VIAJET 6

PRO CLASS

FAUN
KIRCHHOFF GROUP

VIAJET 6
PROFESSIONAL TOOL

The VIAJET 6 is versatile, environmentally friendly, economical and efficient. With the patented FAUN recirculation system, it guarantees minimal exhaust air and minimal fine dust emissions – perfectly suited for every application.

1 The FAUN air circulation system

The FAUN air circulation system continuously transports the extracted air from the debris hopper back to the suction nozzle. Together with the collected dirt, the already moistened and heated air is sucked back into the suction shaft and thus 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 under the machine. Fine dust emissions from the FAUN road sweeper with the air circulation system are therefore approximately 50 % lower than for pure suction road sweepers. Since the exhaust air is released behind the sweeping units, and therefore behind the already cleaned section of the roadway, no dust is stirred up.

Adding water to the blow air also enables the road to be cleaned in the working area of the suction nozzle. In winter, operation is possible at temperatures down to -5 °C, since the recirculated air warms by approximately 15 °C, preventing the water in the suction nozzle and hopper from freezing.

GOOD REASONS TO BUY VIAJET:

- 15–18 t chassis
- Modular cockpit
- Versatile drive concepts: auxiliary engine, hydrostatic drives, hydraulic drive, electric drive
- Innovative single-engine concept with automatic or automated transmission
- STREAMLINE fan with high suction power
- Maintenance- and service-friendly design
- Lowest fuel consumption, lowest maintenance costs
- Clean water tank capacity from 1,900 l

3 The lightweight plastic tanks are corrosion-free and prevent limescale deposits. The arrangement lowers the centre of gravity, ensures optimum weight distribution and provides sound insulation. The water tank is separate from the hopper, which increases stability in the event of tilting.

Water tank volume

Drive systems	**as standard**	**optionally expandable** without changing the wheelbase	**optionally expandable** with wheelbase modification
Auxiliary engine Deutz	1,900 l	-	up to 3,900 l
HYDRO-DRIVE	1,900 l	up to 2,700 l	up to 4,700 l
Hydrostatic drive	1,900 l	up to 2,700 l	up to 4,700 l

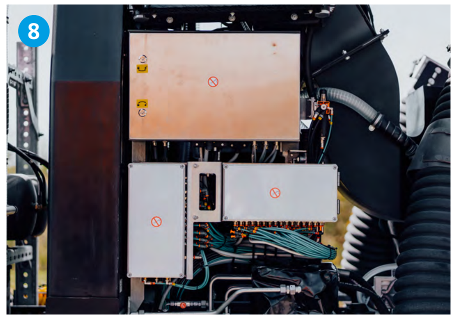
The inclined suction fan optimises the volume flow and reduces the accumulation of dirt. The resulting improvement in suction power easily handles heavy debris and surface cleaning.

The large V shaped suction nozzle is equipped with an extra wide, wear resistant leaf flap. The optimal aeordynamic allows the intake of large amount of heavy sweeping debris or milling material. The wide wheels run safely across rail grooves.

The pendulum-mounted, pulled roller brush adapts perfectly to surface irregularities. Thanks to its large angle of attack, it guides even heavy debris quickly and directly into the suction nozzle.

The very powerful, pushed disc brush can be swivelled outwards in several stages. The brush inclination is pneumatically adjustable. Alternatively, a pulled disc brush with optimised obstacle-avoidance function is available.

The high-pressure system is available in multiple performance levels, for example 120 l/120 bar. It can be used for powerful wet cleaning, for instance to supply the FLATJET HD wash bars.



The control elements and valves for pneumatics, hydraulics and electrics are centrally arranged and easily accessible. All components are installed in a dust and water protected design.

FAUN DRIVE CONCEPTS

With the various drive options, we offer the right solution for every application.

M

CLASSIC AUXILIARY ENGINE

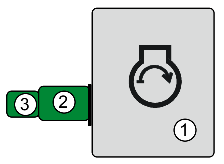
A separate auxiliary engine powers the sweeping units and blower independently of the chassis engine.

Power transmission is purely hydraulic, with no wear-prone mechanical components.

Depending on the exhaust aftertreatment requirements, different auxiliary engines are available:

- EU Stage V emission standard
- EU Stage IIIA emission standard (for use outside the EU and USA only).

Classic auxiliary engine



1 Auxiliary engine
2 Fan pump
3 Working hydraulics

H

HYDRO-DRIVE

The suction fan and sweeping units are driven by a hydraulic dual pump connected to a clutch-independent PTO of the chassis.

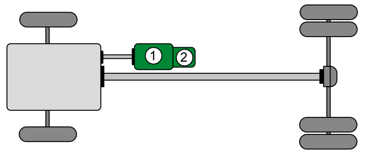
HYDRO-DRIVE

The driver can use the accelerator pedal to freely set the engine speed between 900 and 2,000 rpm, allowing the sweeping speed to be adjusted individually.

The turbine output is demand controlled and matched to the available engine power, which helps to reduce fuel consumption.

Eliminating the additional auxiliary engine reduces maintenance effort and frees up space for increased water capacity.

HYDRO-DRIVE



1 Fan pump
2 Working hydraulics

HS

HYDROSTATIC DRIVE

The hydrostatic drive enables stepless speed control and ensures precise vehicle handling in sweeping mode.

