

COMPACT ROAD SWEEPER SH6000



SHANHUA

ONE SYSTEM FOR ALL SWEEPING NEEDS

SH6000 is the ideal choice for municipal cleaning of urban and suburban areas, ports and airports, and at the same time the most effective option for heavy duty sweeping of industrial plants (foundries, cement factories, mines) and for all the employments that requires the best sweeping performances without releasing dust in the air.

Powerful

Mechanical/suction/filtering technology with load sensing electronic management

Ecological

Dry sweeping and PM 2.5

All-in-one

Best performance both in municipal and industrial operating

Saver

High speed sweeping to maximize the hourly yield. No water in the hopper = reduce the cost of waste disposal

Noise and Vibration

Cabin insulation and shock-absorber installed protects the operator from noise and vibration. The cabin is covered with soundproofing and fire-resistant material that reduces noise to the lowest level.

The noise can be measured at 78 dBA while is in operation.





Performance and cost saving

SH6000 is equipped with “automotive” hydrostatic traction, electronically controlled, with load sensing system to optimise power supply and energy saving in any working and driving condition.

ECO MODE FUNCTION ALLOWS TO SAVE UP TO 25% OF FUEL




Ergonomy and comfort

The cabin is designed to offer top level comfort and ease of driving, with the highest safety and ergonomic standards and full control of all the working phases.

The cabin has three type-approved seats and no central tunnel, for the best access of operators.

Ease and functionality

All machine controls and operations are easy to operate via the control panel with a color display and function buttons mounted next to the steering wheel. Function keys installed next to steering wheel There is a warning signal on the screen and a warning signal when the water tank is nearly empty. 

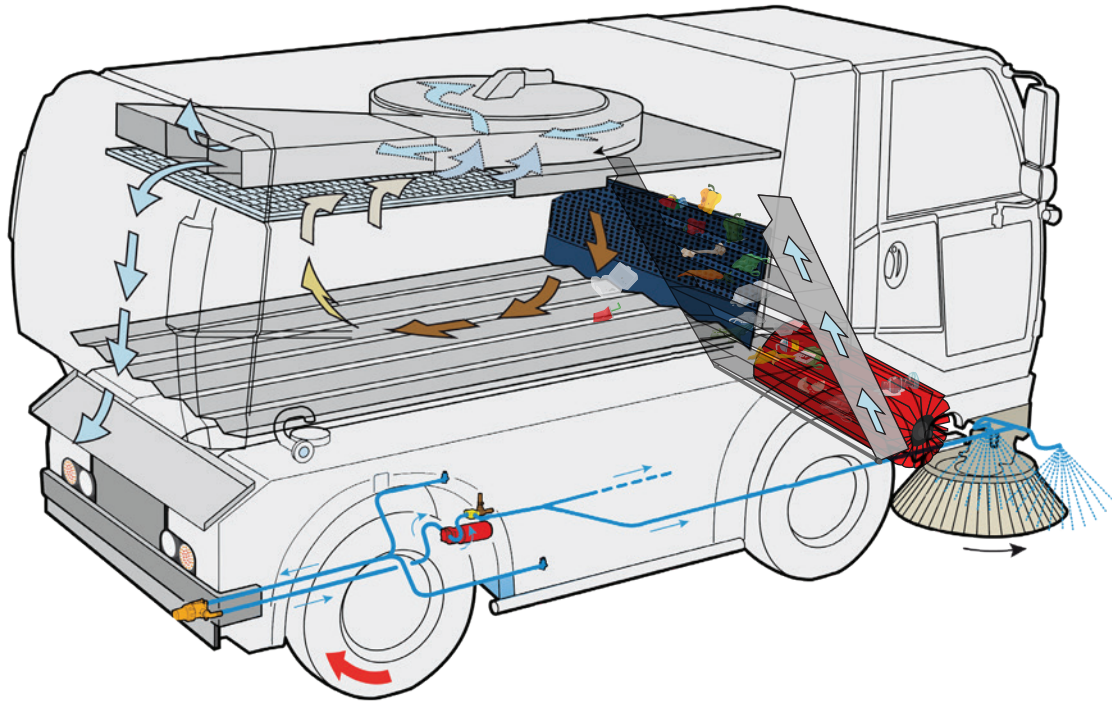
User-friendly graphics and user-friendly controls make learning the operation and management of all operations in driving and sweeping streets easy and fast.

