Trailed, robust, steel suction nozzle for durability. Complete with trailed side brush, widesweep brush and optional front brush assemblies all fitted with water nozzles for dust suppression.

The hopper and internal screens are completely manufactured from abrasion resisting Stainless Steel.

Hydraulic system makes extensive use of steel piping to minimise the use of flexible hoses.
The M25H
A FULL SIZE SWEEPER IN A COMPACT PACKAGE

The Scarab M25H with its unique brush configuration and powerful suction performance combined with its large hopper and water capacity go towards making it the most versatile small truckmount sweeper in the world. The custom built chassis allows for both a smooth ride and a tight turning circle and with its long-range 65kph top speed, allows the M25H to be tasked at not only sweeping in congested city centres but also allows the vehicle to travel and sweep in remote locations.

Engine & Transmission
The low-emission Stage IIIB turbo charged Deutz power unit provides ample power at low revolutions and its position, set low in the chassis, enhances vehicle stability. Access to all engine filters and service points is afforded by means of the tilting cab and raising the hopper.

The Scarab fluid drive system is directly coupled to the engine to provide power to the transmission and all hydraulic services. It ensures smooth and infinitely controllable drive characteristics in both sweep and travel modes as well as a quiet and efficient sweeping and suction performance.

Permanent clutch-free, single-pedal control. Custom Chassis with a tight turning circle. Efficient sweeping and suction performance.

Command & Control

Scarab’s CANbus control system has revolutionised the way sweepers are operated and maintained. Intuitive controls and a conveniently positioned colour monitor in the roofline 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.
## Technical Specification M25H

**All Dimensions in mm**

### General Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>GVW</td>
<td>3.5 or 4.5 Tonnes</td>
</tr>
<tr>
<td>Wheelbase</td>
<td>2155mm</td>
</tr>
<tr>
<td>Overall Length*</td>
<td>4230mm</td>
</tr>
<tr>
<td>Overall Height*</td>
<td>2245mm</td>
</tr>
<tr>
<td>Discharge Height</td>
<td>750mm Std, 1600mm Hi-Tip</td>
</tr>
<tr>
<td>Discharge Angle</td>
<td>45 degrees</td>
</tr>
<tr>
<td>Door Opening Angle</td>
<td>90 degrees</td>
</tr>
<tr>
<td>Filter Mesh Type</td>
<td>Perforated Stainless Steel</td>
</tr>
<tr>
<td>Low Pressure Pump Output</td>
<td>23 lpm / 4.8 Bar</td>
</tr>
<tr>
<td>Hydraulic Suction Filtration</td>
<td>125 Micron</td>
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<tr>
<td>Hydraulic Return Filtration</td>
<td>20 micron</td>
</tr>
<tr>
<td>Fan Pump Displacement</td>
<td>45cc / rev</td>
</tr>
<tr>
<td>Gear Pump(s) Displacement</td>
<td>23cc / rev</td>
</tr>
<tr>
<td>Suction Fan Capacity</td>
<td>6900 ft³/min / 195m³/min</td>
</tr>
<tr>
<td>Suction Fan Diameter</td>
<td>800mm</td>
</tr>
<tr>
<td>Sweeping Speed</td>
<td>0-16 mph / 0-25 kph</td>
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</tbody>
</table>

### Sweeping Equipment

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Brush Diameter</td>
<td>700mm</td>
</tr>
<tr>
<td>Side Brush Diameter</td>
<td>500mm</td>
</tr>
<tr>
<td>Widesweep Brush Diameter</td>
<td>320mm</td>
</tr>
<tr>
<td>Brush Speeds</td>
<td>60-120rpm</td>
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<tr>
<td>Side/Front Brush Life</td>
<td>80 Working Hours</td>
</tr>
<tr>
<td>Widesweep Life</td>
<td>125 Working Hours</td>
</tr>
<tr>
<td>Suction Tube Diameter</td>
<td>200mm</td>
</tr>
<tr>
<td>Nozzle Width</td>
<td>490mm</td>
</tr>
</tbody>
</table>

