



SCARAB
FAYAT GROUP

SCARAB M6





ECONOMICAL & ROBUST

THE SCARAB M6



Essential Simplicity

The M6 is designed to incorporate all the essential features of a heavy duty sweeper capable of being mounted onto virtually any internationally available 13 to 18 tonne GVW truck chassis.

Incorporating all the benefits associated with Scarab equipment, the rugged construction and a carefully selected range of options ensure the M6 delivers outstanding performance in municipal, urban or contracting work.

The M6 can be supplied as a completely built machine from the factory or for specific markets can be supplied as an Export Skid Unit for local mounting in the country of destination.

Whatever the application, wherever the location, the M6 is a cost-effective solution for the demanding owner.

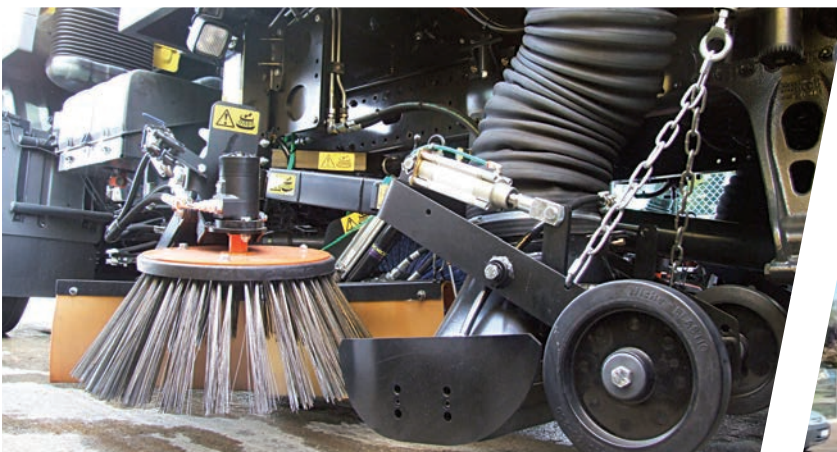
Trailed widesweep brush is adjustment-free and designed to ensure parallel usage.

Trailed, robust steel suction nozzle for durability. Adjustable dust-suppression jets.

Short suction hoses are an easy and low-cost replacement and are simple to clean.

Trailed channel brush mechanism with adjustable brush-pressure control option.

Self-contained design simplifies installation and commissioning.





Easy access to auxiliary engine and all filters and fluid filler / top-up points.

The hopper is completely manufactured from abrasion resisting Stainless Steel.

Combined rear door operating and three-point clamping system, to ensure effective sealing.

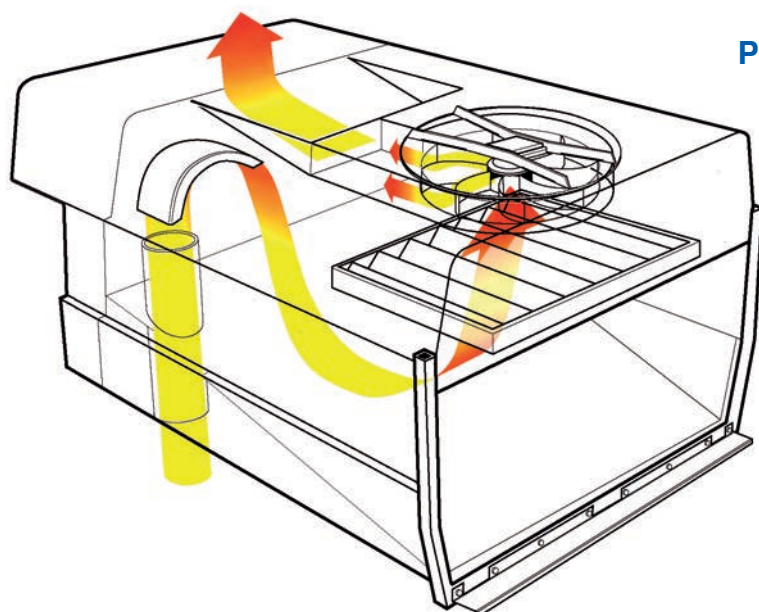
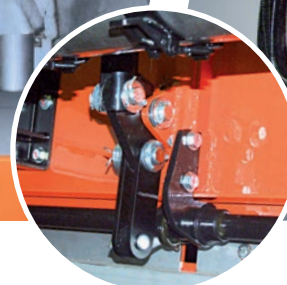
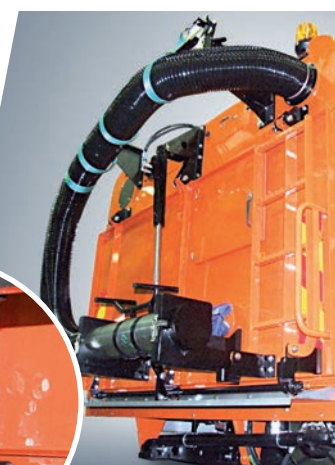
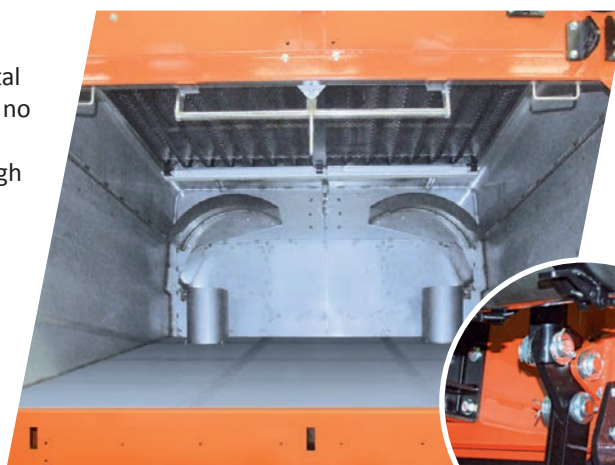


