

# VACALL™

## SuperSweep



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## SPECIFICATIONS

### FAN

**Drive:** Closed Loop Hydrostatic  
**Speed:** 0-3000 RPM  
**Fan Rating:** 33,600 CFM (951 m³/min.)  
**Fan Vacuum:** 0-50 in H2O (250: 1270 mm H2O)  
**Fan Construction:** ASTM A572 Grade 50 Steel  
**Fan Housing:** 0.25 in. (6.35mm) 30 KSI Steel

### DEBRIS HOPPER

**Volumetric Capacity:** 13 or 16 yds³ (9.9 or 12.2 m³)  
**Floor Angle:** 0°  
**Dump Angle:** 50°  
**Sides:** Flared to rear for clean-out  
**Construction:** 11 gauge (3 mm) ASTM A572 Grade 50 Steel  
**Lifting:** Double-acting hydraulic cylinder with load-holding valves  
**Tailgate:** Hydraulic open/close, lock/unlock  
**Full Load Indicator:** Optional weight-activated with in-cab warning light  
**Hopper Screens:** Quick-release stainless steel construction with stainless steel screen tracks  
**Debris Body Safety Prop:** Dual props on hoist frame located by nozzle intakes  
**Tailgate Safety Prop:** Located outside beside the tailgate  
**Body Dumping Controls:** Wired pendant and in-cab controls with up/down variable-speed and emergency stop  
**In-Cab Dumping Controls:** Standard

### SPRAY WATER SYSTEM

**Water Tank Construction:** 5052-H32 fully welded aluminum  
**Water System Capacity:** Max 600 gal. (2271 L) based on GVWR  
**Pump Type:** Hydraulically powered centrifugal pump  
**System Flow:** 0-140 GPM (0-532 LPM) variable speed  
**System Pressure:** 0-130 PSI (0-9 BAR)  
**Spray Wand:** With ball valve and 25 ft. (7.6m) hose  
**Controls:** Wired pendant and in-cab controls with on/off variable speed  
**Filter:** 200 mesh, cleanable  
**Anti-Siphon Fill:** Standard  
**Hydrant Fill Hose:** 25 ft. (7.6 m) with coupling

### SIDE BROOMS

**Diameter:** 36 in. (914 mm)  
**Speed:** Variable  
**Drive:** Hydraulic motor, with over-pressure protection  
**Mounting:** Floating arm  
**Motion:** Inward/outward, up/down  
**Tilt Adjustment:** Inward/outward, forward/backward  
**Digging Pressure/Wear Control:** Hydraulic  
**Type:** Segment set disposable  
**Material:** Oil tempered steel wire

### GENERAL SPECIFICATIONS

**Power:** Chassis engine provides all power using an Allison RDS series automatic transmission with transfer case-driven hydraulic system powering all sweep functions  
**Sweeping Vacuum:** 10-50 in. H2O (250-1270 mm H2O)  
**Sweeping Speed:** 0-11 mph (0-17.7 kpm) with speed-limiting control  
**Propel while Sweeping:** Fully automatic with accelerator/brake pedal used to control speed and stopping. Engine speed is maintained by a controller  
**Auto Store:** Shuts off brooms, water, fan and lifts and stores brooms and nozzles for non-sweeping/highway operation  
**Sweeping Operation:** Brooms operate from under the sweeper to full extension  
**Measured Sweeping Path:** 154 in. (3912 mm) with 36 in. gutter brooms

### VACUUM NOZZLE

**Dual Nozzle Width:** 96 in. (2438 mm)  
**Pickup Area:** 892 in² (576,000 mm²)  
**Construction:** Steel with abrasion-resistant steel liners  
**Hose Connection:** Mechanical clamps  
**Hose Construction:** Flexible rubber, steel reinforced  
**Hose:** 12 in. (305 mm) inside diameter

### HYDRAULIC SYSTEM

**Implement Pump:** Open loop piston pump, direct gear-driven. Powers brooms, water pump, debris tank, tailgate functions and optional boom  
**Propel Pump:** Closed-loop piston pump, direct gear-driven. Propels truck while sweeping  
**Fan Pump:** Closed loop piston pump, direct gear-driven. Powers fan  
**Reservoir Capacity:** 70 gal. (265 L)  
**Filter:** 6 micron spin-on type with in-cab restriction indicator

### ELECTRICAL SYSTEM

**Lights:** Side broom, rear clearance, rear identification.  
**Reversing Safety:** Electric back-up alarm  
**Wiring Harnesses:** Color-coded function, stamped and labeled every 3 in. (75 mm)  
**LED Clearance Lighting:** Standard

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## OPTIONS

**Articulated Boom and Rear Vacuum Hose:** 1000 lb. (454 kg) lift capacity, wired pendant, and in-cab controls with up/down variable speed, 100 in. (2540 mm) long, steel reinforced, flexible rubber hose available in:

8 in. (203 mm) diameter hose with hydraulically powered boom

12 in. (305 mm) diameter hose with manual or hydraulically powered boom.