### Capacities

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hopper Volume**</td>
<td>2.1m³ Nett</td>
</tr>
<tr>
<td>Hopper Volume**</td>
<td>2.5m³ Gross</td>
</tr>
<tr>
<td>Actual Payload Capacity*</td>
<td>Up to 1800kg</td>
</tr>
<tr>
<td>Fuel Tank</td>
<td>60 litres</td>
</tr>
<tr>
<td>Water Tank</td>
<td>450 litres</td>
</tr>
<tr>
<td>Hydraulic Tank</td>
<td>40 litres</td>
</tr>
</tbody>
</table>

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

### Engine Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Deutz TCD 2.9L4</td>
</tr>
<tr>
<td>EU Emissions Level</td>
<td>Stage IIIb</td>
</tr>
<tr>
<td>Max Power/Torque</td>
<td>55.4kW/300Nm @ 1200rpm</td>
</tr>
<tr>
<td>Aspiration</td>
<td>Turbocharged/Intercooled</td>
</tr>
</tbody>
</table>

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**

### Hydrostatic System
Variable speed control to optimise sweep performance
Selection of forward/reverse travel by a single lever
Max vehicle speed of 40mph (65kph)*
Gradeability up to 25%*
*approx. dependant on conditions, options and operating mode (Local speed limits for mobile machinery need to be observed)

### Suction Fan
800mm diameter
Up to 2000rpm, low noise
Capacity 6900 ft³/min (195m³/min)
Stainless Steel standard

### Suction Nozzle
Robust all-steel construction
490mm mouth width
200mm diameter suction tube
Adjustable wear-resistant flaps
Low-Pressure water jets
Heavy Duty rubber-tyred wheels

### Brushes
700mm diameter polypropylene front brushes optional
500mm diameter steel-tined side brushes
320mm diameter polypropylene-segmented widesweep
Variable speed 60-120 rpm dependent on engine speed

### Hopper
2.1m³ Nett Hopper Volume, capacity 2.5m³ constructed entirely of corrosion-resistant stainless steel
Manually-operated rear door with safety prop
Twin side loading doors
Safety hopper prop
Body drains at rear of hopper
Stainless Steel swing-down mesh suction filter screen
Access for suction fan cleaning

### Hydraulic System
Zinc 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 with sight glass

### Water System
Electric low pressure water pump for dust suppression
Solenoid-controlled from the CAN Bus system

### Water Tank
450 litre integral stainless steel water tank
Sight glass with fill level indicator

### Ergonomic Cab
The fully-appointed sound insulated and rubber mounted cab includes cloth upholstered driver’s and passenger seats, laminated winscreen and sliding windows in each door plus a lower glazed panel in each door for extra visibility. The cab tips for easy engine access. Heated Seats and Sweeping Mirrors standard equipment

### 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

<table>
<thead>
<tr>
<th>Suction Nozzle only</th>
<th>550mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suction Nozzle and Side Brush</td>
<td>850mm</td>
</tr>
<tr>
<td>Suction Nozzle, Side Brush and and Widesweep</td>
<td>1570mm</td>
</tr>
<tr>
<td>Front Brush, Suction Nozzle, Side Brush and Widesweep</td>
<td>1740mm</td>
</tr>
<tr>
<td>Both Front Brushes, Suction Nozzle Side Brush and Widesweep</td>
<td>2170mm</td>
</tr>
<tr>
<td>Dual Sweep, all Brushes deployed</td>
<td>2340mm</td>
</tr>
</tbody>
</table>

### Options
A comprehensive Options List is available for the M25H, including:-
- Front Brushes
- Dual Sweep configuration
- High Pressure Water Pump with low level warning
Please contact the Scarab Sales Department for more information

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Scarab Sweepers Ltd, Pattenden Lane, Marden, Kent. TN12 9QD
Tel: +44 (0)1622 831006 Fax: +44 (0)1622 832417                       www.scarab-sweepers.com
Svingo 200+
2-brush machine
**Swinngo 200+**
2-brush machine

**Driver’s cab**
Driver’s cab with elastic mounting and two seats, all-round glazing for free view on the working and traffic area, sliding windows on the right and the left, soundproof, orthopaedic driver’s seat, air conditioning system included in the standard delivery scope; height-adjustable and articulating steering column, single-key locking, easy-to-use menu control via central display, control of the sweeping unit via ergonomically designed door control panel with joysticks. Option: radio-CD player, digital and analogue tachograph, steering wheel knob, 12 V socket f.e. for mobile phone charger.

