



The People You Know. The Products You Trust.

M6 Avalanche™



Model shown with optional equipment.



Quality	Performance	Public Safety	Value	Customer Support

800.879.7933

www.schwarze.com

1 TOUGH SWEEPER

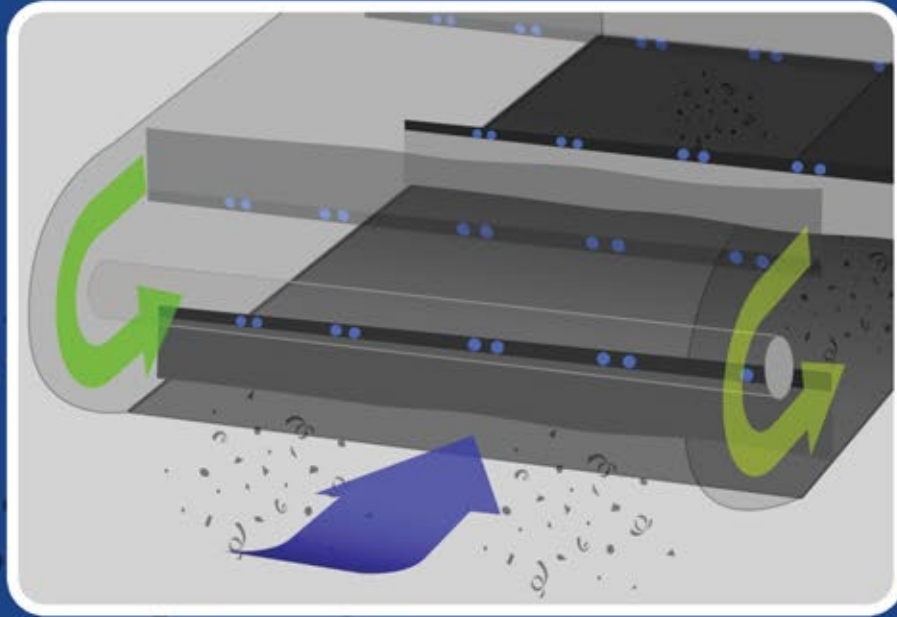
REVERSIBLE CONVEYER

During cleaning, a reversible conveyer provides a more efficient way to thoroughly clean the conveyer

13 RUBBER FLIGHTS ON SQUEEGEE TYPE CONVEYER

Removes debris from main broom quicker than competitive designs resulting in less trailing and increased heavy debris sweeping

Squeegee Conveyer



SCHWARZE INDUSTRIES
EASYCHANGE™
CONVEYER SYSTEM

FAN JET NOZZLE CONVEYER WASHOUT

Allows for thorough end of day washout of the conveyer system extending the life expectancy of all conveyer components

NOW YOU BETTER

**CORDED RUBBER BELT
CONVEYER WITH 13
FULL WIDTH CLEATS**

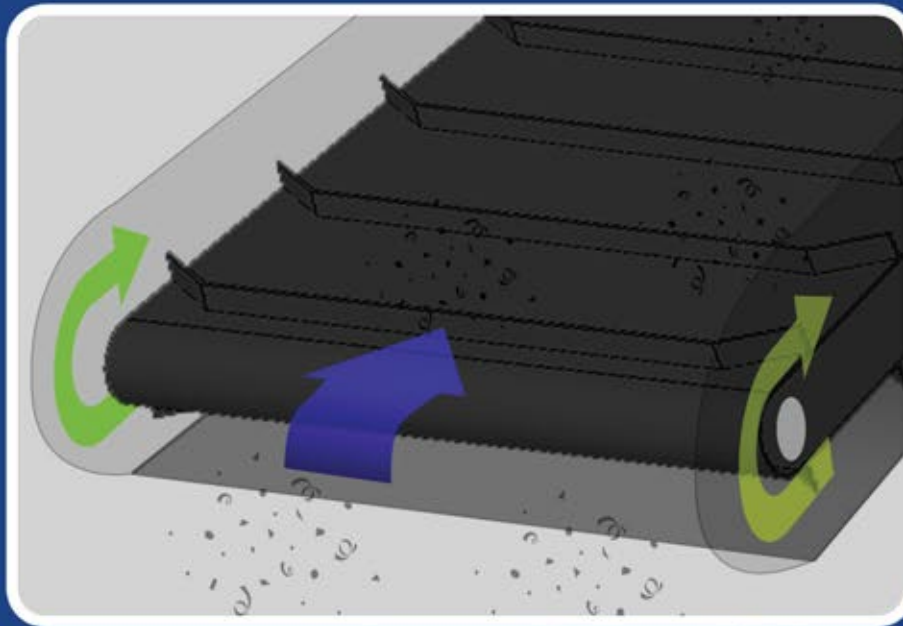
Carries larger debris
without stalling the
conveyer

