

Cleango 500

Sweeper

The mid-range Cleango 500 is ideal for a host of daily cleaning jobs in a wide variety of inner-city and urban areas, including pedestrianised zones, footpaths and cycle paths or in industrial areas. Thanks to its high suction power, the Cleango 500 sweeps at a high working speed and easily picks up even large amounts of dirt. The large volume of the hopper allows maximum sweeping capacity and a long service life. The Cleango 500 is characterised by environmentally friendly engine technology, innovative engineering, low costs over the product life cycle and maximum comfort for the driver.

Highlights

- **2 or 3 broom system** available
- Container available with **tilting or high discharge**
- System volume of 5m3 integrated in vehicle in compact design
- Efficient, quiet-running **Euro 6c 6-cylinder diesel engine**
- High payload of up to **6,600kg**

Your benefits

- **Powerful:** Sweeps at a fast working speed thanks to the high suction power and easily picks up large amounts of dirt. Thanks to the largest payload in its class, full utilisation of the container volume is possible even with heavy swept material.
- **Excellent sweeping performance:** A 2 or 3-broom system with a pulled suction chute.
- **Unsurpassed comfort:** A spacious cabin, excellent visibility, ergonomic controls, an adjustable steering column, and a sprung driver's seat with individual adjustment options. AGR („Campaign for Healthy Backs") tested and recommended.
- **Minimum fine dust emissions:** the Cleango 500 meets the best level of PM10/PM2.5 certification with 4 stars each. The combination of the Koanda air circulation system in conjunction with the pressurised circulating water system can reduce fine dust emissions by up to 70%.
- **Flexibility:** Thanks to modular equipment and a wide range of optional extras, the sweeper can be adapted to customer-specific requirements.

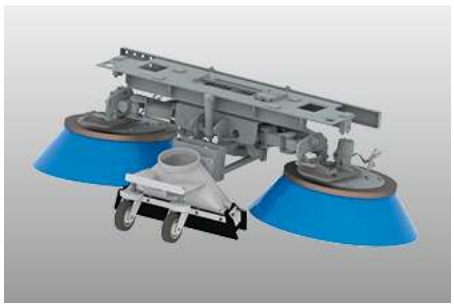
Performance features

Sweeping technology

The Cleango 500 has a pulled disc brush system mounted in front of the front axle with a sweeping width of 2,200mm. The advantage of the trailed design is that collision damage is considerably minimised compared to the pushed system and wear and tear on the brooms is significantly reduced.
The Cleango 500 is available as a two- or three-broom system. With the optional third broom, the working width can be increased to 3,550mm. This allows a greater area performance (up to 64,000m²/h), sweeping on two levels and efficient sweeping in areas with a lot of street furniture and tight working areas. The robustly designed arm with front brush can be used on both the left and right side of the machine and is also suitable for heavy weed work.
All functions of the Cleango 500 can be controlled hydraulically from the control panel in the driver's cab. The entire sweeping unit can be moved hydraulically 300mm to the right and left. With the optional independent brush control, the inclination of the circular brushes can be adjusted hydraulically from the cab to suit the road surface characteristics. The contact pressure of the disc brushes can be adjusted separately to the right and left from the cab. This allows comfortable and clean sweeping of right-angled corners, gutters and hard-to-reach areas.

