



# MAGNUM 72

Class leading performance in the 15-18 tonne GVW range, the Magnum 72 is capable of delivering powerful cleansing results in municipal, construction and road maintenance settings.



**BIG ON CAPACITY**  
**BIG ON PERFORMANCE**



# MAGNUM 72



**Big on capacity, big on performance:**

<b>SIZE:</b>	15-18 tonne GVW
<b>SWEEPING SPEED:</b>	0-20mph/0.32kph
<b>HOPPER CAPACITY:</b>	7.2 cubic metres
<b>WATER TANK:</b>	1800-2500 litres
<b>ENGINE:</b>	Single engine hydrostatic or Unidrive
<b>TYPICAL PAYLOAD:</b>	15 tonne – 7000kg 18 tonne – 9000kg
<b>SWEEP WIDTH:</b>	2365mm single/3200mm dual

**Standard specification**

- **Stainless steel hopper**
- **Scarab CANbus control panel incorporating operational information, data logging and self diagnosis**
- **1800-2500 litre corrosion resistant water tank**



Big on capacity, big on performance – heavy-duty road sweeping from 15-18 GVW.

The Magnum 72 has been designed for mounting on a truck chassis in the range of 15-18 tonne GVW and is capable of delivering powerful cleansing results in municipal, construction and road maintenance settings.

Available in both Hydrostatic and Unidrive configurations, a 7.2 cubic metre hopper giving a potential payload capacity of up to 9000kg and water capacity ranging from 1800-2500 litres, the Magnum 72 is the optimum road sweeper for any operator looking to work harder, for longer.

For the most demanding of heavy-duty applications, Scarab's optional high-speed fan solution takes the Magnum 72's performance to the next level.



## STRONG, ROBUST HOPPER

The hopper is completely manufactured from strong, corrosion and abrasion-resistant 4003 stainless steel, which is shot blasted before a two-pack epoxy primer is applied followed by a hard-wearing topcoat.

Particulate screening via a hinged stainless steel mesh filter – swings down for ease of cleaning and access to the stainless steel inlet cone.



Shot blasting the stainless steel hopper

## BIG ON CAPACITY BIG ON PERFORMANCE





- 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.
- Simultaneous dual sweep and high-pressure street wash option.



### EXTENSIVE SWEEPING CAPABILITIES

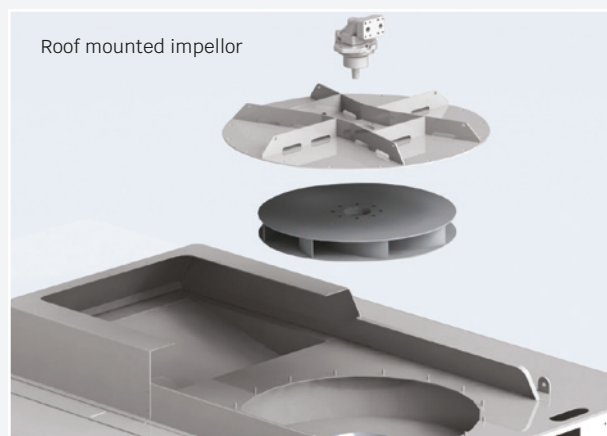
The Magnum 72 is available in both single and optional dual sweep configuration. When the suction nozzle, side brush and widesweep functions are in operation the Magnum 72 can sweep at 2365mm width. However, the brushes can reach an impressive 3200mm span when simultaneously dual sweeping.

With variable brush speeds, optional down pressure and swiveling widesweep, the Magnum 72 is proficient in any sweeping application.

### POWERFUL & RELIABLE SUCTION PERFORMANCE

A stainless steel centrifugal roof mounted impeller is positioned to produce an efficient airflow path for high suction performance and reduced power consumption. The fan chamber is easily accessed for cleaning.

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



## POWER & CONTROL

### SINGLE ENGINE, SINGLE EMISSION, NO COMPROMISE

Scarab is the pioneer of the environmentally friendly single-engine truck-mounted sweeper and continue to lead the market in this field. As a result of the single engine system, the Magnum 72 benefits from reduced fuel consumption, decreased noise and engine pollution, less weight, greater payload and reduced maintenance.



### CANBUS CONTROL SYSTEM

Scarab's CANbus control system revolutionised the way sweepers are operated and maintained. It continues to evolve today to offer market leading sweeper control.

Our latest CANbus control system offers colour coded door-pod and pedestal controls with key sweeping functions visible at a glance, and comfortably within reach. The large graphical display clearly indicates sweeping configuration and provides the user with regular updates on the vehicle, including warnings and service reminders. What's more, with real-time data-logging built into the system, you can monitor your performance and keep your sweeper functioning at its very best. Scarab's CANbus includes universal connectors for fitment of Global Positioning System (GPS) and the option of real-time data availability via telematics.

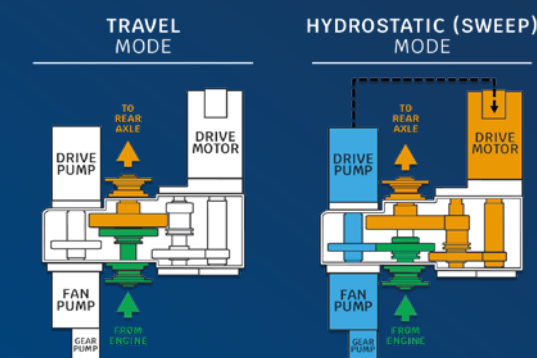
“Scarab are at the cutting edge of developing innovative solutions to be more efficient with dust collection, reducing noise pollution and lowering carbon footprints.”



