



spreader **SOLID DUO**



*dual-chamber
spreader*





Application

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

Technical description

Dual-chamber design of the hopper enables the choice of spreading agent according to needs. The spreader and control unit design provides the operator with extensive options in choice of spreading agent to be used. 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 Duo spreaders can be equipped with a pre-wet spreading system which enables the use of NaCl or CaCl₂ solution.

Worm conveyors are operated by control unit located in the vehicle cabin. The control unit provides independent dosage regulation separately for each worm conveyor. The Ro-Ro loading system enables simple loading of the spreader into the truck's tipper box. In standard version, Solid Duo is equipped with:

- hopper with two chambers (divided at 2:1 ratio or as per customer's wish);
- dual dry agent dosage system with hydraulic drive (worm conveyors in both chambers 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);



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

Dosage system

Consists of two independently controlled worm conveyors. If required, operation using only one material is possible (left or right chamber) or simultaneously with two materials, i.e. by mixing two different materials (simultaneous supply of material from the left and right chambers). In the process, the operator himself determines the share of each material in the mix. All the stated combinations can be combined with the addition of wet material.



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

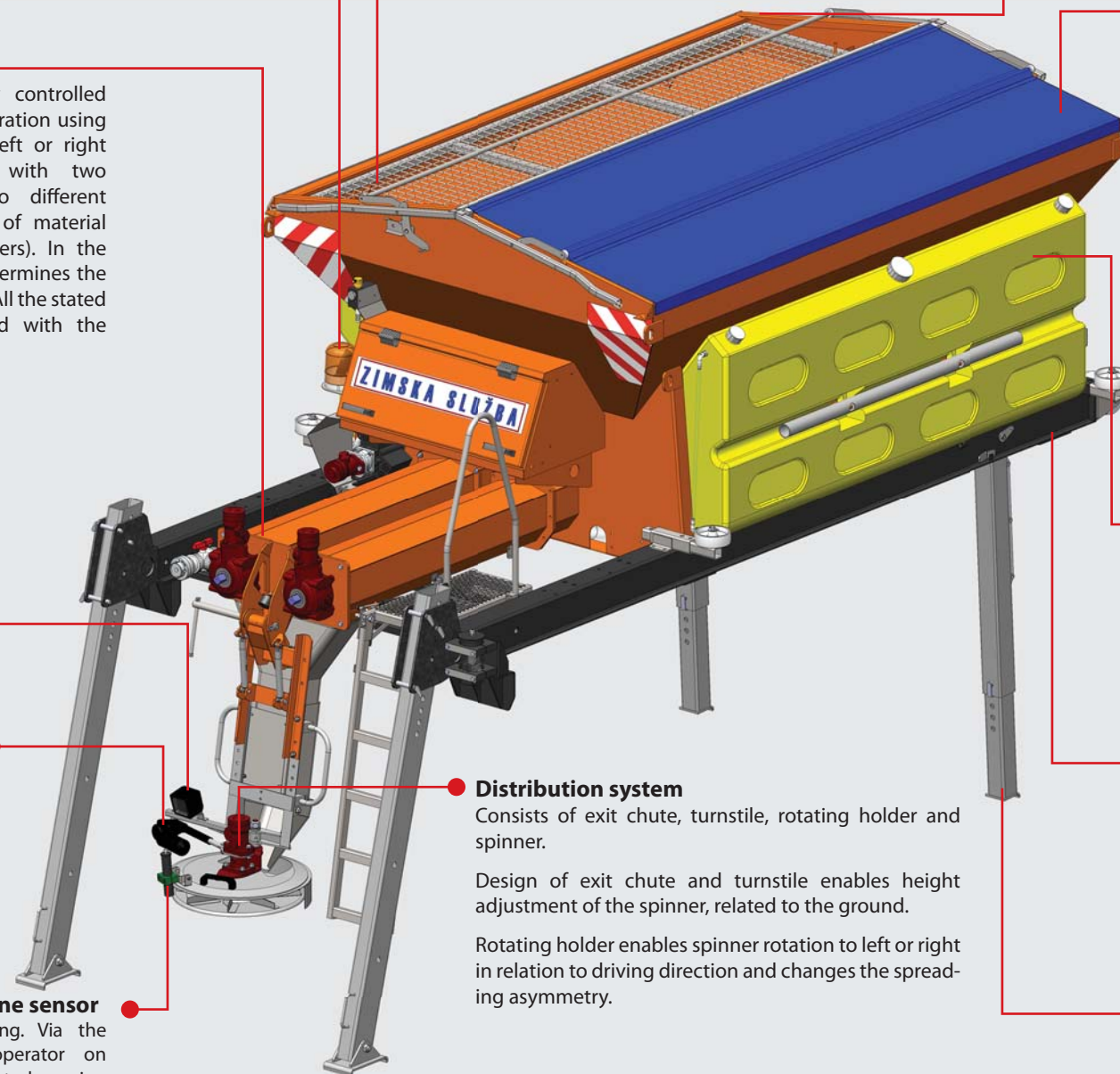
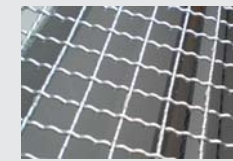
Changing the spreading pattern

