

MINOR 25

DIMENSIONS, WEIGHT, CAPACITIES



All dimensions in mm



*Dimensions representative and may vary according to options selected

GENERAL DATA

GVW	4.5 Tonnes
Wheelbase	2155mm
Overall Length*	4230mm
Overall Height*	2245mm
Discharge Height	750mm Std, 1600mm Hi-Tip
Discharge Angle	45 degrees
Door Opening Angle	90 degrees
Filter Mesh Type	Perforated Stainless Steel
Low Pressure Pump Output	23 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	6900 ft ³ /min / 195m ³ /min
Suction Fan Diameter	800mm
Sweeping Speed	0-16 mph / 0-25 kph

SWEEPING EQUIPMENT

Front Brush Diameter	700mm
Side Brush Diameter	500mm
Widesweep Brush Diameter	320mm
Brush Speeds	60-120rpm
Side/Front Brush Life	80 Working Hours
Widesweep Life	125 Working Hours
Suction Tube Diameter	200mm
Nozzle Width	490mm

CAPABILITIES

Hopper Volume**	2.1m ³ Nett
Hopper Volume**	2.5m ³ Gross
Actual Payload Capacity*	Up to 1800kg
Fuel Tank	60 litres
Water Tank	450 litres
Hydraulic Tank	40 litres

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

ENGINE DATA

Type	Max Power/Torque	EU Emissions Level	Aspiration
Deutz TCD 2.9 L4 HT	55.4kW/375Nm @ 1400rpm	Stage V	Turbocharged/Intercooled

TECHNICAL SPECIFICATION

MINOR 25

Scarab Sweepers Ltd,
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HYDROSTATIC SYSTEM

Variable speed control to optimise sweep performance Selection of forward/ reverse travel by a single lever Max vehicle speed of 40mph (65kph)* Grade-ability 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

SWEEPING WIDTHS

Suction Nozzle only	550mm
Suction Nozzle and Side Brush	850mm
Suction Nozzle, Side Brush and Widesweep	1570mm
Front Brush, Suction Nozzle, Side Brush and Widesweep	1740mm
Both Front Brushes, Suction Nozzle Side Brush and Widesweep	2170mm
Dual Sweep, all Brushes deployed	2340mm

OPTIONS

A comprehensive Options List is available for the Minor, including:-

- Front Brushes
- Dual Sweep configuration
- High Pressure Water Pump with low level warning

Please contact the Scarab Sales Department for more information.

ERGONOMIC CAB

The fully-appointed sound insulated and rubber mounted cab includes cloth upholstered driver's and passenger seats, laminated windscreen 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, 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 Minor 25 has been awarded a 4* EUnited PM10/2.5 certification.

