

M6 AVALANCHE TWIN ENGINE SWEEPER FEATURES AND OPTION LISTING

HYDRAULIC SYSTEM	MAIN BROOM
Pump, Variable displacement load sense piston	Diameter, 36"; Length 58"
Hydraulic Tank, 35 gallon, w/ shut-off valve	Hydraulic Direct Drive / In Cab Adjustable Variable Speed
Tank & Cab mounted level and temperature indicator	In-Cab Adjustable Pneumatic lift w/ Positive lift Lock
Hydraulic system pressure, 3200 psi	Brush type: Solid core, Wafer or poly strip broom
5 Micro Tank Breather Filter	2" wide Tungsten Carbide Trailing Arm Dirt Shoes
10 micron cartridge return filter	Self-Aligning Bearings, Triple Sealed & Shielded
100 Mesh Suction Strainer	GUTTER BROOMS
120,000 BTU oil to air twin fan oil cooler	49" Diameter
PNEUMATIC SYSTEM	5 Segment Wire Filled Vertical Digger
Electronic Digital Readout Air Regulators	Hydraulic Direct Drive / In Cab Adjustable Variable Speed
Auxiliary Air Tank - 1,488 cu. in. capacity	Free Floating Air Suspension & Air Extension
Electro-Pneumatic valves with push to connect fittings	DUST CONTROL SYSTEM
HOPPER	Heavy Duty Electric diaphragm water pump
Construction, A36 Carbon Steel, 10 Gauge, 3/16" Floor	50 PSI, 5.88 GPM
Roof skylights plus LED illumination & viewing window	Water tank capacity 350 gallons, polyethylene
Capacity, 5.0 Cu.Yd.	25-foot long fire hydrant fill hose
Lift Capacity, 14,000 LBS	50 mesh cleanable filter, with shut off valve
Twin Cylinder Scissor Lift and Dump	Five nozzles in front of main broom

Effective Date 2/3/2016

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Variable Dump Height, 16" to 138"	Seven nozzle front spray bar
Side Inspection Door with Built In Ladder Access	Four nozzles per gutter broom
External weatherproof dump switches	Air purge system for flushing water lines
ENGINE	OPERATING CONTROLS
Yanmar 4TNV98C-NYEM 69 HP, Liquid Cooled	Six Sense - Six programmable sweep settings
SQUEEGEE CONVEYOR	Swivel base console for left or right sweeping
Heavy Duty, Constant-Radius Roller Chain	Keyed Ignition switch & Electronic Throttle
Self-Aligning Bearings, Triple Sealed & Shielded	Voltmeter, tach, oil pressure, water temp and hour meter
Hydraulic Direct Drive / In Cab Adjustable Variable Speed	Back lit sealed rocker switches with icon and text markings
Bolt In 3/16" Abrasion Resisting Floor Plate	7" TFT LCD color display, 800 x 480 pixels
BELT CONVEYOR	SAFETY EQUIPMENT
Heavy Duty Multi-Ply Belt w/ Full Width Cleats	Two body props to lock hopper in raised position
Self-Aligning Bearings, Triple Sealed & Shielded	Rear Amber LED Strobe / 4 way LED flashing lights
Hydraulic Direct Drive / In Cab Adjustable Variable Speed	Rear view camera system
SWEeper WARRANTY	Slow moving vehicle emblem, backup alarm,
12 Months 1200 Hours	5-lb fire extinguisher, and a warning triangle kit.
Single Engine Sweeper Body Deduct (Must use Single Engine Chassis)	\$ (16,850.00)
Squeegee Conveyor	\$ 0.00
Belt Conveyor	\$ 0.00
Main Broom, Tube, Standard	\$ 0.00
Main Broom, Strip	\$ 515.00
Main Broom , Wafer	\$ 410.00
Main Broom, Wafer Ploy/Steel	\$ 670.00
Broom, Dual	\$ 0.00
Broom, Tilt Power Dual	\$ 1,700.00
Broom, Reversible - Per Side (Specify Side)	\$ 880.00
Auto Lube System Vogel Chassis & Sweeper	\$ 9,435.00
Auto Lube System VogelSweeper	\$ 9,120.00
Auto Lube Fill Kit, Pump and Grease	\$ 440.00
Autolube GL2 Sweeper/Chassis	\$ 11,800.00
Autolube GL2 Sweeper Only	\$ 10,395.00
Remote Grease Point, Conveyor/Main Broom	\$ 260.00
Toolbox Behind Cab (Cabover Only)**	\$ 1,075.00
Manual, Sweeper, Additional Copy	\$ 235.00
Additional Squeegee Conveyor	\$ 17,805.00
Additional Belt Conveyor	\$ 17,805.00
Camera System, Single	\$ 0.00
Camera System, Dual	\$ 295.00
Camera System, Three	\$ 590.00
Hydraulic Filter RestrictionAlarm&Ind	\$ 125.00
Hydraulic Pressure Gauge @ Valve Bank	\$ 160.00
Hydraulic Pressure Gauge @ Valve Bank W/6" Hose	\$ 190.00
High Pressure Washdown w/ Hose Reel	\$ 2,890.00
Brass Frt. Spray Bar in lieu of std	\$ 650.00
Additional 350 Gallon Water Tank* Cabover Only	\$ 3,325.00
Water Fill Strainer	\$ 280.00

