

SCHMIDT

Cleango 500

Compact Sweeper





Schmidt – Cutting-edge technology as a matter of principle

Expertise

Aebi Schmidt Deutschland GmbH is among the trailblazers in municipal technology. Almost 100 years ago, the foundation was laid for a company that today ensures safety in all traffic areas in any weather all over the world. People throughout the globe rely on Schmidt's machines and know-how.

Being part of the Aebi Schmidt Group since 2007, Schmidt regards itself today as a leading system provider of innovative solutions for the cleaning, clearing and maintenance of traffic areas. Our product range comprises attachable and de-mountable equipment, special-purpose vehicles and all associated services as well as logistic and planning support.

We are there for our customers, which we guarantee by a dense network of service partners as well as advanced logistics to be able to deliver spare parts exactly when and where they are needed.

Made in Germany

Our sweepers bear the "Made in Germany" quality label. All machines of the Cleango series are manufactured at the parent factory in St. Blasien. Schmidt is committed to its German location and has been continuously investing in the modernisation and expansion of its factories during the past years – and thus also in the quality of its products.



Schmidt – Cutting-edge technology as a matter of principle

Our employees are behind us. They know that trust can only be created and maintained through performance and quality in all areas of a company, which they prove every day in our name.

Worldwide recognition

The striking blue-coloured logo with the Schmidt lettering is at home all around the world. Machines manufactured using German engineering expertise do just as great a job in Europe as they do in Asia, South America or the Near East. On the one hand, this worldwide presence is a sign of trust; on the other, it involves the duty of consistent optimisation: Because the future, holding new tasks in store, is never far away.

Schmidt – Cutting-edge technology as a matter of principle

- **Compact, manoeuvrable design with high payload**
High hopper capacity for extended operations and fewer trips to the landfill
- **Eco-friendly technology**
Clean engine technology (Euro 6), PM10 certificate
- **Maximum comfort for the driver for long working days**

The modular system enables you to customise the Cleango according to your individual wishes.

Schmidt Cleango – Reliable Technology

Safety, reliability and comfort are three important pillars for highest quality requirements. To guarantee them, exclusively high-quality components of selected brand manufacturers are integrated in the Cleango series.

We attach great importance to effective corrosion protection to ensure long-term use in any weather.

The vehicle frame made of high-strength steel is primed and painted using premium methods.

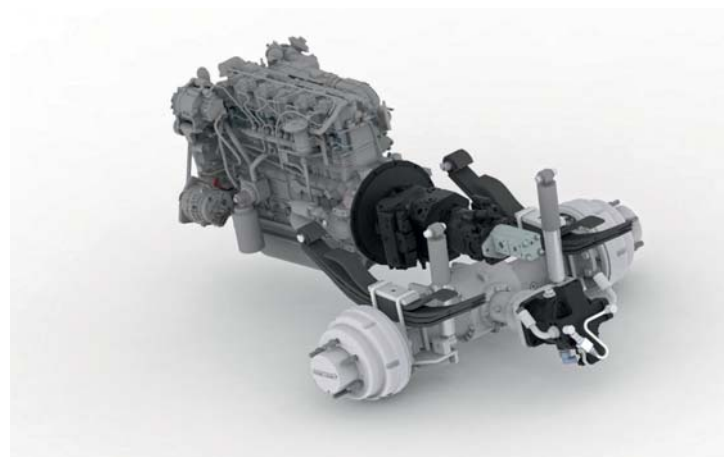
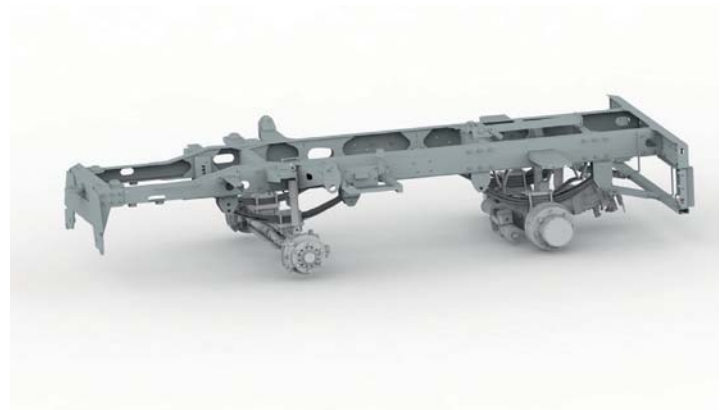
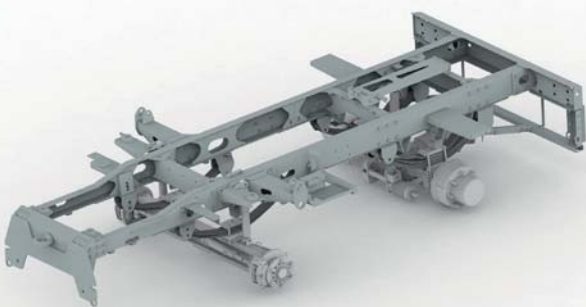
- Premium corrosion protection
- Selected branded components
- High level of reliability
- Safe and comfortable driving
- Large radius of action thanks to a high payload of well above 6 tonnes

