



ROAD SWEEPERS

**STREAMLINE
GENERATION**

- ⊕ High suction performance
- ⊕ Optimised aerodynamics
- ⊕ More water
- ⊕ Air recirculation system

POWER CLASS
VIAJET 12

**RELIABLE
PROGRESSIVE**

 **FAUN**
KIRCHHOFF GROUP

VIAJET 12 – Your high performance specialist

The VIAJET 12 is constructed for the harshest and most specialist working environments due to its size and performance. This sweeper, with extreme suction power, is mounted on a 3-axle chassis with 26 t gross vehicle weight, and combines an enormous load capacity with great volume, for maximum autonomy.

Application-oriented equipment programs make the VIAJET 12 a specialist machine for service providers who

need to cope with the most demanding cleaning tasks quickly and efficiently on large construction sites and motorways.

The VIAJET 12 comes with FAUN's patented air recirculation system as standard, which guarantees the lowest emission values in the expelled air as well as a high suction capacity.

FAUN drive concept

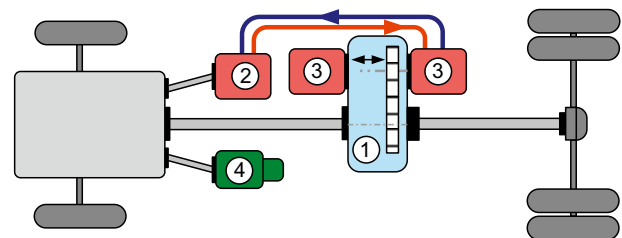
Hydrostatic drive HS 3000

In travel mode, the HS 3000 uses the normal drive train with a straight through drive shaft and can therefore be combined with normal, but also automated gear boxes. Due to the unique design, very long transmissions are also possible. These allow low engine speeds when travelling, with low consumption.

In sweeping mode, the driving gear is switched to neutral, and a rear engine PTO drives a special driving pump. This feeds two drive motors that drive the rear axle with infinitely variable speed via the hydrostatic transmission. Fan and body functions are therefore supplied completely separately via a second PTO.

In sweeping mode, the chassis engine is maintained in the optimum operating range across all sweeping speeds, relieving the conventional drivetrain. The driver controls

Presentation of the HS 3000



1 Gear box
2 Travel pump

3 Drive motors
4 Auxiliary pumps

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.



Maximum suction performance

The scewed mounted suction fan is designed for high suction power even at high sweeping speeds. Due to the large volumes of air at high suction powers, sweeping units and rear-mounted surface cleaning systems can be used simultaneously without any decline in power.



Extraordinary high volume of water

The VIAJET 12 has a 4,700 l total water volume as standard. However this capacity can actually be expanded by adding extra water tanks. The lightweight, glass fibre reinforced plastic tanks 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 also serves as sound insulation towards the cab.



The strongest drive

The high-performance hydrostatic HS 3000 for engine performance beyond 400 hp ensures driving comfort and quick changes from forwards to backwards at a constant engine speed at its optimal operating point.

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 application.

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 12 does not blow dust around, because clean exhaust air is expelled behind the sweeper units on the section 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 shaft. 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 shaft and the container from freezing.



-  Dirty air drawn in
-  Circulating blast air
-  Clean exhaust air



The suction nozzle

The large suction nozzle of the VIAJET 12 has an extra-wide, automatically operating bulky debris flap and optimal aerodynamics to accommodate 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 brushes of the VIAJET 12 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 is left behind.



The huge debris container

The laterally raised body floor made of V2A is configured in an incline towards the rear on the VIAJET 12. This ensures optimum loading due to special air routing, as well as efficient emptying, even in the case of milled material. The VIAJET 12 sets itself apart with its large debris chamber at the rear due to low oversuction.



The efficiently arranged control centre

As with all VIAJETs, all of the switching elements and valves of the VIAJET 12 for compressed air, hydraulic and electrical systems are easily accessible in a central position. When troubleshooting, 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 12 drive concept	Water as standard	Optionally upgradable with changes to the wheelbase
Hydrostatic drive	4,700 l	Additional 1,200 l Additional 1,700 l Additional 2,000 l



DRIVE CONCEPTS

Drive versions	Body category					
	4 m ³	5 m ³	6 m ³	7 m ³	8 m ³	12 m ³
Auxiliary engine	x		x	x		
Hydraulic drive		x	x	x	x	
Hydrostatic drive		x	x	x	x	x



POWER CLASS

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



AQUATHERM – surface cleaning



Tunnel cleaning



Front broom



Surface cleaner SC250U



Telescopic sweeping unit



HYDROJET / SC250U



TURBOJET / SC250U



FLATJET / SC250U



FLATJET – rotatable and lowerable



FAUN Umwelttechnik GmbH & Co. KG
Feldhorst 4
27711 Osterholz-Scharmbeck
GERMANY
Tel. +49 47 95 9 55-0
Fax +49 47 95 9 55-200
info@FAUN.com

www.FAUN.com