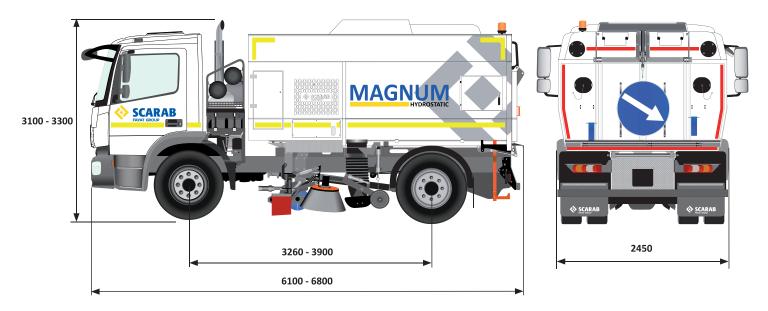
Technical Specification

Magnum Hydrostatic

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 | 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 ³ /min / 170m 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** | 7.2m³ |
| Hopper Payload Volume** | 6.5m ³ |
| Actual Payload Capacity* | 7000 - 9000kg |
| Fuel Tank* | 150 litres |
| Water Tank | 1800 litres |
| Hydraulic Tank | 25 litres |
| Hydrostatic Gearbox | 5 litres |

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



^{*} Dependent on chassis selected

Technical Specification

Magnum Hydrostatic

Hydrostatic System

Infinitely variable speed control to optimise sweeping Engine needs only to be running at approx. 1200 RPM ensuring long life

Selection of hydrostatic forward and reverse by single lever

Vehicle speed from zero up to 15 - 20 mph (20 - 32 kph) 20% gradeability fully laden

Uses single (vehicle) engine to ensure low fuel consumption and emissions

Suction Fan

905.5mm diameter 2000rpm Standard, low noise. 2200rpm Boost, hi-power Capacity 6000 ft3/min (170m3/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

7.2m³ 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 CAN Bus system

Water Tank

1800 litre GRP water tank with large 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, 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 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, and incorporates the forward/reverse selector

Sweeping Widths

Suction Nozzle only

Suction Nozzle and Side Brush

Suction Nozzle, Side Brush and Widesweep

Both Nozzles, Both Side Brushes and Widesweep

2365 2365

Options

A comprehensive Options List is available for the Magnum, including Hi-Volume Pumps, Larger Water Tanks and many others. Please contact the Scarab Sales Department for more information

