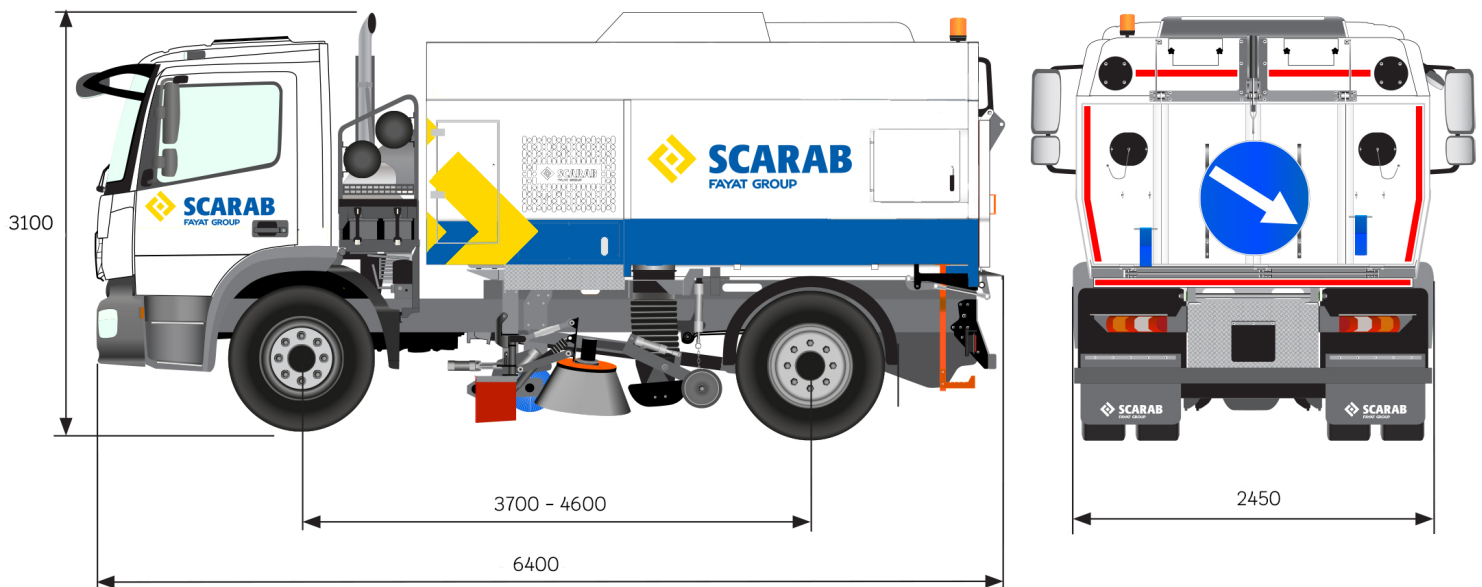


MAGNUM 82

DIMENSIONS, WEIGHT, CAPACITIES



All dimensions in mm



Dimensions representative and may vary according to chassis type selected

GENERAL DATA

Chassis Requirement	18+ tonne GVW
Wheelbase	3700 - 4600mm
Overall Length*	6400mm
Overall Height*	3100mm
Discharge Height	1300mm
Discharge Angle	45 degrees
Door Opening Angle	90 degrees
Filter Mesh Type	Perforated Steel
Low Pressure Pump Output	26 lpm/3 bar
Hydraulic Suction Filtration	125 microns
Hydraulic Return Filtration	20 microns
Fan Pump Displacement	60cc
Gear Pump(s) Displacement	2 x 23cc
Suction Fan Capacity	8300ft ³ /min, 235m ³ /min
Suction Fan Diameter	745mm
Sweeping Speed	0 - 20mph / 0 - 30kph

SWEEPING EQUIPMENT

Side Brush Diameter	650mm
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	840mm

CAPACITIES

Hopper Voided Volume**	8.2m ³
Hopper Payload Volume**	7.5m ³
Actual Payload Capacity*	7000 - 9000kg
Fuel Tank*	150 litres
Water Tank	1800 - 4000 litres
Hydraulic Tank	25 litres

*Dependent on chassis selected

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

TECHNICAL SPECIFICATION

MAGNUM 82

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

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

- 745mm diameter
- Fan speeds: Standard = 2900rpm, Boost = 3100rpm, Boost+ = 3400rpm
- Capacity 8300 ft³/min (235m³/min)
- Stainless steel standard

SUCTION NOZZLE

- Robust all-steel construction
- 840mm mouth width
- 250mm diameter suction tube
- Adjustable wear-resistant flaps
- Low-Pressure water jets
- Heavy Duty rubber-tyred wheels
- Hydraulic tilt

BRUSHES

- 650mm diameter steel-tined side brushes
- 400mm diameter polypropylene-segmented widesweeper
- Fully proportioned variable speed to all brushes from 0-125rpm in the cab

HOPPER

- 8.2m³ 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

- 1800 – 4000 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	840mm
Suction nozzle and side brush	1235mm
Suction Nozzle, side brush and widesweep	2075mm
Both nozzles, both side brushes and widesweep	3400mm

OPTIONS

The Magnum 82 is available with a range of high-performance options including high-pressure and high-volume water options, rear suction, and an articulating front spray bar.

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

CANBUS CONTROL

Our proven CANbus control 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 Magnum 82 has been awarded a 3* EUnited PM10/2.5 certification.