**Sweeping unit**
- Diameter brush: 850 mm
- Rotational speed brush: 0 - 100 rpm
- Sweeping width optimal: up to 2.500 mm
- Sweeping width max.: up to 2.600 mm

Hydraulically lifting and lowering and independently retractable brushes, automatic sweeping track adjustment

**Suction system**
Hydraulically driven high-performance suction fan with nearly stepless adjustment of the suction power.

Suction port made of hot-dipped galvanised steel, 800 mm width, aerodynamic shape for maximum suction capacity, continuously variable lifting and lowering, without coarse dirt cover; automatic lifting during reversing, floating suspension under the driver’s cab; maximum suction capacity through optimum hose guide

Container made of aluminium approx. 2 m² capacity
Dumping height: 1.400 mm

**Water system**
Spraying and re-circulation water tanks made of plastic with a capacity of 180 litres (Euro6: 160 l) each; additional 250 litres of circulating water in the container; electric fresh water pump 3.5 bar/11 l/min, well-proven pressurised water re-circulation system with hydraulically driven service water pump, maximum pump capacity 40 l/min ensuring optimum dust absorption.

- High-pressure water blaster: 15 l/min 90 bar (optional)
- High-pressure water blaster: 15 l/min 150 bar (optional)

**Weights**
- Weight unladen (Basic equipment EuroMot3B): 2.850 kg
- Weight unladen (Basic equipment Euro6): 2.950 kg
- Total permissible weight: 4.500 kg
- Payload (EuroMot3B): 1.650 kg
- Payload (Euro6): 1.550 kg

**Dimensions**
- Length without brush: 4.000 mm
- Length with brush: 4.580 mm
- Width without brush: 1.300 mm
- Width with brush: 1.400 mm
- Height without rotating beacon: 1.990 mm
- Height with rotating beacon: 2.335 mm
- Wheelbase: 1.820 mm
- Track width: 1.053 mm
- Turning circle between kerbs: 4.850 mm
- Turning circle between walls: 7.200 mm

**Engine**
For choice:
- VM R754 ISE4 EuroMot3B, Common Rail, 3.0 litres cubic capacity, 55 kW (75 HP) at 2,300 rpm; 310 Nm at 1,100 rpm. Incl. closed particulate filter system.

Or:
- VM R754 Euro6, Common Rail, 3.0 litres cubic capacity, 62 kW (84 HP) at 2,300 rpm; 270 Nm at 1,100 rpm. Incl. closed particulate filter system, urea (AdBlue) injection and SCR-catalyst

**Drive**
Hydrostatic, continuously variable with axial-piston units on the rear axle, cruise control for relaxed working included in the standard delivery scope

- Continuously variable transport speed: 0 - 50 km/h
- Continuously variable operating speed: 0 - 12 km/h
- Gradeability: 25%

**Steering**
Hydrostatic steering on the front axle; either two-wheel or four-wheel steering

**Brakes**
Hydraulic power brake system acting on all wheels; front and rear disc brakes; arresting brake with hydraulic effect on the rear axle

**Tyres**
- 215 R14
Efficiency
The Merlin-XP is probably the most effective road sweeper available in the 7.5/8.0 tonne GVW range that is favoured by so many municipal and urban operators. With payload performance at a premium in this class, our Hydrostatic or Unidrive systems deliver a significant advantage over any auxiliary-engine powered sweeper on the same chassis and with room for a 900 litre water tank, the XP has exceptional on-task endurance. Other extreme weight-saving measures are also unnecessary allowing the XP to share sweeping components with other models in the Scarab range.