The frame of the hopper is also made of a sturdy wet-painted steel construction. The bottom and sides of the hopper are lined with aluminium or stainless steel plates according to demand. A hopper completely made of stainless steel is available as an alternative.

The hydraulic tank is also made of sturdy stainless steel, whereas the side and rear water tanks are made of solid, impact-proof plastic.

The ladder frame forms the basis of the Cleango 500 and is made of high-strength steel. The ladder-type frame is known from truck construction and has proved its worth for years – lightweight, solid and reliable are the attributes that characterise the Cleango frame.

C-channels ensure maximum stability and torsional stiffness. Thanks to the modular design, the Cleango series is also perfectly prepared for future enhancements and adaptations





Schmidt Cleango – Reliable Technology

The suspension of Cleango 500 is ensured by leaf springs and hydraulic shock absorbers at the front and rear. The suspension package is perfectly adapted to the machine, guaranteeing safe and comfortable driving.

The large steering angle of 68° combined with the short wheelbase of 1,850 mm permits an extremely small turning circle during sweeping operations; the Cleango can make a U-turn on the road in one step without reversing.

The Cleango 500 features a **hydraulic dual-circuit brake system** with disc brakes at the front and drum brakes at the rear as well as an optional automatically load-sensing brake valve on the rear axle. The cutting-edge system gives the driver excellent control over the vehicle.

Owing to the rugged suspension, the high axle loads and the twin tyres on the rear axle, the Cleango 500 has the highest payload (up to 6.6 tonnes) in its class. This permits a large radius of action.

The 17.5" wheels with a high load capacity ensure increased safety even when driving in poor road and weather conditions.

The Euro6 diesel engine with a high torque ensures constant performance in any transport and sweeping situation.

Schmidt Cleango – Ergonomics & Comfort

While designing the driver's cab, the focus was placed on **operational comfort and ergonomics** to allow relaxed working. The driver's cab is correspondingly spacious and is equipped with premium sound-proofing and vibration damping. With only 72 dB(A) in his ears, the driver can better focus on the quick and safe performance of his job.

Heating and air conditioning system ensure excellent indoor climate during work.

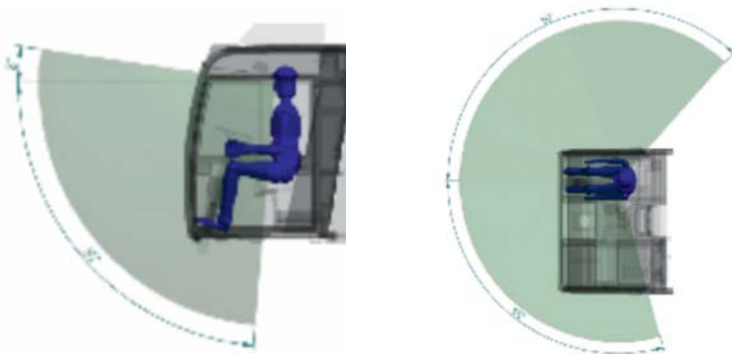
Optimum ventilation: Fresh air is sucked in from above and filtered. As a result, clean, low-dust air inside the driver's cab is ensured at all times irrespective of the weather. The high-performance air-conditioning system fitted as a standard creates a pleasant and cool working atmosphere even at high outdoor temperatures.

