



spreader **SOLID L**



spreader with  
chain conveyor





## Application

SOLID L spreaders are intended for the gritting of icy roads, paths and other surfaces using salt, sand and salt-and-sand mixes.

## Technical description

Dosage of the spreading material is done by the chain conveyor. This method enables operation with adhesive materials (wet salt, sand, clay-like material) since there is no tunnel effect. The structure of the spreader's carrying frame enables simple adjustment of the spreader to the vehicle, which is of particular importance for axle load distribution. Solid L spreaders can be equipped with a pre-wet spreading system

*spreader with chain conveyor*

which enables the use of sodium chloride and calcium chloride solution. Chain conveyor is controlled via control unit located in vehicle cabin. The spreading parameters are dependent on vehicle's speed, i.e. operation is speed-dependent.

The Ro-Ro loading system enables simple loading of the spreader into the truck's tipper box.

In standard version, Solid L spreader is equipped with:

- hopper;
- dry agent dosage system with hydraulic drive (chain conveyor driven via reductor and hydromotor);
- dry agent distribution system (exit chutes and spinner made from stainless steel);
- manual spreading pattern adjustment system;
- carrying frame with the 5t payload;
- protective grid above the hopper (openings 50x50 mm, hot zined);



### Advantages of the SOLID L spreader:

- ❑ operates reliably even in the toughest conditions
- ❑ works with the most demanding spreading agents (wet, sticky sand ...)
- ❑ very low maintenance costs

#### Beacon - rotating light

Warns other drivers about current spreading. Additional rotating light is available on request. Option.

#### Dosage system

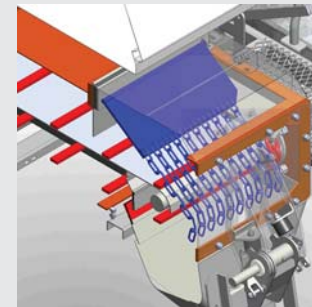
Dosage of the spreading material is done by chain conveyor thus enabling operation with adhesive materials (wet salt, sand, clay-like material) without tunnel effect.

Adjustable barrier at exit chute allows height adjustment of the spreading material layer, depending on the type of material (salt, stone, sand).

The protective elements of the chain conveyor are part of the standard equipment and they reduce the wear of conveying system components.

#### Lump crushing system

Lump crushing system, as standard equipment, provides, continuous and balanced flow of material onto the spinner.



#### Spreading sensor

Sensing the material exiting the spinner. Gives the signal to the control unit if spreading is stopped. Message is shown on unit's screen.



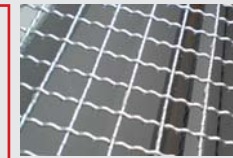
#### Spreading pattern

Manual system for changing spreading pattern is standard.

Automatic system is available as an option.

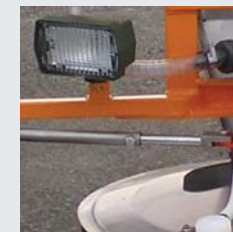
#### Protective grid

Mainly protects from entering the hopper and contact with conveyor, but also prevents bigger lumps of material to get into the hopper.



#### Operating light

For visual control of spreading. LED operating light also available. Option.



#### Distribution system

Consists of exit chute, turnstile, rotating holder and spinner.

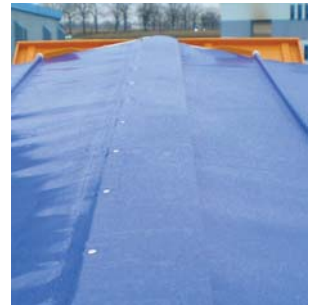
Design of exit chute and turnstile enables height adjustment of the spinner, related to the ground.

Rotating holder enables spinner rotation to left or right in relation to driving direction and changes the spreading asymmetry.

Concave spinner ensures minimum bouncing of the material from the surface.

#### Tarpaulin cover with steel frame

Protects solid spreading agent from weather conditions (rain, snow, humidity) to prevent tunnel effect. Delivered as option. The tarpaulin is opened from the ground by means of a rope.



