

Specification Sheet

VT650 Sweeper

Series VT650 Sweeper

Subject Technical Information & Data

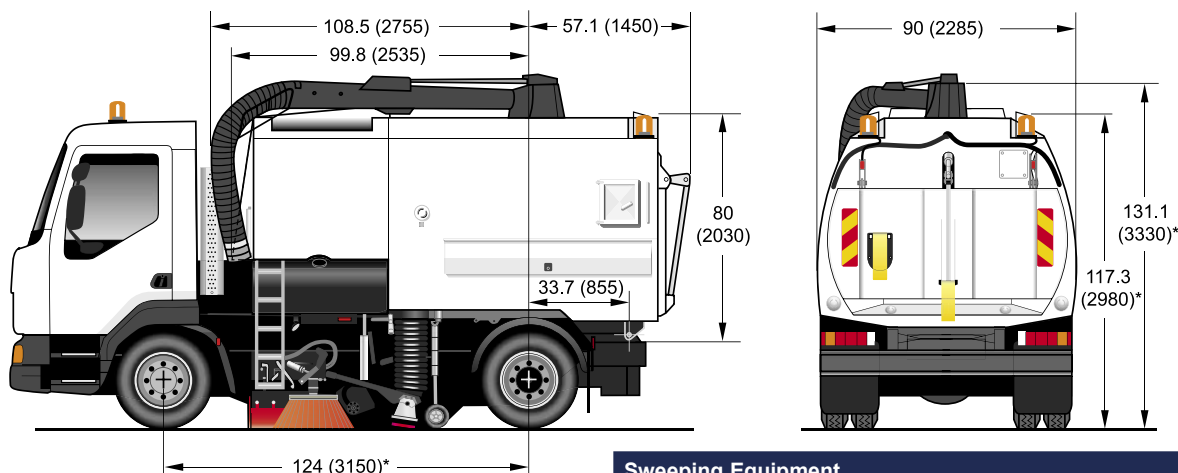
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Dimensions in inches (mm)



Data and Performance Information

Engine Data

Model	JD404ST
Cubic capacity	275 cu. in. (4.485 litres)
Gross rated power	99 HP@2200 RPM (60kW @ 2300 rpm)
Maximum torque	287 id-ft@1400 RPM (320Nm @ 1400 rpm)
Legislation compliance	NRMM Tier 2 EC directive 97/68EC
Operational rpm	Variable between 1200-2000rpm
Ambient temperature	50°C worldwide approval
Cold start capability	-15°C

Capacities

Hopper voided volume	229.5 cu. ft. (6.5m³ nominal)
Payload voided volume	201.3 cu. ft. (5.7m³ nominal)
Payload capacity	6 Tonnes (chassis dependant)
Fuel tank	50.2 Gal (190 litres)
Water tank	343.4 Gal (1300 litres)
Hydraulic system	19.8 Gal (75 litres)

Sweeping Equipment

Channel brush (CB)	Ø 19.7 in. (Ø 25.6 - 28 in. Options) (Ø 500mm (Ø 650-710 options))
Wide sweep brush (WSB)	Ø 16 in. (406mm)
CB life expectancy	80 accumulated working hours (nom)
WSB life expectancy	150 accumulated working hours (nom)
Nozzle trunking diameter	Ø 9.8 in. (250mm)
Nozzle width	29.5 in. (750mm)

General Data

Chassis requirement	13-15 Tonnes
Wheelbase	124 in. (3150mm) nominal
Dump height	39.4 in. (1000 mm) (nom) chassis dependent
Dump angle	54° nominal
Door opening angle	125° nominal
Filter mesh area	11.3 sq. ft. (1.05m²)
Dust spray pump output	Up to 9.2 gpm (35l/min)
Dust spray water pressure	50 psi (3.5 bar)
Hydraulic suction filtration	125 micron
Hydraulic return filtration	25 micron
Hydraulic pump displacement	1.02 cu. in/rev max output 8.5 Gal (16.8 cc/rev. max output 32 litres)

Due to continuous product development Allianz Sweepers reserves the right to alter specifications without prior notice.



