FAUN CITYJET series

FAUN
KIRCHHOFF GROUP

RELIABLE
PROGRESSIVE


FAUN
CITYCAT
RENAULT TRUCKS

The FAUN CITYJET series was developed in accordance with FAUN’s experiences and with help and advice of our worldwide customers. The sweeper is made mainly for a municipal use and can be delivered as a complete build body kit (CBB) or optionally mounted onto the free of charge delivered chassis into our factory in Grimma / Germany.

We have especially considered following characteristics during the development:

- High sweeping performance
- Minimal environmental impact
- Low operational costs
- Modern and practical control system
- Simple operation
- High ergonomics
- Long life time
- Usual FAUN Quality

CITYJET 5

- Gross capacity 5.5 m^3 (7.2 yd^3)
- Water tank capacity 1500 l (396 US gal)

CITYJET 6

- Gross capacity 6.5 m^3 (8.5 yd^3)
- Water tank capacity 1900 l (502 US gal)

Both models are modularly designed and share the same components architecture like sweep gears, power trains, hydraulics, pneumatics and control system.

Following emission values are reached by the sweeper:	
Noise level according to 2000/14/EG	LWA = 109 dB(A)
Emission class of auxiliary engine	Stage V / US EPA Tier 4 final (outside of the EU / USA also possible as Stage IIIA)
Particle matter according to EN 15429-3	★★★★

CITYJET 5

- Hydrostatic
- DEUTZ 55 kW EU stage V
  75 hp EPA Tier 4f
- DEUTZ 100 kW EU Stage V
  136 hp EPA Tier 4f
- DEUTZ 90 kW EU Stage 3
  122 hp EPA Tier 3

CITYJET 6

- Hydrostatic
- DEUTZ 55 kW EU stage V
  75 hp EPA Tier 4f
- DEUTZ 100 kW EU Stage V
  136 hp EPA Tier 4f
- DEUTZ 90 kW EU Stage 3
  122 hp EPA Tier 3

Approved chassis for the CITYJET sweeper series in Europe

Class	Chassis type	WB [mm]	Comment
6m³	Renault D16 RSW	3300	Same as Volvo
6m³	IVECO ML160E25 RSW	3350	
6m³	IVECO ML160E21K RSW CNG	3465	
6m³	DAF LF 230FA RSW	3260	Frame width 790mm → NOT as HS- Version
6m³	MB Atego 1318 LKO RSW	3560	Shortening to 3360 possible
6m³	SCANIA P220 B4x2HZ RSW	3600	NOT as HS Version
6m³	MAN TGM 15.250	3575	
5m³	Renault D12 RSW	3350	Same as Volvo
5m³	DAF LF 230FA 12t RSW	3150	

Auxiliary engines on a CITYJET sweeper

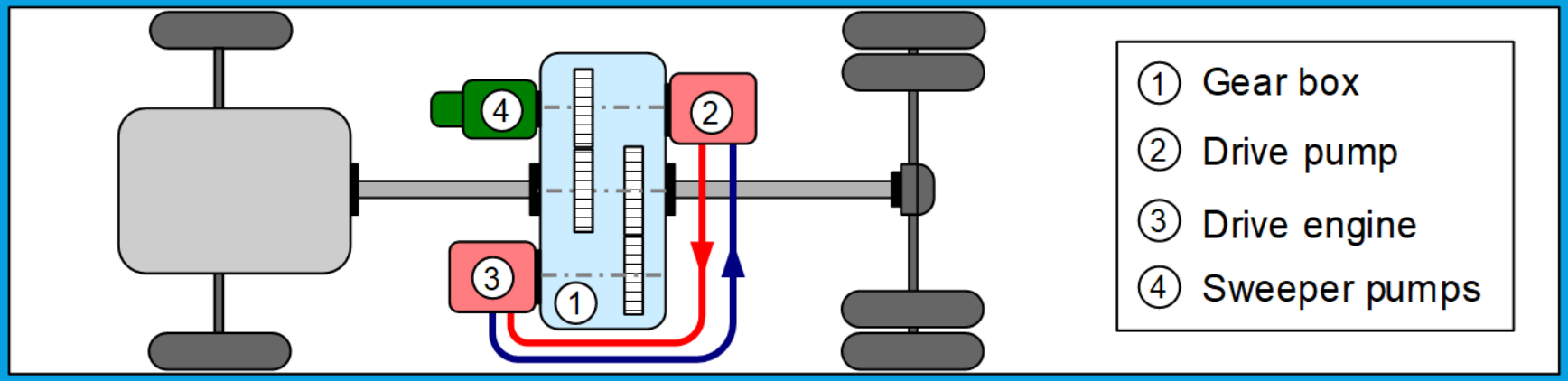
Standard engine:
DEUTZ 3.6 litres 55 kW (75 hp) turbo charged common rail diesel engine
Diesel particle filter with catalytic converter but without SCR system
According to EU exhaust norm Stage V (US EPA Tier 4 final)

Optional engine for CITYJET 5 and CITYJET 6:
DEUTZ 3.6 litres 100 kW (136 hp) turbo charged common rail diesel engine
Diesel particle filter with SCR system (Ad blue tank on the rhs of the engine cowl)
According to EU exhaust norm Stage V (US EPA Tier 4 final)
This engine is automatically coming with high power hydraulic system and high power suction fan

Optional engine for CITYJET 5 and 6 outside EU / UK / USA
DEUTZ 3.6 litres 90 kW (122 hp) turbo charged common rail diesel engine
According to EU Stage III / EPA Tier 3

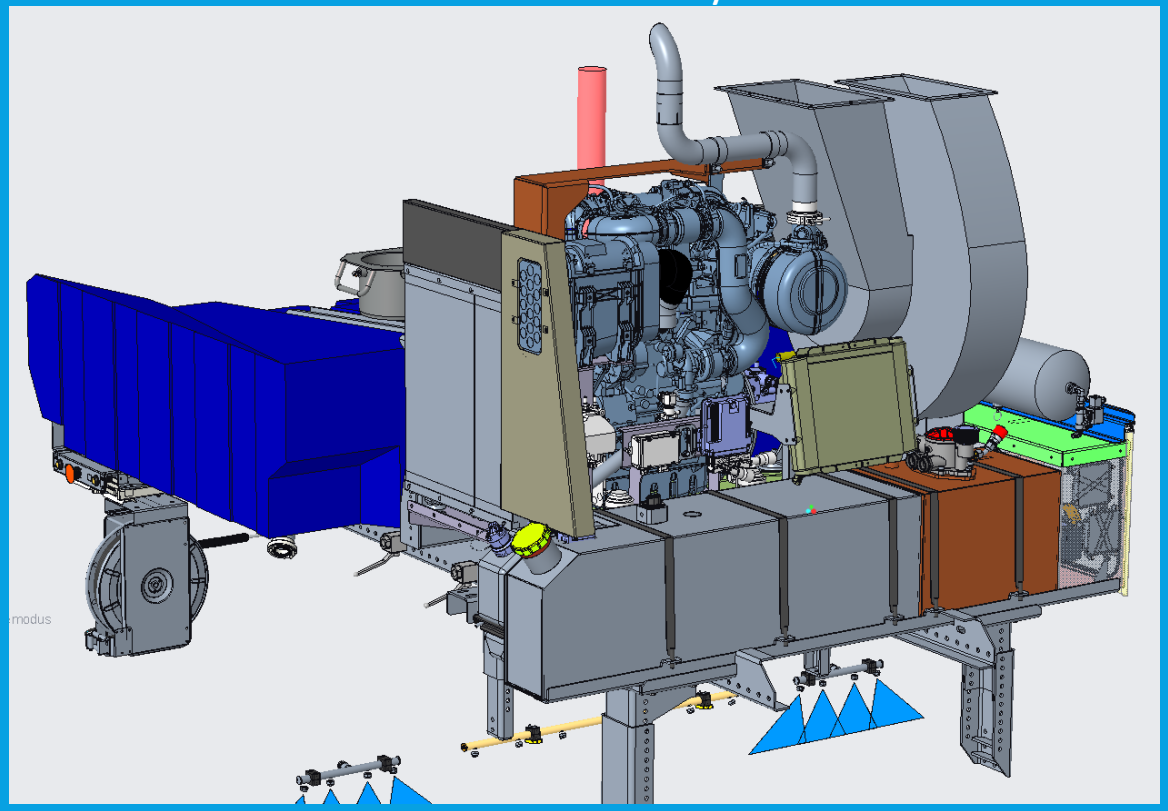
FAUN HS 1010 optional hydrostatic drive system

The HS 1010 is the known and well tested FAUN hydrostatic drive
It is optionally available for the CITYJET 5 and CITYJET 6 sweepers
The hydrostatic drive system can only be used with approved chassis types
Cruise control is available as standard.
Max driving speed in transport mode up to 40 km/h - 25 mph
Max driving speed in sweeping mode up to 20 km/h - 12.5 mph
Max climbing capability approx. 20% at full weight (see gvw of the chassis)
For heavy duty operations the optional high power hydraulic system can be used



