

QVAC



QUADVAC OVERVIEW

Back-to-Black

A remarkable addition to our quality range of British manufactured road sweepers. Each and every QuadVac guarantees superior cleaning performance due to its thin aperture, full width rear suction nozzles. These rear suction nozzles follow the ground contour with high pressure water which allows for ultimate cleaning even with surface imperfections, thus making this the most versatile machine within our range.

What You Need to Know

Truck Chassis: 18 tonnes GVW

Hopper: 9.4m³ with Twin-Discharge System (Electric and PTO Operation)

Sweep Format:

- Dual Side Sweep (Left and Right) with Wide Sweep 'Belly' Brush and QuadVac Nozzles. **Dual-Sweep Recommended*
- Single Side Sweep (Left or Right) Also Available.
- Overhead Wander Hose 4.2m Reach Available, 150mm and 200mm, Manual or Hydraulically-operated. **150mm Recommended*

Sweep Path: Max 3,650mm.

Sweep Speed: 2 to 16kph.

CANbus Intelligent Sweep System

JCB Auxiliary Engine: 93kW engine.

Auxiliary Fuel Tank: 160 Litres.

Clean Water Tank: 2255 Litres.

Low Pressure Dust Suppression Water System: 35 litres/min at 3.5 bar (50 PSI).

Twin High Pressure Wash Water System: 60 litres/min at 300 bar (4400 PSI).

Service intervals: 500 hours.

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9.4m³ Capacity

The Quadvac heralds the range with the largest hopper capacity available. Standard twin-discharge system comes with every Stock sweeper. Should the auxiliary engine P.T.O. fail, our equipment has its independent electrical discharge system for additional use, if needed.

Body, Cowl and Rear Door - Stainless Steel

As with all our models the body, cowl, and rear door are fully built with corrosion and abrasion-resistant stainless steel.

2255L of Clean Water

2255L as standard, with optional 250L - 4000L additional water tanks available. *Chassis dependant

Double-Strength Subframe and Tipping Hinges

We know our sweepers have to be robust, and critical to the stability of the vehicle is its subframe and tipping hinges. Twice the typical steel is used to ensure maximum stability on uneven ground.

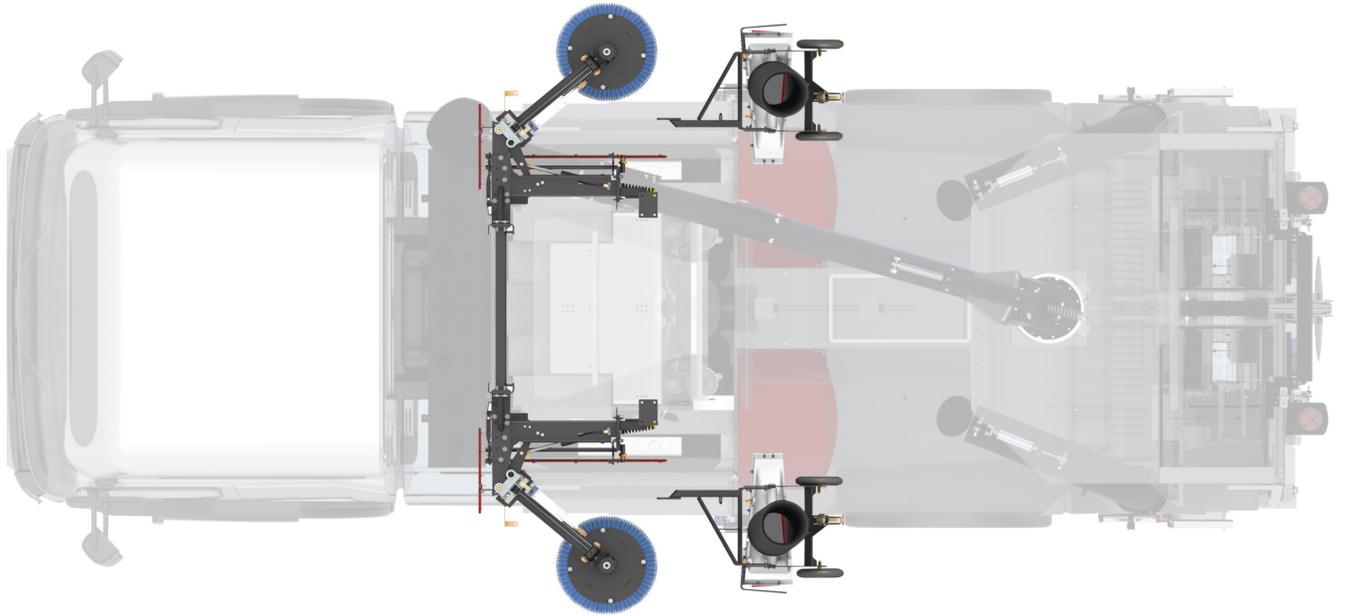
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QUADVAC AUXILIARY ENGINE