Hopper, Standard	\$ 0.00
Hopper, Stainless Steel (SS) ~LIFETIME WARRANTY~	\$ 7,775.00
Hopper Full Alarm & Indicator	\$ 150.00
Hopper Load Leveler	\$ 3,325.00
Hopper Dump Assist Shaker	\$ 1,310.00
Engine Oil Heater, Deutz	\$ 145.00
Twin Glow Plug to -20 F, Deutz	\$ 475.00
Air Filter Restriction Ind. In-Cab. Deutz	\$ 145.00
Water/Fuel Separator. Deutz	\$ 195.00
Strobe, Rear W/Guard LED (Std) 1 ea or	\$ 0.00
Strobe, Rear LED 1 each or	\$ 0.00
Strobe, Dual Rear LED	\$ 385.00
Strobe, Dual Rear W/Guard LED	\$ 590.00
Floodlight, LED ***	\$ 210.00
Arrowboard, Traffic Guide, SplitLED	\$ 1,370.00
Barlight, Rear LED	\$ 715.00
Barlight, Rear W/Guard LED	\$ 775.00
Hopper Dump Light, LED	\$ 385.00
Strobe, Cab LED	\$ 220.00
Strobe, Cab W/Guard LED	\$ 315.00
Barlight, Cab LED	\$ 700.00
Barlight, Cab W/Guard LED	\$ 770.00
Paint, Standard	\$ 0.00
Paint, Special: Sweeper Unit Only	\$ 1,025.00
Paint, Special: Chassis Only	\$ 3,235.00
Decal Kit	\$ 0.00
Freightliner M2 33K DS 2500 '16 (AIR) SINGLE ENGINE CNG	Contact Factory
Freightliner M2 33K DS 2500 '16 (AIR) SINGLE ENGINE	\$ 92,750.00
Freightliner M2 33K DS 2500 '16 (AIR) TWIN ENGINE	\$ 83,250.00
Autocar Expert 33K 2500(6SpeedTran)'15 1SP (AIR) TWIN ENGINE	\$ 102,180.00
Kenworth K370 RHS 33K '16 TWIN ENGINE	\$ 92,600.00
Kenworth K370 Dual Steer 33K '16 TWIN ENGINE	\$ 104,230.00
IH 4300 200HP Cummins Dual Steer '16 TWIN ENGINE	\$86,600.00
Customer Supplied Other Chassis Mounting Fee	\$ 2,500
Customer Supplied International Chassis Mounting Fee	\$ 5,000
Customer Supplied Autocar Chassis Mounting Fee	\$ 4,000
Mirror, 12" Parabolic, Set	\$ 375.00
Air Filter Restrict Ind Chassis	\$ 300.00
Tire & Rim, Spare M2	\$ 1,430.00
Block Heater	\$ 350.00
Horn, Air M2	\$ 1,795.00
Rim, Spare M2	\$ 430.00
Magnet, Bar, 90" FL M2	\$ 2,010.00
Magnet, Bar, 87" Self Dumping, FL M2	\$ 4,690.00
Mirror, 12" Parabolic, Set	\$ 375.00
Seat, Suspension Hiback, Each *	\$ 1,125.00

Air Filter Restrict Ind Chassis	\$	300.00
Tire & Rim, Spare IH	\$	1,430.00
Block Heater, IH 4300	\$	350.00
Tow Hooks, IH	\$	270.00
Rim, Spare IH	\$	230.00
Magnet, Bar, 90" IH	\$	2,010.00
Magnet, Bar, 87" Self Dumping, IH	\$	4,690.00
Mirror, 12" Parabolic, Set	\$	375.00
Magnet, Bar, 90" Paccar	\$	2,010.00
Air Filter Restrict Ind Chassis	\$	190.00
Tire & Rim, Spare AutoCar	\$	1,430.00
Horn, Air Auto Car	\$	1,795.00
CNG Conversion Upcharge (SINGLE ENGINE CONFIGURATION ONLY)	\$	53,085.00
STANDARD- 1 Year or 1200 hours	\$	0.00
SILVER- 2 Years or 2400 Hours	\$	2,345.00
GOLD- 3 Years or 3600 Hours	\$	5,825.00
PLATINUM- 4 Years or 4800 Hours	\$	8,170.00
DIAMOND- 5 Years or 6000 Hours	\$	10,305.00



The People You Know. The Products You Trust.