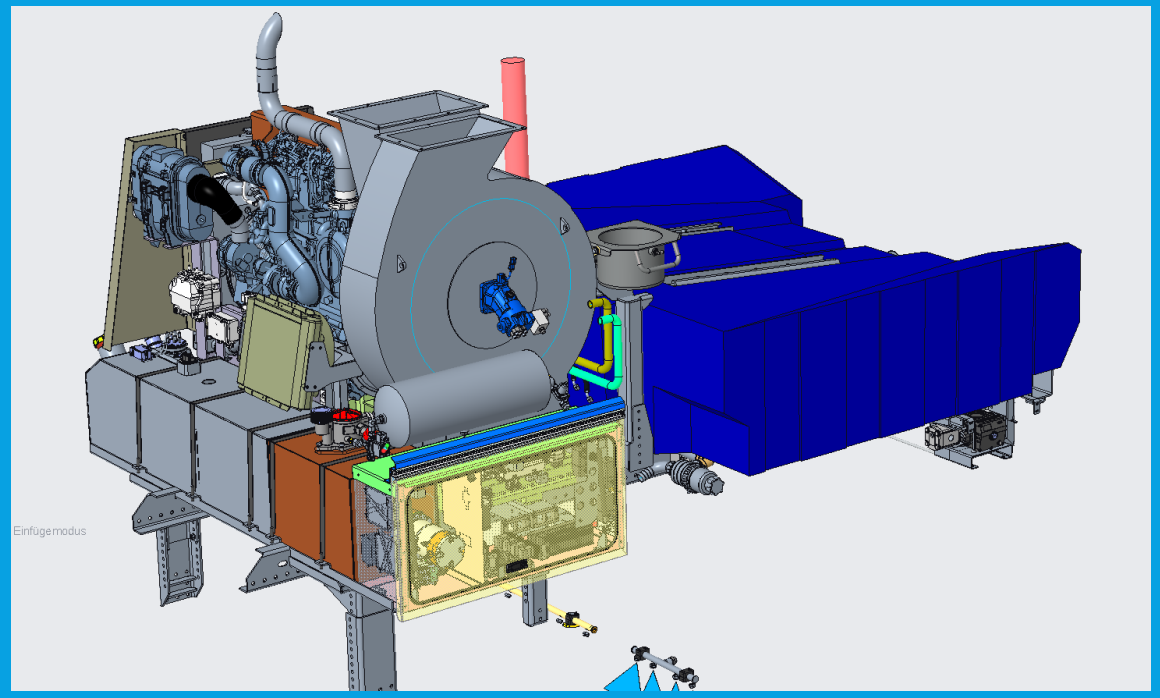
Auxiliary fuel tank

The CITYJET will always be delivered with an 180 l (50 gal) fuel tank. On the sweepers with an auxiliary engine drive, this fuel tank will supply the auxiliary engine with fuel. For the sweepers without the auxiliary engine, the fuel tank can be used as an additional tank or as a chassis main tank and will be equipped with a bayonet connection for the tank sensor, so the sweeper tank sender can be easily replaced by the tank sender compatible with the used chassis – will not be done in the factory and if wanted has to be done by local company!



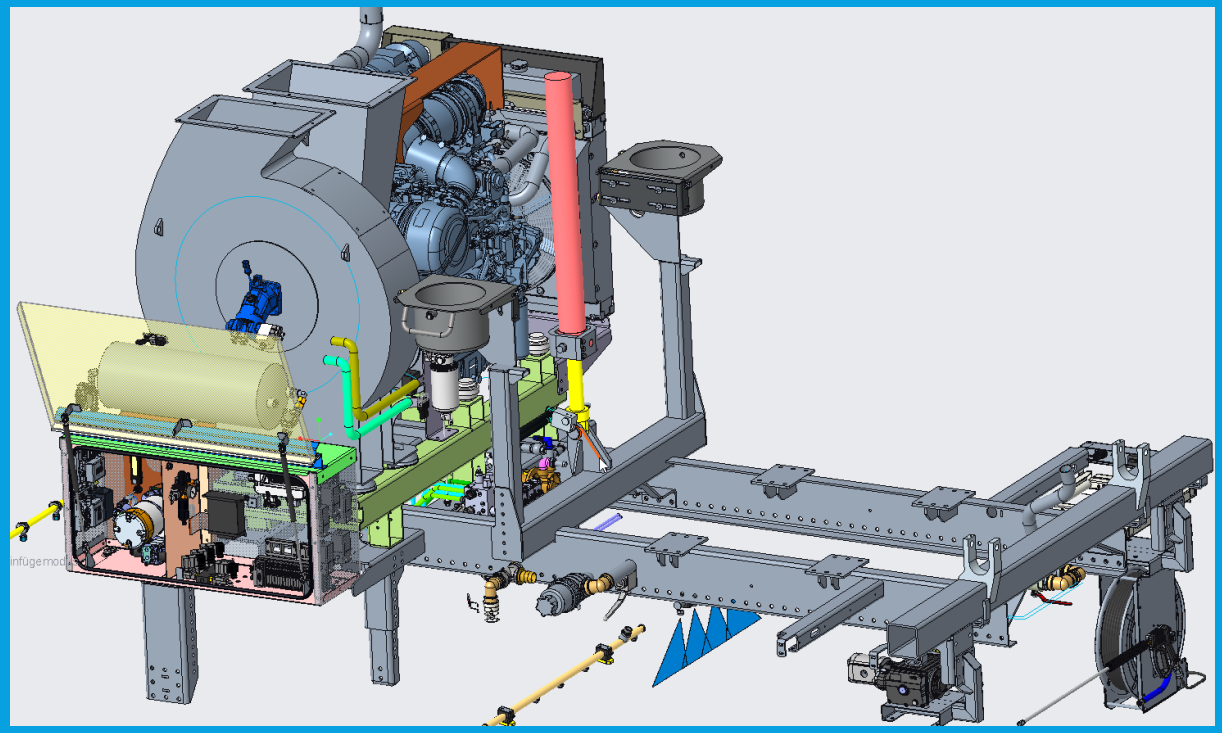
Suction system

The hydraulically in the closed circuit loop driven suction fan is vertically mounted on the left hand side of the engine cowl. The fan has an airflow of max. 16.000 m³/h (9,500 cfm) at max. vacuum of approx. 900 mm (35.5 inch) water column. The sweeper has a pure suction operating system (NO AIR RECIRCULATION), with the exhaust of the air on the roof. Using an air stilling chamber and a wide area exhaust incl. a reasonable amount of water we have managed to control the dust emission probably even a bit better than our competition ☺.
If using the 100 kW (136 hp) aux. engine, the suction fan will develop around 19.000 m³/h (11,200 cfm) of air flow and approx. 1000 mm (43 inch) of water column of vacuum.