JCB 93kW

| | |
|-------------------------------------|---------------------------|
| Maximum Rating (Gross Intermittent) | <i>93kW (125hp)</i> |
| At Speed | <i>2200 rpm</i> |
| Peak Torque | <i>525 Nm (387 lb-ft)</i> |
| Peak Torque Speed | <i>1300 rpm</i> |
| Maximum No Load Governed Speed | <i>2390 rpm</i> |
| Nominal Idling Speed | <i>800 rpm</i> |
| Thermodynamic Cycle | <i>Diesel 4 Stroke</i> |
| Air Intake | <i>TCA</i> |
| Arrangement | <i>4.4L</i> |
| Nominal Bore | <i>103mm (4.06")</i> |
| Stroke | <i>132mm (5.20")</i> |



QUADVAC SWEEP PATH

Side Brush

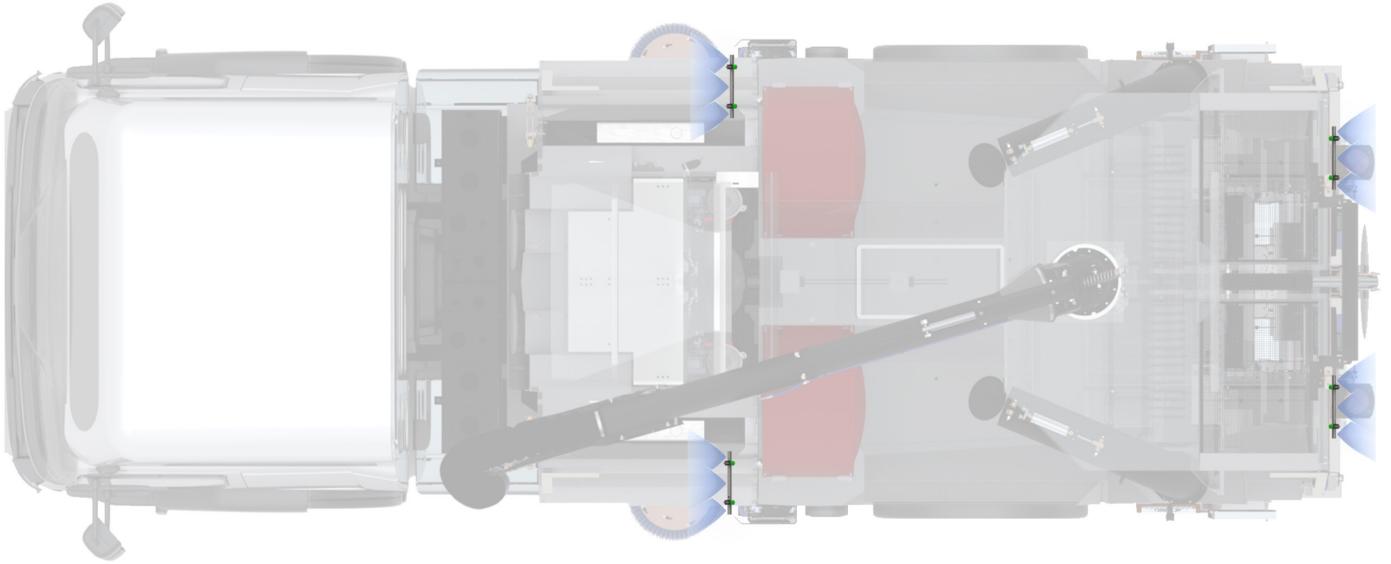
The side brush equipment is of a heavy-duty construction, and has brush speed control with 'power-down' ground pressure regulation fitted as standard. The 'power-down' feature enables the operator to scrub the road harder to remove run-in and compacted dirt. The side brushes have fully adjustable sideways positioning and simultaneous side brush rotation operation to ensure you sweep efficiently, even in awkward situations. The QuadVac has an impressive overall sweep width of 3650mm and allows the QuadVac to clean many roads in a single pass.