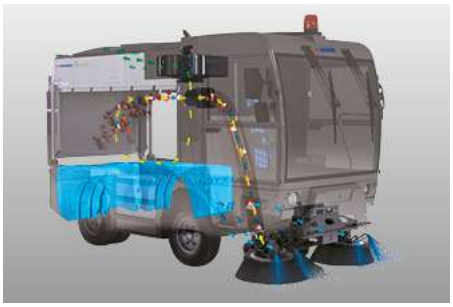


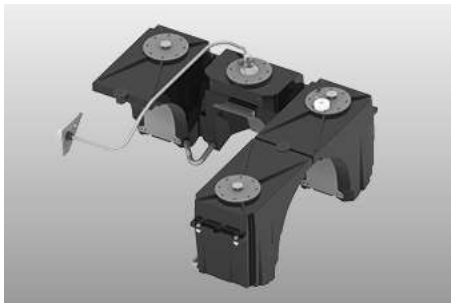





Suction and water systems

The trailed suction shaft is located behind the brooms but in front of the front axle and is carried along on rollers at a constant distance from the floor. The suction mouth and the circular brooms form one unit - the parallelogram suspension of the broom unit guarantees optimum tracking and thus overlap with the suction shaft. The flow-optimised installation of the suction shaft ensures that sweeping can be carried out effectively and with reduced fuel consumption even at low blower speeds. A hydraulically operated coarse dirt flap allows large debris to be collected. The blower speed can be easily and conveniently adjusted with multiple variations, which allows quick reaction to changing conditions.
The fresh water system has a volume of around 685 litres (with an option up to 1835 litres). The powerful water pump supplies two spray nozzles each on the circular brooms and two nozzles in the suction shaft.The Cleango 500 can also be equipped with an optional circulating water system. In this case, the circulating water from the hopper is fed directly back into the suction shaft, saving fresh water and optimising capacity. The collected waste material is both moistened and compressed, and only clean, low-dust air is released into the environment.
The Cleango 500 is certified with the best level PM10 4-star and PM2.5. The certificate is regarded throughout Europe as a quality feature and awards four stars in the PM10 test for the highest level of air pollution control, and the best possible absorption performance with PM2.5.











Sweeping material hopper

The hopper has a volume of 5m³ enabling maximum sweeping capacity and an increased radius of action. The basic version is equipped with tipping discharge. A high dump with pusher for container emptying is also optionally available. A hydraulically locked tailgate with a stable rubber seal seals the tailgate to keep the container watertight.
The frame of the hopper is made of steel and is subjected to wet painting. The bottom and sides of the hopper are lined with aluminium or stainless steel plates as required. Alternatively, the Cleango 500 is available with a frame made entirely of stainless steel.
The leaf sieve is fixed over the entire width and length of the hopper and allows the hopper capacity to be used to its full potential. The large sieve surface prevents it from clogging and guarantees a constant air flow with 100% hopper filling. The sieve can be conveniently folded down for cleaning. Automatic leaf screen cleaning for the front screen section is available as an option.









Ergonomics and Comfort

When designing the cabin, the focus was on ease of operation and ergonomics with optimum visibility through a wind-screen that extends to the cab floor. At the same time, a window in the cab floor provides a clear view of the suction shaft and the disc brushes. Two large side mirrors also provide a perfect view of the working area and surroundings. The cab is equipped with high-quality noise and vibration insulation. At only 66dB(A), the driver can concentrate better and perform tasks quickly and safely.
All control and operating elements are arranged around the healthy driver‘s seat with AGR certificate („Campaign for Healthy Backs“) and are within easy reach. A powerful heating and air conditioning system ensures the best possible indoor climate during working. A narrow and multi-adjustable steering column (in height and angle) is equipped with all

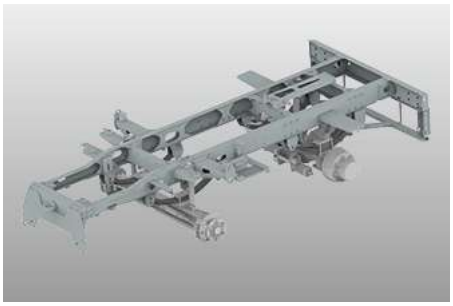
traffic and safety-related functions and controls. The ergonomically designed transition between the accelerator and brake pedals, low pedal forces and cruise control make the driver‘s work easier.
The sweeping unit is controlled via the door control panel with joysticks and push buttons. The most important information is visible at a glance on the colour display in the roof console, including travel speed, fill levels, temperatures, engine speed and working conditions. The Auto-Drive option is new. All sweeping functions and driving commands in sweeping mode can be conveniently operated via the ergonomically shaped multi-functional joystick. A mechanic can make machine-specific settings via the display. The onboard diagnosis system allows any faults to be located quickly and efficiently.








Modern vehicle technology



The frame of the Cleango 500 is made of high-strength steel and is primed and painted in high-quality processes. This forms an effective corrosion protection and guarantees sustainable use in all weather conditions. The ladder frame construction makes the Cleango 500 light and at the same time robust and reliable. C-profiles ensure maximum stability and torsional rigidity. The hydraulic tank is also made of robust steel, while the side and rear water tanks are constructed of stable, impact-resistant plastic.
The suspension package with leaf springs and hydraulic shock absorbers at the front and rear, adapted to the machine, ensures safe and comfortable driving. Large 17.5“ wheels with high load capacity ensure increased safety when driving even in bad road and weather conditions. The Cleango 500 has the highest payload in its class - up to 6,600 kg thanks to robust suspension, high axle loads and twin tyres on the rear axle. A large steering angle of 68°, combined with the short wheelbase of 1,850mm, allows optimum manoeuvrability and an extremely tight turning circle.
The hydraulic dual-circuit brake system with disc brakes at the front and drum brake system at the rear, plus an optional or equipment-dependent automatic load-dependent brake valve on the rear axle, enables outstanding vehicle control.