**FOCUSED PERFORMANCE**
**THE MERLIN XP**

*Trailer widesweep brush is adjustment-free and designed to ensure parallel usage.*
*Trailer, 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.*
*Trailer channel brush mechanism with adjustable brush-pressure control option.*
*Simultaneous Dual Sweep and High-pressure Street Wash option.*
Discharge chute and three-point rear door clamping system, to ensure effective sealing. The hopper is completely manufactured from abrasion resisting stainless steel. The hydraulic system extensively incorporates steel piping to minimise use of flexible hoses.

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

Single-engine Transmissions

Scarab can justifiably claim to be the champion behind the modern-day success of the truck-mounted sweeper powered from a Single Engine.

Operating the whole machine from the engine of the truck chassis provides many advantages, for example:

- **Reduced fuel consumption**
- **Greater payload and weight distribution**
- **Reduced noise and engine emissions**
- **Less maintenance and downtime**

**Scarab offers two solutions with these benefits**

**Hydrostatic**

A Scarab designed hydrostatic gearbox is installed in the chassis driveline to exactly suit any customers’ chassis and application. Hydrostatic drive, plus a simple joystick control for Forward and Reverse, allows single-pedal control reducing fatigue and enabling the driver to fully concentrate on sweeping.

**Unidrive**

The sweeping equipment is powered from a Power Take Off (PTO) fitted to the truck engine. The Merlin control system manages engine speed to ensure optimum sweeping performance. The sweeper is usually operated in a low gear for slow speed. An optional reduction gearbox is available where necessary.

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). The option of real-time data availability via telematic up-link.
The STANDARD
MERLIN-XP FEATURES

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

WEIGHTS & DIMENSIONS

The Merlin-XP can be fitted to chassis in the 7.5 / 8.0 tonne category including those from DAF, Iveco and Mercedes. For details of these and other suitable chassis specifications, please contact our sales department.

TYPICAL PAYLOAD POTENTIAL

Hydrostatic.......................................................... IVECO ML75 - 2325 kg / DAF LF45 - 2218 kg
Unidrive.............................................................. IVECO ML75 - 2400 kg / DAF LF45 - 2293 kg

TYPICAL DIMENSIONAL DATA ▲

Length Overall......................................................................................................................................... 5640 mm
Wheelbase .................................................................................................................................................. 3150 mm
Width Overall ............................................................................................................................................ 2220 mm
Overall Height - Hopper Lowered/Hopper Raised .......................................................... 2970/4090 mm

CAPACITIES

Hopper Volume ◆ ......................................................... Gross 5.5 m³ - Nett (Payload) 4.7 m³
Water Tank ▲ .................................................................................................................... 900 litres

◆ Hopper capacities are calculated in accordance with European Standard EN15429.
▲ Subject to chassis selected.

SWEEPING WIDTHS

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

A Suction Nozzle Only.................................................................................................................. 740 mm
B Nozzle & Side Brush ................................................................. 1060 mm
C Nozzle, Side Brush & Widesweep ..................................................... 2000 mm
D Simultaneous Dual Sweep .................................................................................................. 2850 mm
The ENHANCEMENTS
UPGRADE YOUR SPECIFICATION

OPTIONS

WATER

High-pressure / High Volume Pump with hand lance and self-retracting hose reel.
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)

MISCELLANEOUS

Reduction Gearbox in driveline for Unidrive variants
CCTV Camera to offside brush and/or rear of vehicle
Centralised Lubrication System (either manual or automatic)
Alternative or additional beacons (e.g. Xenon)
Fire Extinguisher

OTHER OPTIONS & OPERATOR SPECIFIC REQUIREMENTS ARE AVAILABLE UPON REQUEST
For over 20 years, satisfied customers world-wide have discovered that the Scarab Minor is the most outstanding and versatile sweeper of its type. The well-proven hydrostatic drive system, a rugged chassis-frame construction, greater road speed, compact dimensions, excellent payload capacity and large water tank mean that the Minor is capable of a greater work rate than any of its peers. In keeping with our philosophy of evolution rather than revolution, a revised cab has been introduced offering a number of significant improvements. New doors and side-windows, rear quarter windows and windscreen wipers, along with high-performance headlamps, ensure enhanced visibility for the driver. Operator comfort is further catered for by incorporating more shoulder space for driver and passenger, greater head-room and by the provision of better in-cab stowage.
The standard 3.5 tonne* GVW Minor is the most versatile urban/precinct sweeper in the world. The reason for the Minor's reputation is its unrivalled specification including a large 2.0 m$^3$ capacity hopper, fitted with access doors on either side, a rust-proof water tank of 420 litres and a heavy duty water pump powering the low-pressure front spray bar, brush and suction nozzle jets. Add a wander hose, to clean awkward areas or empty gully pots and its unique four-brush sweeping pattern, giving a sweep width of up to 2.17 metres and the result is an unrivalled level of performance.

