**Data and Performance Information**

### VT - Engine Data
- **Model:** JCB Ecomax 444 Stage 5
- **Cubic capacity:** 3 litres
- **No. of cylinders:** 4
- **Gross rated power:** 55kW @ 2200 rpm
- **Maximum torque:** 410Nm @ 1200 rpm
- **Legislation compliance:** NRMM Stage 5 EC directive 97/68EC

### Capacities
- **Hopper voided volume:** 6.5 m³ nominal
- **Payload capacity:** 6 Tonnes (chassis dependent)
- **Fuel tank:** Up to 190 litres
- **Water tank:** 1554 litres
- **Hydraulic system:** VT: 61 litres - VS/VM: 75 litres

### Sweeping Equipment
- **Channel brush (CB):** Ø 500 mm (Ø 650 - 710 mm Option)
- **Wide sweep brush (WSB):** Ø 406 mm
- **Nozzle trunking diameter:** Ø 250 mm
- **Nozzle width:** 750 mm

### VS - Engine Data
- **Transmission pump:** 55 cc/rev. variable output
- **Pump pressure:** 420 bar forward (350 bar reverse)
- **Transmission motor:** 160 cc/rev variable
- **Work input speed:** Up to 1700 rpm
- **Fan pump:** 57 cc/rev variable output
- **Fan pump input speed:** Up to 2400 rpm @ 1600 rpm engine
- **Fan pump pressure:** ≤ 240 bar
- **Fan motor:** 40 cc/rev (bent axis)

### General Data
- **Chassis requirement:** 13-18 Tonnes
- **Wheelbase:** 3150 mm nominal
- **Discharge height:** 950 mm nominal - chassis dependent
- **Discharge angle:** 54° nominal
- **Door opening angle:** 125° nominal
- **Dust spray pump output:** Up to 350/min
- **Dust spray water pressure:** 3.5 bar
- **VS Hydrostatic Transit:** 0 - 40 km/h (chassis dependent)
- **VS Hydrostatic Workmode:** 0 - 18 km/h

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*Typical - Chassis Dependant

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Due to continuous product development Johnston Sweepers reserves the right to alter specifications without prior notice.
### Technical Specification

#### VT - Aux Engine Powapak
- Engine
- Cooling fan
- Splined shaft
- Exhauster fan impeller
- Step-up gearbox
- Fluid flywheel coupling
- Gear driven hydraulic pump

#### VS - Hydrodrive Gearbox Configuration
- Hydrodrive gearbox
- Vehicle transmission pump
- Vehicle transmission motor
- Exhauster fan pump
- Sweeping function pump (SF)
- Additional/optional equipment pump (AOP)

#### VM - Hydraulic Fan Pump
- Drive shaft from chassis PTO
- Fan pump
- Gear pump(s)

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### Base specification

#### Performance data

**Exhauster fan:** Operational speed variable between 2400 rpm - 3500rpm to suit operation. VT: Step-up gearbox ratio: 1.79:1

**Channel brush:** Quick release brush system with infinitely variable speed up to 160 rpm (cab controlled). Hi-visibility yellow brush plate and hose guide

**Nozzle:** Cast aluminium nozzle with 250mm diameter inlet and tool free adjustment

**Wide sweep brush:** Quick release brush system with a nominal 160rpm rotation speed

**Dust suppression system:** Dust suppression sprays located at suction nozzle(s), channel brush(es) and across front of vehicle, Pressadrain water purging system. EUnted PM10 4° Certified

**Electrical system:** 24 volt. All external loom connections are full automotive IP67 rated.

### Controls:
Centre cab mounted master control panel with Johnston Video Monitor (JVM) providing information on a wide range of sweeper functions plus data capture download. Up to four optional cameras can also be viewed on the JVM screen. Separate palm rest controller housing controls for the main sweeping functions is mounted on the door side.

**In cab noise:** <75 dB(A) generally (dependent on chassis selection).

**Exterior noise / Sound power level:**
- \( L_{WA} \) 108 dB(A) for standard power engines measured in accordance with EC directive 2000/14/EC.
- \( L_{WA} \) 112 dB(A) for high power engines measured in accordance with EC directive 2000/14/EC.

### Body & Cowl

Cowling is lined with frequency matched soundproofing material. Water tank incorporates anti-surge baffles and filled via a type ‘A’ water hydrant fill. A twin diaphragm pump runs continuously and is able to run dry. Water tight twin lock rear door latching system with de-watering function. Two body side access doors and side storage lockers

Plug in hopper floor as transfer port for use as Streetwasher.

Rear discharge chute, automatic multi position body prop, twin caged rear beacons and LED worklights are standard features.

### Optional equipment
- JCB Dieselmax 444 NRMM Stage 3a. Gross power 85kW @ 2200 rpm. Max torque 440 Nm @ 1300 rpm. (Not available in EU, 24V only)
- JCB Ecomax 444 NRMM Stage 4. Gross power 93kW @ 2200 rpm. Max torque 550Nm @ 1500 rpm.
- Camera monitoring systems.
- Littasnatch.
- Microtrap dust suppression system.
- Powathrust/Powasave.
- Pneumatic mesh shakers.
- Powascrub - wide sweep brush ground pressure device.
- Supawash - high pressure washing system (32 l/min @ 100 bar), c/w Handlance, reel, 15m hose. Also available with nozzle spraybars.
- 6" or 8" boom mounted Wanderhose with power assist option.
- SmartLink.

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A comprehensive range of additional options is available. Please ask for details.