Outstanding visibility increases safety

- The windscreen extends up to the cab floor and is made of one single piece.
- An observation window integrated in the cab floor allows an unobstructed view of the suction nozzle and the disc brushes.
- The new Schmidt steering column with maximum ergonomics and one-of-a-kind adjustment options offers unprecedented ease of operation and permits quick and convenient entry and exit.
- The slim steering column equipped with a minimum of operating elements as well as the large wing mirrors give the driver a perfect view of the working area and the surroundings.

All operating and control elements are arranged ergonomically around the driver. The steering column is fitted with all traffic-related and safety-relevant functions.

The ergonomically designed link between the gas and the brake pedal, the cruise control and the multiply adjustable steering column (in height and tilt) facilitate the driver's work.



Schmidt Cleango – Ergonomics & Comfort

The sweeping unit is operated via the **door control panel featuring joysticks and push buttons**. The most important information is instantly visible on the display in the overhead console, showing parameters such as driving speed, filling level, temperature, engine speed and operating status.

A brand-new option is the Auto-Drive. The ergonomically designed multi-function control lever allows for all sweeping functions as well as the driving commands in sweeping mode to be operated conveniently. Single-handed driving and sweeping – an addition to safety, ergonomics and relaxed working – a unique feature in compact sweepers.

A mechanic can make machine-specific settings via the display.

Any malfunction can be localised quickly and efficiently with the help of the on-board diagnostic system

- All operating and control elements within optimum reach
- Spacious driver's cab with a pleasant indoor climate and full-size passenger's seat
- Ergonomic, comfortable and suspended driver's seat adjustable according to individual needs
- Perfect view of the working area and the environment
- Cruise control
- Height- and tilt-adjustable steering column



Schmidt Cleango – Sweeping Technology

The Schmidt Cleango 500 is equipped with a **flexibly adjustable sweeping system** that guarantees reliable sweeping results in any situation.

The towed disc brush system mounted in front of the front axle has a sweeping width of 2,200 mm. Compared to the shunted system, the towed construction significantly minimises collision damage and considerably reduces brush wear.

The entire sweeping unit can be hydraulically shifted 300 mm to the right and left.



- Towed brush system prevents collision damage
- Third front-mounted brush permits sweeping on two levels
- Trouble-free sweeping in 90° corners
- Heavy weed-removal work possible
- High suction performance permits high operating speeds and trouble-free collection of large amounts of dirt

The suction nozzle and the disc brushes

form one unit; the parallelogram-type brush suspension guarantees optimum tracking and thus coverage to the suction nozzle. The brush ground pressure is adjusted hydraulically on the control panel from the driver's cab without the driver having to get out of the vehicle. This additionally ensures reliable sweeping results while minimising wear and tear.

The optionally available independent brush control allow for hydraulically adjusting the angle of the disc brushes to the road conditions from the driver's cab. In addition, the ground pressure of the disc brushes can be adjusted separately on the right and left from the driver's cab. This makes it even easier to sweep right-angled corners, gutters and hard-to-reach areas.

The optional third brush

even allows for extending the sweeping width to 3,100 mm. This permits a higher surface capacity (of up to 56,000 m²/h), sweeping on two levels as well as the efficient sweeping of small-sectioned surfaces with a lot of street furniture. The sturdy arm with a front-mounted brush can be used on both the left and the right side of the machine and can also cope with heavy weed-removal work. All functions of the front-mounted brush, including the brush ground pressure, are controlled hydraulically.