M6 AvalancheTM

5 Cubic Yard Mechanical Broom Street Sweeper



*Sweeper shown with optional equipment

- Easy Change Conveyor System
- Central Located Control Components
- Illuminated Hopper Interior
- 5 Micron Water Filter System

Quality	Performance	Public Safety	Value	Customer Support

800.879.7933

www.schwarze.com

Up to 138" Dump Height

M6 Avalanche™

5 Cubic Yard Mechanical Broom Street Sweeper



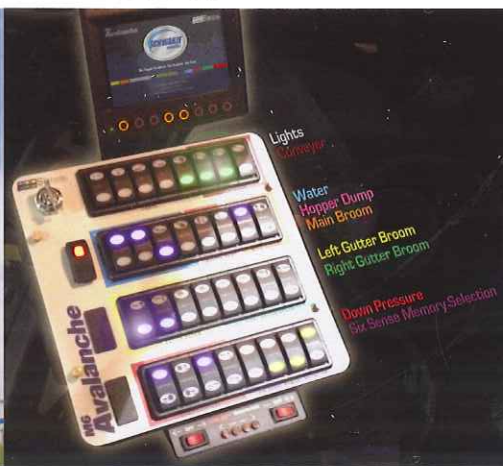
*Optional Equipment Shown, Blue Frame Special Order

Variable high dump with up to 52 degree dump angle.

Easy to use backlit switches with text and icon labels.



49" Diameter Side Broom(s) with Gutter Broom Extension Override.



Easy access to sweeping and control components.

MUST HAVE OPTIONS

CONVEYER

Choose between a belt or squeegee conveyor.

GREATER VISION

Add up to two additional cameras (3 total) to the backup camera system.

PRESSURE WASHING

Add a pressure washer with hose reel for easy cleanup and pressure washing.

GET NOTICED

With your choice of arrowboard, extra flood lights and extensive safety lighting.





VALUE

We are dedicated to satisfying our customers by providing the most advanced training for their specific needs. Our training programs are designed to help operators of all skill levels learn the best operating practices for their Schwarze equipment.



PERFORMANCE

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology, but doesn't always have to be. Some of our best ideas have been simple, based on a clear and deep understanding of our customers' working lives.



QUALITY

In a Schwarze product, end user concerns like fuel efficiency, serviceability, durability, purchase cost, service cost, etc. are all taken into account. We also consider the needs and strive for ease of use and application optimization. It should be obvious, because when it comes to cost of ownership, quality pays.



PUBLIC SAFETY

No other name speaks safety louder than Schwarze. Protecting operators, those around them, and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.



CUSTOMER SUPPORT

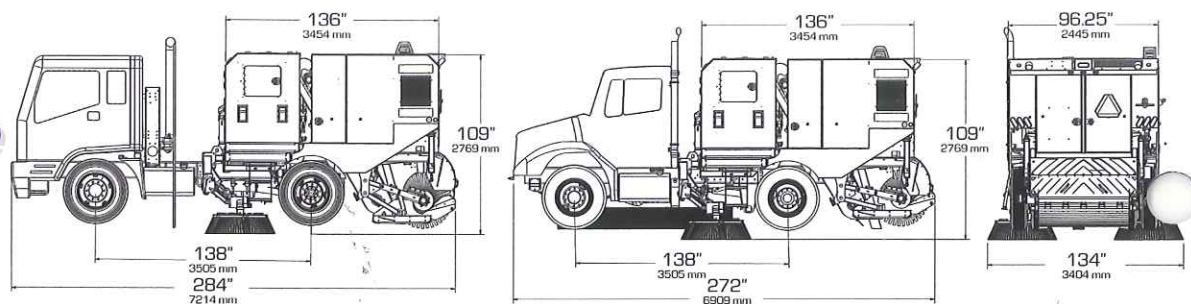
Being a Schwarze customer means having a complete set of services at your fingertips. Schwarze can offer you a long-term relationship, protect your revenue and provide a full range of customer solutions, delivered by passionate people. At Schwarze, we don't see effective service and support just as an added value to your purchase, but as an integral part of it.