Customer-focused Support

We believe that first class product support is vital and our reputation for excellence in this field is no accident.

Our commitment to the customer shines through at every level:

- *International Distributor Network*
- *Fast-track Spare Parts Service*
- *Long-term Supply Guarantee*
- *Technical Training Courses*
- *Product Support Packages*
- *On-line Support Manuals*
- *Full Operator Instruction*



Powerful & Reliable Suction Performance

A centrifugal impellor positioned to produce an efficient airflow path for high suction performance and reduced power consumption. Fan chamber is easily accessed for cleaning.

Particulate screening via a hinged, mesh filter, pleated to give maximum surface area and reduce blocking - swings down for ease of cleaning.

POWER & CONTROL

SIMPLE, RELIABLE

TwinDrive

The M6 has been designed for operators who prefer a twin-engine configuration but who also wish to benefit from the very best in sweeper technology.

All the qualities that make Scarab the sweeper of choice for so many operators are incorporated in the M6.

The simple fluid power system and Scarab's industry-leading CANbus control reduce ownership costs and maximise reliability.

Quiet, efficient power in a self-contained unit

Auxiliary Engine

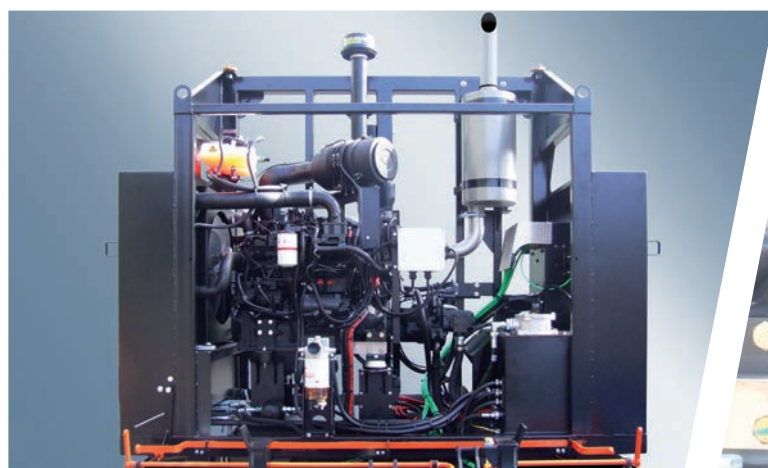
The low-emission engine was selected for its ability to provide ample power at low revolutions.

Its position, between hopper and cab, affords ease of access for servicing. All engine filters and main service points can be reached from the large working platform or by additionally removing the forward easy-access panel.

