



ROAD SWEEPERS

**STREAMLINE  
GENERATION**

- ⊕ Sweeping
- ⊕ Blowing
- ⊕ HP apron cleaning
- ⊕ Suction

**TERRAJET**

**RELIABLE  
PROGRESSIVE**

 **FAUN**  
KIRCHHOFF GROUP

# TERRAJET

## The airfield sweeper

Thanks to its modular design, the TERRAJET can be adapted to suit the specific requirements of any airport. Whether you need to clean taxiways, runways or the apron, the high-performance TERRAJET can do it all with ease.

The TERRAJET comes with FAUN's patented air circulation system as standard, which guarantees the lowest emission values in the expelled air.

### FAUN drive concepts

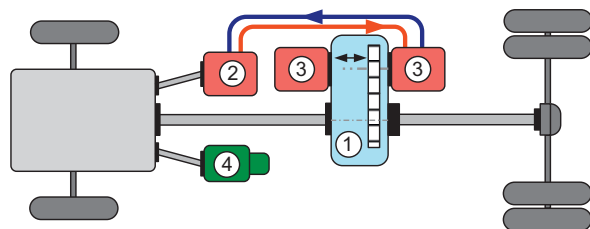
#### Hydrostatic drive HS 3000

In driving mode, the HS 3000 uses the normal drive train with a fixed drive shaft and can therefore be combined with normal or automated chassis drives. This ensures that the drive motor runs at the most efficient speed and in the optimal consumption range. The driver can safely complete all sweeping tasks in the required area at speeds between 0 and 40 km/h. Thanks to the automated transmission and the DSS (drive selection switch) function, the driver can switch from the working mode to the driving mode and vice versa within 2 seconds.

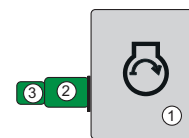
#### Auxiliary engine

A 180 kW, 6-cylinder engine powers the large suction fan and body hydraulics, using low-loss hydraulic transmission. The superstructure is driven independently from the chassis engine.

- EU97/68/EC Stufe 4 / Tier 4f
- Euromot 3a (not for Europe)



- 1 Gear box
- 2 Drive pump
- 3 Drive motors
- 4 Auxiliary pumps



- 1 Auxiliary engine
- 2 Turbine pump
- 3 Working hydraulics



#### The HS 3000

The system is powered by a rear engine PTO. Thanks to the power-optimised engine usage strategy, the vehicle achieves excellent emissions values.



#### The auxiliary engine

As an option, a powerful auxiliary engine, boasting the latest exhaust gas treatment technology and high-efficiency, powerful hydraulics, can be fitted to drive the high-performance suction fan and other consumers.



#### The suction fan

Even at speeds up to 40 km/h, the TERRAJET has no problem picking up sweeper material, thanks to the powerful suction fan.

## 1 The FAUN air circulation system

The FAUN air circulation system continuously transports the extracted air from the debris container to the blowing nozzle behind the brush of the suction nozzle. The air circulation system helps the brush pick up small dirt particles. When loaded with new debris, the already moistened and heated air is sucked back into the suction nozzle for recirculation. The quantity of circulating air can be variably adjusted between 30 and 70% depending on the application.

Only the relatively small proportion of air that is not recirculated flows out smoothly under the machine. Fine dust emissions from the FAUN road sweeper with the air circulation

system are approximately 50% lower than for pure suction road sweepers. In addition, the clean exhaust air does not blow dust around, because it is expelled behind the sweeper units on the section of the road that is already clean.

Adding water to the blast air also enables the road to be cleaned in the working area of the suction nozzle. In winter, the machine can be used in temperatures down to -5°C by adding water to the suction nozzle; the air introduced into the circuit is heated by around 15°C and therefore prevents the water in the suction nozzle and the container from freezing.



### The debris container

The laterally raised bottom sheet made of V2A, in combination with the large tipping angle, ensures efficient emptying and easy cleaning. The sophisticated air flow system enables a high degree of debris separation efficiency to be achieved in the container.



### The water tank

The lightweight, glass-fibre-reinforced plastic tank of the TERRAJET is entirely non-corrosive and prevents the build-up of limescale. The arrangement of the tank ensures optimum weight distribution; it also improves stability during tipping and serves as soundproofing.



### The sweeping unit

The moveable sweeping unit enables high speeds to be achieved on bends. The trailing brush in combination with blower nozzles ensures the best possible cleaning results.





#### The inspection door

Suction hoses are easily accessible through this door, in order to turn them regularly. This way, wear on suction hoses is spread evenly. Suction hoses will last longer and operational cost is reduced.



#### The control centre

As with all FAUN road sweepers, all of the switching elements and valves of the TERRAJET for compressed air and hydraulic and electrical systems are readily accessible in a central position. When troubleshooting, service technicians can therefore get to the bottom of problems quickly. The dust and water-protected units simplify regular maintenance.



#### At your fingertips, not only in sight

The control centre for the driver is clearly laid out – and thanks to the tactile switches and controls, it can even be operated without looking. The driver can concentrate entirely on the road sweeping task at hand and the surroundings.



#### WATER TANK VOLUMES

Variant	Water as standard	Optional upgrade with change of wheelbase
TERRAJET 7	1,200 l	Additional 1,700 l Additional 2,000 l
TERRAJET 9	2,000 l	Additional 1,200 l Additional 1,700 l



#### DRIVE CONCEPTS

Drive versions	Body category	
	7 m <sup>3</sup>	9 m <sup>3</sup>
Auxiliary engine	x	x
Hydrostatic drive	x	x



## FAUN special applications



*Disc brooms on right and left-hand sides*



*Blower nozzles can be directed manually or from cab*



*Magnetic bar*



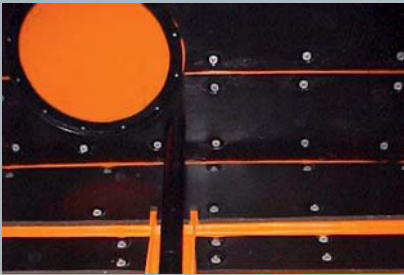
*Glycol suction system integrated into sweeping unit*



*HP bar on sweeping unit*



*Container heating*



*Noise insulation*



*Manual suction system at the rear*



*Hot-water cleaning systems*



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