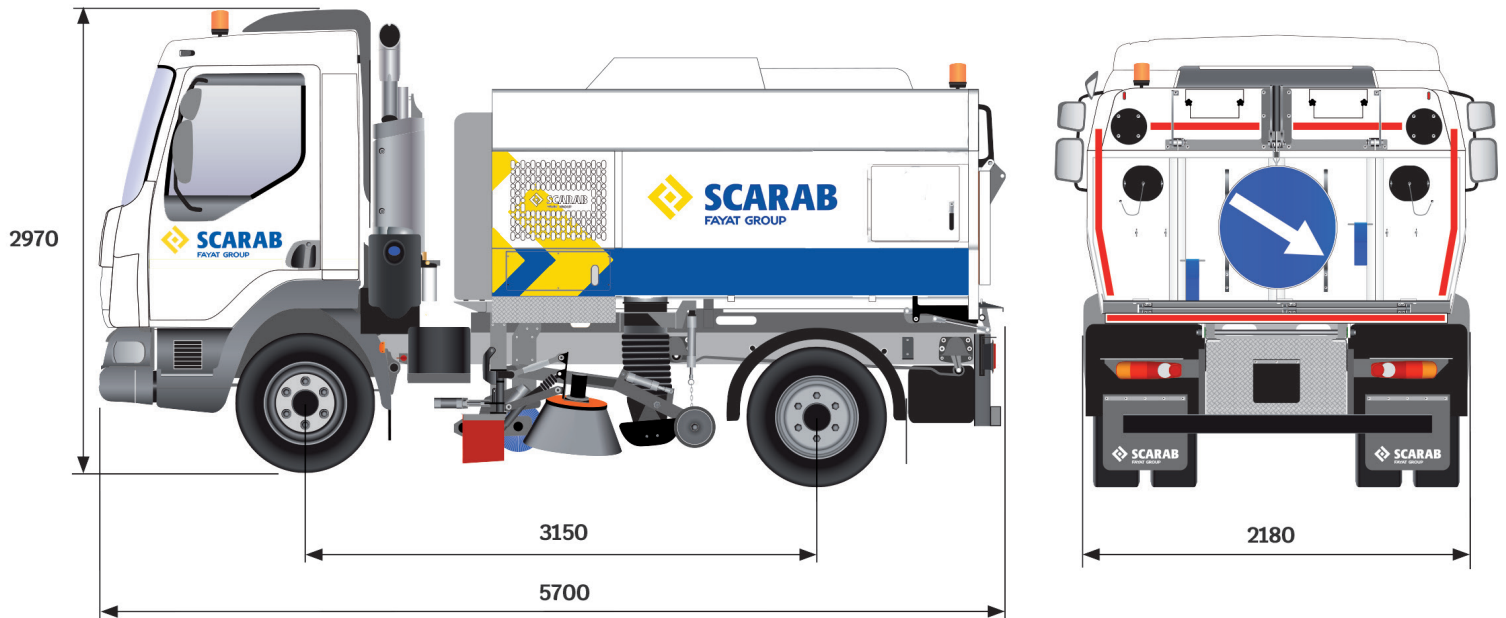


# MERLIN 55

## DIMENSIONS, WEIGHT, CAPACITIES



All Dimensions in mm



Dimensions representative and may vary according to chassis type selected

### GENERAL DATA

Chassis Requirement	7.5 Tonne GVW
Wheelbase	3150mm
Overall Length*	5700mm
Overall Height*	2970mm
Discharge Height	950mm
Discharge Angle	45 degrees
Door Opening Angle	90 degrees
Filter Mesh Type	Perforated Steel
Low Pressure Pump Output	22.7 lpm / 4.8 Bar
Hydraulic Suction Filtration	125 Micron
Hydraulic Return Filtration	20 micron
Fan Pump Displacement	45cc / rev
Gear Pump(s) Displacement	23cc / rev
Suction Fan Capacity	6000 ft <sup>3</sup> /min / 170m <sup>3</sup> /min
Suction Fan Diameter	905.5mm
Sweeping Speed	0-20mph / 0-32kph

