



spreader **TRP**



*self-loading
spreader*





self-loading
spreader

Application

TRP spreader is a tractor attachment intended for the gritting of roads with salt, sand or mixes during winter season.

Technical Description

The device is driven by hydromotors, and tractor hydraulics serve as the source of pressurized oil. The control of hydromotors for changing the spreading width and quantity is done through hydraulic proportional valves and an electronic control unit located in vehicle's cabin. The

electronic control unit can be:

- EPOS 1
- EPOS 2
- EPOS 5

Due to its characteristics and simple and reliable control, the device is suitable for de-icing on small, narrow and hard-to-reach streets and sidewalks, but also on large areas such as parking lots, roads etc. If using pure salt, the operating radius can extend even beyond 30 km, depending on the quantity to be spread per square meter.

The design of the housing and lever mechanism enables the self-loading function, i.e. no additional vehicle or silo is necessary for the loading of the spreader.

Standard equipment:

- spreader housing;
- protective grid above the worm conveyor;
- mechanism for manual changing of the spreading pattern;
- hydraulic lever mechanism for loading / unloading of the spreader ;
- hydraulic system;
- outline signaling;
- Control Unit EPOS 1

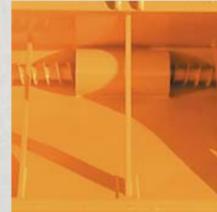
Additional equipment:

- tarpaulin cover;
- EPOS 2 Control Unit;
- EPOS 5 Control Unit;
- linear motor for automatic pattern adjustment (only with EPOS 2 and EPOS 5)
- spreading control contact sensor - microphone;
- operating light;
- rotating light - beacon;
- additional conveyor worm cover (when using fine salt /salinen)

For tractors having only one pair of hydraulic connections available for the spreader, a system with a special block of valves can be installed to enable the control of hydraulic cylinder and hydromotor (MHS).

Counter-directional worm conveyor

Supplies the material to the spinner.



Cover tarpaulin

Protects solid spreading agent from weather conditions (rain, snow, humidity).



Housing

Can be hot zined or painted.

Foldable storage leg

Supports the spreader when not mounted.

Spreading pattern adjustment

Manual or automatic (linear motor).

Spinner

Spreads the spreading agent in widths from 2 ÷ 6m.

Proportional valve block with electrical fitting for control unit connection.

Control unit Located in vehicle cabin.

Conveyor worm hydromotor drive

type	weight [kg]	spreading width [m]	spreading quantity [gr/m ²]	spreader capacity [m ³]	minimum driving machine weight [kg]
TRP 0.6	435	2 ÷ 6	0 ÷ 200	0.65	3000
TRP 1.0	500	2 ÷ 6	0 ÷ 200	1.0	3500
TRP 1.5	600	2 ÷ 6	0 ÷ 200	1.5	5000



spreader

TRP

Control Units

EPOS 1

Basic features of the EPOS 1 control unit are:

- speed-independent spreading;
- adjustment of spreading width and quantity using two potentiometers;
- work light and rotating light on/off switches;
- activation of the spreader's self-loading cylinder



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
- spreading speed simulation
- spreader tank emptying switch
- work 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;
- CAN-BUS open communication system in compliance with protocol CEN TC 337 / WG3 EN 15430-1



Mounting

TRP spreader should be mounted onto tractors with a proper hydraulic system. High pressure oil required for loading and gritting is received from the tractor's hydraulic pump. The spreader is mounted on tractor's rear three-point hitch.

It is recommended that the mounting of the spreader is performed by the manufacturer or a qualified service according to manufacturer's instructions.

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Dealer

