



The Airport range

A9000 • A12000 • A14000

The Beam Airport range

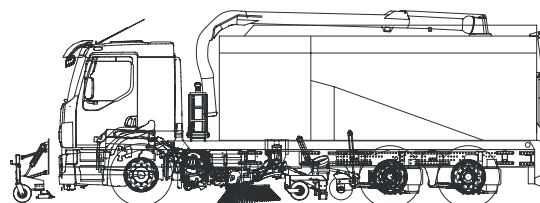
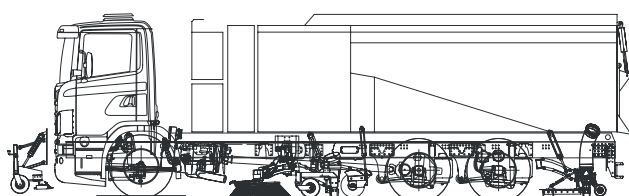
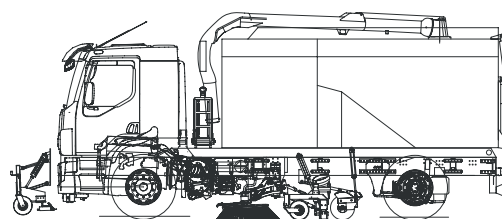
Beam is the world's leading manufacturer of specialist sweepers and high pressure washing equipment. Founded 40 years ago, Beam now has over 2500 machines in service worldwide with airports, contractors and municipal customers. The Beam airport range is designed to address the key surface cleansing needs of all sizes of airports in any environment. In particular,

- Stand cleaning and degreasing
- Runway rubber removal
- Liquid pick-up (glycol recovery)

Hopper modules:

With a choice of materials and capacities, the hopper is the starting point for the sweeper specification. Each hopper is made up of 3 primary parts – the engine cowl, the hopper body and the integral water tanks.

Other features include, a rear screen shaker, inspection hatch ladder, beacons, single colour paint finish on the exterior of the hopper, dirt inlet to the hopper via replaceable rubber coated wear plates, marker lights, marker boards and the safety prop.



	A9000	A12000	A14000
Voided air volume:	9 m ³	12 m ³	14 m ³
Typical chassis GVW:	18 tonne	26 tonne	26 tonne
Typical chassis layout:	4x2	6x2*4	6x2*4
Water volume standard:	2660 litres	3660 litres	4320 litres
Water volume with rear suction:	2320 litres	3320 litres	3980 litres



Top
A9000 Glycol recovery vehicle

Bottom left and right
A12000 multi-task sweeper washer



A9000 • A12000 • A14000

Stand Cleaning and Degreasing

The Beam stand cleaner is offered in a number of configurations in order to suit all sizes of airports.

The primary function of these machines is the cleaning of oil, grease and fuel spills from aircraft parking stands. These spills are not only dangerous and slippery when wet but they also represent an environmental issue that needs to be taken care of.

This sweeper will quickly clean and de-grease the surface making it ready for immediate use.

Optional equipment

- 9, 12 or 14m³ hoppers
- Additional water tanks
- 3rd brush
- Side blast nozzles
- Rotor cleaner
- High pressure systems
- Magnetic bar (front or rear mounted)
- Front roller brush and snow plough



Left
Full width suction

Right
Detergent dispersal

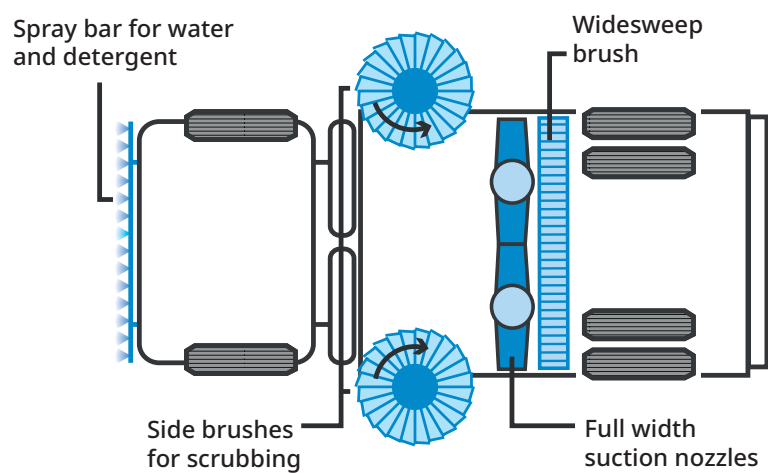


Top
Stand cleaner

Left
High pressure jet rinsing

The Beam stand cleaner in its basic configuration:

