

Stratos Lava

Spreader

The Stratos Lava spreader series can be deployed whenever de-icing with conventional spreading agents is not practical due to extreme conditions. The Lava application guarantees lasting friction levels on the road surface by using heated water and gritting agents such as sand or split (small stones). Icy and slippery roads on packed snow, where wet salt, brine and dry salt no longer have any effect, are made passable thanks to the Stratos Lava.

Highlights

- A **permanently non-slip surface** in the case of packed snow and ice
- Proven Stratos components combined with the **improved Lava system**
- Sand-water mixture of **up to 90° degrees**
- ES control system with **dedicated Lava menu**
- A **fully automated** glycol-based **frost protection** with air press draining

Your benefits

- **Long-lasting safety:** After treatment, the road surface maintains its grip for at least a week under even the most extreme conditions.
- **Very large radius of action:** Thanks to the large content volume of the spreader and the highly efficient spreading processes, a very large radius of action is possible.
- **Easy service:** All relevant components, such as heating units and hydraulic blocks, are easily accessible.

Performance features

The Lava principle

In addition to the normal grit hopper and distribution system, the Stratos Lava has a heating unit and side-mounted liquid tanks with integrated baffles, which are made of impact-proof polyethylene. This makes it suitable for normal winter road maintenance as well as for operating in the most extreme conditions.
Before starting the Lava application, the water is heated to 45° degrees by a diesel-powered heating unit and pumped into the tanks. During the spreading process, hot water is sprayed onto the spreading agent, and this warmed mixture is spread onto the road surface by the distribution system. Due to its high temperature, this partially sinks into the icy road conditions and creates a permanently non-slip surface.



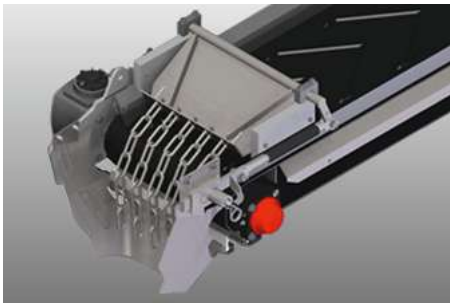
Mounting and demounting systems

The Stratos Lava can be equipped with one of the two mounting and demounting systems:

- Base frame for demount legs, tipper body or fixed body, suitable for parking with filled hopper and tanks
- RoRo system, suitable for parking with filled hopper and tanks

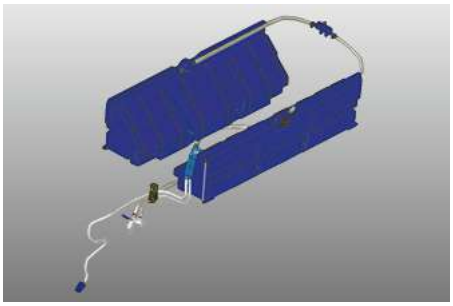
Dosage and conveyor system

The Stratos Lava benefits from a reliable belt conveyor system, suitable for all spreading materials. An integrated belt relief, an integrated belt cleaning system and a dosing slide with integrated lump breaker function ensure trouble-free operation.



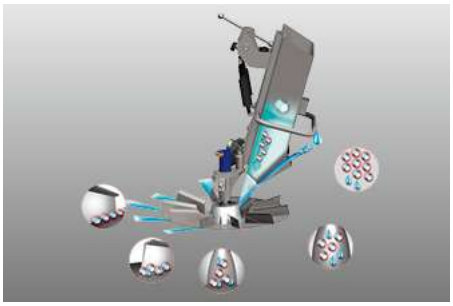
Pre-wet equipment

The laterally arranged water tanks are made of impact- and cold-resistant polyethelene with integrated baffles. They are filled via a stainless steel filling and draining connection at the rear with an integrated tap/filter combination. The suction point is located in the middle of the tank, which makes operation in otherwise unfavourable mountain regions possible without any problems. A solid, directly hydraulically-driven gear pump ensures automatic speed regulation when brine is added.



Distribution system

The **premium mixing system** of the Stratos series 4 - 12 m³ is also used on the Stratos Lava. The optimum material flow is ensured by a closed PE chute and an optimised angle of the outlet. The spreading material hits the spreading disc centrally and is perfectly distributed to the discharge edge. This creates a homogeneous mixture, which is dynamically discharged as a bundled ejection jet in such a way that the effects of the wind are minimised.
The swivel technology of the spreading disc allows a symmetrical or asymmetrical spreading pattern to be adjusted manually or electronically via the control panel. Thanks to this technique, the size of the spreading area is maintained and a precisely defined spreading pattern is achieved. **Up to 3 m** can be spread **in Lava mode** and up to 10m in normal mode.



Drive, control and information systems

The Stratos Lava is driven by the existing hydraulic system of the carrier vehicle and operated via a fully road-speed related **ES control system with additional Lava functionality**, which, thanks to easy-grip click-turn knobs and illuminated pushbuttons, ensures that the driver can concentrate on the traffic and road conditions during his work. The ES control panel can be used to set both the normal wet salt and the **special Lava functions,** such as the **preheating temperature and the frost protection function**.





Related products

Stratos 4.0 - 12.0 m³

Spreader



Arctic RMT

Road maintenance truck



Technical data

	Stratos Lava 70	Stratos Lava 80
Hopper		
Hopper capacity	7 m³	8 m³
Pre-wet equipment		
Tank capacity lateral tanks	3,000 l	3,000 l
Conveyor system		
Conveyor system	belt	belt
Distribution system		
Distribution systems	Premium 5-zone mixing system: Spreading disc diameter: 490 mm Spreading width: 2 - 10 m	Premium 5-zone mixing system: Spreading disc diameter: 490 mm Spreading width: 2 - 10 m
Mounting/demount system		
Mounting/demount system	Hoofklift / Fixed-mounted / RoRo	Hoofklift / Fixed-mounted / RoRo
Drive system		
Type of drive	Vehicle hydraulics	Vehicle hydraulics
Control system		
Control system	ES	ES
Dimensions		
Hopper length	4,200 mm	4,200 mm
Hopper width	2,000 mm	2,000 mm
Hopper height	1,770 mm	1,885 mm
Weights		
Empty weight approx.	2,204 kg	2,249 kg

	Stratos Lava 90	Stratos Lava 120
Hopper		
Hopper capacity	9 m³	12 m³
Pre-wet equipment		
Tank capacity lateral tanks	3,000 l	3,000 l
Conveyor system		
Conveyor system	belt	belt
Distribution system		
Distribution systems	Premium 5-zone mixing system: Spreading disc diameter: 490 mm Spreading width: 2 - 10 m	Premium 5-zone mixing system: Spreading disc diameter: 490 mm Spreading width: 2 - 10 m
Mounting/demount system		
Mounting/demount system	Hoofklift / Fixed-mounted / RoRo	Hoofklift / Fixed-mounted / RoRo
Drive system		
Type of drive	Vehicle hydraulics	Vehicle hydraulics
Control system		
Control system	ES	ES
Dimensions		
Hopper length	4,200 mm	4,510 mm
Hopper width	2,000 mm	2,150 mm
Hopper height	2,005 mm	2,235 mm
Weights		
Empty weight approx.	2,284 kg	2,335 kg

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