



ACE

Combination machine



The ACE is an airport combination machine for de-icing runways, taxi-ways and aprons and is available in four different versions to meet differing needs. With the ACE range, solid and liquid spreading materials can be applied separately or combined in a single operation, and it is designed for mounting on large carrier vehicles and semi-trailers.

Highlights

- Application **of both liquid and solid de-icing agents**
- **Preventive as well as curative** de-icing
- **Modular design** and individual composition

Your benefits

- Due to its **modular construction**, the ACE can be assembled in many different ways to meet the individual needs of different airports.
- The ACE offers a **stable and maintenance-friendly construction** for a long service life.
- Maximum spraying and spreading width of **24 metres**.

Performance features

Modular construction

The ACE is designed for mounting on large carrier vehicles and semi-trailers and, due to its modular construction, can be assembled in many different ways to meet the individual requirements of different airports.

The combination machine consists of three components: the body with modular liquid tanks made of polyethylene, the drive unit, and the separate spreading material container with a distribution system. There are only a few wearing parts, and the entire machine benefits from specially developed corrosion protection, while all joints are hermetically sealed.

Hopper

The ACE's hopper has a volume from 4.0-7.0m³ while the polyethylene system tanks are suitable for any spraying agent. They are available from 1,850 litres and can be supplemented with 2,200 or 2,500 litre front tanks. The hopper and tank configurations can be adapted to suit different vehicles and local conditions.

Dosage and conveyor system

The spreading material is transported to the distribution system by a V-profiled conveyor belt. Pressure distributors relieve the pressure of the spreading material on the belt ensuring a long service life.

Distribution system

For all ACE variants, a double-disc spreading system allows solid, liquid or mixed spreading materials to be used. The spreading agent is delivered via a conveyor belt and liquid pump, based on the vehicle's speed. Mixtures of solid and liquid spraying materials can be applied up to a ratio of 1:1 (50% solid and 50% liquid) thanks to a special injection system, while closed control loops allow precise distribution of the de-icing agent.



ACE-2S - The basic version

For airports wanting a de-icing solution ideally suited to every situation, the smart ACE-2S concept is a great entry-level variant. Thanks to the special spreading discs, both spreading and spraying materials can be applied.

- Two special spreading discs to the rear
- Spreading width of 6m to 24m*
- Spraying width of 6m to 15m



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- A proven design that's used worldwide
 - Flexible application options – solid, liquid or combined
 - Technology that's been tested around the globe in a wide range of winter conditions
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ACE-ASPS - The entry-level variant with nozzles

The ideal solution for airports that want precise spraying with less de-icing time pressure.

- Two special spreading discs to the rear
- Fixed spray bar to the rear
- Two side spraying arms at the front with a single row of nozzles
- Spreading width of 6m to 24m*
- Spraying width of 6m-16m or up to 24m using long ejection nozzles

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- Sophisticated, functional technology that's ideal for smaller airports
 - Good value for money
 - Convenient folding of the spraying arms using the ES control panel in the driver's cab
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The ACE-ASP - The expert variant with nozzles

The ACE-ASP offers ideal features for airports that want fast and accurate spraying. It combines the proven technology of the ACE-2S with state-of-the-art ASP spraying technology.

- Two special spreading discs to the rear
- Fixed spray bar to the rear
- Two side spraying arms at the front with a double row of nozzles
- Spreading width of 6m to 24m*
- Spraying width of 4m to 14m or a limit of 24m



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- Increased safety thanks to a double row of nozzles and an overlapping spraying result
 - Reduced swirling due to the low-pressure pumping system
 - A high working speed
 - Spraying arms with collision protection
 - Tipping function to avoid obstacles
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ACE-RSP - The disc variant

A handy and low-maintenance solution with four special spreading discs in total.

- Two special spreading discs to the rear
- Two side spraying arms, each fitted with one spreading disc
- Spreading width of 6m to 24 m*
- Spraying width of 6m to 15m or a limit of 24m

* Spreading widths depend on spreading materials used and weather conditions



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- Reliable, easy-to-use technology
 - A good view of the special discs, due to high-positioned spraying arms
 - Easy avoidance of obstacles
 - An even ejection rate thanks to spraying discs with multiple injection points
 - Reduced risk of damage
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Drive options

The ACE is driven by the carrier vehicle's hydraulics or a separate diesel engine.

Operation

The ACE is controlled via the very easy to operate ES control panel in the driver's cab, allowing spreading width and dosage to be entered quickly and clearly.



Gallery



Variants

ACE-2S - The basic version



For airports wanting a de-icing solution that adapts ideally to every situation, the smart ACE-2S concept is a great entry-level variant. Thanks to the special spreading discs, both spreading and spraying materials can be applied.

- Two special spreading discs to the rear
- Spreading width of 6 m to 24 m
- Spraying width of 6 m to 15 m

ACE-ASPS - The entry-level variant with nozzles



The ideal solution for airports that want precise spraying and have less de-icing time pressure.

- Two special spreading discs to the rear
- Fixed spray bar to the rear
- Two side spraying arms at the front with a single row of nozzles
- Spreading width of 6 m to 24 m
- Spraying width of 6 m to 16 m or even 24 m using long ejection nozzles

ACE-ASP - The professional version with nozzles



The ACE-ASP offers ideal features for airports wanting fast and accurate spraying. It combines the proven technology of the ACE-2S with state-of-the-art ASP spraying technology

- Two special spreading discs to the rear
- Fixed spray bar to the rear
- Two side spraying arms at the front with a double row of nozzles
- Spreading width of 6 m to 24 m
- Spraying width of 4 m to 14 m or 24 m

ACE-RSP - The disc variant



A handy and low-maintenance solution with four special spreading discs in total.

- Two special spreading discs to the rear
- Two side spraying arms, each fitted with one spreading disc
- Spreading width of 6 m to 24 m
- Spraying width of 6 m to 15 m or 24 m

Related product

CJS-DI

Jet sweeper



ASP Airport Sprayer

Sprayer



Keywords

#Airports #Deicing #Airport Airside

Technical data

	ACE-2S	ACE-ASPS
Hopper		
Hopper capacity	4 - 7 m ³	4 - 7 m ³
Pre-wet equipment		
Tank capacity front tanks	2,200 - 7,500 l	2,200 - 7,500 l
Tank capacity lateral tanks	1,850 l	1,850 l
Conveyor system		
Conveyor system	belt	belt
Distribution system		
Distribution systems	Combi disc: Spreading width: 6 - 24 m Combi disc: Spraying width: 6 - 15 m	Combi disc: Spreading width: 6 - 24 m Spray nozzles: Spraying width: 6 - 24 m
Mounting/demount system		
Mounting/demount system	Hoofklift / Fixed-mounted	Hoofklift / Fixed-mounted
Drive system		
Type of drive	Vehicle hydraulics	Vehicle hydraulics
Control system		
Control system	ES	ES
Speed		
Working speed	45 km/h	30 km/h
	ACE-ASP	ACE-RSP
Hopper		
Hopper capacity	4 - 7 m ³	4 - 7 m ³
Pre-wet equipment		
Tank capacity front tanks	2,200 - 7,500 l	2,200 - 7,500 l
Tank capacity lateral tanks	1,850 l	-
Conveyor system		
Conveyor system	belt	belt
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Type of drive	Vehicle hydraulics	Vehicle hydraulics
Control system		
Control system	ES	ES
Speed		
Working speed	45 km/h	30 km/h