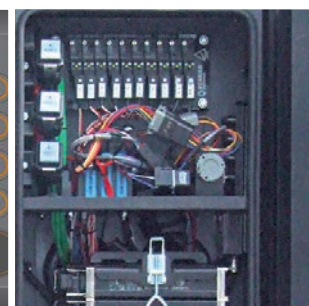
Hydraulic System

The Scarab fluid drive system is directly coupled to the auxiliary engine. By eliminating drive belts, gearboxes and flywheel couplings, it ensures quiet, efficient sweeping and suction performance and a high degree of reliability.

All the hydraulic control components are housed in a secure locker.



Command & Control



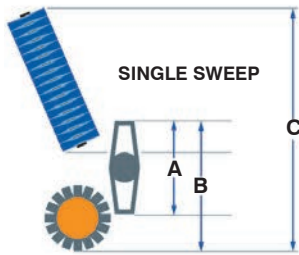
Scarab's CANbus control system has revolutionised the way sweepers are operated and maintained. Intuitive controls and a conveniently positioned colour monitor provide comprehensive levels of feedback to both operating and service

personnel. A graphical display indicates the sweeping configuration and conditions of the vehicle systems including warnings and regular service reminders. Real-time monitoring and data-logging provides valuable assistance

in resolving problems and achieving optimum machine performance. Scarab CANbus includes universal connectors for fitment of Global positioning System (GPS) and the option of real-time data via telematic up-link.

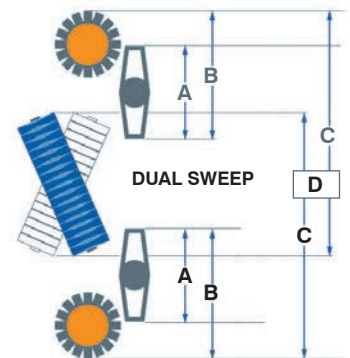
STANDARD M6 FEATURES

SWEEPING WIDTHS (Based on a typical 15 tonne GVW chassis)



- | | | |
|---|--------------------------------------|---------|
| A | Suction Nozzle Only..... | 740 mm |
| B | Nozzle & Side Brush | 1135 mm |
| C | Nozzle, Side Brush & Widesweep | 2075 mm |
| D | Simultaneous Dual Sweep..... | 3200 mm |

Slight variations to the foregoing dimensions can occur according to individual chassis specifications



WEIGHTS & DIMENSIONS

TYPICAL PAYLOAD POTENTIAL

STANDARD SPECIFICATION 15 Tonne - 6000 kg / 18 tonne - 9000 kg

SCARAB EQUIPMENT WEIGHT

IN DUAL SWEEP CONFIGURATION 3500 kg

TYPICAL DIMENSIONAL DATA

LENGTH OVERALL 6000 mm
 WHEELBASE 3300- 3800 mm
 WIDTH OVERALL..... 2220 - 2300 mm
 OVERALL HEIGHT - HOPPER LOWERED/HOPPER RAISED 3410/5100 mm

CAPACITIES

HOPPERS *Gross Capacity 6.35 m³ = Nett (Payload) Capacity 5.7 m³
 WATER TANK ** 1250 litres

* Calculated in accordance with European Standard EN15429.

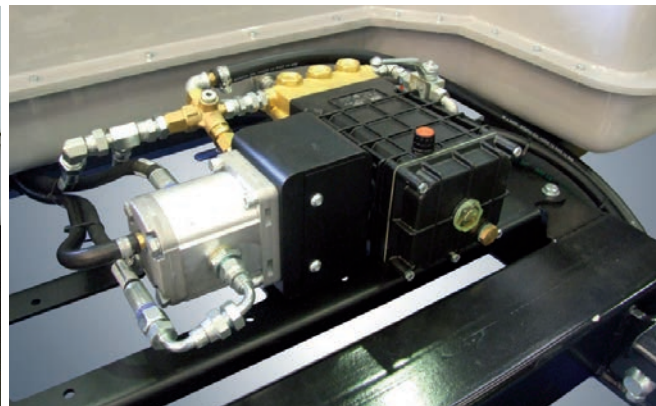
** The option of an additional water tank is available subject to chassis selected (see Options).

The M6 sweeper can be fitted to most internationally available truck chassis from from a range of manufacturers including: **DAF, HINO, INT**
 For details of all other suitable chassis types, please contact our sales department.