## A choice of power solutions

### HYDROSTATIC SYSTEM

The Scarab designed hydrostatic gearbox is installed in the chassis driveline and allows the sweeping components to be powered directly from the chassis engine. As well bringing a range of benefits such as reduced weight, increased payload, reduced fuel consumption and lower emissions, it also offers a range of operator benefits with its simple joystick control for forward and reverse, allowing single-pedal control which reduces fatigue and enables the driver to fully concentrate on sweeping.



### UNIDRIVE SOLUTION

Our Unidrive solution uses a Power Take-Off (PTO) fitted to the truck engine to power sweeping functions. The Magnum 72 control system manages engine speed to ensure optimum sweeping performance.



## AFTER SALES SUPPORT

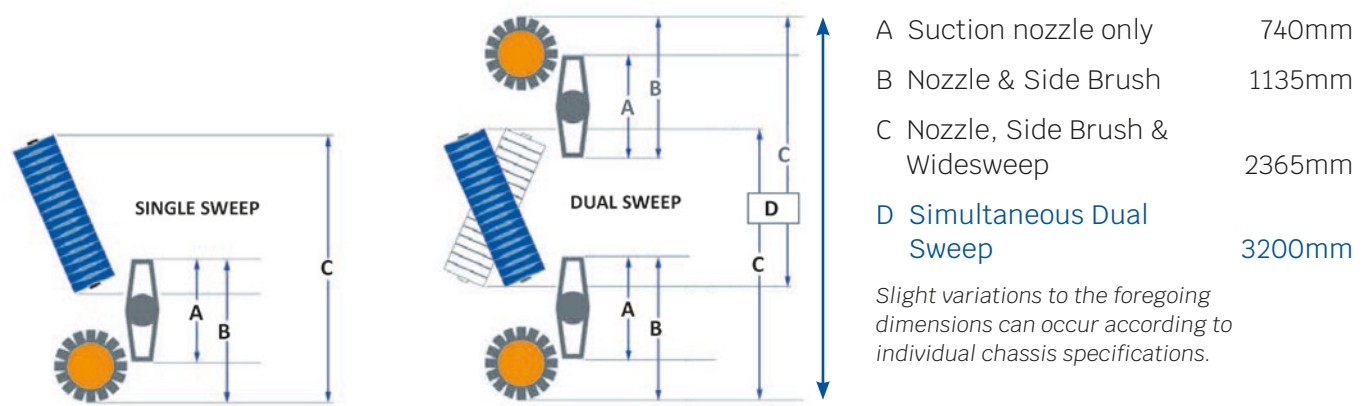
Our dedicated After Sales team are front-line ambassadors of Scarab Sweepers and it's their aim to provide you with the highest level of support for the lifetime of your vehicle, delivered through:

- **Industry renowned after sales care**
- **A range of extended warranty options**
- **A choice of 'Service', or 'Repair and Maintenance' solutions to suit your needs.**



# STANDARD FEATURES

## SWEEPING WIDTHS (based on a typical 15 tonne GVW chassis)



## WEIGHTS AND DIMENSIONS

### TYPICAL PAYLOAD POTENTIAL

Standard specification
15 tonne – 7000kg
> 18 tonne – 9000kg

### TYPICAL DIMENSIONAL DATA

Length overall	6100mm
Wheelbase	3620-3900mm
Width overall	2400mm
Overall height	
hopper lowered	3250mm
hopper raised	5000mm

### CAPACITIES

Hoppers*	Voided volume 7.2m³ Payload volume 6.5m³
Water tank**	1800-2500 litres

\* Calculated in accordance with European Standard EN15429

\*\* The option of an additional water tank is available subject to chassis selected

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# UPGRADES/ENHANCEMENTS

## OPTIONS (other options and operator specific requirements are available upon request)\*



\*Some options listed are chassis dependent

### WATER

- High-pressure/high volume pump with hand lance and self-retracting hose reel
- Overhead mounted high-pressure water boom
- Additional dust suppression for suction nozzles (A 4-jet water-boost bar in front of the nozzle)
- Additional dust suppression for suction tubes (four additional jets at the top of the suction tube)
- Detergent injection kit for use with the hand lance on difficult cleaning operations
- Hydrant standpipe, key and 3 metres

- of 50 mm lay-flat hose for on-task replenishment of water
- Simultaneous wash & sweep facility

### BRUSHES

- Dual sweep (a second channel brush on opposite side of the sweeper + swivelling widesweep)
- Simultaneous dual sweep (both channel brushes and widesweep operate together)
- Auxiliary channel brush fitted ahead of standard brush on an sliding/swing-out mount
- Adjustable pressure control for channel brushes and widesweep

- Tilting brush
- Vari brush (variable in/out brush control)

### SUCTION SYSTEM

- Rear-mounted swing-out wander boom
- Overhead-mounted wander boom

### MISCELLANEOUS

- CCTV camera to offside brush and/or rear of vehicle
- Centralised lubrication system (either manual or automatic)
- Alternative or additional beacons
- Fire extinguisher

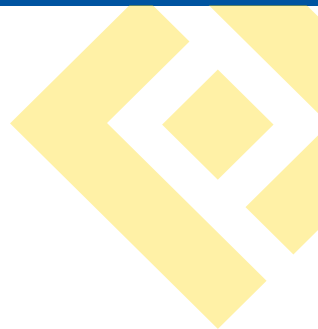


The Magnum 72 is just one of Scarab's expertly engineered truck-mounted road sweeping solutions. Because of this flexibility, the Magnum 72 can be fitted to a wide choice of chassis including those from DAF, Iveco, MAN, Mercedes, Volvo, Renault, Freightliner and more. For details on suitable chassis specifications, please contact your local distributor.

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

Dealership



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