HS 1010

The HS 1010 hydrostat is installed as an intermediate axle gearbox between the transmission output and the rear axle differential.

In sweeping mode, the mechanical through drive is interrupted and the power from the transmission output is routed to a hydraulic pump, which drives a hydraulic motor for the rear axle.

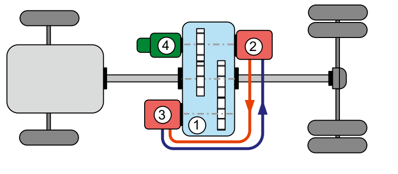
The full hydrostatic system additionally powers the complete sweeper body via a second hydraulic pump combination.

HS 2000

On the HS 2000 model, the sweeper body is driven by a hydraulic system supplied by pumps on the chassis PTO, allowing sweeping speeds from 0.5 to 40 km/h.

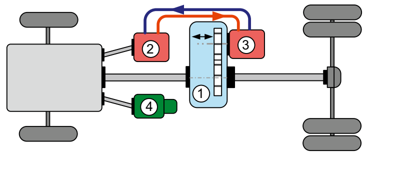
Both systems provide efficient power transmission and allow optimum adaptation to the respective application.

Hydrostatic drive HS 1010



1 Transfer case
2 Drive pump
3 Drive motor
4 Sweeper body pump

Hydrostatic drive HS 2000



1 Spur gearbox
2 Drive pump
3 Drive motor
4 Sweeper body pump

E

ELECTRIC SWEEPER BODY DRIVE

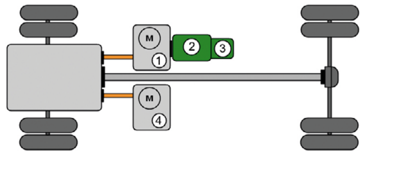
The blower and sweeping units are driven CO^{2}_{2}-free by two high-performance electric motors.

The electric motors are powered by the chassis. The driver can operate completely independently of the suction fan's power demand. The fan speed can be continuously adjusted and individually matched to the sweeping speed.

Thanks to the demand-driven electric drive, power losses in the drive system are significantly reduced.

The vehicle batteries offer a capacity of up to 500 kWh and operate on a 400 V architecture.

Electric sweeper body drive



1 E-PTO for hydraulics
2 Working hydraulics
3 Additional consumers
4 E-PTO for fan

Clear Cockpit

The driver's control center is not only clearly organized but also equipped with tactile switches and controls that can be operated without looking. This allows the driver to focus entirely on the sweeping operation and traffic.

Debris hopper

The debris hopper can be tilted by up to 60° for emptying using a two-stage tipping cylinder. For maximum safety, the hopper is equipped with a throttle check valve and a safety prop.

Front brush

The single- or double-sided front-mounted brush allows efficient operation on weeds as well as on different working levels.

Additional disc brush

Depending on the available space, an additional disc brush located behind the front axle supports the cleaning process.

Surface cleaner

The attached surface cleaner SC200A ensures effective cleaning across a width of up to 2,500 mm.

Sound insulation

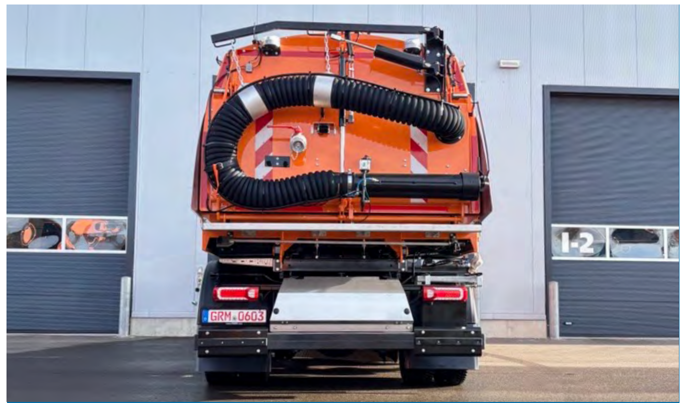
The Silent and Silent Plus sound insulation packages reduce the noise emission level and thus improve acoustic comfort in operation. For even higher requirements, a version meeting the Blue Angel criteria is available.

Work area lighting

LED floodlights mounted on the hopper roof provide illumination of the entire vehicle surroundings.

Interchangeable body

Sweeping body available in an exchangeable design.



Rear-mounted wanderhose

The rear-mounted wanderhose with diameters of 200 mm or 250 mm features a manual gate valve as well as a pneumatic lift and lower function.

Top-mounted wanderhose

The top-mounted wanderhose with a diameter of 200 mm offers flexible operation and can be swivelled 270° from left to right.

High-pressure hand lance

The hand-held lance is supplied by the high-pressure system and is designed for mobile cleaning tasks as well as cleaning the sweeper itself.

Low-pressure water nozzles

Low-pressure water nozzles pre-wet the debris, ensuring efficient pick-up and a clean sweeping result.

This Name Has Driven the Automotive World Since 1845.

We are 2,000 passionate individuals with a love for technology and craftsmanship.

We think outside the box and dare to explore new paths.

With full dedication, we manufacture sweepers and refuse collection vehicles.

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More about the sweeper location Grimma

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