Accuracy and effectiveness

The ground pressure of the central brush is automatically controlled by means of a patented hydraulic system “CDS - Clever Detective System” which controls and adjusts the pressure of the central broom, keeping constant the load on the ground, regardless of the type of surface on ground dips. This ensures the best sweeping accuracy and the lowest wear of the broom.

THE MOST EFFECTIVE SOLUTION

Mechanical, suction and filtering combined sweeping system.

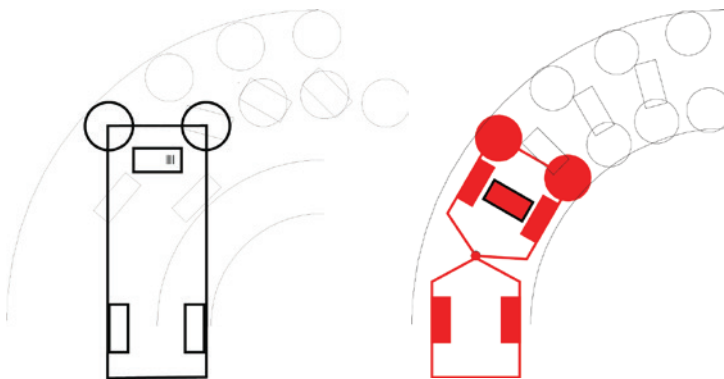


The combined mechanical / suction / filtering collection guarantees powerful and fast loading of any type of material from dust to leaves, as well as gravels and large debris. An effective suction system optimises the collection of dust and light materials and the filtering system, made up of a battery of polyester filters, captures fine dust particles up to PM 2.5 under all operating conditions, by eliminating almost completely the introduction of pollutants into the atmosphere.

Material collection takes place mechanically, using two hydraulically operated side brushes and a central broom with a high-speed vertical conveyor belt controlled by hydraulic motor, the dust particles are in the center of the machine. The dust is sucked through the vacuum created in the container and the light particles are lifted and entered into the hopper.

4-wheel steering

The synchronized hydraulic steering system on both axles allows better maneuverability in all operating situations. The power steering system also allows operator to use less effort when driving.



High dump

6 m³ AISI 304 stainless steel waste hopper with dumping height of 1340 mm (standard) or 2400 mm (optional). The sweeper is equipped with a system preventing any hopper lift or tilt, in case of pressure drop.



- The hopper door opens and closes hydraulically
- Hopper can be lifted and tilted during unloading at an angle of 40° with hydraulic system
- Water tank is installed with pump with controller inside operator's cabin

Easy access to all mechanical and hydraulic parts for quick maintenance operations

Two automatic driving modes

Eco Mode: driving at maximum speed (20 km/h) at low rpm, to reduce fuel consumption up to 25%

Power Mode: driving at maximum speed (40 km/h) even fully loaded and while climbing. Always with best rates of fuel consumption.



THE MOST SUITABLE CONFIGURATION

Standard

- 3 seats cabin with seat belt
- Full electronic management of operations
- Water dust control
- Textile filter
- Centralized greasing system
- Big diameter road tyres
- Gear Automatic