2 VERSATILE OPTIONS

EASY CHANGE CONVEYER SYSTEM

Remove conveyer in just minutes. Change from belt to
squeegee conveyer or for easy repairs to conveyer or
housing

Belt Conveyer



**TWO-PIECE HARDENED
STEEL CONVEYER
FLOOR**

Longer life expectancy
equates to reduced cost
of ownership

**Change Conveyers In
Approx. 2 Hours!**



HAVE A CHOICE

M6 Avalanche™

The Schwarze M6 Avalanche™ is earning its reputation as the premier heavy duty mechanical broom sweeper in the American marketplace. The versatile Schwarze M6 Avalanche™ sweepers offer many of the design innovations that have become the Schwarze® hallmark. The Schwarze® Easy Change Conveyor System™ makes it a breeze to repair or replace a conveyor. Or go from a squeegee type to a belt type conveyor on the same machine. The free float, impact resistant, drag shoes take lateral impact from milling cuts, manhole covers and curbs and flexes back into place.

On the M6 Avalanche™ Twin Engine, a dependable Deutz diesel engine provides power for all sweeping functions, while the M6 Avalanche™ Single Engine sweeper functions are powered by the chassis engine via an Allison 3500 series Transmission.

COMPUTER CONTROLLED CUTTING & FORMING PROCESS

Guarantees a consistent cut part every time



MODULAR COMPONENTRY

Reduced repair time and cost of ownership

HYDRAULIC TEST PORTS

Reduces troubleshooting time with use of quick-disconnect gauge ports



SIX SENSE CONTROLS

Six programmable configuration selections
Gives the operator the ability to press one button and sweep
Can be programed for various sweeping conditions
Programed functions are previewed prior to activation via display

WIRING HARNESS COLOR CODED AND FUNCTION IMPRINTED EVERY 6"

Provides easily identifiable wires and reduces maintenance downtime

CENTRALLY LOCATED CONTROL COMPONENTS

Electrical controller, Hydraulic Directional Valves, Pneumatic Valves & Regulators, Water Pump, Valves & Filter, Auxiliary Engine (TE Models), Hydraulic Reservoir (TE Models)

BACKLIT SWITCHES WITH TEXT AND ICON LABELS

Rocker switch for each function that changes color when activated

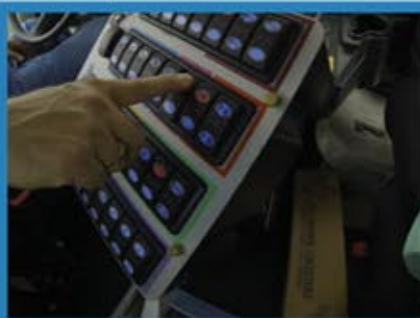


TFT LCD COLOR DISPLAY

Hourmeters for Engine & Brooms, Hydraulic Oil Temperature, Engine Temperature, Oil Pressure, Water Level, Tachometer, Voltage, and on-screen indicators for each function

