ROAD SWEEPERS

STREAMLINE GENERATION

- High suction performance
- Optimised aerodynamics
- More water
- Air circulation system

POWER CLASS

VIAJET 8

RELIABLE
PROGRESSIVE

FAUN
KIRCHHOFF GROUP

VIAJET 8 –
The construction site sweeper

The VIAJET 8 combines a huge usable volume with high suction for the toughest applications. The VIAJET 8 is therefore especially suited to the demanding conditions of construction sites and the cleaning of large surfaces with high-pressure systems, where both performance and range are required.

The VIAJET 8 comes with FAUN's patented air circulation system as standard, which guarantees the lowest emission values in the expelled air as well as a high suction capacity.

FAUN drive concepts

Hydraulic drive of the sweeping assembly

The fan and sweeper units of the sweeping machine are driven by a hydraulic double pump, which is connected to the clutch-independent PTO of the chassis. The driver can freely regulate the engine speed with the accelerator pedal between 900 - 2,000 RPM, thereby adjusting the sweeping speed as necessary.

Fan power is adjusted to the available horsepower in line with demand, meaning that fuel can be saved. The omission of an additional auxiliary engine reduces maintenance costs and creates space for more water.

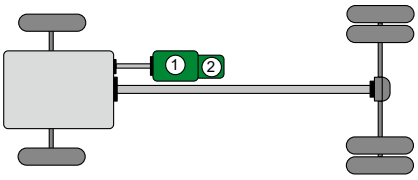
Hydrostatic drive HS 2000

In travel mode, the HS 2000 uses the normal drive train with a fixed drive shaft and can therefore be combined with all series transmissions of the chassis. In sweeping mode, the driving gear is switched to neutral, and a rear engine PTO drives a special driving pump. This feeds a driving motor, which drives the rear axle via the hydrostatic transmission. Fan and body functions are therefore supplied completely separately via a second auxiliary drive.

In sweeping mode, the chassis engine is maintained in the optimum operating range across all sweeping speeds, relieving the conventional drivetrain. The driver controls the infinitely variable speed via the normal accelerator pedal, and can quickly change from forwards to backwards without changing gear. Cruise control is also optionally available for sweeping mode.

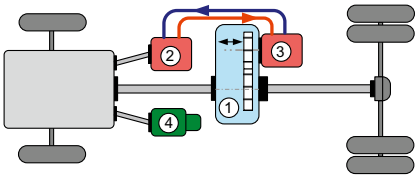
Presentation of hydraulic fan drive

1 Fan pump
2 Working hydraulics



Presentation of HS 2000

1 Gear box
2 Travel pump
3 Drive motor
4 Auxiliary pumps



Streamline suction fan

The scewed mounted suction fan is designed to optimise the volume flow. The suction capacity, which is thus improved, is particularly suitable for heavy debris and surface cleaning systems.

Considerable space for water

The lightweight, glass fibre reinforced plastic tanks of the VIAJET 8 are entirely non-corrosive and prevent the build-up of limescale. The arrangement of the tanks means that the centre of gravity is lowered and ensures optimum weight distribution; it also improves stability during tipping and serves as sound isolation towards the cab.

350 l diesel tank

With a short wheelbase and extensive features, the 350 l diesel tank, which is optionally integrated into the body, broadens the range of the VIAJET 8. It is easily accessible and well protected against dirt.

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 suction shaft. When loaded with new debris, the already moistened and heated air is once again sucked into the suction shaft and thereby circulated. The quantity of recirculating air can be variably adjusted between 30 and 70 % depending on the aplication.

Only the relatively small proportion of air which is not recirculated flows out smoothly from beneath the machine. Fine dust emissions from the FAUN road sweeper with the air circulation system are therefore 50 % lower than for pure suction road sweepers. In addition, the VIAJET 8 does not blow dust around, because clean exhaust air is expelled behind the sweeper units on the portion of the road which 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, it can be used in temperatures reaching down to -5 °C by adding water to the suction shaft, as 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 suction nozzle

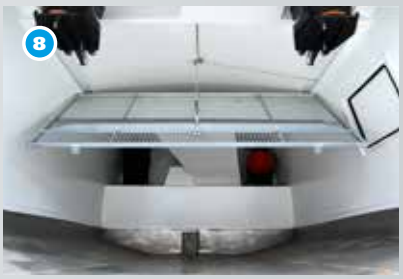
The large suction nozzle of the VIAJET 8 has an extra-wide, automatically operating bulky debris flap and optimal aerodynamics to suck up large amounts of heavy sweeper or milled material. The robust construction is designed for rough construction site operation.

The roller brush

The pendulum suspended, towed roller brush adapts perfectly to uneven surfaces on the road. Due to its broad working angle, it also gathers large volumes of heavy sweeping debris quickly and directly towards the suction shaft.

The powerful broom

The channel brush of the VIAJET 8 can be swung inwards and outwards in several stages, with the inclination variably adjustable in all directions. Due to its working position in front of the roller brush, no debris ist left behind.



The large debris container

The laterally raised hopper floor made of V2A, along with the bodies steep tipping angle, ensures efficient emptying and easy cleaning, also in the case of milled material. The particularly large debris container delays oversuction; even when fully loaded. The water tank is separate from the container, meaning that stability is increased during tipping.

The efficiently arranged control centre

As with all VIAJETs, all of the switching elements and valves of the VIAJET 8 for compressed air, hydraulic and electrical systems are easily accessible in a central position. When trouble-shooting, service technicians can therefore get to the bottom of problems quickly. The dust and water-protected units mean that also regular maintenance is simplified.

At your fingertips, not only in sight

The control centre for the driver is not only straightforward, but due to the tactile switches and controls, can also be operated without looking. The driver can concentrate entirely on the road sweeping action and the traffic.

WATER TANK VOLUMES

VIAJET 8 drive concepts	Water as standard	Optionally upgradable with changes to the wheelbase
with integrated diesel tank	2,200 l	Additional 600 l Additional 1,200 l Additional 1,700 l Additional 2,000 l
without integrated diesel tank	2,500 l	

DRIVE CONCEPTS

	Body category					
Drive versions	**4 m³**	**5 m³**	**6 m³**	**7 m³**	**8 m³**	**12 m³**
Auxiliary engine	x		x	x		
Hydraulic drive		x	x	x	x	
Hydrostatic drive		x	x	x	x	x

POWER CLASS

	Road sweeper type	
CITY CLASS	VIAJET 4	VIAJET 5
VARIO CLASS	VIAJET 6	VIAJET 7
POWER CLASS	**VIAJET 8**	VIAJET 12

FAUN special applications

Surface cleaner SC250U

Surface cleaner SC250A

TURBOJET

Telescoping sweeping unit

Third broom behind front axle

Front brush assembly

FLATJET – Front installation

HYDROJET for surface suction

Ambient lighting

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