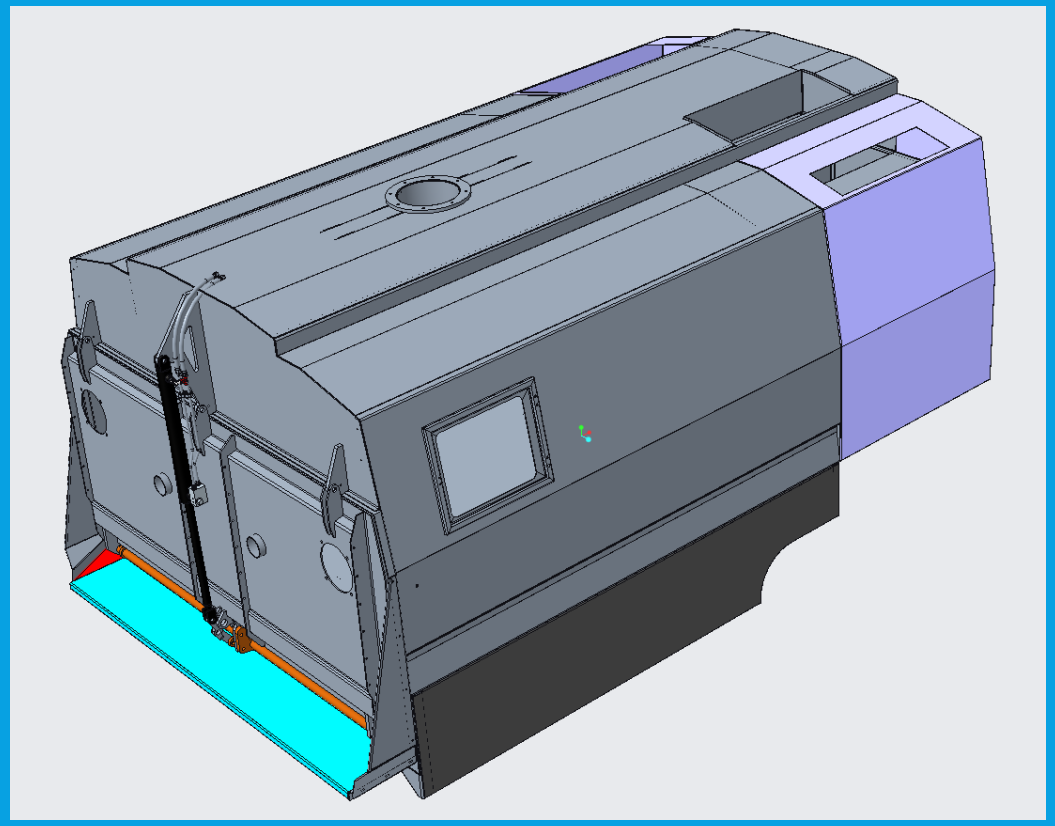
Subframe

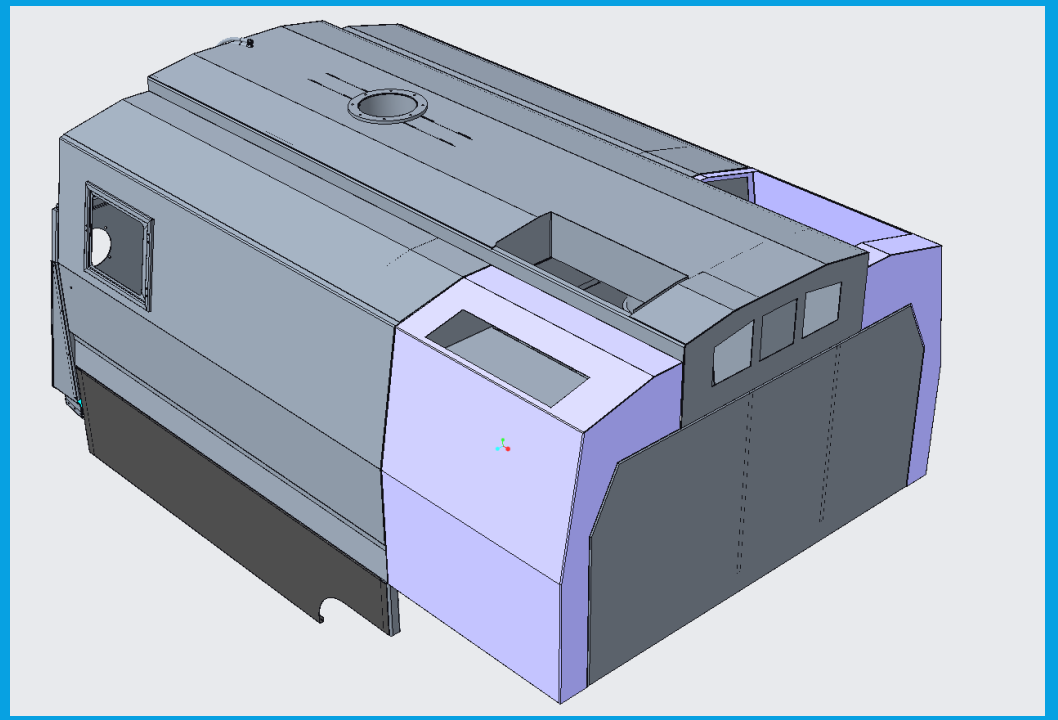
The subframe is the central connection point between the chassis and body. The ladder frame is designed as a welded construction and has a continuous hole pattern for connection to the chassis using bolted plates. To simplify assembly, the kit can be ordered in two frame widths 800 or 850 mm (31.5 or 33.5 inch).
A special frame geometry can be optionally ordered at extra cost (e.g. for SCANIA models).
The sweep gears are also attached to this subframe. With body assembly, no sweeper components have to be mounted directly on the chassis.



Debris hopper

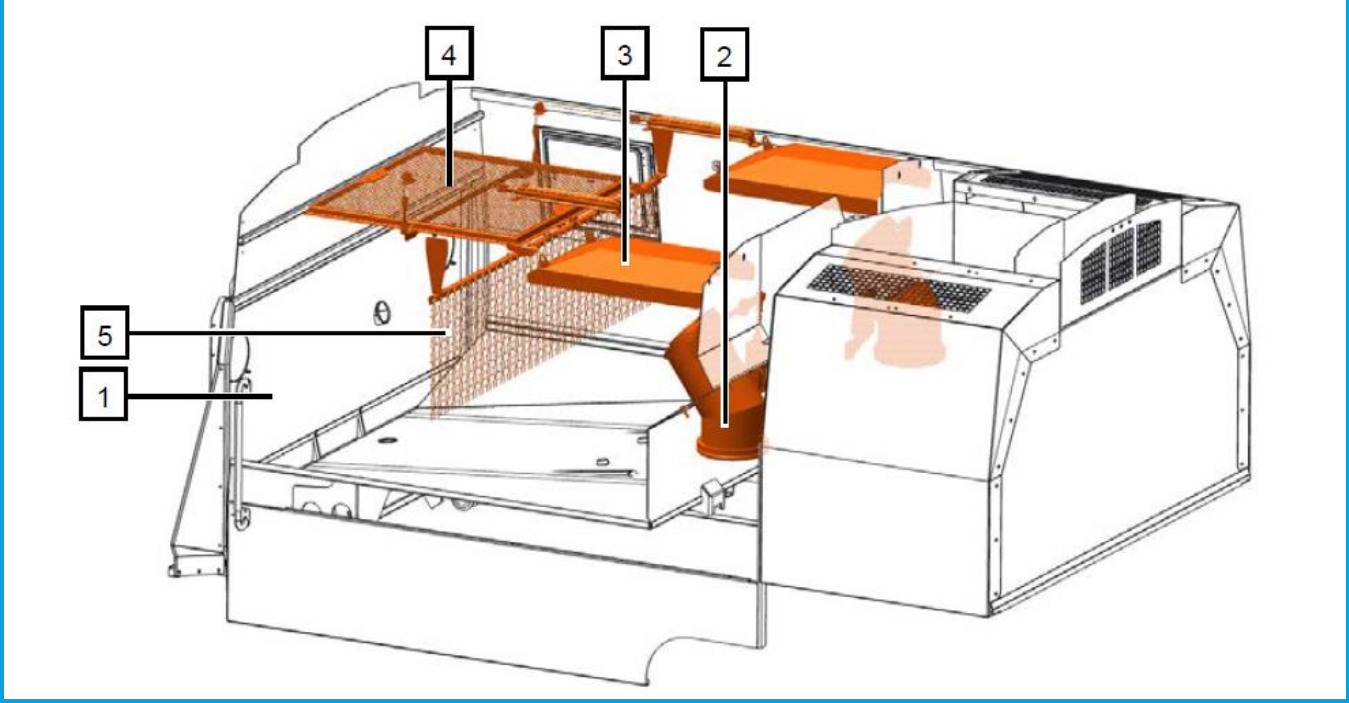
The debris hopper (side walls, front wall, frame, roof, intermediate floor and rear door) **are made of stainless steel 1.4003 grade (NIROSTA)**. The parts that do not come into direct contact with the debris (engine cowl cladding, external attachments) are made of mild steel (1.0114 or equivalent). The hopper is a self-supporting construction, with particular attention being paid to making the interior as corner-free as possible. This enables easier emptying because the dirt can slide out of the container better.





Debris hopper

Inside the hopper there is a generously dimensioned leaf screen that can be lowered pneumatically for easier cleaning of the grid and suction duct. This can optionally be equipped with a pneumatic roller vibrator (shaker). The vibrator is switched on manually on the outside right hand side next to the storage box. The leaf grid can be lowered and raised again using the control button next to the storage box mounted on the right-hand side. When closing the discharge flap, the leaf grid will be automatically raised.



1. Tailgate
2. Inlet tube
3. Baffle plates
4. Leaf screen
5. Optional chain curtain

Debris hopper

The intake tubes for the suction hoses are each equipped with a pneumatic shut-off flaps that are automatically controlled and can optionally be ordered in rubber coated version. Depending on which side of the machine is in use, the flaps are opened or closed accordingly. If both sweeping devices are brought into the transport position, both shut-off flaps are closed. This prevents the waste water from running out of the hopper back onto the road when you brake. The baffle plates over the intake tubes are coated with 6 mm thick rubber and are adjustable. An optional chain curtain can be provided between the baffle plates and the leaf grid for better separation of particularly light material.

In order to check the load level of the machine or to be able to throw larger objects into the hopper, the sweeper is equipped with a generously dimensioned **side doors on both sides**. A pull-out ladder and a safety handle are attached to the right-hand side of the vehicle to get to the side doors. **If necessary (e.g. to be able to operate the machine in countries with left-hand traffic), these can be moved by the installer to the left-hand side of the vehicle. The required mounting points are available on both sides.**

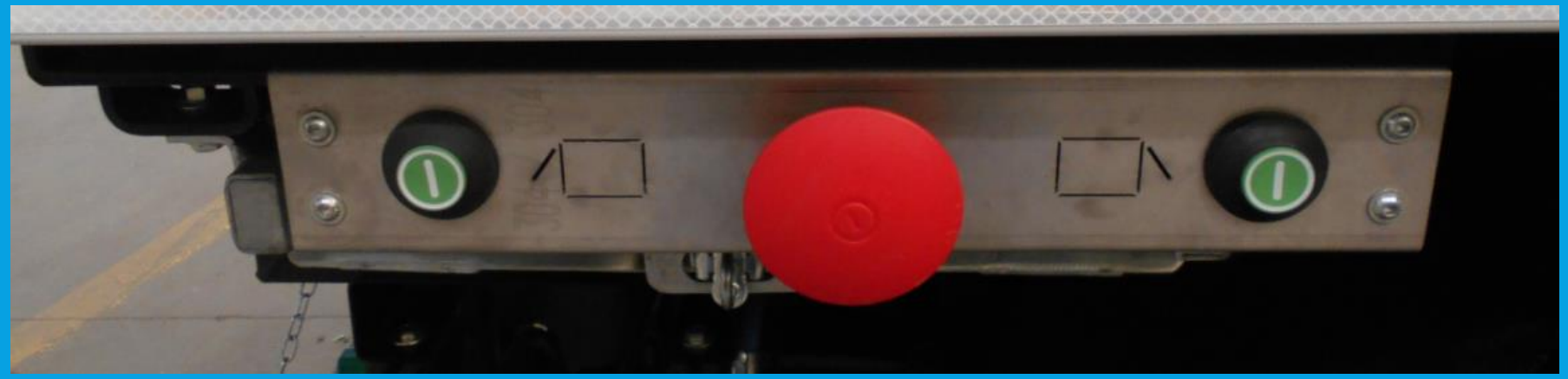
Debris hopper

The hydraulic cylinders for tipping the body and moving the discharge flap are equipped with pipe rupture safety devices. In addition, the container has an **automatic body prop** which secures the tipped container in a finely graduated detent. As a further safety measure, the movements of the container **are indicated by a signal tone (white noise)**. The status **"Container lowered"** and **"Flap closed"** are monitored by sensors. If the container is not fully lowered or the flap is not fully locked, a warning appears on the control display. If the parking brake of the chassis is released, an additional acoustic warning is given.

For good emptying, the tipping angle of the debris hopper **is approx. 60°.** Furthermore, the sweeper has a 300mm wide chute, **which is laterally extended up about 800mm (31.5”) height**. For draining dirty water, the discharge flap is equipped with a foldable sieve and a waste water outlet with a 2" hose. The drain connection can optionally be supplied in a version with 3" and ball valve.