Schmidt Cleango – Sweeping Technology

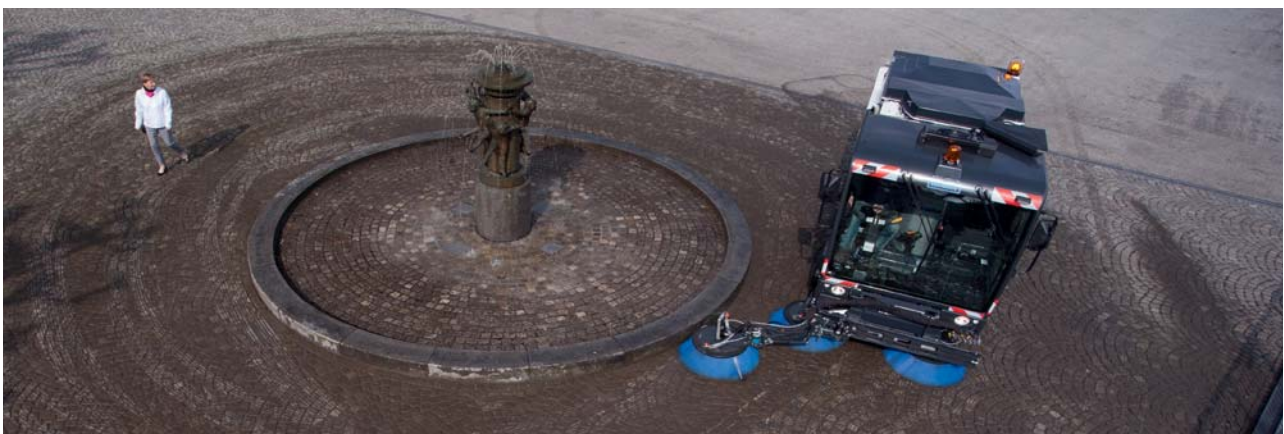


The high **suction performance of 14,000 m³/h** enables the Cleango 500 to sweep at high operating speeds and to collect large amounts of dirt without any problems. The fan speed can be easily adjusted almost continuously, making it possible to quickly react to changing conditions. Furthermore, the flow-optimised arrangement ensures effective sweeping operations at reduced fuel consumption already at a low fan speed.



The towed suction nozzle for dirt collection is arranged behind the brush but in front of the front axle and is guided on rollers with a constant distance to the ground.

The large debris flap allows for easy collection of even bulky debris.



Schmidt Cleango – Sweeping Technology

The large hopper with a **system volume of 5 m³** permits an increased radius of action and maximum debris collection. The Cleango 500 additionally impresses with the highest payload in its class, making it possible to utilise the full hopper capacity even with heavy debris.

As a standard, the Cleango comes equipped with a low-dump system. A high-dump system with a slide gate for emptying containers is available as an option. The rear flap is always locked hydraulically, with a sturdy rubber gasket ensuring water-proof sealing between the rear flap and the hopper.

The leaf screen is fixed along the full width and length of the hopper, enabling optimum utilisation of the hopper capacity. The large screen surface effectively prevents the screen from blinding and guarantees a constant air stream at 100% hopper filling. The screen can be conveniently folded down for cleaning. An automatic screen cleaning system for the front part of the screen is available as an option.





Schmidt Cleango – Clean Environmental Technology

Water is added to the debris at several points of the sweeping process to ensure **low-dust sweeping** and optimum utilisation of the hopper capacity.

As a standard, the Cleango 500 features a **fresh water system with approx. 685 l of reserve water** in sturdy plastic tanks. This fresh water reserve can optionally be extended to up to 1,835 l.

The high-performance water pump supplies two spray nozzles in each of the disc brushes and two nozzles in the suction nozzle. The water volume for the brushes and the suction nozzle can be adjusted conveniently from the driver's cab.

The Cleango 500 can optionally be fitted with a **water recirculation system**, which conducts the wastewater from the hopper directly back to the suction nozzle. This not only saves fresh water, but also permits optimum utilisation of the hopper capacity. The collected debris is both wetted and compacted to ensure that only clean and low-dust air gets into the environment. This increases the working radius so that the Cleango 500 can be used even more effectively.

The Cleango 500 is equipped with a highly efficient and powerful Euro6 diesel engine, featuring the most state-of-the-art **exhaust gas purification system with diesel oxidation catalytic converter, a closed particulate filter system as well as urea injection (AdBlue) and SCR system**. With minimum toxic emission levels, the Cleango 500 fully meets the Euro6 standard. Moreover, it stays far below the legally permitted maximum levels. A Euro5 or EuroMot 3B version without AdBlue and SCR system is still available on request (depending on the country's legislation).