PM 10 CERTIFIED

Meets AQMD 1186 requirements to pick up and contain harmful particulates





GLOBAL SUPPORT

Schwarze staff will set-up and train on location world-wide

WARRANTY SUPPORT

Schwarze people are on duty to support you and your equipment

TRUSTED DEALERS

Trusted dealers will support your before and after-purchase needs

52 DEGREE DUMP HOPPER DUMP ANGLE

Equates to a better dump action of the hopper allowing for a cleaner dump



10 GAUGE STEEL HOPPER WITH 3/16" HOPPER FLOOR

Longer life expectancy equates to reduced cost of ownership



5.0 CUBIC YARD HOPPER CAPACITY

Increased hopper capacity equates to increased production and less dumps

45 SECOND DUMP CYCLE

Faster dumping equates to increased production and efficiency.

35 GALLON HYDRAULIC TANK CAPACITY

Reduces the heat buildup which creates a longer life expectancy for key hydraulic components

HOT SHIFT PTO

Provides unequalled power to the sweeper while eliminating the need to feather the chassis throttle for needed power in the most stringent of applications (Single Engine Only)

ENGINE SHUTDOWN SYSTEM

Reduces the risk of an engine failure due to high engine temperature or low oil pressure. Also monitors hydraulic oil level and temperature for shutdown

PARKING BRAKE INTERLOCK MAXIMUM SAFETY

Does NOT allow hopper to be raised or tilted unless brake is set and chassis shifts to neutral automatically when brake is set

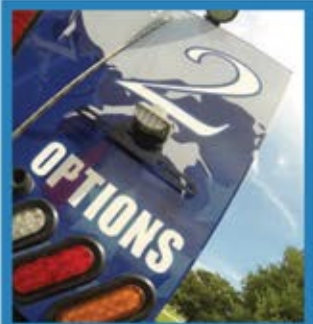
SEPARATE SWEEPER AIR TANK

Adds to air reserve, protected by priority safety valve



OIL COOLED DEUTZ ENGINE

Heavy duty Tier 4i industrial engine with 75 HP that does not require a radiator equating to less maintenance and less overall cost of operation





**AMERICAN BUILT
AMERICAN MADE**



PARTS AVAILABILITY

Schwarze original equipment parts are available when you need them

INDUSTRY INVOLVEMENT

Schwarze supports the industry trade shows and industry associations

LOAD LEVELER

Allows for an increase in usable capacity, less dumps during a shift and increased production



48" DUMP DOOR

Eliminates the need for a hopper side shift and another moving part. Less maintenance while still giving operator ability to dump into center of dump bed or container

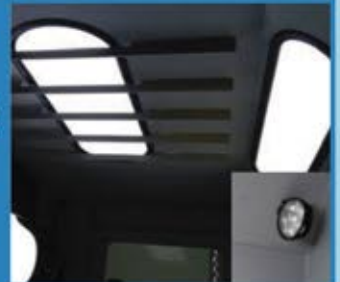


3:1 DESIGN FACTOR IN THE DESIGN OF THE HOPPER LIFT SYSTEM

Longer life expectancy equates to reduced cost of ownership

HOPPER INTERIOR ILLUMINATION

Front viewing window with two skylights for daytime and sealed LED flood light for nighttime viewing of hopper & conveyer



SLIDE BLOCKS ON SCISSOR LIFT

Provides more surface contact and better lift stability. Self-lubricating reducing overall maintenance



BRASS & GALVANIZED STEEL SPRAY BARS

- 7 Brass nozzle, front spray bar
 - 4 Dual nozzle, gutter broom spray bars
 - 5 Nozzle, main broom spray bar
- Each nozzle has separate tip filter and main broom spray bar has quick release for easy access



HOPPER HINGE POINTS DO NOT COLLECT DEBRIS

Clean design prevents material buildup

HIGH CAPACITY 5 MICRON WATER FILTER

Extends life and service intervals of water valves and nozzles



SINGLE ELECTRIC DIAPHRAGM WATER PUMP WITH 50 PSI AND 5.88 GPM CAPABILITY

Extra powerful pump eliminates need for multiple pumps while providing excellent atomization of the water for excellent fugitive dust control



M6 Avalanche™

The M6 Avalanche™ may be mounted onto either of two standard production conventional chassis. These are the Freightliner M2 or International 4300. The M6 Avalanche™ Twin Engine is also available in a cab-over version mounted on an Autocar Xpert cab-over chassis.