### SWEEPING EQUIPMENT

Side Brush Diameter	500mm
Widesweep Brush Diameter	320mm
Side Brush Speed	0-125rpm Fully Variable
Widesweep Brush Speed	0-125rpm Fully Variable
Side Brush Life Expectancy	80 Working Hours
Widesweep Life Expectancy	125 Working Hours
Suction Tube Diameter	250mm
Nozzle Width	740mm

### CAPABILITIES

Hopper Voided Volume**	5.5m <sup>3</sup>
Hopper Payload Volume**	4.7m <sup>3</sup>
Actual Payload Capacity*	2100-2300kg
Fuel Tank*	115 litres
Water Tank	900 litres
Hydraulic Tank	25 litres
Hydrostatic Gearbox	5 litres

\*Dependent on chassis selected

\*\* All Scarab Hopper Capacities are measured in accordance with European Standard EN15429

# TECHNICAL SPECIFICATION

## MERLIN 55

Scarab Sweepers Ltd,  
Pattenden Lane, Marden,  
Kent. TN12 9QD  
Tel: +44 (0)1622 831006  
Fax: +44 (0)1622 832417

[www.scarab-sweepers.com](http://www.scarab-sweepers.com)

### HYDROSTATIC SYSTEM

- Infinitely variable speed control to optimise sweeping
- Engine only needs to be running at approx. 1200rpm ensuring long life
- Selection of hydrostatic forward and reverse by single lever
- Vehicle speed from zero up to 15 - 20mph (20 - 32kph)
- 20% gradeability fully laden
- Uses single (vehicle) engine to ensure low fuel consumption and emissions

### SUCTION FAN

- 905.5mm diameter
- Up to 2000rpm, low noise. 2000rpm boost, hi-power.
- Capacity 6000 ft<sup>3</sup>/min (170m<sup>3</sup>/min)
- Stainless steel standard

### SUCTION NOZZLE

- Robust all-steel construction
- 740mm mouth width
- 250mm diameter suction tube
- Adjustable wear-resistant flaps
- Low-Pressure water jets
- Heavy Duty rubber-tyred wheels
- Hydraulic tilt

### BRUSHES

- 500mm diameter steel-tined side brushes
- 320mm diameter polypropylene-segmented widesweeper
- Fully proportioned variable speed to all brushes from 0-125rpm in the cab

### HOPPER

- 5.5m<sup>3</sup> gross hopper volume, constructed entirely of corrosion-resistant stainless steel
- Hydraulically-operated rear door with safety check valve
- Twin side loading doors
- Automatic self-deploying hopper prop

- Twin body drains at different levels
- Auto-blanking flaps to suction tubes
- Stainless steel swing-down mesh suction filter screen
- Access for suction fan cleaning

### HYDRAULIC SYSTEM

- In plated steel piping where possible
- 10 micron filters to ensure maximum protection
- Hydraulic valve block in easily accessible location
- 25 litre steel oil tank with 10 micron return filter
- Low oil automatic shut-off
- Sight glass

### WATER SYSTEM

- Self-priming low pressure water pump for dust suppression
- Solenoid-controlled valving from the CANbus system

### WATER TANK

- 900 litre GRP water tank with large access lid for cleaning
- Sight glass with level indicator
- Hydrant connector with regulation air break

### SWEEPING WIDTHS

Suction Nozzle only	740mm
Suction Nozzle and Side Brush	1135mm
Suction Nozzle, Side Brush and Widesweep	2290mm
Both Nozzles, Both Side Brushes and Widesweep	2850mm

### OPTIONS

A comprehensive Options List is available for the Merlin 55.  
*Please contact the Scarab Sales Department for more information.*

### PNEUMATIC SYSTEM

- Fitted with a pressure regulator, filter/ water separator
- Pneumatic solenoid valves to control the side brush, wide sweep brush, suction nozzle and gear change
- Located for easy servicing in a protected compartment

### CAN BUS CONTROL

The Scarab proven CANbus system, in service since 2003, offers a compact panel adjacent to the driver's seat which contains all controls for operating the main sweeper functions. The LCD screen displays relevant operating data and provides system diagnostics and a fault-finding facility. The Satellite control panel - for frequently used operations - is mounted conveniently to hand, and incorporates the forward/reverse selector.

### PM CERTIFICATION

The Merlin 55 has been awarded a 3\* EU nited PM10/2.5 certification.