Wide Sweep Brush

The 400mm-diameter by 1300mm-long wide sweep brush has a fully adjustable ground pressure regulation system. The system is set on 4 regulators (2 for left hand sweeping and 2 for right hand sweeping). This enables the operator to switch from left to right-hand sweeping operations without the need to leave the cab of the vehicle and readjust the brush. Fitted with 'power-down' the wide sweep brushes perform efficiently on run-in and stubborn compacted dirt. The wide sweep brush canopy and guards are robustly constructed from 4mm powder-primed and powder coated mild steel ensuring maximum life expectancy.

Opposed Sweep Function

With one-touch operation, the wide sweep brush can be switched to push material away from the suction nozzle. This simple innovation improved road planing productivity by up to 60%.



Dust Suppression System

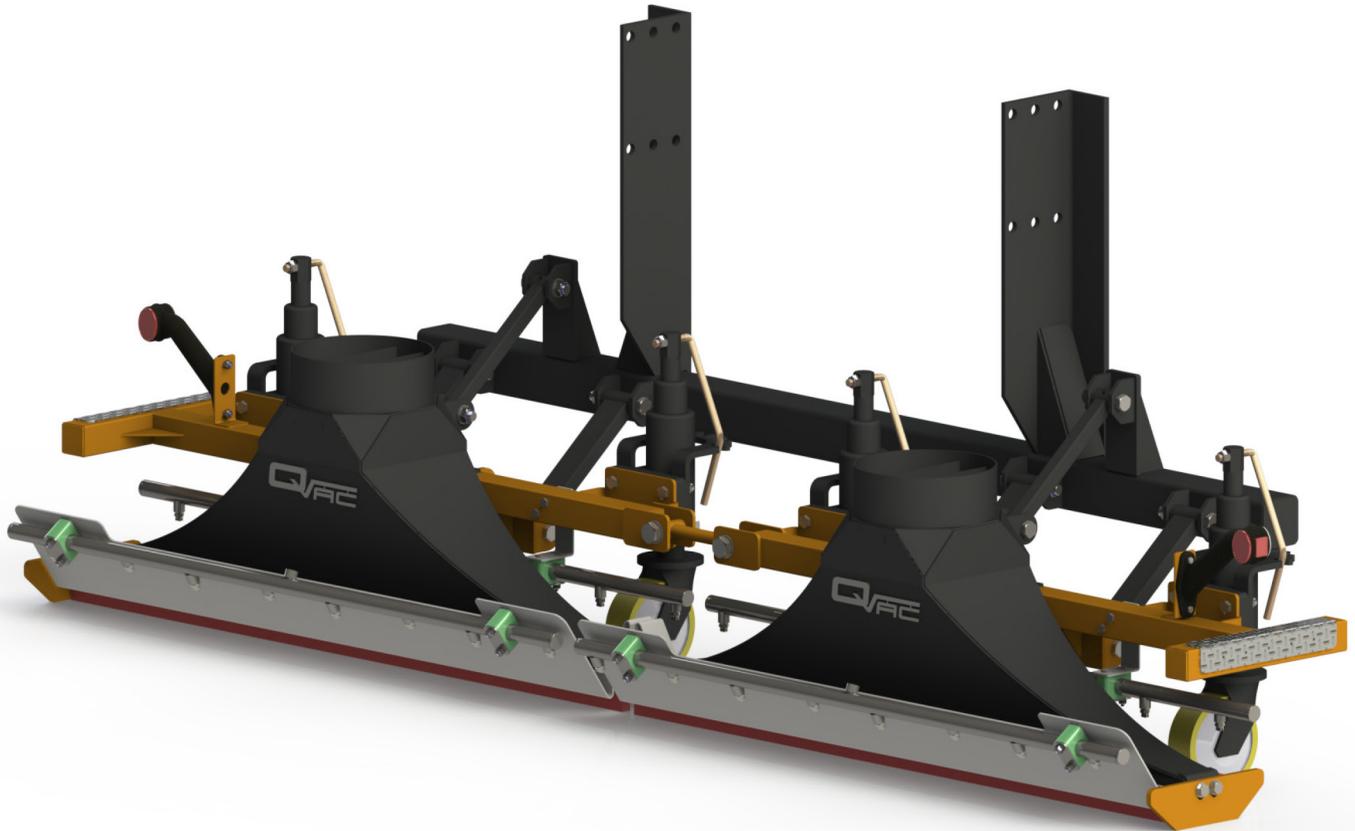
The self-priming, low-pressure water dust suppression pump ensures dust-free collection of all swept material. Water can be injected directly into the suction box, towards the side brush, and across the front of the vehicle. The dust suppression system delivers 35 litres/min at 3.5 bar (50 psi).