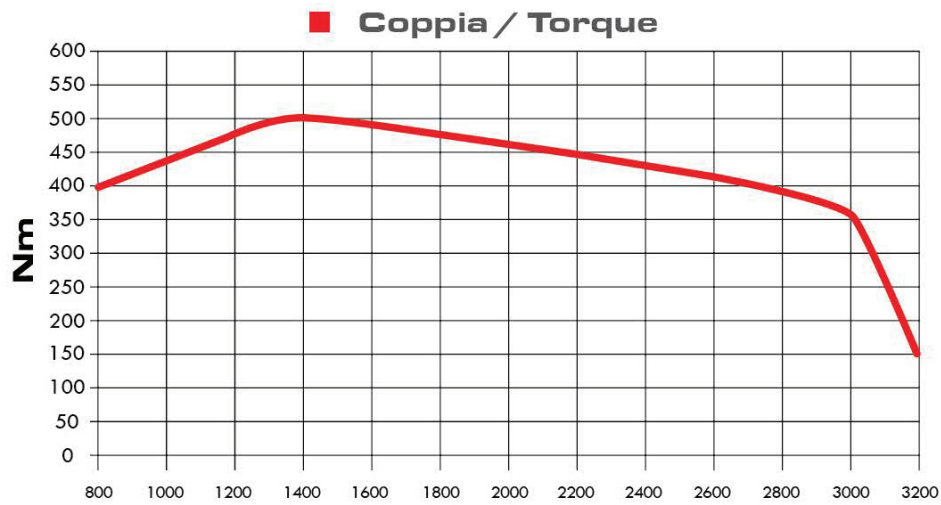
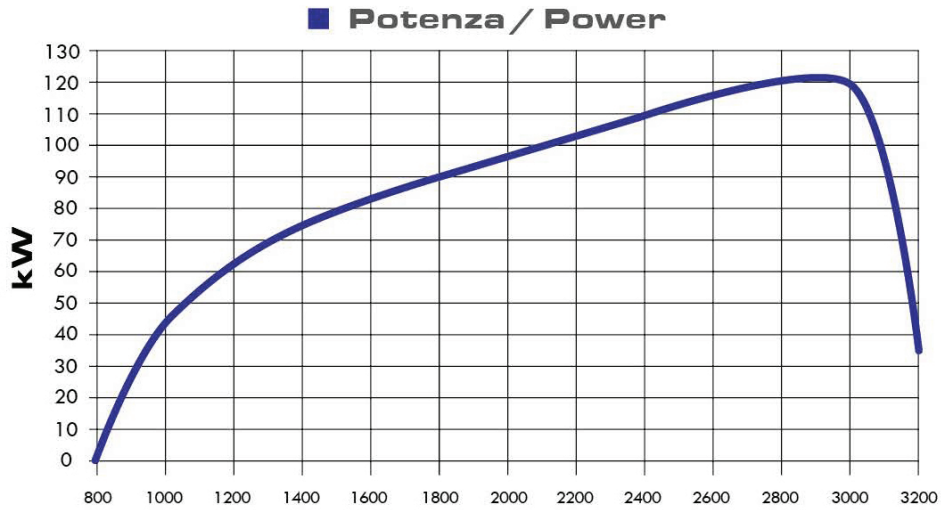
Optional

- High dumping system up to h 2,400 mm
- 3rd front brush
- High pressure washing
- Wander hose Ø 205 mm, Length 5 m
- Rear and working view cameras
- Warning alarms inside operator cabin, when discharging hopper
- Brush covers
- Green microfiber filter
- Automatic greasing system
- Radio set (Radio and Speaker)
- Spare wheel



ENGINE INFORMATION

Brand - Model	VM MOTORI-VM R756 EU6C 6 Cylinder Water Cooled Diesel Engine
Power	163hp / 120kW @3,000rpm
Torque	500Nm @1,400rpm
Emission	Stage V
Working speed	1,800 rpm



CAPACITY INFORMATION

Hopper gross volume	6 m ³
Fuel tank	150 L
Adblue [®] tank	50 L
Payload capacity	6,460 kg
Water tank	540 L (Stainless steel (AISI304) @thickness 2.0 mm)
Hydraulic tank	100 L

SWEEPING EQUIPMENTS

Central broom	Ø 600 mm
2 side brushes	Ø 1,050 mm
3rd Front brush	Ø 1,250 mm
Suction hose diameter	Ø 205 mm, Length 5 m. (Option)
Air flow	4500 m ³ /h
Suction nozzle width	650 x 230 mm
Sweeping width	2,000 mm - 2,300 mm (with third brush)