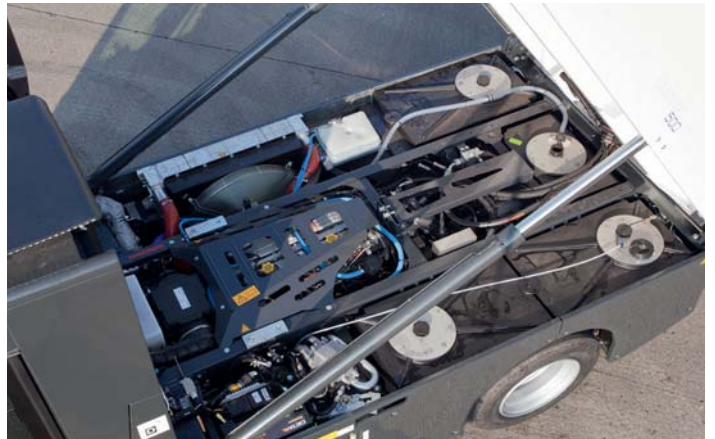




- Low-dust sweeping – PM-10 3-star certificate
- Optimum utilisation of hopper capacity
- Eco-friendly, powerful Euro-6 diesel engine
- Outstanding steerability and manoeuvrability
- Eco-Drive at reduced engine speed

The quiet-running and powerful 6-cylinder engine is unique in this machine category. The combination with the newly developed hydrostatic drive including Eco-Drive option permits comfortable and economical driving. The reduced engine speed during transport operations saves up to 20% fuel. The transport speed is variable up to 50 km/h.

The Euro6 engine incl. AdBlue tank is perfectly integrated in the chassis, enabling the Cleango to maintain its optimum steerability and manoeuvrability.





Vehicle technology

- Efficient, quiet-running Euro6 6-cylinder diesel engine
 - Hydrostatic drive with Eco-Drive mode
 - Front-axle steering with 68° steering angle, permitting turning manoeuvres in extremely confined space
 - High transport speed of up to 50 km/h
 - Large 17.5" wheels
 - Hydraulic dual-circuit brake system
- Disc brakes** on front axle with double brake callipers for maximum safety
- Drum brakes** on rear axle



Clean environmental technology

- Euro6 diesel engine
- Certificate for passing the PM-10 test
- Optimum capture of dust particles
- Targeted fresh water supply to disc brushes and suction nozzle
- Water recirculation system