Also Available from Schwarze Industries, Inc:



M6 Avalanche



*TYPICAL MEASUREMENTS SHOWN, EXACT DIMENSIONS DEPEND ON OPTIONS AND TRUCK MANUFACTURER

CONVEYER

Bearings	Self-aligning, triple-sealed and shielded
Conveyer floor	Bolt-on; replaceable
Speed	Forward and reverse, in-cab variable speed standard, independent from engine rpm
Adjustment	Threaded rack
Drive	Direct drive hydraulic; forward and reverse
Hopper connection	Positive seal to eliminate debris spillage
Suspension	Air cylinders with in-cab adjustment for lower conveyer lift
Conveyer jam warning	Console-mounted, light and alarm

CONVEYER / SQUEEGEE

Conveyer	Squeegee with replaceable flights
Conveyer chain	Precision, heavy duty, constant-radius roller chain
Flexibility	Flexes for large object passage
Cleaning	Built-in flushing system with high volume fan jet nozzles

CONVEYER / BELT

Conveyer	Heavy duty multi-ply belt with full width cleats
Cleaning	Built-in flushing system with high volume fan jet nozzles and lower roller flush

WATER SYSTEM

Capacity of tank	<i>SE conventional:</i> 350 gal (1325 L) <i>SE cabover:</i> 350 gal to 700 gal (1325 L to 2650 L) <i>TE conventional:</i> 200 gal (1230 L) <i>TE cabover:</i> 350 gal to 500 gal (1325 L to 2555 L)
Construction	Polyethylene
Filler	4 in (102 mm) air gap fill; tubular protected fill receptacle
Fill	Hose 25 ft with 2.5 in nst hydrant coupling (7620 mm x 63.5 mm)
Mounting	Bolt-on, removable
Pump	Electric diaphragm pump, 5.88 gpm (22.3 Lpm) at 50 psi (3.5 bar)
Spray bars	In-cab, independent control; 7 nozzles located across front bumper, 4 nozzles at each gutter broom and 5 nozzles across the main broom
Spray nozzles	All brass 80 degree fan pattern with 100 mesh tip strainer
Filter	200 mesh screen primary with 5 micron high capacity secondary filter

FUEL SYSTEM

Fuel tank	<i>Diesel</i> , 50 gallons (189.25 L) <i>CNG</i> , 50 DGE (Diesel Gal. Equivalent) at 3600 psi
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HYDRAULIC SYSTEM

Pump	Variable displacement load sense piston pump
Reservoir	35 gal (133 L) mounted above pump
Oil cooler	120 000 btu twin electric fans
Valves	Electro-mechanical; 12 V dc with lighted din connectors
Protection	Pressure relief
Controls	In-cab; all electric
Filtration	100-mesh suction, 10-micron return, 5-micron breather

ELECTRICAL SYSTEM

Voltage	12 V
Alternator	160 amp

SWEeper ENGINE (TWIN ENGINE ONLY)

Engine	Yanmar Tier 4 Final or Deutz Tier 4i
Alternator	55 amp
Displacement	202 cu in (3.3 L)
Horsepower	68 hp @ 2500 rpm
Torque	184 ft lb (250 Nm) @ 1600 rpm

GUTTER BROOMS

Location	Behind cab
Diameter	49 in (1245 mm)
Type	5 segment wire filled plastic recyclable head
Speed	in-cab variable speed standard, independent from engine rpm
Suspension	Free-floating with air suspension and air extension
Drive	Full hydraulic
Adjustments	Manual tilt; in-cab remote hydraulic tilt (optional)
Bristles	26 in (660 mm) wire
Center deflector	Raises and lowers automatically with main broom

MAIN BROOM

Diameter	36 in (914 mm)
Length	58 in (1473 mm)
Bristles	Replaceable solid core, poly wafer, poly wafer/steel combo or strip broom
Lift control	In-cab pneumatic lift with positive lock
Drive	Direct drive hydraulic motor
Mounting	Full floating
Speed	Forward and reverse, in-cab variable speed Standard, Independent from engine rpm
Bearings	Self-aligning
Dirt shoes	Trailing arm design with 2 in (51 mm) wide Tungsten carbide shoe with elastomeric flex link
Suspension	Air suspension with in-cab adjustment and display

DEBRIS HOPPER

Volumetric capacity	5.0 cu yds (3.82 cu m)
Construction	3/16 in floor, 10 gauge sides/roof, temper pass/pickled in oil carbon steel optional stainless steel
Gross lift capacity	14 000 lbs (6350 kg)
Dumping	Scissor-lift with hopper tilt
Dump height	(Variable) 16 in (406 mm) to 138 in (3505 mm)
Inspection	Side door with ladder access, front view window with double skylight and led illumination

GENERAL

Wheelbase	<i>SE and TE</i> - 139 in (3532 mm) <i>Cabover</i> - 132 in (3353 mm)
Length	<i>SE and TE</i> - 273 in (6934 mm) <i>Cabover</i> - 269 in (6833 mm)
Travel width	96 in (2438 mm)
Sweeping width	134 in (3404 mm) (brooms extended)
Overall height	113 in (2870 mm)
GVWR	33 000 lbs (14 969 kgs)

PAINT

One coat of sealer/primer and two coats of DuPont Imron Elite polyurethane white color

Note: Specifications are subject to change without notice.

Affiliates:



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