* A 4.2 tonne public works option is also available.

With a full range of options from a streetwash conversion kit to cab air-conditioning, it is a full-size sweeper in a small package. The Minor is ideal for many applications from pavement to heavy-duty street cleansing and from produce & packaging warehouses to parks and airport perimeters.

With a 40 mph travel speed using the efficient Euro 4 VM power unit, single-pedal control, compact dimensions and a unique sweeping pattern allied to outstanding versatility, the Scarab Minor represents class-leading performance no matter how you choose to measure it.

The Minor also features Scarab's tried and tested CANbus 2 control system, to give improved self-diagnostics and additional compatibility with the J 1939 CAN system to facilitate engine control and communication.

**MINOR KEY FEATURES**

- **Hopper Construction**: Stainless Steel
- **Hopper Capacity**: 2.0 m$^3$ (to EN 15429)
- **Power Source**: 3.0 litre turbo diesel
- **Water Tank**: 420 litres
- **Sweep Width**: 2170 mm
- **Chassis GVM**: 3.5/4.2 tonne
- **Control System**: CANbus 2 Technology
- **Wander Hose**: 4 Metre
- **Dust Supression**: Fitted to all brushes/suction nozzles

**OPTIONS**

- H-TIP HOPPER • HIGH PRESSURE WATER PUMP (150 bar)
- FRONT MOUNTED SPRAY BARS • STREET WASH CONVERSION KIT
- HAND LANCE (13 m hose, self-retracting) • DETERGENT INJECTION KIT
- HYDRANT, STANDPIPE, KEY & 3 m Hose • CAMERA SYSTEMS
- HAND WASH BASIN • CAB AIR-CONDITIONING

**Sweep Widths**

- **Suction Nozzle Only**
- **Suction Nozzle & Channel Brush**
- **Front Brush, Suction Nozzle, Channel Brush & Wide Sweep Brush**
- **Both Front Brushes, Suction Nozzles and Channel Brushes Deployed**

**Typical Dimensions**

- **Overall Length**
- **Overall Height**
- **Front Overhang**
- **Rear Overhang**
- **Wheelbase**
- **Overall Width**
- **Turning Circle (kerb to kerb)**

Scarab Sweepers Ltd - Pattenden Lane - Marden - Tonbridge - Kent - TN12 9QD Tel: 01622 831006 - Fax: 01622 832417
Email: scarab@scarab-sales.com - www.scarab-sweepers.com
C201
Compact sweeper
Euro 6
Stage 3b
Stage 3a

Johnston SWEEPERS
Small and perfectly formed

The Johnston C201 compact sweeper is the latest evolution of Johnston's class leading compact design.

Designed around three key objectives as required by our customers, the C201 achieves high productivity, low cost of ownership and minimal environmental impact - all delivered in one package.
Operator Environment

Johnston Sweepers understands that the correct balance of operator comfort and equipment performance is key to achieving high productivity. So with the C201, ease of operation, manoeuvrability and ergonomics are the heart of the design.

