

# ELEPHANT<sup>®</sup>BETA

DE-ICING SYSTEMS

*AIRCRAFT SERVICE TRUCKS*



COMPANY  
**VESTERGAARD**

# THE WORLD'S FASTEST AND MOST EFFICIENT AIRCRAFT DEICING SYSTEM

# THE ELEPHANT<sup>®</sup> BETA



*The Elephant<sup>®</sup> 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<sup>®</sup> Beta guarantees the greenest approach, lowest expenses per operation and ultimate flexibility in serving any type of aircraft.

The Elephant<sup>®</sup> 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<sup>®</sup> 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 spraying 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

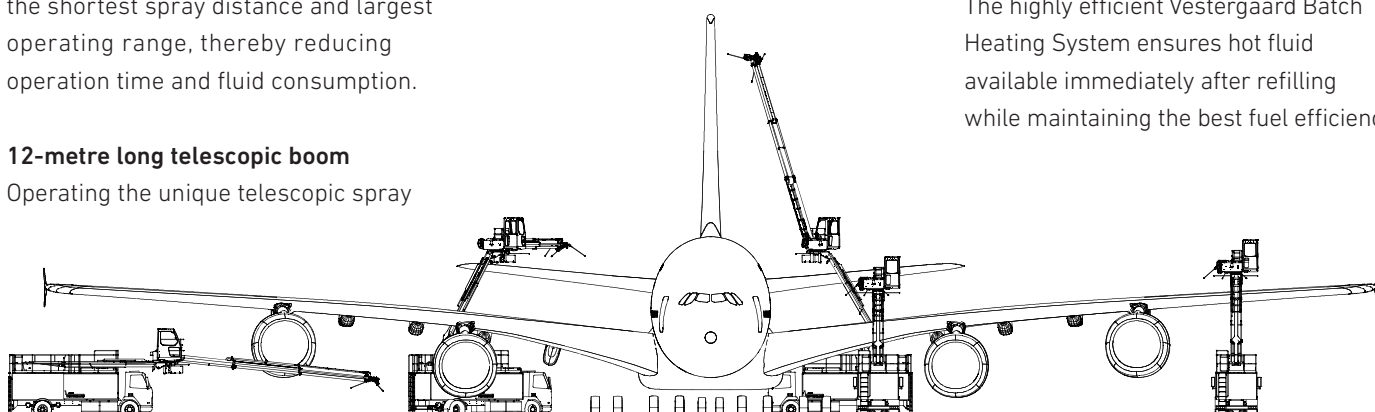
on two colour screens. The controls are concentrated in two intelligent joy sticks and with unobstructed view, operators are provided with a first-class ergonomically optimized work environment.

#### **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

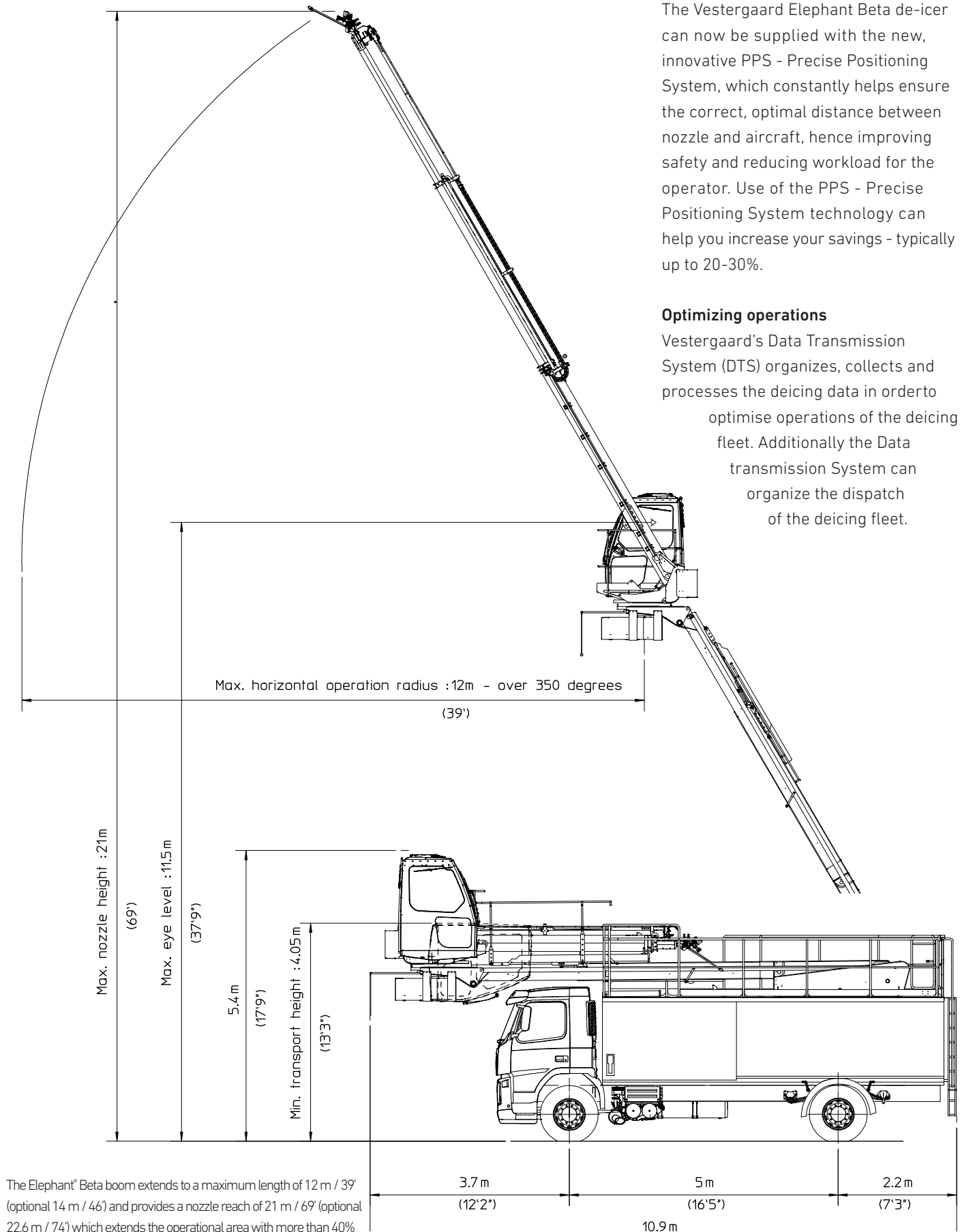
The deicer can be easily switched between two-man and one-man operation mode from the operator's cabin.

### 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 order to optimise operations of the deicing fleet. Additionally the Data transmission System can organize the dispatch of the deicing fleet.



## 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 CO<sub>2</sub>
- » Low exhaust temperatures – no risk to other equipment or staff

COMPANY

# VESTERGAARD

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