#### Pre-wetting system

Consists of tanks, pump, dispenser, filling coupling, maximum level sensor, one-way valve and hoses. Possible to be upgraded with minimum level sensor. Option.

#### Carrying frame

Modular design of the carrying frame enables the adjustment of the spreader's gravity centre to ensure the best possible axle load distribution. Carrying frame for mounting directly on the vehicle's sub-chassis available as an option.

#### Ro-Ro system

Enables simple loading into the truck's tipper box. Consists of height adjustable front and rear legs. Available in payloads of 3, 5 or 10 tons.

device type	Solid L 3.0	Solid L 4.0	Solid L 5.0	Solid L 6.0	Solid L 7.0	Solid L 8.0	Solid L 9.0	Solid L 10.0	Solid L 11.0	Solid L 12.0
spreader capacity [m³]	3	4	5	6	7	8	9	10	11	12
brine tank capacity [lit.]	1240	1940	2400		2800		2800 (4800***)			
spreading width* [m]	2 ÷ 9 (3 ÷ 12)									
spreader weight when empty** [kg]	1200 ÷ 1500	1640 ÷ 2150	1850 ÷ 2350	1900 ÷ 2400	2000 ÷ 2500	2100 ÷ 2600	2300 ÷ 2800	2500 ÷ 2900	2600 ÷ 3000	2600 ÷ 3100

\* spreading width depends on customer's requirements

\*\* spreader weight depends on additional equipment required by customer

\*\*\* with additional 2000 l brine tank in the front

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# Control Unit

## EPOS 2

Basic features of the EPOS 2 control unit are:

- speed-dependent spreading;
- spreading width and quantity adjustment using two potentiometers in an open regulation circuit;
- pre-programmed to operate with two different „dry“ and one „wet“ spreading agents;
- programmable to work with any known type of spreading agent (dry and wet), according to customer's request;
- spreading material total consumption memory;
- simulation of spreading speed;
- spreader tank emptying switch;
- working light and rotating light on/off switches;
- „MAX“ switch



## EPOS 5

Basic features of the EPOS 5 control unit are:

- speed-dependent spreading;
- pre-programmed to operate with several different „dry“ and „wet“ spreading agents;
- spreading width ranging from 2 ÷ 9 m (3 ÷ 12 m) in 0,5 m steps for left and right asymmetry
- changeable pre-wetting material percentage 10% to 40%;
- fast and simple calibration;
- spreading parameters adjustment by closed regulation circuits;
- option of no-feedback operation for wet spreading (feedback off);
- internal data storage for recording and quick view of reports (daily, seasonal);
- RS232 port to connect GPS-GPRS automatic monitoring module and send data regarding the spreader, vehicle and plough;
- made for CAN - BUS open communication system in compliance with protocol CEN TC 337 / WG3 EN 15430-1



## EPOS 10

Basic features of the EPOS 10 control unit are:

- speed-dependent spreading;
- pre-programmed to operate with several different „dry“ and „wet“ spreading agents;
- spreading width ranging from 2 ÷ 9 m (3 ÷ 12 m) in 0,5 m steps for left and right asymmetry;
- changeable pre-wetting material percentage 10% to 40%;
- fast and simple calibration;
- spreading parameters adjustment by closed regulation circuits;
- data download and operating parameters input from/to control panel via USB memory stick;
- RS232 port to connect GPS-GPRS automatic monitoring module and send data regarding the spreader, vehicle and plough;
- option to spread using thermo-camera according to set parameters;
- made for CAN - BUS open communication system in compliance with protocol CEN TC 337 / WG3 EN 15430-1



## Additional Equipment



### Diesel hydraulic power unit

Spreader can be equipped with external diesel-hydraulic power unit if the vehicle does not have proper hydraulic system. Customer can choose between two versions:

- single circuit diesel-hydraulic power unit for spreader only;
- double circuit diesel-hydraulic power unit (with or without weight relief) for snow plough and spreader;

Ignition and shut down of the engine is done by EPOS 5 or EPOS 10 control unit.

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Dealer