ENHANCEMENTS

UPGRADE YOUR M6



OPTIONS (Other options & operator specific requirements are available upon request)

WATER

- High-pressure / High Volume Pump with hand lance and self-retracting hose reel
- Additional Dust Suppression for Suction Tubes (additional jets at the top of the suction tube)
- Simultaneous Wash & Sweep
- Additional Water Tank between auxiliary engine and chassis cab

BRUSHES

- Dual Sweep (A second Channel Brush on opposite side of the sweeper + Swivelling Widesweep)
- Simultaneous Dual Sweep (both Channel Brushes + Swivelling Widesweep)
- Adjustable Pressure Control for Channel Brushes and Widesweep

SUCTION SYSTEM

- Rear-mounted swing-out Wander Boom (Left Hand or Right Hand mounting)
- Polyurethane coating of suction path components

MISCELLANEOUS

- CCTV Camera to offside brush and/or rear of vehicle
- Centralised Lubrication System (either manual or automatic)
- Alternative or additional beacons (e.g. Xenon)
- Work Lights

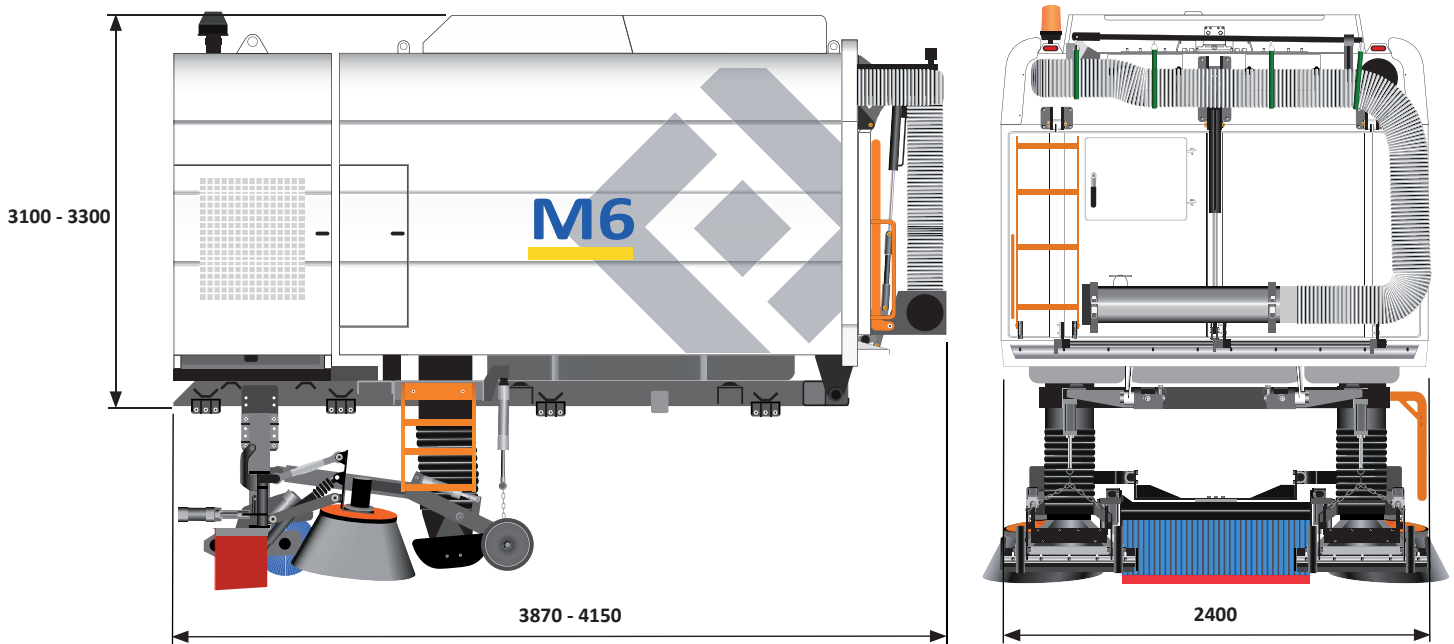
INTERNATIONAL, IVECO, KAMAZ, MAN, MERCEDES, RENAULT, UD, VOLVO and VW



Technical Specification

M6

All Dimensions in mm



Dimensions representative and may vary according to chassis type selected

General Data

Chassis Requirement	15-18 Ton GVW
Wheelbase	3260mm-3900mm
Overall Length*	6100mm
Overall Height*	3100mm
Max Height Hopper Up*	4735mm
Discharge Height*	1000mm
Discharge Angle	55 degrees
Door Opening Angle	90 degrees
Filter Mesh Type	Perforated Stainless 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	19cc / rev
Suction Fan Capacity	8300 ft ³ /min / 235 m ³ /min
Suction Fan Diameter	905.5mm
Sweeping Speed	0-20mph / 0-32 kph