**Auto Raise:** Shuts off brooms and water, lifts brooms and nozzles, automatic operation in reverse, operation resumes with previous set parameters when traveling forward, automatic or manually-controlled from the cab

**Auxiliary Hydraulic System:** Provides emergency operation of debris body dumping controls

**Body Vibrator:** Controlled from wire pendant and in-cab controls with on/off, (controlled from optional additional wireless pendant)

**Debris Body:** Carbon steel grade 50 or stainless-steel construction with or without interior powder coated paint

**Dual Steer**

**Hose Boom with Powered Rotation:** Controlled from wire pendant and in-cab controls with on/off, (controlled from optional additional wireless pendant)

**LED Strobe Lights**

**Rear Boom Twin Beacon Lights**

**Rear Jetting Hose Reel**

**Rear Work Lights**

**Receptacle and Hand-Held Spotlight**

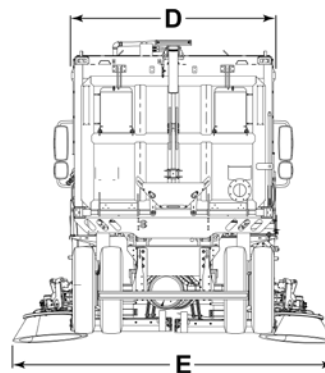
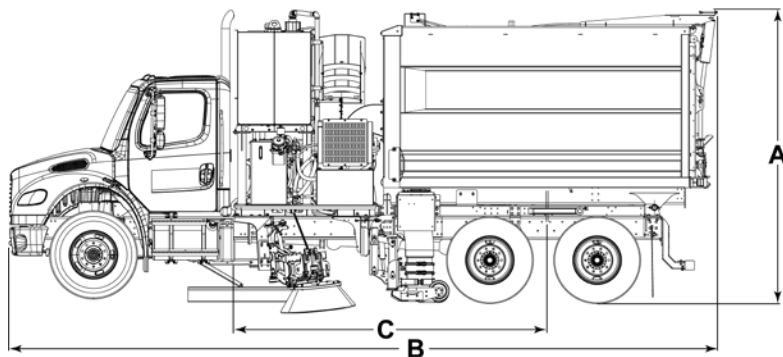
**Side Broom Tilt**

**Tool Boxes**

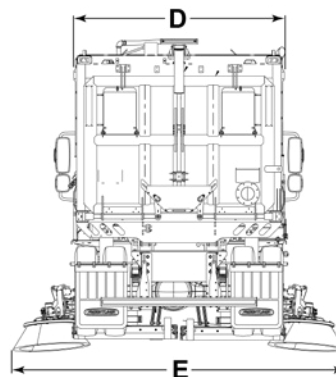
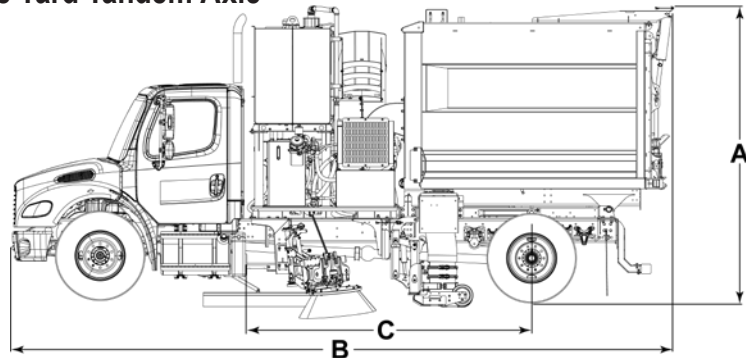
**Wireless Pendant:** Installed in addition to wire pendant. All of the following with speed control: debris body raise/lower, tailgate lock/unlock, tailgate raise/lower, fan on/off, water pump on/off and rear boom raise/lower. Emergency stop and optional vibrator on/off.

**Work Lights:** Passenger side or driver's side

### 16 Cubic Yard Tandem Axle



### 13 Cubic Yard Tandem Axle



DIMENSIONS	DIMENSIONS	
	SS13	SS16*
A. Overall Height	11'5" (3.5m)	11'9" (3.7m)
B. Overall Length	25'8" (7.8m)	28'4" (8.6m)
C. Clear CA Required	11'3" (3.4m)	12'8" (3.8m)
D. Overall Width	8'4" (2.5m)	8'4" (2.5m)
E. Sweep Path	96"-154" (2.4-3.9m)	96"-154" (2.4-3.9m)

**NOTE:** All dimensions shown are applicable to Freightliner M2-106 Chassis only.

\* Rear Tandem Axle Required.

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Vacall machines are designed and manufactured by Gradall Industries LLC., a world leader in the production of versatile, reliable maintenance machines. It is our policy to continually improve our products. Therefore, designs, materials and specifications are subject to change without notice and without incurring any liability on units already sold. NOTE: some options shown in pictures.

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