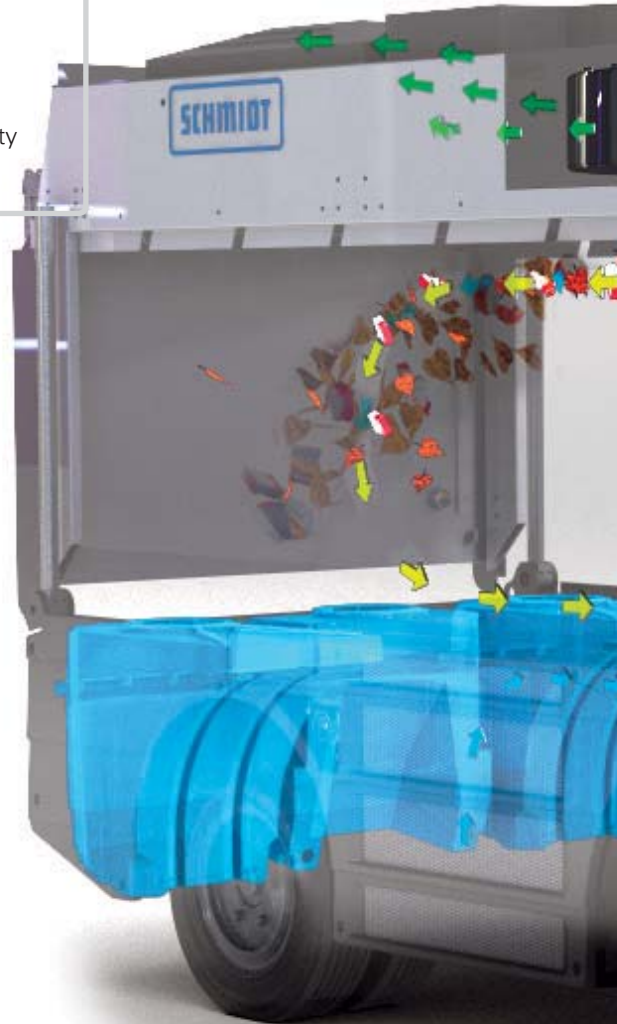
Modular equipment

- Two- or three-brush system
- Low-dump or high-dump system
- Transport speed 25 / 40 / 45 / 50 km/h
- Brushes of polypropylene, steel or mixed material
- Size-3 mounting plate
- Winter service options: snow plough (e.g. type SNK24), attachable sweeper (LKS20)



Ergonomics & Comfort

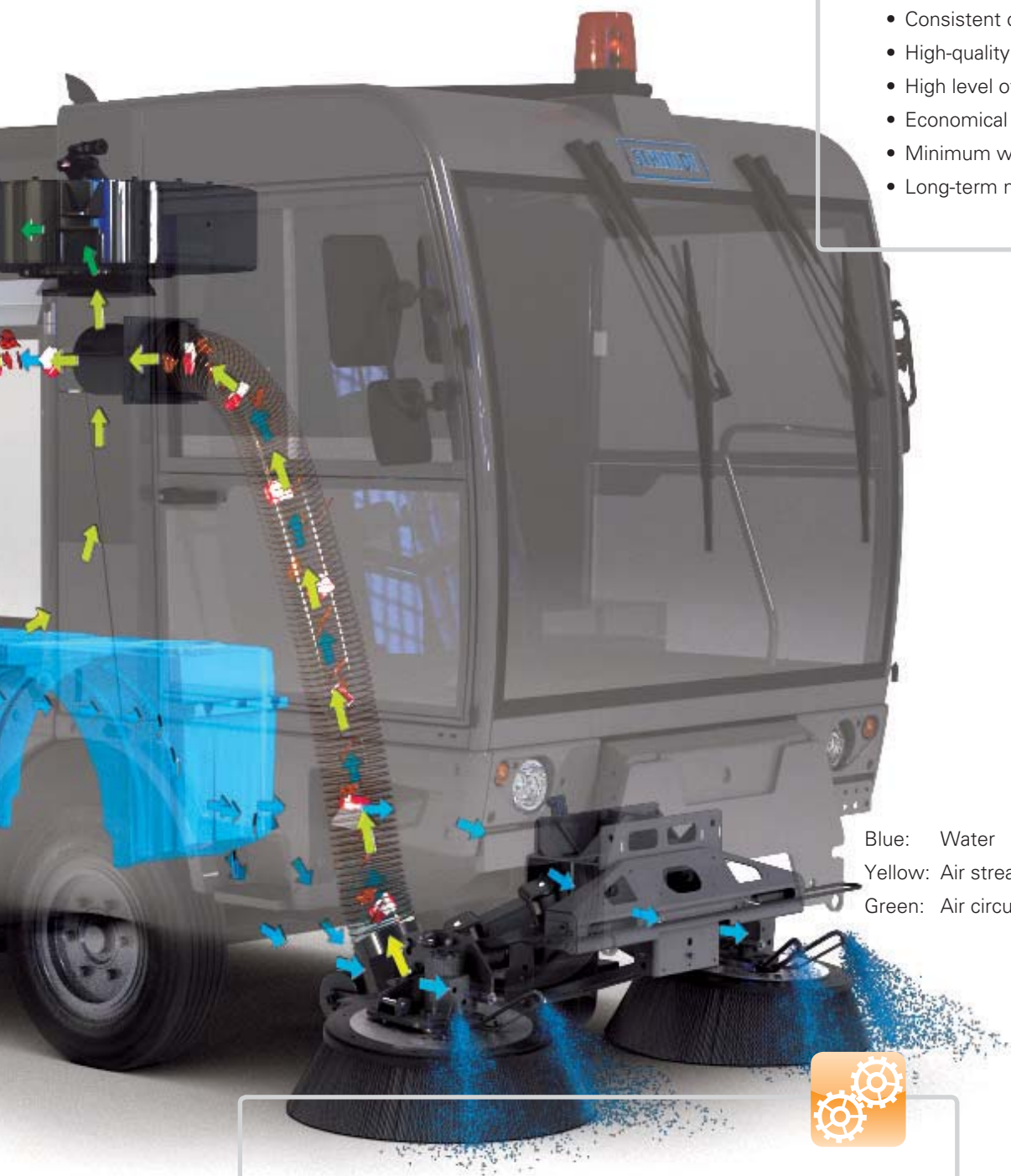
- Sound-proof driver's cab with optimum all-round view for safe operation in road traffic
- Excellent view of brush sweeping unit and suction nozzle for maximum control of functions
- Smooth steering
- Minimum pedal forces
- Ergonomic driver' seat
- Height-and tilt-adjustable steering column
- All operating and control instruments within optimum reach
- Air-conditioning system
- Auto-Drive control lever