Sweeping Equipment

Side Brush Diameter	600mm
Widesweep Brush Diameter	400mm
Side Brush Speed	0-125rpm Fully Variable
Widesweep Brush Speed	0-125rpm Fully Variable
Side Brush Life Expectancy	80 Working Hours
Widesweep Life Expectancy	150 Working Hours
Suction Tube Diameter	250mm
Nozzle Width	740mm

Capacities

Hopper Voided Volume**	6.35m ³
Hopper Payload Volume**	5.65m ³
Actual Payload Capacity*	7500 - 9000kg
Fuel Tank Chassis*	150 litres
Fuel Tank Auxiliary Engine	120 litres
Water Tank	1250 litres
Hydraulic Tank	40 litres

* Dependent on chassis selected

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

Scarab Sweepers Ltd, Pattenden Lane, Marden, Kent. TN12 9QD

Tel: +44 (0)1622 831006 Fax: +44 (0)1622 832417

www.scarab-sweepers.com



Technical Specification

M6

Skid Unit

Supplied as a fully-functioning Skid Unit ready for fitment onto the Customer's chassis

Twindrive System

The Twindrive system utilises a Cummins QSB 3.3 ROW secondary engine driving pumps to operate all hydraulic sweeper functions, whilst retaining the conventional chassis transmission, allowing seamless transition between sweeping and travel modes

Sweep speed from 1.6 mph (2.5 kph) up to 15 - 20 mph (20 - 32 kph)

Suction Fan

905.5mm diameter

2000rpm Standard, low noise. 2400rpm Boost, hi-power

Capacity 8300 ft³/min (235m³/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

Brushes

600mm diameter steel-tined side brushes

400mm diameter polypropylene-segmented widesweep

Fully proportional variable speed to all brushes from 0-125rpm from in the cab

Hopper

6.35m³ Gross Hopper Volume, constructed entirely of corrosion-resistant stainless steel

Hydraulically-operated rear door with safety check valve

Automatic self-deploying hopper prop

Rear body drain

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

40 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 CAN Bus system

Water Tank

1250 litre GRP water tank with access lid for cleaning

Sight glass with level indicator

Hydrant connector with regulation air break

Pneumatic System

Fitted with a pressure regulator, filter/water separator

Pneumatic solenoid valves to control the side brush, wide sweep brush and suction nozzle

Located for easy servicing in a protected compartment

CAN Bus Control

The Scarab proven CANbus system, in service since 2003

Compact panel adjacent to the driver's seat contains all

controls for operating the main sweeper functions

LCD screen displays relevant operating data and provides

system diagnostics and a fault-finding facility

Satellite control panel for frequently used operations

mounted conveniently to hand

Sweeping

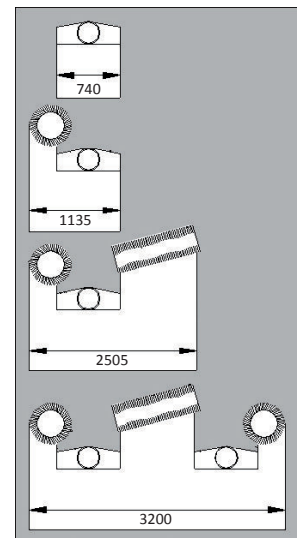
Widths

Suction Nozzle only

Suction Nozzle and Side Brush

Suction Nozzle, Side Brush and Widesweep

Both Nozzles, Both Side Brushes and Widesweep



Options

A comprehensive Options List is available for the M6, including Hi-Volume Pumps, Rear Overhead Booms and many others. Please contact the Scarab Sales Department for more information



SCARAB SWEEPERS LTD
Pattenden Lane
Marden, Tonbridge
Kent, U.K
TN12 9QD

T +44 (0) 1622 831006
F +44 (0) 1622 832417

www.scarab-fayat.com

Dealerstamp