- Adjustable air suspended seat with adjustable back support
- Adjustable steering column for height and rake
- Illuminated nozzle box provides improved visibility for night time sweeping
- Hydrostatic power steering
- Easy command arm and control ergonomics
- Radio with sockets for both SD cards and MP3 player
- Walk-through cab giving access from either side of the sweeper
- Glide II suspension design for improved sweeper ride, further reducing whole body vibration and driver fatigue
- Armrests fitted to both cab doors for improved comfort in transit
- Reverse sweep/ shuffle button
High Performance

- Four-wheel-steer option, allows the smallest turning circle in its class, and excellent manoeuvrability
- Wide view heated windscreen with unrestricted all-round vision
- Johnston’s traditional front facing sweeper gear configuration
- Enlarged glass floor panels on both sides of the cab to view brushes and nozzle box
- An audible signal for safe reversing, with standard Night Silent switch
- Brushes have variable speed, and both have independent position and pressure control
Intelligent Hydrostatic Control
The Johnston Electronic Transmission Control allows seamless intelligent transition between Work Mode and Transit Mode whilst on the move. The dynamic hydrostatic braking system provides safe and smooth operation in both vehicle modes giving the driver greater control. The advanced 4WS Steering System is fully integrated into the transmission control software providing intuitive and precise steering control.

JVM system
The C201 sweeper is equipped with a sophisticated large view colour screen connected to a JVM control system to effectively monitor running costs and productivity. This important information can be downloaded to a USB for convenient office use.

Integrated rear view camera
The large view colour screen also incorporates the rear view camera option, streamlining in-cab equipment and giving safe and accurate reversing guidance.

Low noise
Low noise levels (67-75dB(A)) at maximum revs in-cab provides a comfortable all day working environment.
High Productivity

Johnston Sweepers understands operating costs are as important as the initial capital investment, which is why the new C201 has been designed to have the highest possible uptime levels with the lowest number of service intervals.

Designed to cope with the toughest environments the C201 hopper is manufactured from 1.4003 stainless steel. Major components are shot blasted with an aluminium oxide abrasive providing an excellent key for the painting process. Water based primer is applied followed by two coats of 2 pack epoxy paint, stoved off to provide a hard wearing coating. In addition, all the grey parts are shot blasted, primed and electrostatically powder coated for a tough finish, ensuring your sweeper retains a high residual value and longer in-service life.

Fuel efficient
The C201 is one of the most fuel efficient sweeper in its class averaging 4.3 litres per hour (Euro 6) over a typical operation cycle. In work mode the C201 can be up to 40% more efficient than other compact sweepers in its class – a significant financial and environmental consideration for fleet operators. This efficiency can help to save 10,000kg of carbon per 2000 operated hours, and with the on board technology as standard, fuel savings can be easily monitored.

Water capacity
Equipped to carry upto 175 litres of clean water and 250 litres of water in the recirculation system giving upto 425 litres of water, the C201 reduces refilling costs and extends on-station time.

The C201 can be equipped with a hydrant hose, standpipe and key, saving the operator time by refilling water tanks from a street hydrant giving further productivity.

On-board technology
The C201 JVM control system comes with a USB portal so the system can be upgraded quickly and easily. Service intervals are highlighted on the 7” colour display system to ensure the equipment is serviced at the required intervals.

Alongside this information, Johnston Sweepers has incorporated an Advance Data Capture system; using the integrated USB socket or via a CAN interface, information can be downloaded, giving both operators and managers information from which they can calculate accurate running costs for each individual sweeper. Daily fuel usage, mileage, sweeping hours and engine performance can be analysed to achieve continuous cost savings.
Low cost of ownership – low environmental impact

Four-wheel steer option
A C201 Compact with the 4-wheel steer option reduces the turning radius to a class leading 2010mm kerb to kerb.

Leaf nozzle box
The C201 comes with an option of heavy duty castors which complement the four wheel steer, also giving faster, smoother direction changes without affecting suction performance.

Tyres
The C201 Compact is fitted with Continental RV20 tyres, for heavy duty working, designed to reduce whole life tyre cost whilst improving comfort. The design is ideal for kerb climbing and gives a large footprint, allowing the sweeper to operate over a range of paved surfaces.

Independent brush control
The C201 features independently controlled front brushes. From the high visibility cab, an operator has unrivalled control of the brush speed, position and ground pressure.

Low level of brush arms
The unique sweep-gear configuration and reverse sweeping feature ensures efficient cleaning around obstacles with complete cleaning of 90° corners and enclosed spaces.