Quality

- Consistent corrosion protection
- High-quality branded components
- High level of reliability
- Economical operation
- Minimum wear
- Long-term maintenance of value



Blue: Water

Yellow: Air stream with debris transport

Green: Air circulation / clean air



Sweeping technology

Two- or three-brush system

- Towed disc brushes, 900 mm Ø
- Dependent and independent disc brush control using the convenient operating elements integrated in the driver's door
- Suction nozzle guided on rollers
- Hydraulic adjustment of brush angle (option)
- Separate adjustment of disc brush ground pressure (option)
- Sweeping on two levels
- Heavy weed-removal work

Optional equipment

Schmidt pays special attention to the illumination of the sweeping area and the surroundings around the Cleango 500. The LED light packages offered turn night into day, ensuring excellent illumination and maximum safety. The driver has an excellent view of the working area, even in adverse weather conditions.

Quality pays off: All integrated LED headlights are high-quality branded products made in Germany.

- Rear-view monitoring
- Weed brush
- Wander hose
- High-pressure cleaning system
- Additional water tank
- Sound-proofing package
- Automatic central lubrication system
- Winter service attachments





Lateral water tanks



Additional water tank (top)



Roof mounted spray boom with a high pressure hand lance



Wander hose



High-pressure cleaning system



Three-brush system



Two-brush system



Rear view and suction nozzle camera



Weed brush

Technical equipment and accessories

	Cleango 500 Euro6
Hopper	
System volume approx.	5 m ³
Discharge angle (low dump)	55°
Discharge height (low dump)	800 mm
Discharge height (high dump)	800 – 1,500 mm
Drive	
VM R756 Euro6 with closed particulate filter system, urea (AdBlue) injection and SCR system	120 kW (163 HP) 4,455 cm ³ cubic capacity 6-cylinder, 500 Nm @ 1,400 1/min
Sweeping unit	
Disc brush diameter / speed approx.	Ø 900 mm, max. 140 1/min
Brush material	Steel, polypropylene or mixed
Sweeping width	2,200 mm
Sweeping width with third brush	3,100 mm
Fan speed max.	3,300 1/min
Air flow rate max.	14,000 m ³ /h
Water system	
Water tank volume approx.	685 l
Water spray system	8 bar / 11 l/min
Speeds	
Transport speed max.	25 / 40 / 45 / 50 km/h
Operating speed max.	12 km/h (optional 18 km/h)
Weights	
Empty weight	5,500 kg
Total permissible weight up to 40 km/h	12,100 kg
Total permissible weight up to 50 km/h	11,500 kg
Dimensions	
Length without third brush	4,473 mm
Length with third brush	5,485 mm
Width without brush	1,810 mm
Height with rotating beacon	2,707 mm
Wheelbase	1,850 mm
Track width front	1,600 mm
Track width rear	1,310 mm
Steering	
Steering angle	68°
Turning circle between kerbs	5,950 mm
Turning circle between walls	7,250 mm



SCHMITZ

PM 10

Aebi Schmidt Holding AG
Marketing and Communication



Scan and experience the
ASH Group on YouTube

Technical specifications subject to change.
Photographs are not binding

We will be happy to help you!