ELEPHANT® BETA

DE-ICING SYSTEMS

AIRCRAFT SERVICE TRUCKS

COMPANY VESTERGAARD

THE WORLD'S FASTEST AND MOST EFFICIENT AIRCRAFT DEICING SYSTEM

THE ELEPHANT®BETA

The Elephant® Beta provides customers all over the world with highly efficient, reliable and safe deicing. The extended telescope reduces application time and minimizes movement around the aircraft. The longer telescope also reduces glycol usage.

The original design and unsurpassed quality of the Elephant® Beta guarantees the greenest approach, lowest expenses per operation and ultimate flexibility in serving any type of aircraft.

The Elephant® Beta deicer is built on a standard truck chassis and offers a vast array of options to make it the best deicing system in the world.

Aiming higher

The core concept of the Elephant® Beta line is to provide the operator with the shortest spray distance and largest operating range, thereby reducing operation time and fluid consumption.

12-metre long telescopic boom

Operating the unique telescopic spray boom, the nozzle can be kept within one metre of the aircraft surface throughout deicing operations, for virtually any aircraft.

Nozzle manoeuvrability

The nozzle's unique manoeuvrability allows backwards spaying towards the operator, enabling wing deicing from the trailing edge of the wing without spraying towards flaps, rudders etc.

Operator's Cabin

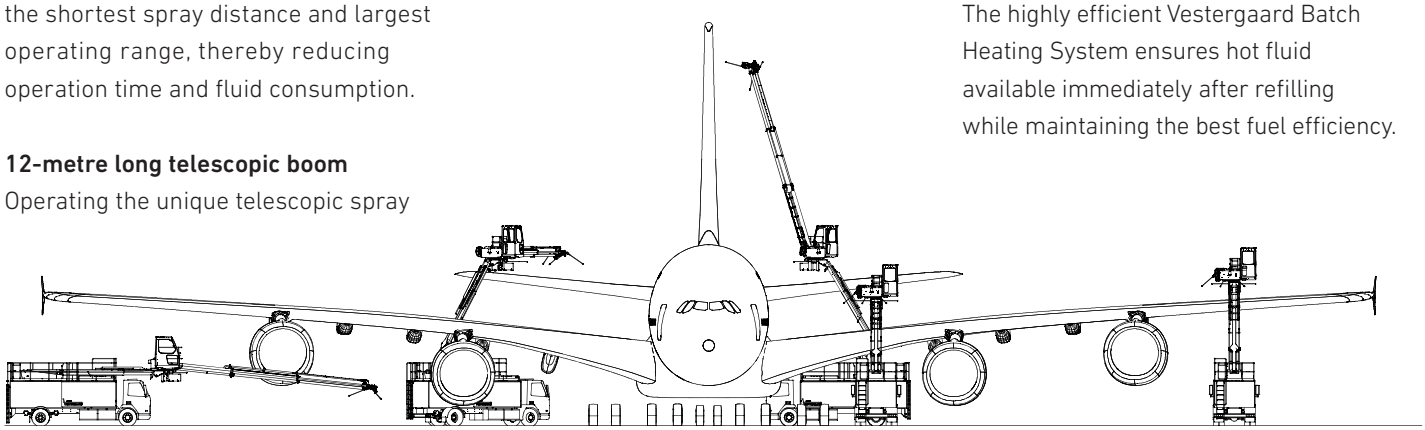
All essential information for deicing operations and unit status is displayed on two colour screens. The controls are concentrated in two intelligent joy sticks and with unobstructed view, operators are provided with a first-class ergonomically optimized work environment.

Proportional fluid mix

The Proportional Mixing System provides optimal blend according to actual weather conditions, thereby significantly saving the amount of deicing fluid. The system ensures accurate mix and fast reaction.

Heating systems

The highly efficient Vestergaard Batch Heating System ensures hot fluid available immediately after refilling while maintaining the best fuel efficiency.