- 9 m³ hopper in stainless steel
- Water capacity, 2900 litres
- Detergent tank, 200-400 litres
- High pressure pump, 200 bar @ 100 litres
- Full width suction nozzles
- Wide sweep brush for sweeping or scrubbing
- Left and right hand channel brushes for sweeping or scrubbing
- Multiple spray bars for detergent dispersal and application of high pressure water



Typical 9 m³ configuration

A9000 • A12000 • A14000

Runway rubber removal

The Beam A9000 and A14000 machines can be equipped with detergent and high pressure water systems that facilitates the cleaning of runway rubber using gentle environmentally friendly solvents. The use of natural based liquids for initially dissolving the carbonised rubber from aircraft tyres on runways is a much more gentle solution than the use of extremely high pressure water which in some cases can damage and even destroy the runway surface. The Beam equipped for rubber removal can also be used for other cleaning and sweeping applications when not removing rubber which gives a much more cost effective use of the vehicle and allows year round use.

Optional equipment

- 9, 12 or 14m³ hopper
- Additional water tanks
- Detergent tank, 400 litres
- High pressure systems
- Warm water system
- 3rd brush



Top left
Liquid application

Top right
High pressure jet rinsing

Bottom left
Agitation

Bottom right
Full width suction

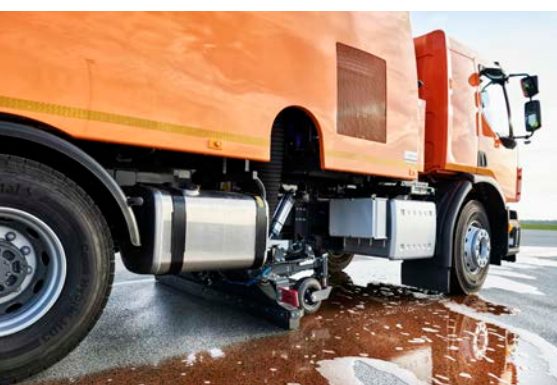


A9000 • A12000 • A14000

Glycol recovery vehicle

With the Beam GRV, efficient glycol recovery and load capacity enable this machine to collect glycol where gate de-icing is carried out.

Off loading is fast and trouble free using the off load pump and the heated hopper floor. If the side brushes are chosen as an option then other tasks can be carried out such as stand cleaning when the weather is warmer.



Top left
Full liquid recovery

Top right
Glycol recovery system

Bottom
Glycol recovery vehicle



Water tank modules

The A range has two linked water tanks located on either side of the hopper for optimum weight distribution and balance.

Additional water tanks can be installed inside the hopper or outside between the cab and the hopper. Increase your water capacity by up to 2000 litres.

Tanks are manufactured in stainless steel, type 1.4301 (304).

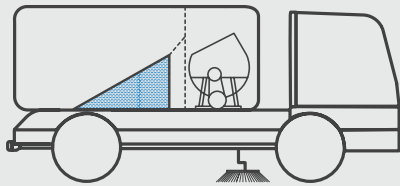
Notes:

* In-hopper water tanks reduce voided volume

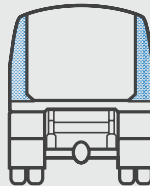
** Weight calculation needed to ensure axles aren't overloaded