Debris hopper

The discharge door of the debris hopper is equipped with 3 maintenance-free hinges and opens hydraulically with an opening angle **of approx. 95°.** In order to ensure the water tightness of the debris hopper, the opening of the discharge door is provided with a circumferential seal that can be replaced very easily and without tools if required. When closed, the discharge door is automatically pressed against the seal with 3 steel hooks located in the lower area of the door. **The tailgate and the hopper tipping device are controlled via a radio remote control or via the control panel in the driver's cab**. For safety reasons the discharge door can only be closed from outside by using two buttons that can be operated only with two hands.



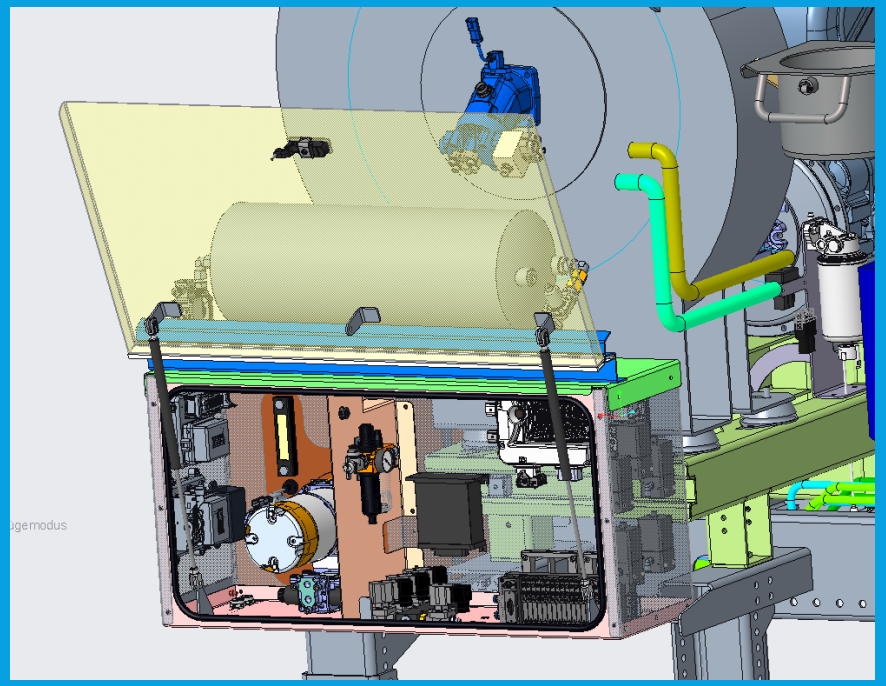
Auxiliary engine cowl

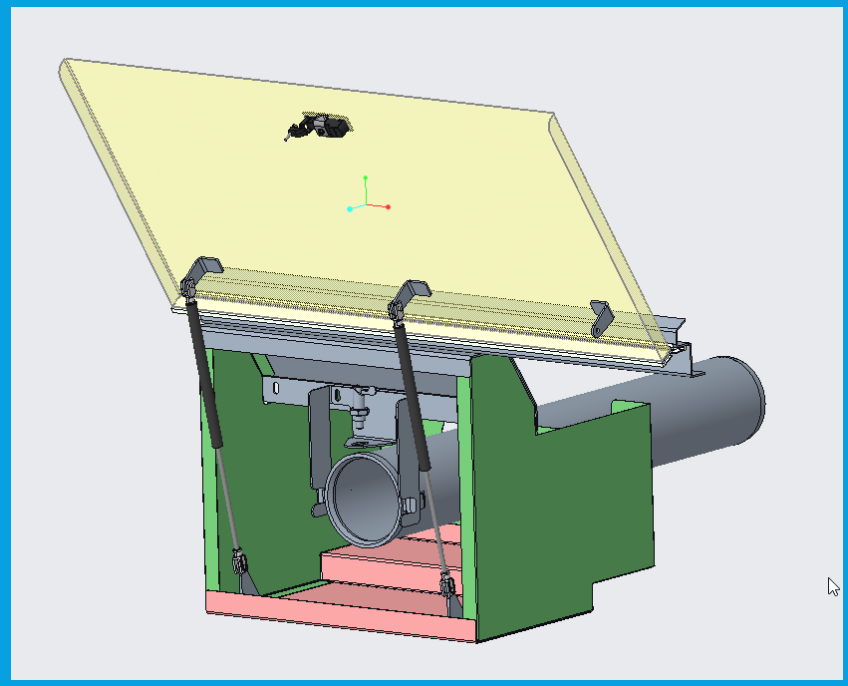
The area in front of the actual debris hopper is called the engine cowl. This space is encased by a cladding that is firmly connected to the actual debris hopper body. Thus, when the body is tilted, there is optimal accessibility for maintenance. The main components of the engine cowl are the auxiliary engine, suction fan and the hydraulic and pneumatic assemblies.

For maintenance and repair activities, access to the engine cowl is guaranteed via stairs that comply with European safety standards and a large standing platform. The engine cowl comes standard with a plug for LED lighting, which can either be purchased as part of the **optional lighting package**, or fitted by the assembler himself.

Auxiliary engine cowl

On both sides of the engine cowl, there are two storage boxes with access doors that can be swiveled upwards. The storage boxes are also accessible when the sweeper body is lowered. The complete central control system of the sweeper including pneumatic, water and hydraulic control systems is housed in the storage box on the left hand side. The accessories and the suction tube for the wander hose can be stored in the storage box on the right hand side. Both storage boxes have a locking mechanism equipped with a lock cylinder.





Wander hoses

The CITYJET is always equipped with a wander hose. The customer can choose **free of charge between the wander hose on the hopper roof or on the rear door**. The diameter of the suction hose and the suction tube is 150 mm (6 inch) on the roof or 200 mm (8 inch) on the rear. The pneum. controlled roof boom is stored on the ball bearings and can be swiveled manually by approx. 300° on the roof mounted version. In the parking position (right / or left hand side in front of the body), the handle is connected to a parking coupling. In use, the handle is removed from the holder and connected to the suction tube extension. The suction tube extension, when not in use, can be stored in the right hand side storage box.
The pneum. controlled **rear boom** can be swiveled manually by approx. 180°.

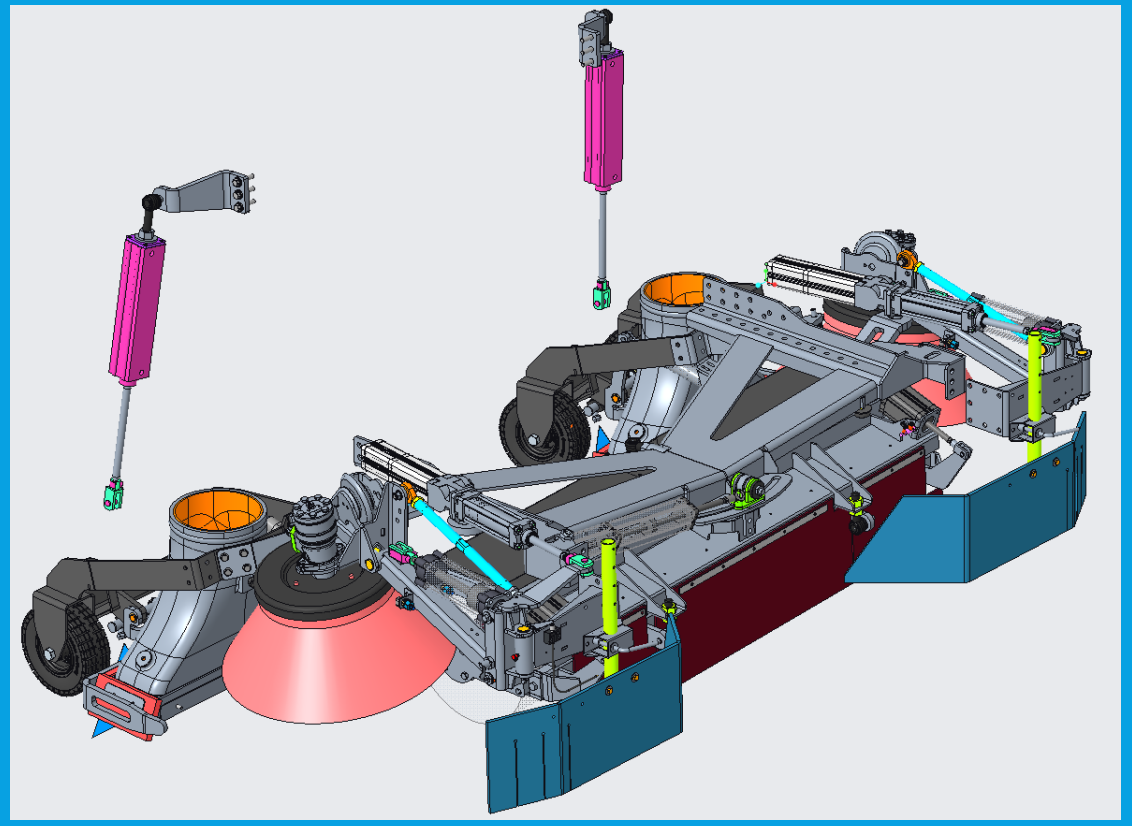
Optionally, a 200 mm (8 inch) roof mounted wander hose is available instead of the 150 mm (6 inch) one.

