

# 1 FAUN runway sweeper type TERRAJET 9



mounted on a free of charge delivered chassis for example:

MB Actros 1832

MB Atego 1823

## General description

### 1. Body

#### Body

The body is constructed in heavy self-supporting welded steel plate; it has a stainless steel bottom. Volume is approx. **9 m<sup>3</sup>**.

#### Tipping

The tipping is made by a hydraulic cylinder. The tipping angle is approx. 50°. A safety locking hydraulic valve protects the body when lifted against any accidental fall down. A hand stick is installed to secure maintenance and repairing operations.

#### Air duct

The special form of the hopper and arrangement of the stream in the opening and the fan suction duct result in a circular air stream. Heavier parts are separated from the air by centrifugal force.

**Rear door** The rear door can be opened and closed by hydraulics. A non-return hydraulic valve secures the rear door when tilted against accidental fall down, following the German regulations UVV. In order to separate the liquid part from the solid part of the refuses, there is a strainer at the inside part of the rear door connected to the outside by a drainage flexible hose. Furthermore you find an inspection door on the top of the hopper.

## 2. Auxiliary engine, exhaust fan and ancillaries equipment

**Auxiliary engine** Diesel high rated and economic 6-cylinders engine type **Mercedes Benz model MB PM 906 LA, Euromot 2** (approx. 170 kw at 2.300 rpm). An air filter type Pico – Zyklon is mounted on the engine suction in order to protect it from dust.

**Transmission** The fan and the hydraulic pump are driven through a drive-belt system that can be easily dismantled and tightened. Furthermore, a special clutch is mounted.

**Fixings** The fixing plates of fan and engine of chassis are mounted elastically.

## 3. Top-level exhaust fan

**Fan** The high performance fan operates at 3.200 rpm and blows 500 m<sup>3</sup>/min. It is made of high wear resistant materials.

**Air recycling system** The FAUN air recycling system leads the greater part of the air which has already passed through the refuse hopper to the fan and through a flexible duct to the blowing duct. The part of air, which has not been recycled, is driven to the outside through a sound proofed enclosure cowl with common walls to the fan and engine compartment. The top-level fan adopted for the FAUN air recycling system is made of high wear resistant materials.

**Advantages:** Very low dust emissions because there is only a little quantity of the dusty aspirated air which goes back to the atmosphere. The recycled air being compressed inside the fan is heated. The sweeping characteristics of the sweeper are improved, and it is then possible to sweep under winter conditions when temperature falls below 0°C.

## 4. Sweeping and suction equipments

The suction nozzle is approx. 2.100 mm wide and mounted at the rear of the vehicle.

**Suction nozzle** one suction nozzle is connected to the body with two suction hoses

**Blow nozzle** the blow nozzle is connected to the body with three blow hoses

**Roller brush** The roller brush is 2.080 mm wide and 400 mm in diameter  
2 pneumatic cylinders can lift the roller brush.

The entire suction system is lifted by two pneumatic cylinders when travelling or moving backwards. The system is designed for a work speed of up to 40 km/h.

## 5. Water spraying

**Water tank** A water tank made of plastic (GFK) with a total capacity of about 2.000 l, mounted between the cab and the refuse container.

**Water taps** The water tap feeds the following water sprays:

- two sprays on each left and right suction channel,
- two sprays on each circular brush, when mounted.
- 1 pipe Storz D for cleaning the hopper, 7 m

The water tap provides water by compressed air, without water pump. The water taps are operated from the cab.

## 6. Controls and gauges

**Inside the cab** The controls, gauges and status indicator lamps which are used for the sweeping operations are built near to the operator. Most frequent used functions are arranged on an ergonomic control panel - for example those which are controlling operations like sweeping, spraying and the fan clutch. The auxiliary and truck chassis engines controls are grouped together on a particular control panel. Cooling liquid temperature and oil pressure of the auxiliary engine are indicated optically and acoustically when exaggerating safety thresholds.

## 7. Hydraulic, Pneumatic and Electric Systems

**Hydraulic** The hydraulic system for the channel brush and tilting of the body is made of an oil tank, a filter on the back flow, a pump, some hydraulic valves and hydraulic motors.

**Pneumatic** The pneumatic system for the inclination and adjustment of the sweeping equipment comprises an air tank, some electro-pneumatic valves and pneumatic cylinders.

**Electric** The electric system which drives the pneumatic and hydraulic valves consists of switchboards, digital and analogical gauges, electro-magnetic safety relays, there is one orange rotating beacon on top of the body.

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## 8. Painting

**Body** Two-components painting of the body in one RAL-colour.

**Equipment and subframe** The equipment is coated with black painting and yellow and black or red and white stripes.

## 9.Others

User's guide

Spare parts catalogue

The equipment is marked with the CE - label and corresponds to the regulations of the 89/392/EWG standard.

Price of the equipment as described above, and mounted on chassis, ex works

**EUR**

## **possible options:**

Sound absorbing package

Maintenance kit

Complete central lubrication point for interior lubrication points

Lateral circular brooms diam.850 mm right and left between the axles (in connection with blast nozzles only possible for vehicles with wheel base of 4.100 mm)

1 set of working lights (1 per each circular broom)

2 lateral blast nozzles, continuously movable and sinkable (electr.) from the cab (in connection with circular broom only possible for vehicles with wheel base of 4.100 mm)

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2 lateral blast nozzles electrically continuously revolving and sinking from the cab (in connection with circular broom only possible for vehicles with wheel base of 4.100 mm)

Snow clearance equipment

Wander hose mounted on rear door

Permanent magnet on the front, can be lowered and removed (preliminary setup of snow sweeping plate required)

Suction funnel and tunnel plate made of high-grade steel 1.4301

Suction nozzle with wear protection of a thickness of 4 mm made of Polyurethane

Water system with outlet system for compressed air for Terrajet 9 (series for Terrajet 6)

Inner surface of the container coated with Inertol Poxitar on the point where the dust is picked up

Warning lights with 3 lense optic especially for use at airports

Reverse control camera protection class IP 69 R (camera/monitor)

Refuse container Two-coloured in RAL colours

The VAT rate is not included.

At delivery, we offer a free training for the operator at our premises in Grimma. Travelling costs and accommodation for the staff are not included.

If we have to modify the equipment in order to follow legal obligations, we will strictly carry out the necessary product modifications. These modifications will be quoted and the additional amount will be invoiced.

**Payment:** Against opening of an irrevocable Letter of Credit in Euro in favour of FAUN Expotec GmbH, confirmed by a first-class German bank, payable at transport documents.

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**Delivery time:** According to agreement and the state of production. The chassis truck has to be available about 14 weeks before date of delivery

**Validity of offer:** 90 days from date of quotation

Yours faithfully

FAUN Sa

Area Sales Manager

Mr. Amanrich  
phone: +33 619071510