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Technical Specification

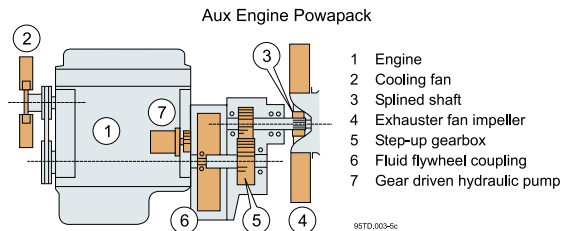


Illustration of water re-circulation system

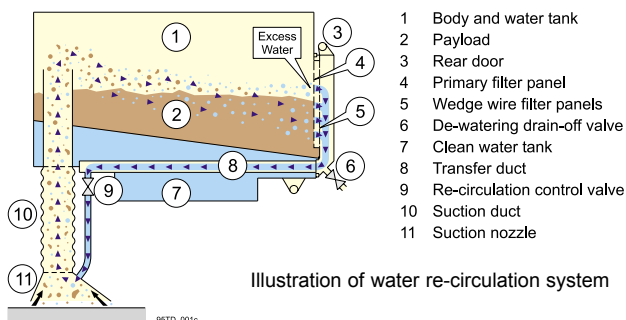
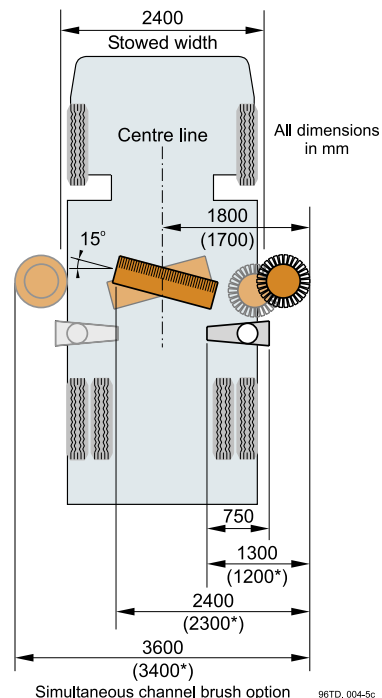


Illustration of water re-circulation system



* If Ø500 brushes specified, use dimensions in (brackets).

Base specification

Performance data

Exhauster fan:

Heavy duty, dynamically balanced impeller with multivane corrosion resistant blades.

Operational speed variable between 2400 rpm - 3500rpm to suit operation. Driven from the auxiliary engine via step-up gearbox and fluid flywheel coupling.

Step-up gearbox ratio: 1.79:1

Channel brush:

Quick release brush system with variable speed up to 120rpm (cab controlled)

Nozzle:

Low noise suction system with 9.8 in. (250mm) diameter inlet, 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.

Electrical system:

24 volt

All external loom connections are full automotive IP67 rated.

Controls:

Cab mounted master control panel housing sweep controls condition status indicator lamps, including:

- Raised hopper warning
- Auxiliary engine hour counter
- Equipment fuel gauge
- Low level lost water
- Engine tachograph meter
- Low level hydraulic oil indicator

In cab noise:

<75 dB(A) generally (dependent on chassis selection)

Exterior noise / Sound power level:

L_{WA} 110 dB(A) for naturally aspirated engine measured in accordance with EC directive 2000/14/EC.

L_{WA} 112 dB(A) for turbocharged engine measured in accordance with EC directive 2000/14/EC.

Body

Comprises of hopper, integral water tank and engine cowl. Fabricated from heavy duty 4mm thick stainless steel plate.

Cowling is lined with frequency matched soundproofing material.

Water tank incorporates anti-surge baffles and filled via a type 'A' water hydrant fill.

Water tight twin lock rear door latching system with de-watering function. Two body side access doors.

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

Rear discharge chute, twin rear caged beacons.

Automatic multi position body propping mechanism (with manual retract).

Optional equipment

- 115 HP John Deere engines
- Supawash - high pressure washing system 8 GPM @ 1450 psi (30 l/min @ 100 bar). Handlance, hose reel, front and nozzle spraybars.
- Variabrush - variable channel brush positioning system.
- Powathrust/Powasave.
- Pneumatic filter mesh shakers.
- Simultaneous sweep (both channel brushes operating at same time).
- Powascrub - wide sweep brush ground pressure device.
- Microtrap dust suppression system.
- Water recirculation.

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

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