

SCARAB T7

DIMENSIONS, WEIGHT, CAPACITIES



GENERAL DATA

Chassis Requirement	33,069 – 39,683 lbs GVW
Wheelbase	10 ft, 8 in – 15 ft, 1 in
Overall Length*	20 ft, 4 in – 25 ft, 3 in
Overall Height*	10 ft, 10 in – 11 ft, 6 in
Discharge Height	47.2 in
Discharge Angle*	Up to 55 degrees
Door Opening Angle	90 degrees
Filter Mesh Type	Perforated Stainless Steel
Low Pressure Pump Output	6.9 gal/min / 43.5 psi
Hydraulic Suction Filtration	0.0049 in
Hydraulic Return Filtration	0.0008 in
Fan Pump Displacement	4.4 in ³ /rev
Gear Pump(s) Displacement	1.4 in ³ /rev
Suction Fan Capacity	8546 ft ³ /min
Suction Fan Diameter	29.3 in
Sweeping Speed	0 - 20 mph

SWEEPING EQUIPMENT

Side Broom Diameter	26 in
Widesweep Boom Diameter	16 in
Side Broom Speed	60 - 160rpm Fully Variable
Widesweep Broom Speed	120 - 250rpm Fully Variable
Side Broom Life Expectancy	80 Working Hours
Widesweep Broom Life Expectancy	150 Working Hours
Suction Tube Diameter	10 in
Pick-up Head Width	31.5 in

CAPACITIES

Hopper Voided Volume**	8.6 yd ³
Hopper Payload Volume**	7.7 yd ³
Actual Payload Capacity*	13,200 - 22,000 lbs
Fuel Tank Chassis*	25 - 52 gal
Auxillary Fuel Tank	50 - 52 gal
Water Tank	528 gal
Hydraulic Tank	18 gal

* Dependent on chassis selection

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

SCARAB T7

TECHNICAL SPECIFICATION



TWIN-DRIVE SYSTEM

The twin-drive system utilises a Deutz TCD 3.6 L4 HP Stage V secondary engine driving pumps to operate all hydraulic sweeper functions. This secondary engine is available in 75 and 140 bhp versions.

SUCTION FAN

- ◆ 29.3in diameter.
- ◆ Fan speed variable from 2600 – 3400 rpm.
- ◆ 4 operating modes.
- ◆ Capacity 8546 ft³/min.
- ◆ Stainless steel as standard.

PICK-UP HEAD

- ◆ Robust, all-steel construction.
- ◆ Quick release system.
- ◆ 31.5in mouth width.
- ◆ 10in diameter suction tube.
- ◆ Adjustable wear-resistant flaps.
- ◆ Low pressure water jets.
- ◆ Heavy duty rubber-tyred wheels.
- ◆ Hydraulic tilt.

BROOMS

- ◆ 26in diameter steel-tined brooms.
- ◆ 16in diameter polypropylene-segmented widesweep broom.
- ◆ Fully proportional variable speed to all brushes from 60 - 160rpm from the cab.

HOPPER

- ◆ 8.6 yd³ gross hopper volume, constructed entirely of corrosion resistant 1.4003 stainless steel.
- ◆ Hydraulically-operated rear door with safety check valve.
- ◆ Automatic self-deploying hopper prop.
- ◆ Dual - rear body drain
- ◆ Auto-blanking flaps to suction tubes.
- ◆ Stainless steel mesh suction filter screen, pneumatically operated.
- ◆ 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.
- ◆ 18 gallon steel oil tank with 10 micron return filter.
- ◆ Low oil automatic shut-off.

WATER SYSTEM

- ◆ In-cab water level indicator.
- ◆ Self-priming low pressure water pump from dust suppression.
- ◆ Solenoid-controlled from the CANbus system.
- ◆ Air purge to prevent freezing.

WATER TANK

- ◆ 436 - 660 gallon water tank with access lid for cleaning.
- ◆ Corrosion resistant 304 Stainless Steel water tank.
- ◆ Hydrant connector with regulation air break.

PNEUMATIC SYSTEM

The system is equipped with a pressure regulator, filter/water separator, and pneumatic solenoid valves that precisely control the brushes, widesweep brush, and suction nozzle. All components are housed in a protected compartment, thoughtfully positioned for easy access and efficient servicing.

CANBUS CONTROL

SCARAB's proven CANbus system - trusted in service since 2003 - puts full control of sweeper operations at the driver's fingertips. A touchscreen panel, positioned conveniently beside the driver's seat, provides intuitive access to all primary sweeper functions. The integrated LCD screen displays real-time operating data, system diagnostics, and fault-finding tools to support efficient operation and maintenance. For frequently used functions, the door-pod control panel is ergonomically mounted to ensure quick adjustments without distraction.

SWEEPING WIDTHS

Pick-Up Head only	31.5in
Pick-Up Head + Side Broom	53in
Pick-Up Head, Side Broom + Widesweep Broom	94.5in
Both Pick-Up Heads, Side Brooms, Widesweep Broom	143.7in



OPTIONS

A comprehensive range of options is available for the SCARAB T7. **For more information, please contact your local SCARAB USA dealer.**