Automatic system for changing spreading pattern is standard. It consists of linear electro-motor controlled by EPOS 10 control unit.

Contact operation microphone sensor

Intended for operation controlling. Via the control unit it informs the operator on operational errors. Operation control version without the contact sensor is available.

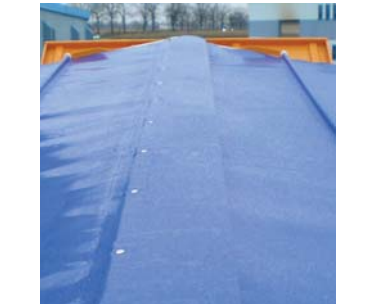
Protective grid
Mainly protects from entering the hopper and contact with conveyor, but also prevents bigger lumps of material to get into the hopper.



Hopper
Divided into two chambers at 2:1 ratio to enable operation with two different spreading agents.

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 Duo 2.0	SOLID Duo 2.5	SOLID Duo 3.0	SOLID Duo 4.0	SOLID Duo 5.0	SOLID Duo 6.0	SOLID Duo 7.0
spreader capacity [m ³]	2.0	2.5	3	4	5	6	7
brine tank capacity [lit.]	720	840	1200	1720		2240	
spreading width* [m]	2 ÷ 9 (3 ÷ 12)						
spreader weight when empty** [kg]	900 ÷ 1150	950 ÷ 1200	1200 ÷ 1800	1400 ÷ 2100	1550 ÷ 2150	1700 ÷ 2300	1850 ÷ 2450

* spreading width depends on customer's requirements

** spreader weight depends on additional equipment required by customer

Control unit

EPOS 10

Basic characteristics 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 operate using thermo-camera according to preset parameters;
- CAN-BUS open communication system in compliance with protocol CEN TC 337 / WG3 EN 15430-1



Additional Equipment



Diesel hydraulic power unit

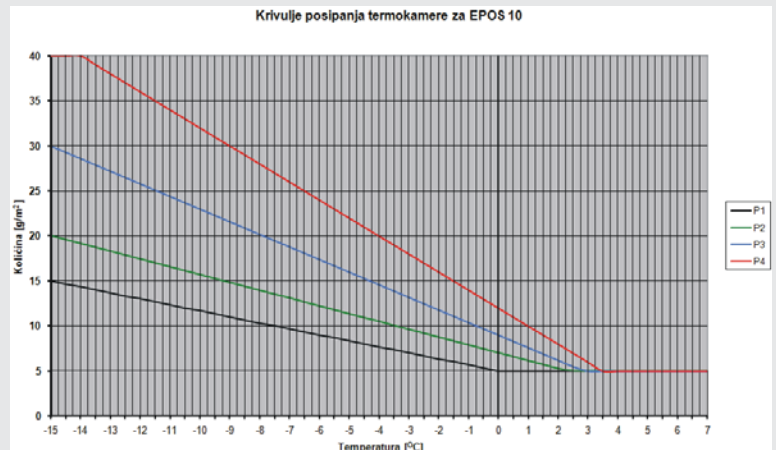
Spreader can be equipped with external diesel-hydraulic power unit if the vehicle does not have proper hydraulic system. Customer can choose between two versions:

- 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 10 control unit.

Thermo-camera

Depending on customers' needs and requirements, the spreader can be fitted with a thermo-camera for pre-set automatic spreading.



Contactless 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. Option.

Linear motor for spreading pattern change

Standard on Solid Duo.

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Dealer