Available options for the Hopper

- Chain curtain in the hopper
- Pneumatic shaker for filter grid
- brackets and electrical installation on the rear door - for mounting of the LED signs and panels
- Drainage port 3“ with ball valve
- Rubberized intake tubes
- 8 inch diameter roof mounted wander hose instead of the 6 inch one
- 8 inch hopper door mounted wander hose instead or additionally to roof mounted one
- Access door on the roof of the body for easier cleaning of the suction duct

CITYJET sweep gear

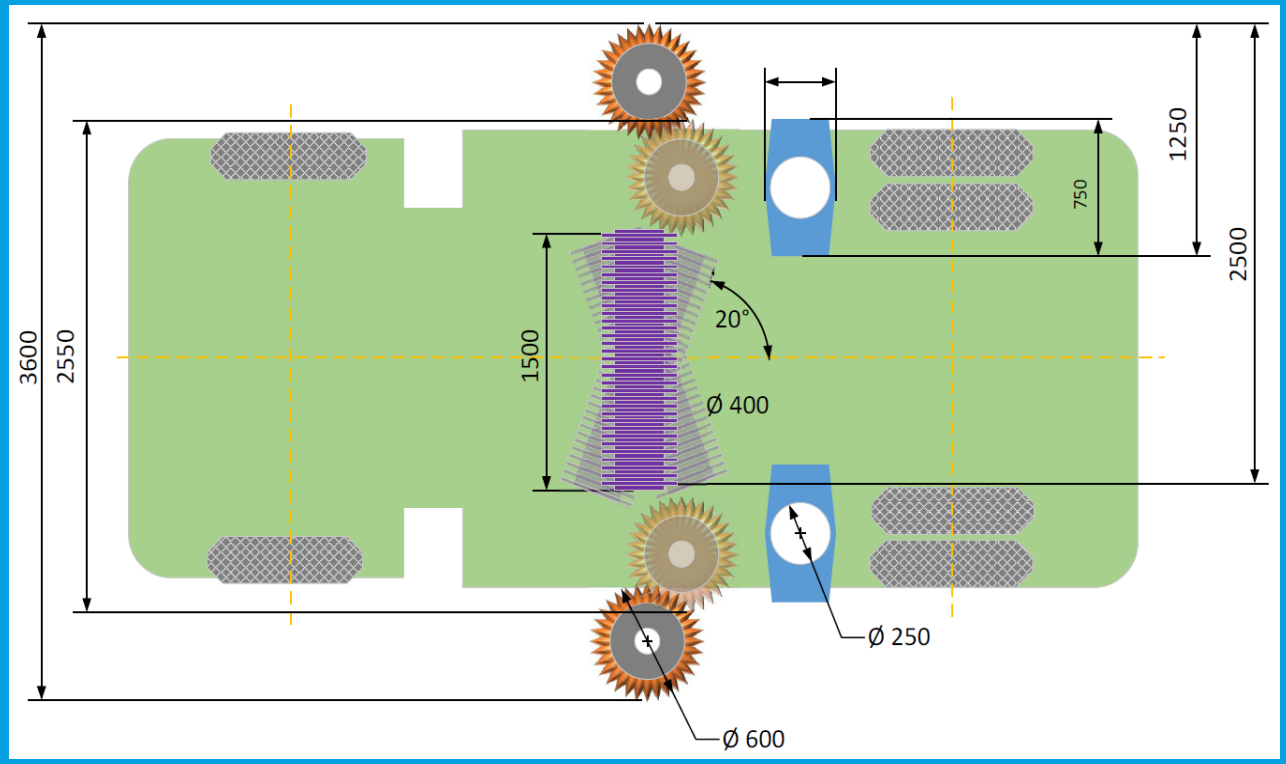
The CITYJET is generally delivered with sweep gears on both sides. Optionally, for a reduced price, the machine is also available with the sweep gear on only one side.
The sweep gears of a dual machine consist of one side broom on each side of the vehicle and an automatically swiveling center broom. In the case of a one-sided sweeper, the gutter broom is only on either the right or left-hand side of the vehicle. The gutter brooms can be switched on and off independently of the center broom. With a standard machine, both sweep gears can be used at the same time (simultaneous sweeping). In this case the pivoting direction of the center broom can be freely selected. During operation, it is possible to turn on or off the sweep gear on one side any time.



CITYJET sweep gear

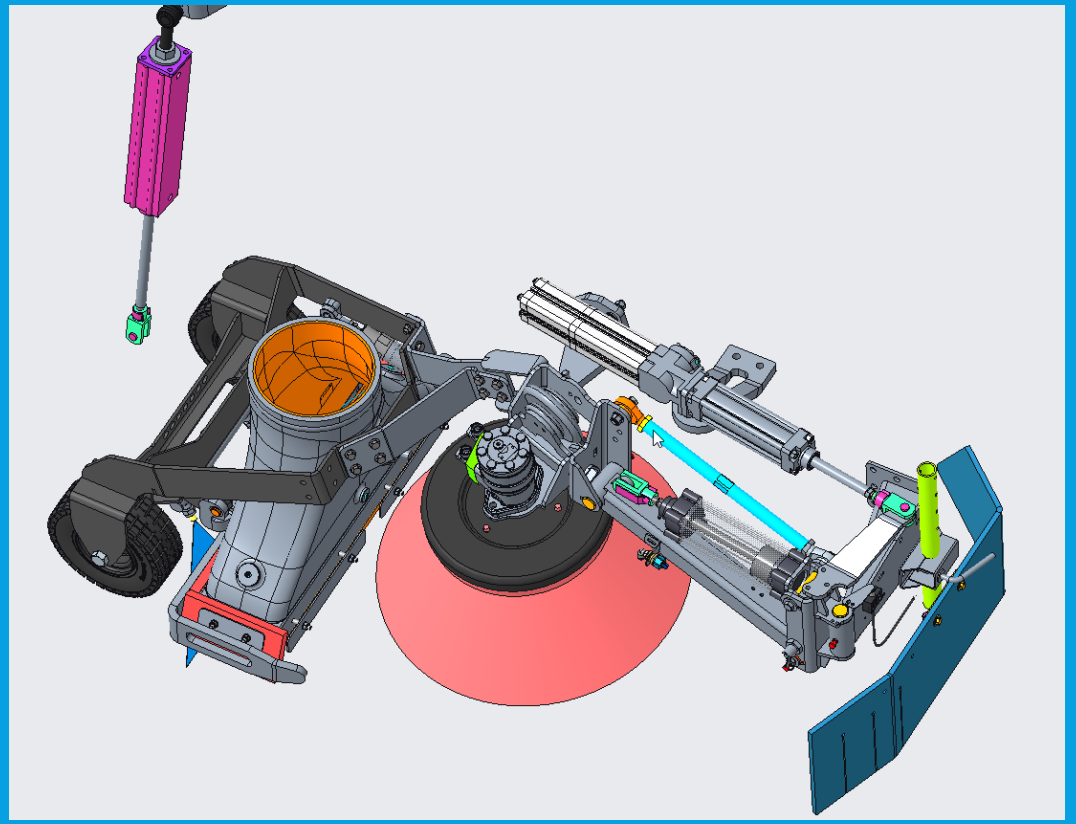
Following working widths can be reached:

-	Transport position	2.550 mm / 100 inch
-	Gutter broom and suction nozzle	1.250 mm / 49 inch
-	Gutter broom centre broom and suction nozzle	2.500 mm / 98,5 inch
-	Simultaneous sweeping mode	3.600 mm / 142 inch



CITYJET side brush

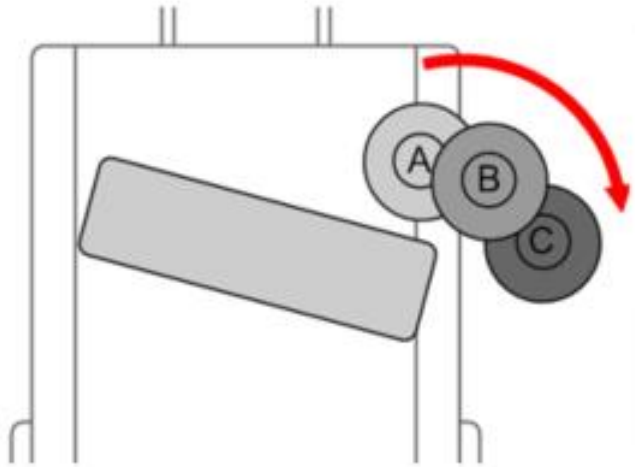
The hydraulically driven disc brush is trailed suspended, when on it will swivel out and lower itself pneumatically. Due to the trailed suspension and pneumatic motion control, the gutter broom has automatic protection against side impact. In addition, it is possible to regulate the force with which the gutter broom is swung out.
Corresponding controls are located in the right and left storage box of the body. The standard diameter of the gutter broom is 600 mm (24 inch). If required, a 700 mm (28 inch) gutter broom can be mounted instead by the assembler, but this increases the overall width of the sweeper, which can mean that the external width of the sweeper exceeds the legally prescribed external width of 2,550 mm (100 inch).



CITYJET side brush

When switched on, the gutter broom is automatically lowered and brought into the working position with the minimum possible sweeping width. If required, the SideControl in the driver's cab can be used to switch between the inner and outer working position of the gutter broom. Infinitely variable positioning of the gutter broom is available as an option for an extra charge.

The speed of the gutter brooms can be continuously adjusted between 0 and 140 rpm as standard using the SideControl in the driver's cab.