GENERAL INFORMATION

Dimensions (LxWxH)	5400 mm x 2050 mm x 2980 mm
Tire size	285 / 70 R19.5
Gross Vehicle Weight	13,000 kg
Dump height	1340 mm (Optional : height 2,400 mm)
Vacuum filter mesh area	1.8 m ²
Hydraulic filtration	100 micron suction / 20 micron return
Irrigation pump information	11 L / 4 bar 24V
Electrical system	24 V
Climbing ability	25%
Garbage hopper structure	Stainless steel (AISI304)
Sweeping and cruising speed	0 - 40 km/h
Brake	Hydraulic type front and rear dynamic brake system
Suspension system	Front Hydropneumatic rear independent rubber suspension
Transmission system	Hydrostatic
Gear	One forward, one rear
Vehicle curb weight	6,060 kg
Wheel turning diameter	6,600 mm ± 100

FAN

Type	Heavy duty, dynamically balanced impeller with multivane corrosion resistance blades
Operation speed	3,000 - 4,000rpm
Fan air flow capacity	15,000 m ³ / h
Construction material	Stainless steel (AISI304)

CABIN – CONTROL PANEL

Adjustable and telescopic hydraulic steering wheel

Suspension driver seat

Air conditioner

Radio-Usb-Aux

Engine RPM display

Engine operating hours

Water tank level indicator

Fuel level indicator

Camera system with in cabin 7" screen, rear view and suction nozzle cameras

Front display panel

Camera control system

Garbage hopper lift audible warning

OPTIONS

Camera control system

Front wheel maneuverability

Snow sweeping brush

Snow blade

Rear suction hose 5m with Aluminium coupling

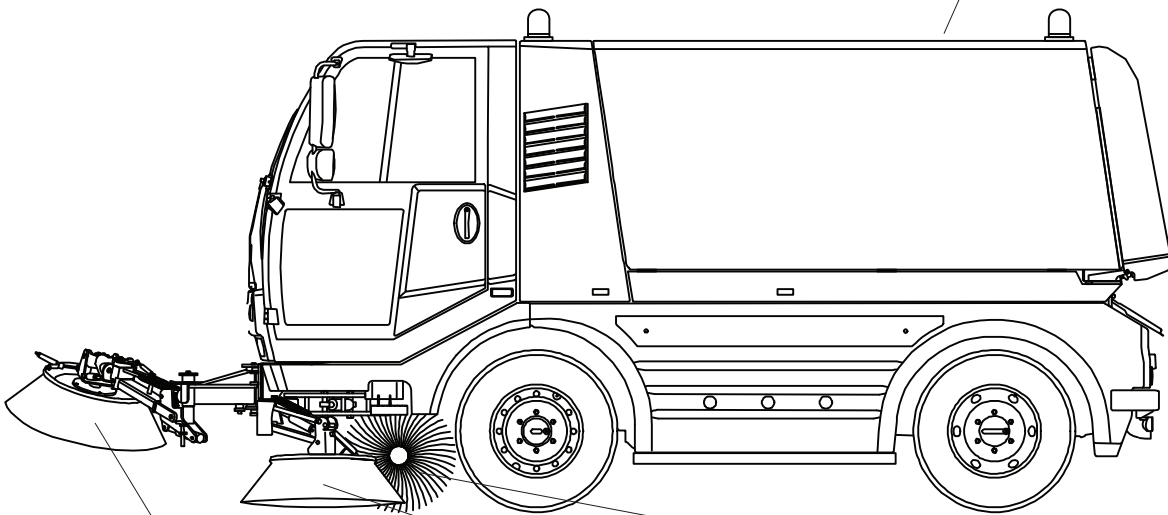
15 L / 150 bar high pressure pump with 10m hose and washing gun

Magnet

SWEEPING SYSTEM

- All the brushes (Central brush, Side brushes and Front brush) are operated hydraulically and managed or adjusted by controller inside the operator's cabin.
- Operator can select to use only side brush independently or 2 side brushes together.

Dump height 1340 mm
(Optional : height 2400 mm)



Front brush 1250 mm
Position adjustment and 150
degree rotation adjustment
with 4 nozzles.

2 side brushes 1050 mm
with 2 nozzles

Central broom 600 mm
and 1320 mm wide

DIMENSIONS