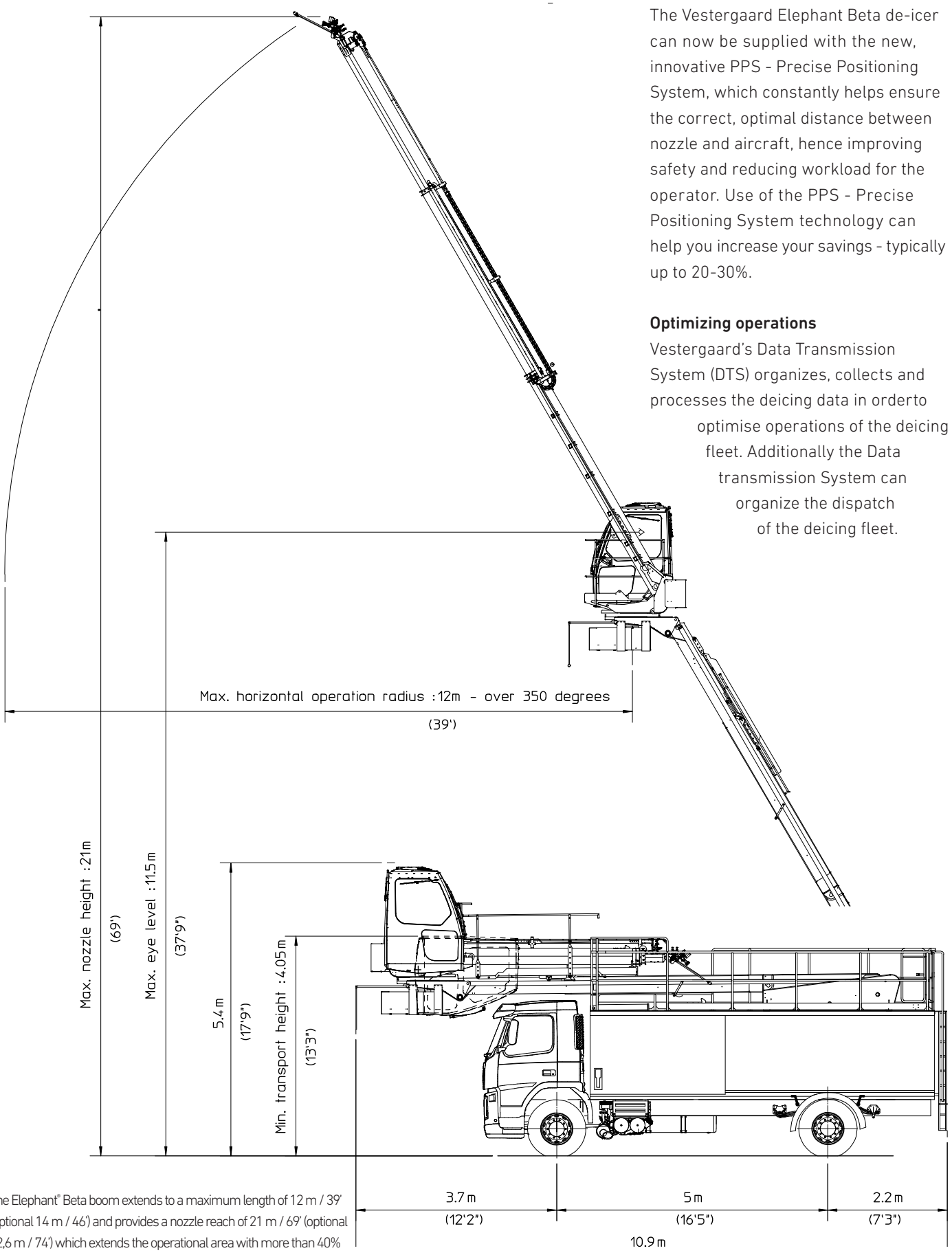
No preheating is necessary
The Hot at Nozzle System circulates hot fluid in external fluid lines ensuring maximum deicing efficiency immediately when opening the nozzle.

Fluid application
Fluids can be applied in a uniform layer at continuously variable flow rates between 20-240 litres per minute, maintaining fluid properties.

Manpower efficiency
The deicer can be easily switched between two-man and one-man operation mode from the operator's cabin.

Semi automatic de-icing
The Vestergaard Elephant Beta de-icer can now be supplied with the new, innovative PPS - Precise Positioning System, which constantly helps ensure the correct, optimal distance between nozzle and aircraft, hence improving safety and reducing workload for the operator. Use of the PPS - Precise Positioning System technology can help you increase your savings - typically up to 20-30%.

Optimizing operations
Vestergaard's Data Transmission System (DTS) organizes, collects and processes the deicing data in orderto optimise operations of the deicing fleet. Additionally the Data transmission System can organize the dispatch of the deicing fleet.



The Elephant® Beta boom extends to a maximum length of 12 m / 39' (optional 14 m / 46') and provides a nozzle reach of 21 m / 69' (optional 22,6 m / 74') which extends the operational area with more than 40%

MAJOR ADVANTAGES

Optimal one-meter nozzle distance on more than 90% of critical surfaces

» Faster deicing
» Less waste of anti-icing
» Less fluid
» Less maneuvering – lower risk
» Less block time

Higher reliability

» Less maintenance
» Lower cost
» More up-time, less time in workshop
» Need for fewer rigs

Support organisation at Vestergaard

» Always somebody on the phone
» Fast receipt of critical spare parts
» Quick to send service people if needed
» Annual maintenance

Ergonomic design

» Motivated staff
» Less fatigue, more hours, fewer mistakes, lower risk
» Easier training

One-man operation

» Fewer staff
» More individual control
» Less communication errors
» No inhalation of jet fumes

Proportional mixing for optimal glycol percentage

» Use only what is necessary – save expensive glycol
» Less environmental impact
» Possible to use water only during certain conditions
» Easy to use for training mid-season – no waste of fluid
» Faster mix system response time

Nozzle maneuverability

» Faster operation
» Able to spray backwards – park behind wing and spray from leading edge – less maneuvering

Fuel-efficient hydrostatic drive

» Save fuel during operation
» Very precise maneuvering around aircraft – less risk of damage

Fuel-efficient heating system

» Low fuel consumption for heating – no re-fueling during a shift, less cost, less CO2
» Low exhaust temperatures – no risk to other equipment or staff

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