Disc brush positions

The disc brushes have three positions:

- **[A]** Transport position
- **[B]** 1. Sweeping stage
- **[C]** 2. Sweeping stage (cornering)

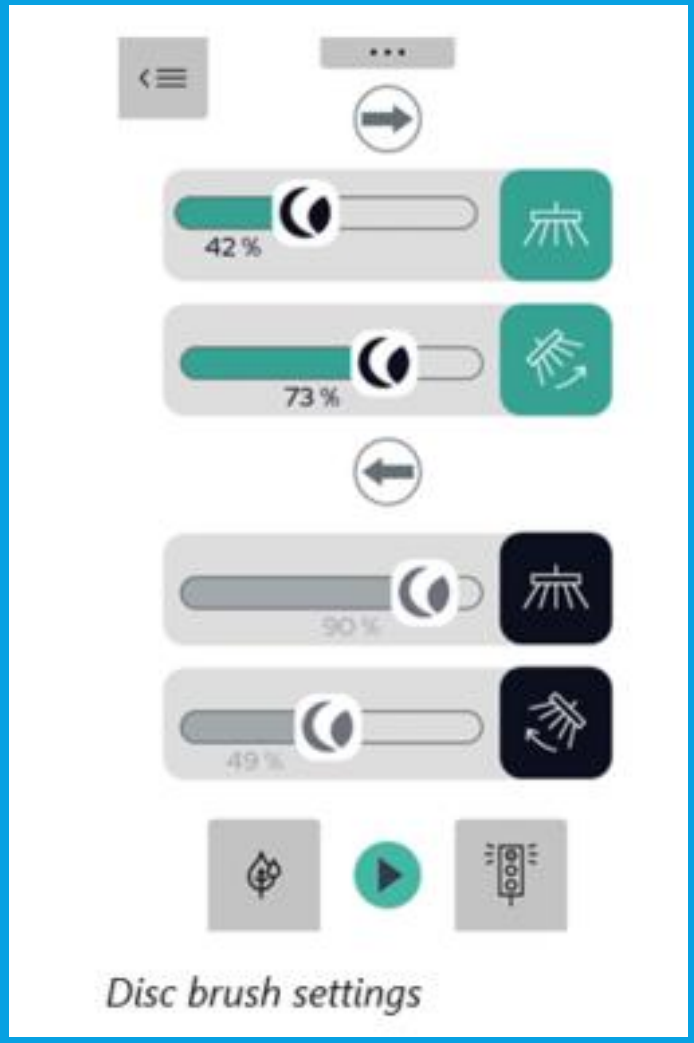
Optionally, the disc brushes can be telescoped continuously between position [B] and [C].

CITYJET side brush

The down pressure as well as the lateral inclination of the gutter brooms can be steplessly adjusted as standard via the pressure air regulators positioned in the storage box on the side**. Optionally**, against an extra charge, both the down pressure control and the lateral inclination control can be infinitely adjusted electronically via the SideControl in the cab.

The right and left hand side gutter brooms can be controlled independently of each other also in simultaneous sweeping mode, both in terms of position and in terms of speed, down pressure and inclination.

The gutter brooms can be mechanically locked in the transport position (transport lock). An automatic transport lock is optionally available at an additional cost.



Disc brush settings

CITYJET Suction nozzle with trolley

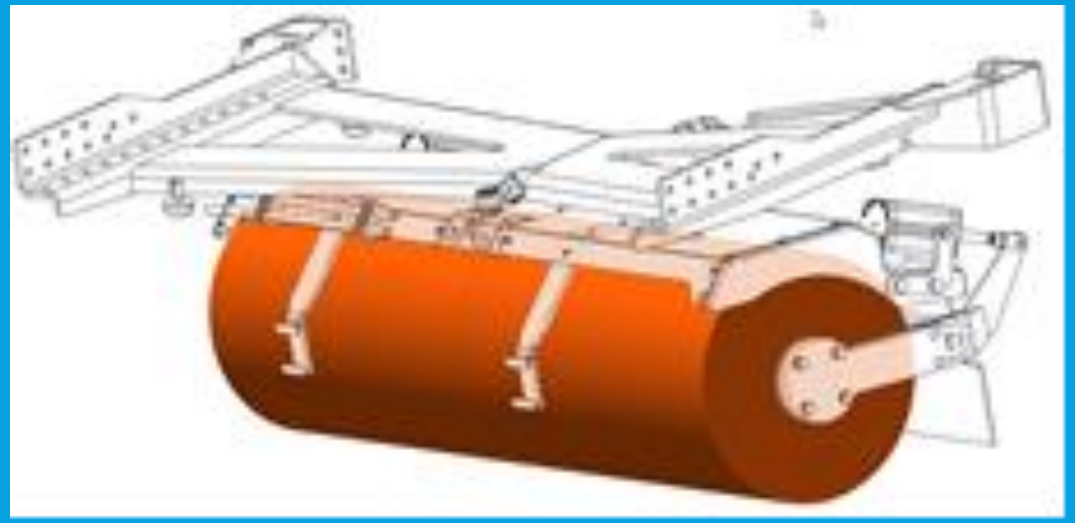
The 750 mm (29.5 inch) wide suction nozzles of the CITYJET are made of a light metal casting and lined with an easily replaceable wear protection. The suction nozzles are guided on a robust trailing carriage which stands on two stable, 250 x 80 mm (10 x 3.2 inch) solid rubber wheels with ball bearings. The control of the suction nozzles (raise to the transport position or lower to the working position) is controlled via SideControl.

In order to pick up bulky debris from the surface the suction nozzles can be tilted from the driver's cab using the SideControl. The distance from the suction nozzle to the floor can be set precisely using easily adjustable rubber plates. To minimize damage in case of side impact, a solid steel protection plate is attached to the outer side of the suction nozzle.

The suction nozzle is connected to a 250 mm (10 inch) diameter suction hose via a quick coupling. In the event of a blockage, the connection can be released quickly and without tools and the blockage cleared.

CITYJET Centre broom

The hydraulically driven roller brush, 1,500 mm (59 inch) long and 400 mm (15.75 inch) in diameter, is trailed suspended and fitted with a lateral pendulum compensation. This enables the centre broom to optimally adapt to the road surface.
Raised into the transport position, the centre broom is automatically brought into the middle position (90° transverse to the direction of travel) and locked. When switched on, the roller automatically pivots at an angle of approx. 20° to the switched sweep gear and lowers to the road surface.
The relief or down pressure of the centre broom can be adjusted from the outside via a pneumatic controller mounted in the right-hand storage box. The speed of the centre broom can be infinitely adjusted between 0 and 140 rpm via SideControl in the driver's cab.
A down pressure / relief regulation via SideControl in the driver's cab is available as an option against an extra charge.



Available options for the Sweep gear

- Gutter broom side inclination via SideControl in the cab
- Infinitely variable side positioning of the gutter brooms via SideControl in the cab
- Down pressure / relief of the gutter brooms and centre broom via SideControl in the cab
- Auto lock of the sweep gear (suction nozzle and gutter brooms)

CITYJET Hydraulic system

A variable displacement pump for the suction fan drive and a gear pump for the sweep gear and water pump drive are driven directly via the flywheel of the auxiliary engine. If the sweeper is equipped with an optional high-pressure water system, the gear pump is designed as a twin pump.

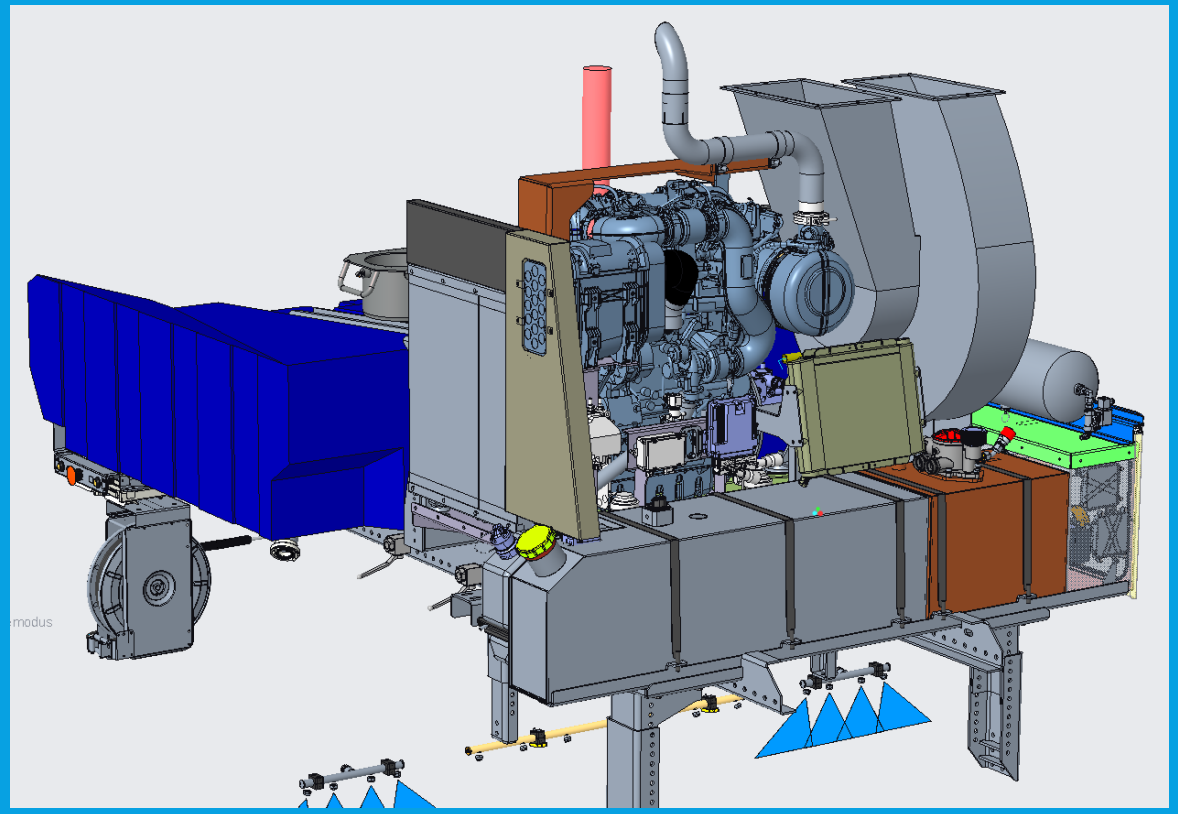
The body lifting system as well as the rear door control are supplied by an electro-hydraulic system. This system can be operated independently, even if the auxiliary engine is not running. The Engine – pump assembly and the solenoid valve blocks are accessible even when the body is not lifted through the left hand side service hatch.

CITYJET Hydraulic system

The hydraulic fluid tank contents 80 l (22 US gal) of hydraulic fluid. The hydraulic oil level is visible from the ground level. Additionally the tank is equipped with a low level sensor and temperature sensor. The hydraulic oil is filtered through a combined suction and return filtering unit in the oil tank. A drain valve and a filling connection are provided for the exchange of the hydraulic oil.