Twin High Pressure Wash System

The Quadvac is equipped with two high pressure water pumps, one dedicated to each rear suction nozzle offering maximum pressure where it's needed for ultimate cleaning results.

Each pump delivers 30 litres/min at 150 bar (2,200 psi) and let's not forget even when the QuadVac nozzles aren't in use it still incorporates a hand lance with 15 metres of hose, suction box spray bars, front spray bar and wide sweep brush spray bar.

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QUADVAC SUCTION

QuadVac Nozzle Suction

The side suction boxes are constructed of cast aluminium with a 4mm moulded vulcanized wear-resistant rubber lining. Each of the two side boxes can be raised or lowered, and be tilted backwards at the flick of a switch, to make the pick-up of larger material effortless.

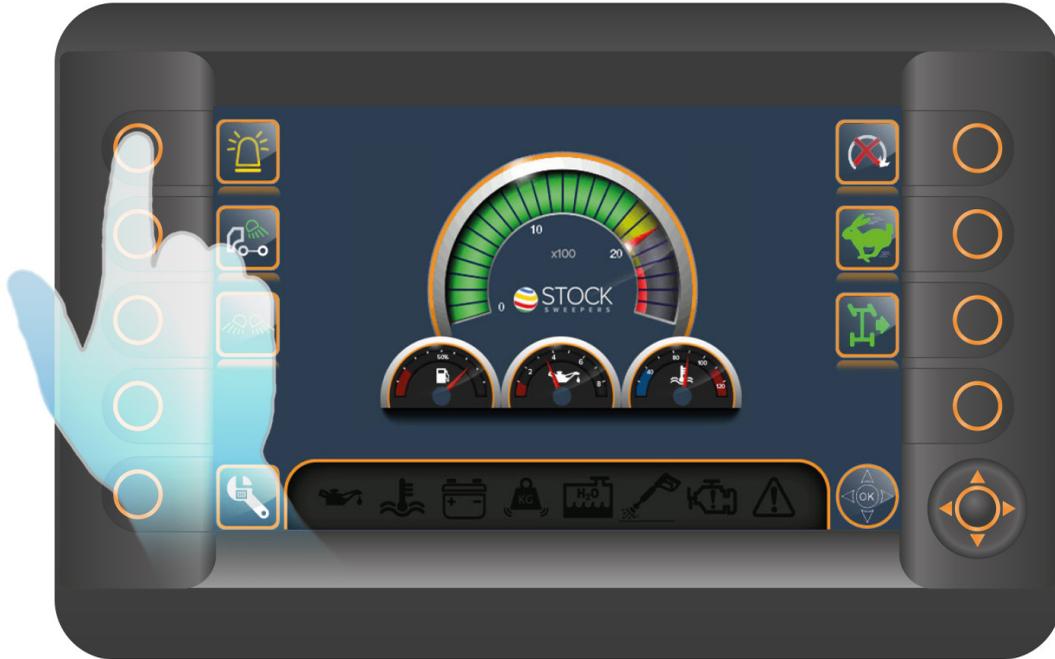
The rear thin aperture, full width suction nozzles differ in construction from the side suction nozzles as they are manufactured from mild steel and coated in a stronger polyurethane lining to resist the increased airflow velocity travelling through the box.

Overhead Suction

The overhead wander hose has a 4.2 metre reach that can be used for many operations; from cleaning catch-pits and road gullies, to picking litter and leaf collection. To ensure the wander hose does not become too heavy in operation, it is fitted with a counter- balancing spring system.

Screen Shakers ‘Healthy Airflow’

Rear mesh screen shakers are another standard fitment. They enable the operator to clean the rear screens every time the rear door is opened both screens are lowered automatically making thorough washing of the screens an easy task. This is essential to maximise the sweepers suction and will minimise unnecessary engine and equipment wear. The screens can also be operated with the rear door closed using the ‘quick clean’ function. This is done by unclipping the handle and pulling down sharply on the rear cables to shake the screens free from dirt and leaf build-up while away from tip access.



QUADVAC CONTROLS

CANbus Operating System

The Quadvac's equipment is activated via an operator's electronic CANbus control panel, which has been designed and installed with operator ergonomics in mind. The easy-to-use panel allows the operator to set their preferred settings, which are then activated by one-touch operation on the iSweep system, mounted near the driver's door.

iSweep

This smaller touch sensitive control panel is conveniently mounted near the operator's side window, helping to reduce the level of distraction to the operator to an absolute minimum. Full control simply rests at the operators finger tips.