Drive



The Cleango 500 is equipped with an efficient and powerful Euro 6c diesel engine fitted with one of the most advanced exhaust after-treatment systems available on the market, including diesel oxidation catalyst, closed particle filter system, urea injection (AdBlue) and SCR catalyst. Optional transport speeds are 25 / 40 / 45 / 50 km/h.
The engine, including the AdBlue tank, is perfectly integrated into the chassis, so that the Cleango 500 maintains optimum manoeuvrability and flexibility. The smooth and powerful 6-cylinder engine, in conjunction with the newly designed hydrostatic drive with Eco-Drive feature, ensures comfortable and economical driving and can save up to 20% in diesel fuel usage.

Wide range of options

- Third front broom
- Wild herb broom
- Rear view and suction shaft camera
- Pressure washer
- Roof boom with HD lance
- Additional water tank
- Hand suction hose
- Sink drawer cleaner
- Automatic central lubrication system
- Sound insulation package
- LED lighting package
- Winter maintenance options: Snow plough or front broom








IntelliOPS telematics platform

The Cleango 500 can be connected to the Aebi Schmidt IntelliOPS platform, which provides comprehensive monitoring, selection, reporting and analysis functions. It enables rapid performance evaluation by displaying machine activity data live on a map and facilitates the use of the collected data by providing detailed overviews and reports to optimise the work process.

Gallery





Variants

Cleango 500 | 2-Brush



A flexible sweeping system guarantees a clean result in every situation. The pulled disc brush system mounted in front of the front axle has a sweeping width of 2,200 mm.

Cleango 500 | 3-Brush



With the optional third broom, the working width can be increased to 3,550 mm. This allows a greater area output and sweeping on two levels.

Related product

eSwingo 200+

Sweeper



Multigo 150

Sweeper



Swingo 200+

Sweeper



Keywords

#Counties, Cities & Municipalities #Contractors #Industry, Construction & Facility Management #Airports #Cleaning & Washing #Sweeping #Innercity Roads #Parking Facilities & Underground Car Parks #Industrial & Port Areas #Airport Landside

Technical data

	Cleango 500 | 2-Brush	Cleango 500 | 3-Brush
Hopper		
Tank volume	5 m³	5 m³
Tilt angle	55°	55°
Dumping height tilt discharge	1,100 mm	1,100 mm
Dumping height high discharge	1,100 - 1,820 mm	1,100 - 1,820 mm
Sweeping unit		
Disc brush diameter	900 mm	900 mm
Disc brush speed	140 1/min	140 1/min
Brush material	steel / Plastic / Mixedfill	steel / Plastic / Mixedfill
Sweeping width	2,200 mm	2,200 mm
sweeping width with 3rd brush	–	3,500 mm
Suction fan		
Max. air flow rate (free flow)	14,000 m³/h	14,000 m³/h
Max. approx. vacuum	850 mm	850 mm
Speed	3,400 1/min	3,400 1/min
Water system		
Fresh water volume	685 l	685 l
Fresh water pump	3.4 bar / 15 l/min	3.4 bar / 15 l/min
Water tank material	PE polyethylen	PE polyethylen
Drive system auxiliary engine		
Engine type	VM R756	VM R756
Number of cylinders	6	6
Exhaust emission	Euro 6c	Euro 6c
After treatment system	AdBlue + SCR-Kat	AdBlue + SCR-Kat
Fuel	Diesel	Diesel
Displacement	4,455 cm³	4,455 cm³
Performance	120 kW (163 PS)	120 kW (163 PS)
Torque	500 Nm	500 Nm
Fuel tank	110 l	110 l
AdBlue tank	14 l	14 l
Steering		
Steering angle front axle	68°	68°
Turning circle diameter wall to wall	7,250 mm	8,100 mm
Turning circle diameter kerb to kerb	5,950 mm	5,950 mm
Speed		
Transport speed	25 km/h / 40 km/h / 45 km/h / 50 km/h	25 km/h / 40 km/h / 45 km/h / 50 km/h
Sweeping speed	12 km/h / 18 km/h	12 km/h / 18 km/h
Dimensions		
Length without 3rd brush	4,473 mm	4,473 mm
Length with 3rd brush	–	5,485 mm
Width without brush	1,810 mm	1,810 mm
Height with beacon	2,707 mm	2,707 mm
Wheelbase	1,850 mm	1,850 mm
Track width front	1,600 mm	1,600 mm
Track width rear	1,600 mm	1,600 mm
Weights		
Empty weight of the basic unit approx.	5,500 kg	5,500 kg
Permitted total weight	11,500 kg / 12,100 kg	11,500 kg / 12,100 kg

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