The hydraulic oil is cooled by a heat exchanger with an electric fan. This draws in ambient air from outside through the heat exchanger. The exhaust air is discharged via the engine cowl. The heat exchanger has a cooling capacity of 10 kW and is flowed through by the oil fed out of the fan circuit.

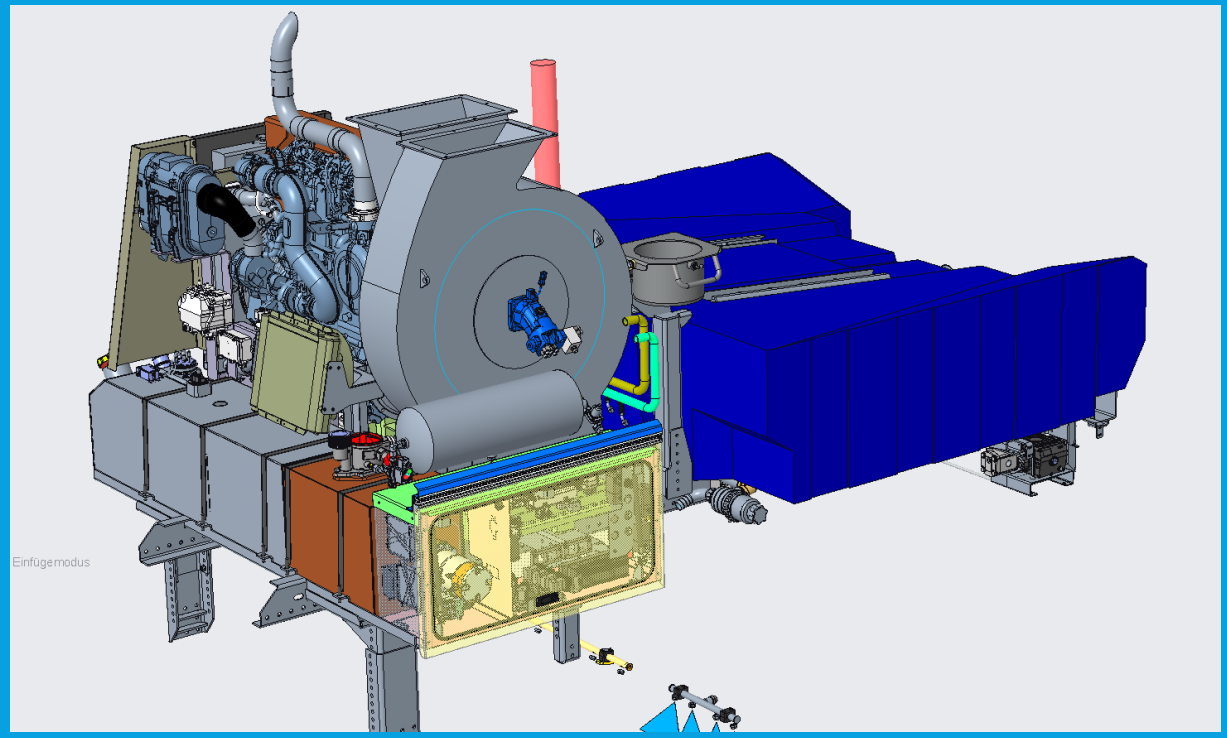
The standard hydraulic tanks and hydraulic filters are also suitable for the use on the sweepers with hydrostatic drive system. In this case, an additional or extended heat exchanger system will be provided for the cooling of the chassis drive system.



CITYJET water system

The sweeper is equipped with a polyethylene plastic made fully recyclable water tank placed underneath the debris hopper. The capacity of the water tank is approx. 1,500 l (396 gal) for a 5.5 m^3 (7.2 yd^3) - hopper size and approx. 1,900 l (502 gal) for a 6.5 m^3 (8.5 yd^3)- hopper size sweeper.

A “Storz C” filling connection with shut-off device and free-flow section is provided on the right-hand side for filling the water tank. If necessary, this can be moved to the left hand side by the installer. The filling coupling has a 1 1/4 “pipe thread and can be exchanged for other connector designs up to a size of 2 ½” by the installer.



CITYJET water system

The water is drawn off through a water filter, used for a water supply of the standard low pressure and optional high-pressure water pump. In the suction line there is an additional ball valve that can be used to completely drain the water from the water tank. A sensor for the monitoring of the water level is mounted into the water tank.

Optionally, the sweeper can be equipped with the wastewater recirculation system. If ordering this option, an additional easy to clean filter element will be mounted onto the rear door of the sweeper. This filter can be used to recover wastewater from the debris hopper and feed it to the suction nozzles. The wastewater recirculation can be enabled manually via a ball valve for each suction nozzle. Switching on the suction nozzle will activate the wastewater recirculation system automatically if enabled.

CITYJET water system

The low pressure water system consists of a hydraulically driven centrifugal pump with 40 l / min at 4 bar. The pump supplies the water system via a distributor with solenoid valves for the following circuits:

Nr.	Circuit	Function	
1	Water bar at front	1 bar with 7 nozzles to be installed at the front	Single sided sweeper
2	RHS channel brush	2 nozzles on the right hand side channel brush	
3	RHS suction	3 nozzles in the suction nozzle and 1 nozzle at the suction inlet	
4	LHS channel brush	2 nozzles on the left hand side channel brush	additionally on standard (dual) sweeper
5	LHS suction	3 nozzles in the suction nozzle and 1 nozzle at the suction inlet	
6	RHS suction	Additional 2 nozzles in the right hand side suction nozzle and 1 nozzle in the suction inlet	Optional PM 10 package
7	LHS suction	Additional 2 nozzles in the left hand side suction nozzle and 1 nozzle in the suction inlet	

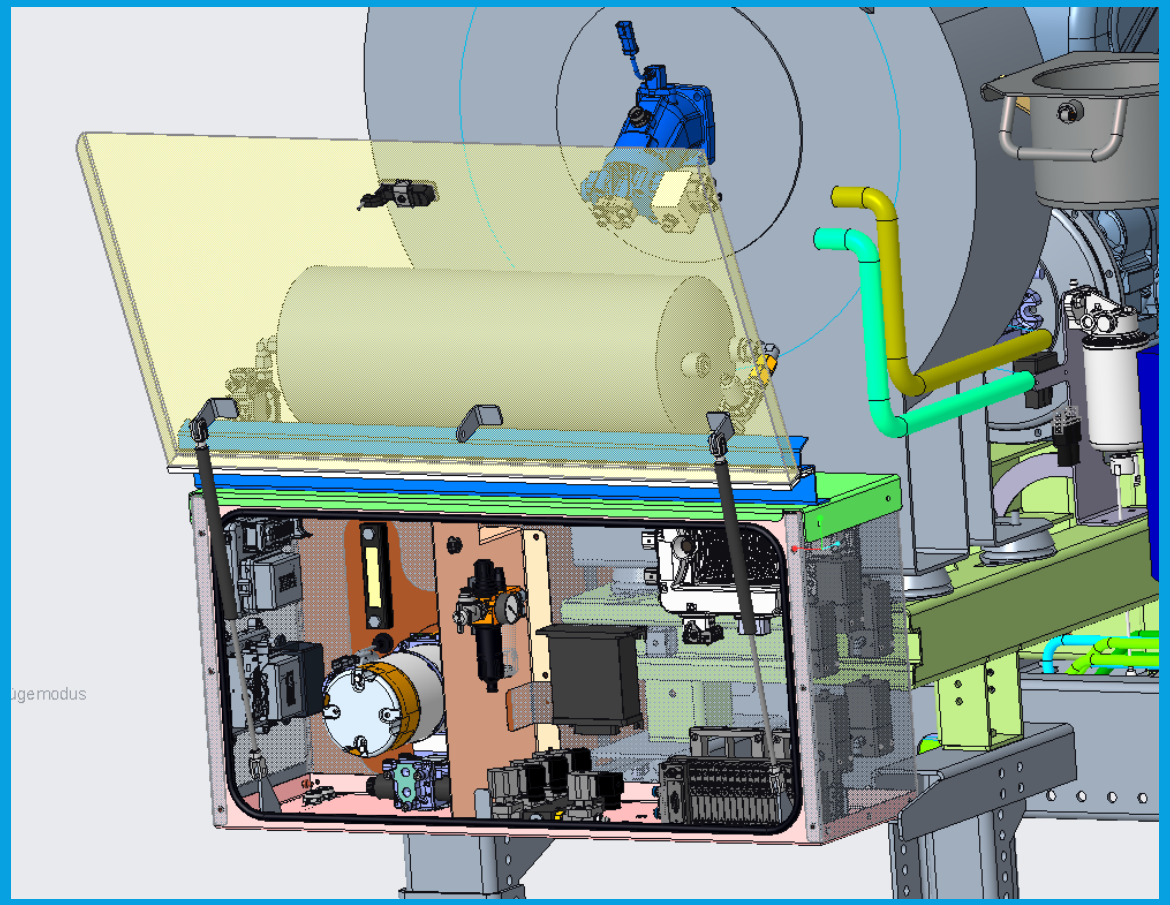
CITYJET water system

An additional connection for a washing hose is placed on the tail of the sweeper.

The wander hose assemblies are supplied from the low pressure water system as well.

Additionally, a water purge system for complete draining of the low pressure water system in winter period is installed on the sweeper.

The purge system for the water pump and the solenoid valves of the water system has to be engaged from the main control panel in the cab and is acting automatically..



CITYJET High pressure water package 1 (optional)

Optionally, the sweeper can be equipped with a high-pressure water system. The hydraulically driven 15 lpm/100 bar (4 gpm / 1450 psi) high-pressure pump is placed on the rear left hand side of the body behind the rear axle. Following items are included into this option package:

- Automatic hose reel with spray lance and 15m HP hose placed on the right hand side underneath the body

This system can’t be used while sweep gear is in operation.