*** Rear suction reduces standard water capacity by 400 litres

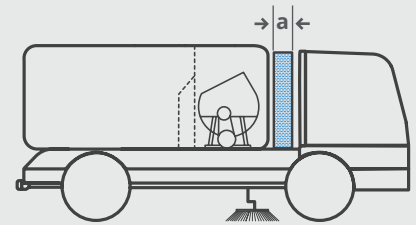
Model	Additional water tanks (litres)				
	In hopper*		Behind cab**		
S9000	600	1000	1100	1500	2000
S12000	600	1000	1100	1500	2000
S14000	600	1000	1100	1500	2000
Dimension 'a' (mm)			315	450	650



Additional tank in hopper
(600 or 1000 litre)



Standard tanks



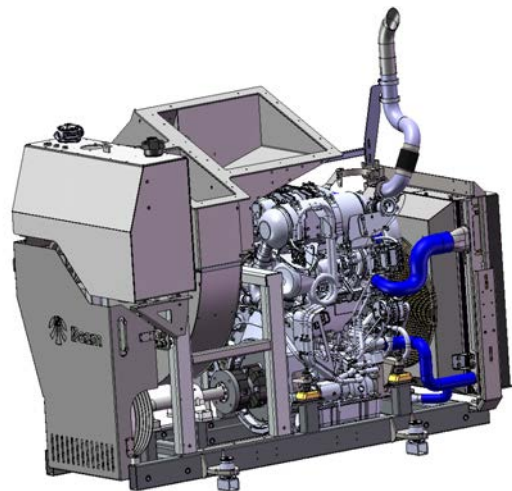
Additional tank behind cab
(1100, 1500 or 2000 litre)

Power pack modules

- Standard - With the use of an auxiliary engine with 129 kW, power is transmitted to the dynamically balanced fan via a belt drive system and fluid flywheel.

- High capacity fan (HCF) - Air flow as high as with the hydrostatic powerpack and at a very low fuel consumption, and low noise level. Power transmission is done via a belt drive system and fluid flywheel.

- Hydrostatic (HCF) - for ultimate speed control from 0 km/h, we offer hydrostatic transmissions, driven from the chassis engine. These transmissions can also be used to power the entire sweeper and washer functions from the chassis engine.



Note:

Typical operating speed for normal sweeping is 1200 rpm.

	4 cylinder - 129 kW	4 cylinder - 129 kW HCF	Hydrostatic HCF
Capacity (cc):	4765	4765	Chassis dependent
Operating revs (RPM):	900 - 1800	900 - 1800	1100-1400
Power output (kW @ RPM):	129 @ 2050	129 @ 2050	Chassis dependent
Max torque (Nm):	690	690	Chassis dependent
Fuel consumption (l/hour):	5 - 18	5 - 20	8 - 30



In-cab control systems

The sweeping controls are located in the cab.

Left
Standard control panel

Right
Integrated controls are an extra option



Wanderhoses

There are nine different wanderhose options mounted either at the rear or on top of the vehicle – ideal for clearing out gulleys at the edge of the runways or taxiways or for tough to reach areas.

Left
Top mounted wanderhose

Right
Rear mounted wanderhose

The Beam Rotorcleaning system

As an alternative to full width rear suction and spray bars, Beam offers a rear mounted Rotorcleaning system. The Rotorcleaner achieves superior results using lower volumes of water. It operates at 60 to 80 litres per minute compared to the traditional 100 litres per minute.

This reduces the costs of fuel, waste disposal, refilling and allows for better utilisation (more on-station time). This system is equally valuable when used in road maintenance, construction, industrial site cleaning, and aircraft parking stand cleaning.

The system is rear mounted, it uses 4 rotating spray bars covering the full width of the truck and full width suction. It is completely enclosed ensuring no water seepage and a high vacuum that collects all water and waste. It can be used with a range of high pressure pumps from 100 to 400 bar.



Top left
Rotor cleaner system

Top right
Side view of system

Bottom left and right
Before and after on mud road



Beam A/S

Salten Skovvej 4-6
DK- 8653 Them
Denmark

Tel.: +45 8684 7600

Fax: +45 8684 7734

www.beamsweepers.com



Due to continuous product development Beam A/S reserves the right to alter specifications without prior notice.
AIRBRO/ENG/SIL/5K/11 2019