Wanderhose
The Wanderhose option is a 3.7m suction hose for extended cleaning reach. Turntable mounted for manoeuvrability and access to areas next to the roadway.

High pressure hand lance
The C201 high-pressure hand lance option has a 10m hose for convenient operation. The hand lance is also equipped with both a fan and a pencil nozzle to deal with all types of dirt.

Tipping
The 1.8m³ (hopper volume) capacity and 1.5m discharge height is ideal for tipping into skips or bins.
Also with high visibility automatically engaging safety props fitted as standard, the hopper reaches its tipping height in complete safety.

Impact protection
To avert potentially expensive impact damage, the articulated brush arms include forward impact shock absorbers and side impact hydraulic dampening. A replaceable “Shear Pin” which can be easily repaired by the operator protects the brush arms even further.
A compact package that packs so much more

As part of Johnston Sweepers’ commitment to minimum downtime, key components of the C201 are easily accessible for efficient maintenance. Simple components and systems facilitate rapid servicing, making it one of the easiest machines in its class to maintain.

With a servicing and maintenance network covering the whole of the UK, and a worldwide distributor network in over 120 territories, Johnston help is always at hand.

Dust suppression
The C201 Johnston water curtain dust suppression system achieves the industry’s highest PM_{10} standards. Using small nozzles next to the brushes to project a fine water spray ahead of the sweep gear, fine particles are trapped and brushed in the path of the nozzle box. The dust and debris is then contained within fans of water travelling at high speed. Jets of water, one in the nozzle box and one in the suction tube ensure all dust is soaked before being sucked into the body. The water curtain now containing all the dust and debris falls safely into the hopper, the water is then continuously re-circulated to ensure virtually all dust is safely contained.

Low noise levels, low ground pressure, water recirculation and sustainable manufacturing techniques, the Johnston C201 helps you achieve the highest productivity at the lowest cost to your budget and the environment.

Optional features:
- Four-wheel steer
- In-cab air conditioning, or in-cab climate control
- High pressure lance and 10m recoiling hose with fan & pencil nozzles
- Turntable mounted Wanderhose
- Rear mounted camera system
- Winter maintenance pack
A comprehensive range of additional options is also available. Ask for details.
# Sweeping Configurations

**Outline Specification C201**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>4270 mm</td>
</tr>
<tr>
<td>Width</td>
<td>1315 mm</td>
</tr>
<tr>
<td>Height</td>
<td>1985 mm</td>
</tr>
<tr>
<td>Unladen weight</td>
<td>up to 2800 kg</td>
</tr>
<tr>
<td>Payload</td>
<td>up to 1700 kg</td>
</tr>
<tr>
<td>GVM</td>
<td>4000 kg, optional 3500 kg &amp; 4500kg</td>
</tr>
<tr>
<td>Nozzle</td>
<td>850 mm</td>
</tr>
<tr>
<td>Brush speed</td>
<td>Variable up to 125 rpm</td>
</tr>
<tr>
<td>Clean water tank capacity</td>
<td>152 litres (E6), 175 litres (3a &amp; 3b)</td>
</tr>
<tr>
<td>Recirculating water system</td>
<td>250 litres</td>
</tr>
<tr>
<td>Gradeability</td>
<td>30% fully laden</td>
</tr>
<tr>
<td>Sweep rate/output</td>
<td>36,800 m²/hr (theoretical max)</td>
</tr>
</tbody>
</table>

Visit our websites for more information on the Johnston C201 and details of your nearest distributor:

**United Kingdom** - www.johnstonsweepers.co.uk  
**Rest of the world** - www.johnstonsweepers.com

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**Dimensions in mm**

- **Max reach**: 1560 mm
- **Optimum sweeping width**: 2300 mm
- **Width**: 1315 mm
- **Discharge height**: 1525 mm
- **815 mm**
- **Nozzle**
- **Suction Duct**

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**Turning radius (Four Wheel Steer Option)**

- **Kerb to Kerb**: 2.01 m
- **Wall to Wall**: 3.4 m

Maximum steer angle 15° to follow an outside corner without rear wheel tracking.