CITYJET High pressure water package 2 (optional)

Optionally, the sweeper can be equipped with a high-pressure water system. The hydraulically driven 30 lpm / 100 bar (8 gpm / 1450 psi) high-pressure pump is placed on the rear left hand side of the body behind the rear axle. Following items are included into this option package:

- Automatic hose reel with spray lance and 15m HP hose placed on the right hand side underneath the body
- Nozzle bar with 7 HP nozzles behind the wide sweep brush of the sweeper
- Nozzle bar with 4 HP nozzles behind each suction nozzle
- A free connection for an additional HP bar (for example in the front)
- Ball valves outside of the sweeper (rhs) to switch on and off the water flow to the HP nozzle bars.

CITYJET High pressure water system (optional)

The HP nozzle bars are equipped with the ball valve, so that each bar can be switched on or off. The ball valves are placed on the right hand side between the suction hose and the engine cowl.
The high pressure pump is controlled over an switch on the control panel in the cab of the vehicle.
The high pressure water system has a possibility to purge the water out of the system in order to avoid freezing if the environmental temperatures are below 32°F
When working with the high-pressure washing lance, it is possible to switch the HP pump on and off via radio remote control unit.

CITYJET use of the hopper as water tank (optional)

For sweepers equipped with the high pressure water system, there is a possibility to use the waste hopper as an additional water tank. In order to do so, the operator has to open a ball valve in a connection between the waste hopper and fresh water tank.
Additionally, a special filter element has to be mounted inside of the waste hopper (available as optional equipment).
When the connection between the fresh water tank and waste hopper is established, the operator will be able to fill the waste hopper with fresh water, by using the normal water filling connection for the fresh water tank.
While the waste hopper is used as an additional water tank, only the high pressure water system can be operated. The sweep gears or the wander hose cannot be used.

Available options for the Water system

- Additional water nozzles – PM 10 Package (2 in the suction nozzle and 1 in the intake tube)
- Waste water recirculation system
- Use of the waste hopper as water tank (street washing function)
- HP Package 1 (15 lpm/100 bar – 4 gpm/ 1450 psi)
- HP package 2 (30 lpm/100 bar – 8 gpm/1450 psi)

CITYJET Electric and control system

The electric system of the sweeper is power supplied by the chassis' 24VDC on board system (for US market 12 VDC). An electronic control system takes over the control and connection of the drives, actuators and sensors on the sweeper. The control system controls the operation of hydraulic, pneumatic and water valves as well as of the lights and other electric actuators. The control system also regulates and controls the work of the engines and hydrostatic drives.

All connections and communication between the control panels in the cab, chassis and the body are established via full CAN standard.

CITYJET Electric and control system

All operating and display instruments required for sweeping are easily accessible and ergonomically arranged for the driver. They consist of the main control unit in the middle of the driver's cab and an additional control panel on the driver's door (Side – Control). For the main operation while sweeping the operator is using the SideControl unit on the driver's door. Relevant information such as engine speeds, pressures, temperatures or warnings are displayed on a control panel with a 7" color display. The driver can use the controls in the driver's cab to adjust the settings for the sweeping process, such as the fan or disc brush speed, as required. Using the pre-set values, once the body has been switched on, the sweeper can be started from a standstill and vice versa with just one button.
Depending on the equipment of the machine, additional operating units can be used.

CITYJET Electric and control system

The main control unit for the sweeping process is the SideControl on the A-pillar of the cab. All sweep and suction gear is controlled here. The SideControl is equipped with a multi-touch screen and allows also counter-control (e.g. “swipe”).

No.	Description
1	**Emergency stop switch**
2	**Autostart/autostop button: Start/stop sweeping process** (M variant:) The auxiliary engine is started. The suction shaft of the activated sweeping side(s) is lowered and the locking flap(s) is/are opened. In addition, all pre-activated consumers and functions start if the autostart function is activated (→ see “4.4.1 Display” > “Settings menu” > “Driver menu”).
3	**Disc brush joystick** ↑ Lift completely / (option:) Increase relief pressure ← Running in (1st sweeping stage) / (option:) Continuous retraction → Extend (2nd sweeping stage) / (option:) Continuous extension ↓ Lower completely / (option:) Reduce pressure to relieve
4	**Multi-touch screen**
5	**Button: Switch joystick to left disc brush**
6	**Switch: suction shaft tilt, right** Pushbutton: Tilt is active as long as the switch is pressed Latching: Tilt is activated by pressing once and deactivated by pressing again (For the setting → see “4.4.1 Display” > “Sweep menu”)
7	**Switch: suction shaft tilt, left** → See above.
8	**Button:** not assigned

CITYJET Electric and control system

By using the “sweeping mode” buttons on the SideControl the control system can regulate the suction power, down pressure (if the option for the in cab regulation is purchased) and the brush speeds according to the drivers needs.
At the moment the operator can choose between:

- ECO
- CITY
- POWER

More possibilities will follow with the future software updates.

With this function, predefined machine settings for different operating conditions can be selected.

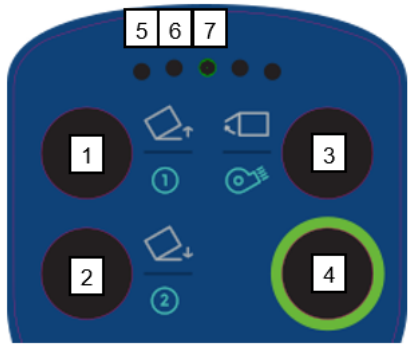
- Touch the sweep mode icon to display the available sweeping modes. Then select the desired sweeping mode.

Symbol	Sweeping mode	Use conditions	Fan power
	**ECO**	Economical (e.g. maintenance cleaning)	65 %
	**CITY**	Normal use (e.g. sand, gravel, thin leaves)	75 %
	**POWER**	Heavy use (e.g. grit)	100 %

CITYJET Electric and control system

As mentioned before, there is no cable remote control for the tipping operation on the CITYJET. The sweeper is always coming with the controls in the cab and with the radio remote control unit.
The operation of the radio control unit must first be enabled in the cab before you can operate from outside.

However, the remote control unit can do more than only lifting and lowering the body.



Remote control – buttons and LEDs

The buttons and LEDs on the remote control are assigned as follows:

No.	Function	
	After release via sweeper menu	**After release via the hopper menu**
[1]	Switching on/off the work lamps of the roof-mounted manual suction unit	Tip hopper
[2]	Switching the high-pressure water pump on/off	Lower hopper
[3]	Switching the fan on/off	Open tailgate
[4]	Release	
[5]	Data error handheld transmitter	
[6]	Initialisation error radio signal	
[7]	Data transmission (green), battery low (red)	

CITYJET Lighting

By default, the CITYJET is delivered as a CBB kit for self-assembly. Since the wishes of the customers and national regulations on the lighting of the sweepers can differ from country to country, the following lighting devices are prepared for the working lights and the protection of the machine up to the plug connection:

- Work lighting for up to 2 lamps per side on a sweep gear
- Work lighting on the rear
- Work lighting in the engine cowl
- 4 rotating beacons (two in the front and two in the rear of the body)
- Work lighting on the wander hose

Only LED lamps with a maximum power consumption of 25W per connection may be used as work lights and rotating beacons. Spots or flat lighting elements can be used as work lights as long as they do not exceed 25W per connection.

Rotating flashing beacons

Rotating flashing beacon

Work lamp

Work lamp

Contour and warning marking

Tail light

CITYJET Lighting

Two mounting brackets for the hopper corners and one bracket for mounting on the hopper in the front centre are supplied for mounting the rotating beacons. Additional brackets can be ordered via FAUN Viatec spare parts service if needed.

Two red LED lights for outline lighting at the rear are already permanently installed on the body.

Other lighting devices such as parking lights, brake lights, direction indicators and side marker lamps are the responsibility of the chassis manufacturer or installer.

Optional initial assembly packages and a standard lighting package are available for the machines that are mounted on the chassis in the Grimma factory, which can be added at an additional cost.

Rotating flashing beacons

Rotating flashing beacon

Work lamp

Work lamp

Contour and warning marking

Tail light

Available options for the electric system

- Reversing camera with the display on the central control panel
- Additional 7” display with connection possibilities for up to 3 additional cameras
- Lighting packages for different countries
- FAUN Connect Telematics system, hardware, installation and connection to the sweeper control system.
- Data interface services for FAUN connect for 12, 24 or 36 months
- AK 5 Special waning sign to be mounted onto the tail gate.

CITYJET Paintwork

The body is supplied with a high-solid “Glasurit 68” Line paint finish in the following shades of white as standard:

- RAL 9010 white
- Renault blanc Ekla 09350
- Iveco IC194
- RAL 2011 or equal

The attached parts have following paintwork:

- Side mounted storage boxes incl. doors RAL 7042 grey
- Handles and other attached parts RAL 9005 deep black matt
- subframe RAL 9005 deep black matt
- Body prop RAL 3001 signal red
- Gutter broom plate RAL 1023 traffic yellow

Optionally, the container can be painted in a different RAL standard color for an extra charge.

The machine is delivered with FAUN branding and CITYJET lettering as standard.

CITYJET Paintwork

By default, the sweeper is delivered without special stickers such as warning or ECE-48 contour markings. These can be attached by the body builder in accordance with the respective national regulations.

With the optional assembly in the FAUN factory in Grimma, the corresponding stickering of the machine is included in the respective assembly package.

CITYJET Scope of delivery

In addition to the sweeper body described above, the following documents and components are supplied with the unit:

- 5m filling hose (only with the optional installation in the Grimma factory)
- 5m low pressure washing hose
- Drain hose for hydraulic and engine oil
- Operating instructions in German, English, French or Italian
- Spare parts list in German, English, French or Italian

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