

Ideas out of experience!

# MEIER-BRAKENBERG

## Disinfection Gate

mobile and stationary  
preventive biosecurity measure  
acute epidemic control



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# DESTOR mobil500

## Mobile Disinfection Gate



### Quick Setup

- *Folding and connection system for simple assembly made of aluminium square tubes.*
- *Swivelling device for effortless erecting of the gate without using a forklift.*
- *Safe transport of all materials in a well thought-out storage system.*
- *Adjustment of the exact dosage at the injection dosing system; reliable mixing of the solution which is intermediately stored in the container.*

**DESTORmobil500** can be quickly installed at the boundary of operations or restricted areas in acute cases of epidemics. Vehicles of all kinds are automatically decontaminated without the need for manpower. A high-efficiency sensor system detects incoming or outgoing vehicles and triggers the

disinfection pump. Nozzles that are not susceptible to wind and that are installed overlapping in the arch and floor ramp wet the vehicles over their entire surface with a high application rate. The solution is reliably mixed by a dosing pump.

#### In brief:

- **The disinfection gate is a modular and lightweight construction system and can be assembled without tools by two people, ready for use within 20 minutes.**
- **High spread rate of 0.4 litres per square metre at a passage speed of 2.4 km/h applied to cars and trucks.**
- **Sensor control activates the pump fully automatically when entering or exiting.**
- **Drive-on floor ramp with recessed nozzles ensures good wheel, tyre and underbody disinfection.**

### Mobile Disinfection Gate

	DESTORmobil500
<b>Spray arch</b>	Aluminium profile construction, 100 mm, with barrel weighting and unfolding function, internal nozzle line with immediate stop nozzles, 3.11 m wide floor traverse with recessed nozzles, drive-through dimensions 4.02 x 4.58 m (w x h), outer dimensions 5.28 x 4.02 x 4.77 m (l x w x h)
<b>Pump and control box</b>	Stainless steel centrifugal pump 200 l/min, 230 V/50Hz, 1.85 kW, hoses and couplings, electronic injection dosing system with stepper motor pump: flow rate 10-2,500 l/h, dosing: 0.01 - 15 %, max. 30 l/h, batch and time dependent dosing function, documentation option, dimensions box: 0.80 x 1.35 x 1.05 m (l x w x h)
<b>Solvent storage tank</b>	1000 l plastic container with forklift attachment, floater control. Dimensions container: 1.00 x 1.20 x 1.50 m (l x w x h)

*The decontamination of vehicles and equipment has become an essential part of safety in recent years.*



**DESTOR ST500**  
**DESTOR ST200**  
**DESTOR ST100**

## Stationary Disinfection Gates



### DESTOR ST500

The solid aluminium profile frame with internal nozzle line and the floor ramp is permanently screwed onto the floor pan.

Decontamination of all vehicles works fully automatically via sensor detection. A dosing pump reliably mixes the disinfectant solution which is in a storage tank. (Construction and equipment same as for DESTORMobil500)

Stationary drive-through locks are located at the operation's boundary on a steel pan or concrete floor with collecting device. Once installed, they permanently protect your own operation. They prevent the spread of epidemics and pathogens at logistical hotspots.

The spray arch consists of a solid tubular frame with integrated nozzles that are not susceptible to wind. The pump ensures a constantly high pressure and a high disinfectant solution application rate of 0.4 l/m<sup>2</sup> at a passage speed of 2.4 km/h. The door is stabilised with corner and foot brackets on both sides.



### DESTOR ST200

Disinfection is carried out automatically. The high-efficiency sensors on the spray arch detect incoming and outgoing vehicles and trigger the disinfection pump.



*Nozzles in the floor ramp ensure powerful underbody, tyre and wheel housing cleaning as well as complete decontamination.*



### DESTOR ST100

The disinfection pump can be switched on and off by remote control. All sides of the vehicle are completely decontaminated.



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## Disinfection Gates in Detail



**Programmable high-efficiency sensor circuit:** For passing through the disinfection lock from one or both sides.



**Solution tank:** Container for disinfectant solution, 1,000 litre plastic container with or without float switch, connection and ventilation set with suction hose.

**Dosing technology:** Dosage of the active agent and automatic filling system for the solvent container. Exact dosing of liquids, water consumption measurement and data storage on SD card. Integrated in pump and control box.

Dimensions: 1,380 x 800 x 1,050 mm



**Floor ramps** are absolutely necessary for the complete decontamination of the vehicles from below and at the wheels. The nozzles on the ground line are designed for intensive underbody wetting. You can choose between an aluminium drive-over twin ramp or a one-piece extremely robust steel ramp.

**Collecting pan:** Two-piece steel collecting pan, primed and painted.

Dimensions 4,300 x 3,700 x 70 mm

**Mobile collecting pan:** Disinfection and collecting pan made of tear-resistant coated polyester fabric, lateral upturns, entry and exit side with flexible foam core (suitable for Destor mobil 500).

Dimensions: 3,600 x 20,000 mm



### Stationary Disinfection Gates

	DESTORST 500	DESTORST 200	DESTORST 100
<b>Spray arch</b> 100 mm aluminium square tube frame, 50 mm aluminium tube frame, inner dimensions 3,740 x 4,600 mm (w x h)	yes	yes	yes
<b>Floor ramp</b> a) Double aluminium floor ramp, twice 800 x 750 x 88 mm (L x w x h) b) One-piece steel ramp, 3,500 x 760 x 70 mm (L x w x h)	yes	alternative option	alternative option
<b>Pump and control box with</b> 1. Multistage stainless steel centrifugal pump 200 l/min, 230 V/50 Hz, 1.85 kW, 2. High-efficiency sensor detection for vehicle traffic from one or both sides 3. Dosing technology with automatic filling system electronic injection dosing with stepper motor pump, setting range 0.01-15 %, flow rate 10-2,500 l/h, data storage on SD card	yes yes yes	yes yes yes	yes no no
<b>Solvent storage tank MBDESTO13</b> a) 1,000 l plastic container, fork lift attachment, floater control. Dimensions 1,000 x 1,200 x 1,500 mm (L x w x h) b) 1,000 l plastic container, fork lift attachment. Dimensions: 1,000 x 1,200 x 1,500 mm (L x w x h)	yes no	yes no	no optional

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