

Specification Sheet

VS500 Sweeper

Series VS500 Suction Sweeper - Single Engine
DAF LF45

Sheet: 1 of 2
Date: September 2009

Subject Technical Information & Data



Capacity	
Hopper voided volume	5.0m ³ nominal
Payload voided volume	4.3m ³ nominal
Payload*	4365 kg
Fuel tank	190 litres
Water tank	1000 litres

Hydraulic Gearbox Data	
Propulsion pump	55 cc/rev. variable output
Pump pressure	420 bar forward (350 bar reverse)
Propulsion motor	160 cc/rev variable
Work input speed	Up to 1700rpm
Input ratio	49:34
Output ratio	64:19
Hydraulic suction filtration	125 µm
Boost canister filtration	10 ~ 20 µm absolute
Oil cooler fan speed	2150rpm @ 1600rpm engine

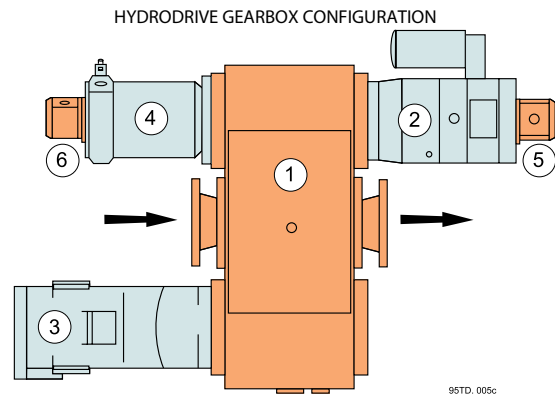
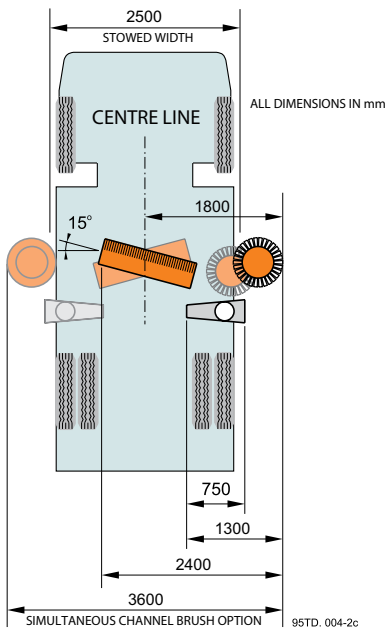
Fan Pump/Motor Data	
Pump	57 cc/rev variable output
Input speed	Up to 2300rpm @ 1600rpm engine
Pressure	145 ~ 175 bar
Motor	40 cc/rev (bent axis)

Sweeping Equipment	
Channel brush (CB)	ø 650mm
Wide sweep brush (WSB)	ø 340mm
CB life expectancy	80 accumulated working hours (nom)
WSB life expectancy	150 accumulated working hours (nom)
Nozzle trunking diameter	ø 250mm
Nozzle width	750mm

General Data	
Chassis GVM	12000 kg
Wheelbase	3550mm
Engine Model	GR165
Type	6 cyl. 6.7 litres
Power	165kW (224hp) @ 1900rpm
Torque	850Nm @ 1200 ~ 1700rpm
Emission Level	Euro 5 with SCR
Dump angle	55°
Door opening angle	125°
Filter mesh area	1.05m ²
Sweeping speeds	0 ~ 15kph
Hydrostatic transmission	0 ~ 45kph (nom) forward - 'work mode' 0 ~ 10kph (nom) reverse
Gradeability - 'work mode'	>20% forward >15% reverse

*Subject to loading conditions and waste type.

Technical Specification



KEY

- 1 - HYDRODRIVE GEARBOX
- 2 - VEHICLE PROPULSION PUMP
- 3 - VEHICLE PROPULSION MOTOR
- 4 - EXHAUSTER FAN PUMP
- 5 - SWEEPING FUNCTION PUMP (SF)
- 6 - ADDITIONAL / OPTIONAL EQUIPMENT PUMP (AOP)

Base Specification

Performance data

Exhauster fan

Heavy duty, dynamically balanced impeller with multivane corrosion resistant blades. Operational speed variable between 2400rpm – 3500rpm to suit operation. Driven from Johnston gearbox and pump unit combination.

Channel brush

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

Nozzle

Low noise suction system with 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

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
- Low level lost water
- Low level hydraulic oil indicator

In cab noise

<68 dB(A) @ 1200rpm to 72dB(A) @ 1600 - 1700rpm.

Exterior noise

78 dB(A) nom at 7.5 metres from centre axis of machine chassis.

Sound power level

LWA 110 dB(A) (dependent on chassis) measured in accordance with EC directive 2000/14/EC.

Body

Comprises of hopper, integral water tank and 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).

Standard Features

Supawash - hand lance and hose reel only

Options

- Camera monitoring system
- Powascrub – wide sweep brush ground pressure device
- Screen vibrators
- Supawash – hand lance, hose reel, full width front and nozzle spraybar
- Nozzle water LH and RH
- Intake duct LH and RH
- Weed control
- High capacity water filter
- LED tail lights
- Tool box
- Broom/shovel holder
- Channel brush ø 650mm
- Rotatilt LH and RH

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