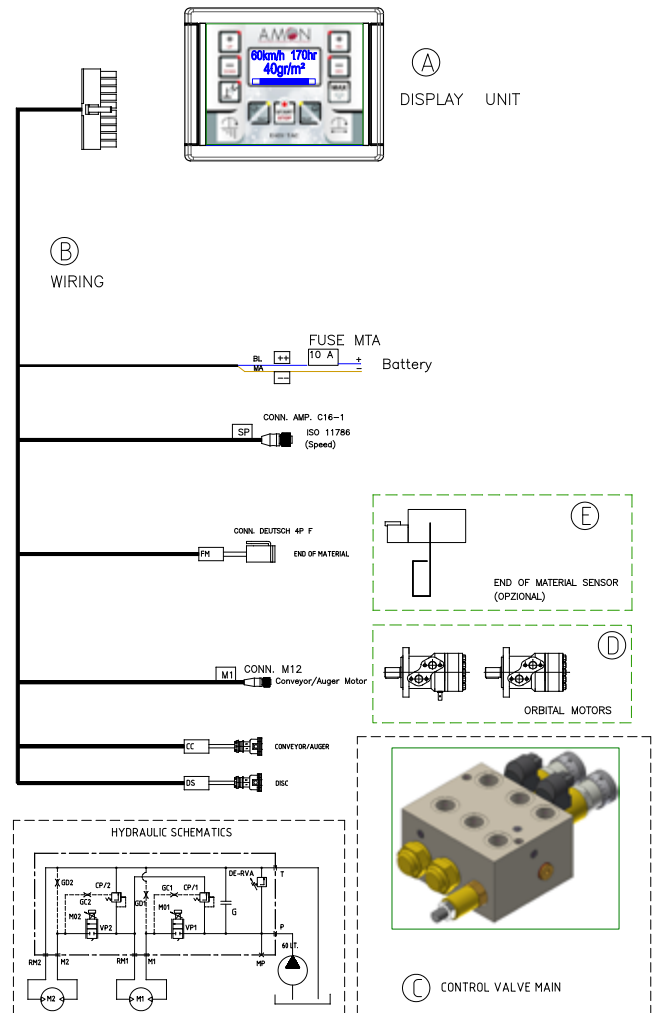
- amount of material per surface unit ( $\text{gr}/\text{m}^2$ )
- spreading width (m)
- vehicle speed (km/h)
- working time: total and partial
- amount of material spread: total or daily
- pavement temperature

Easy programmability and acquisition capability allows to install system in different kind of spreading system, selecting on the field what kind of optional are installed: liquid together with material, beacon lamp, working lamp and direct driving of actuator for spreader that can be self-loaded (in other words bucket function). Display has CAN interface then it put in a CAN network depending on customer requests.

## DIAGNOSTIC

- speed sensors fail
- proportional solenoid valves not connected or in short circuit
- no material spread during spreading (thanks to microphone sensor)

## APPLICATION EXAMPLE



## TECHNICAL SPECIFICATIONS

- **Electrical Power Supply:** 12-24Vcc
- **Current consumption:** max 5 A @ 12Vcc
- **Spreading Resolution:** 5 gr/m<sup>2</sup>
- **Maximum oil flow at input port:** 60 l/min
- **Maximum operating pressure:** 250 bar
- **Regulated oil flow for each motor:** 0-50 l/min