

VACALL™

AllSweep



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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 - .25 in. (6.35mm) 30 KSI Steel

DEBRIS HOPPER

Volumetric Capacity - 10, 13 or 16 yds³ (7.6, 9.9 or 12.2m³)
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 steel construction
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 - Dual polyethylene
Water System Capacity - 350 gal. (1135 L) standard
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 BROOM

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

Optional Sweep Gear: Passenger Side, Driver Side or Dual

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 - (with 36 in. gutter brooms)
Single Suction Nozzle Width - 48 in. (1219 mm)
Dual Suction Nozzle Width - 96 in. (2438 mm)
Single Suction Nozzle & Broom Width - 77 in. (1956 mm)
Dual Suction Nozzle & Single Broom Width - 25 in. (3175 mm)
Dual Suction Nozzle & Dual Brooms Width - 154 in. (3912 mm)

VACUUM NOZZLE

Nozzle Width - 48 in. (1219 mm)
Pickup Area - 446 in² (288,000 mm²) per nozzle
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

Optional Rear Vacuum Hose and Boom

REAR VACUUM HOSE

Hose Connection - Swivel Clamps
Hose Construction - Flexible rubber, steel reinforced
Hose - 8in. (203mm) Standard, Optional 12 in. (305 mm) inside diameter; 100 in. (2540 mm) long

ARTICULATED HOSE BOOM

Boom - Hydraulically powered boom functions
Lift Capacity - 1000lb. (454kg)
Boom Controls - Wired pendant with in-cab controls with up/down variable speed

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OPTIONS

Super Sweep - Enables vacuum from both nozzles simultaneously

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

Stainless Steel Hopper Screens - Includes stainless steel screen tracks

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

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

Debris Body - Cor-Ten steel construction and/or interior powder coat paint

LED Strobe Lights

Rear Work Lights

Rear Boom Twin Beacon Lights

Rear Jetting Hose Reel

Tool Boxes

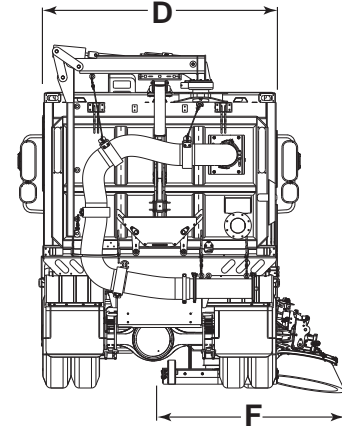
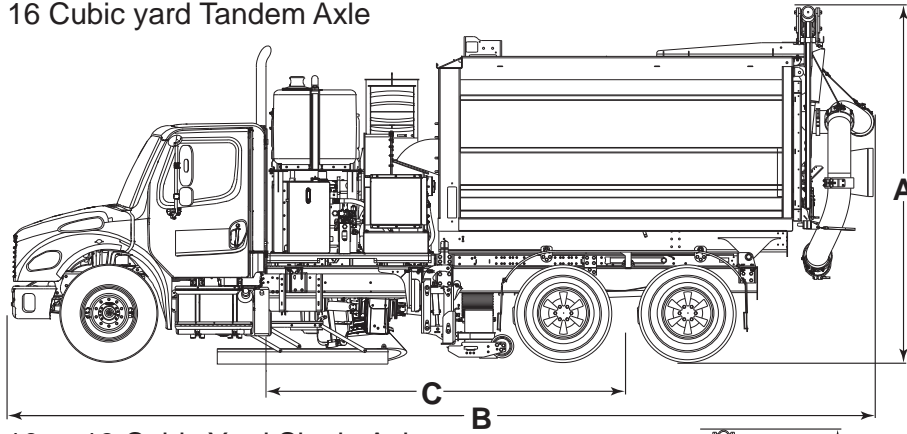
Receptacle and hand-held Spot Light
Side Broom Tilt

Water Tanks - 350, 420 and 600 gallon (1325, 1590 and 3371L)

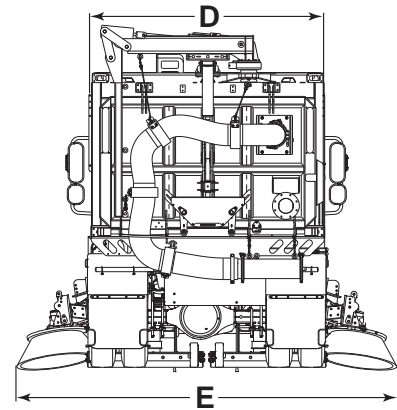
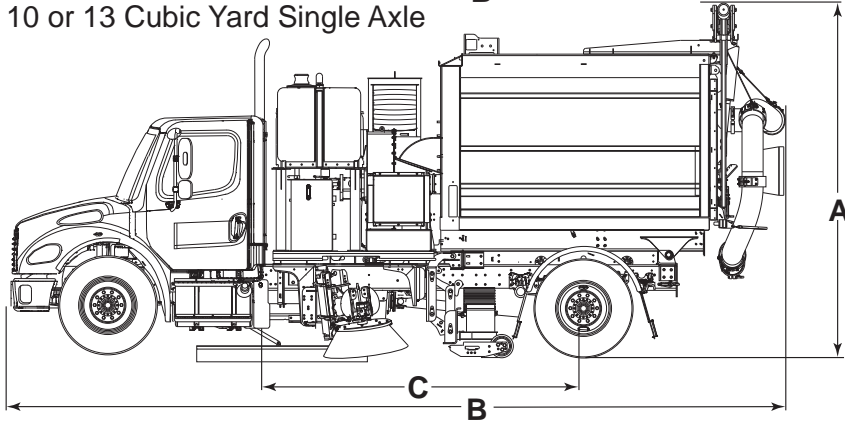
Wireless Pendant - Installed in addition to wire pendant. All of the following with speed control: debris body raise/lower, tailgate lock/unlock, tailgate raise/lower, fan on/off, water pump on/off and rear boom raise/lower. Emergency stop and optional vibrator on/off.

Work Lights - Passenger side or driver's side

16 Cubic yard Tandem Axle



10 or 13 Cubic Yard Single Axle



DIMENSIONS	MACHINE MODEL NUMBERS					
	AS10	AS10D	AS13	AS13D	AS16*	AS16D*
A. Overall Height	11' 6", (3.5m)	11' 6", (3.5m)	12' 5", (3.7m)	12' 5", (3.7m)	12' 7", (3.9m)	12' 7", (3.9m)
B. Overall Length	27' 3", (8.3m)	27' 3", (8.3m)	27' 3", (8.3m)	27' 3", (8.3m)	29' 0", (8.8m)	29' 0", (8.8m)
C. Clear CA Required	135", (3.4m)	135", (3.4m)	135", (3.4m)	135", (3.4m)	152", (3.9m)	152", (3.9m)
D. Overall Width	8' 4", (3.5m)	8' 4", (3.5m)	8' 4", (3.5m)	8' 4", (3.5m)	8' 4", (3.5m)	8' 4", (3.5m)
E. Dual Sweep Path	N/A	96"-154", (2.4-3.9m)	N/A	96"-154", (2.4-3.9m)	N/A	96"-154" (2.4-3.9m)
F. Single Sweep Path	48"-77", (1.2-2m)	48"-77", (1.2-2m)	48"-77", (1.2-2m)	48"-77", (1.2-2m)	48"-77", (1.2-2m)	48"-77", (1.2-2m)

Certified ISO 9001 • 1-16

Form No. 11605 • Printed in U.S.A.

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

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

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