All available chassis models have a well-deserved reputation as being durable, comfortable machines to own and operate.

MAIN BROOM CURTAIN

Returns any debris, that may have been carried over the broom, back into the sweep path



ALL HYDRAULIC MOTORS ARE DIRECT DRIVE

Gutter Brooms, Main Broom and Conveyor direct coupled to high-torque hydraulic motors

INNOVATIVE DESIGN

Several Patents Pending

POLYETHYLENE MAIN BROOM COVER

Flexible cover that does not dent when an immovable object is encountered and eliminates rust and corrosion



3" AIR CYLINDERS ON MAIN BROOM

Allows for better main broom adaptation to the road surface and reduces leaving material in street pans equating to a cleaner sweep



MAIN BROOM LIFT

Uses same pneumatic cylinders, used for suspension, to lower, lift and lock broom in place for travel.

Cylinders mechanically lock the broom in the up position

LED LIGHTING

Increased visibility on the streets

PNEUMATIC TRAILING ARM GUTTER BROOMS

Greater flexibility and give around obstacles. Full in-cab control of broom down pressure



FREE FLOATING TRAILING ARM DRAG SHOE

Allows positive contact with the ground and broom to minimize debris trailing. Flex member prevents damage during lateral movements. 2 year warranty on carbide shoe



PNEUMATIC (GEO) GUTTER BROOM EXTENSION OVERRIDE

Infinite lateral in-cab adjustment from fully retracted to fully extended

IN CAB 27 DEGREE HYDRAULIC TILT

Allows on the fly gutter broom adjustments without the operator leaving the cab

49" DIAMETER GUTTER BROOMS

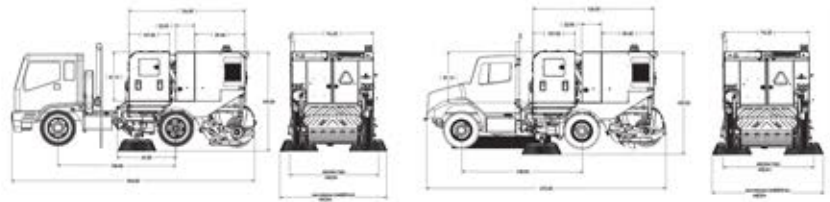
Better debris transfer towards main broom equating to less trailing and overall better sweeping ability



Also available from Schwarze Industries, Inc.



M6 Avalanche



Design and specifications subject to change without notice.

CONVEYER / SQUEEGEE

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

CONVEYER / BELT

Conveyer	Heavy Duty multi-ply belt with full width cleats
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
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. (1325L) <i>SE cab over</i> - 350 to 700 gal. (1325 to 2650L) <i>TE conventional</i> - 200 gal. (1230L) <i>TE cab over</i> - 350 to 500 gal. (1325 to 2555L)
Construction	Polyethylene
Filler	4" (102 mm) air gap fill; tubular protected fill receptacle
Fill	Hose 25' with 2.5" NST hydrant coupling (7620mm x 63.5mm)
Mounting	Bolt-on, removable
Pump	Electric diaphragm pump. 5.88 GPM (22.3 LPM) at 50 PSI (3.5 Bars)
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 gallons (133L), mounted above pump
Oil Cooler	120,000 BTU twin electric fans
Valves	Electro-mechanical; 12-volt 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-volt
Alternator	160 AMP

SWEPPER ENGINE (TWIN ENGINE ONLY)

Auxiliary for twin engine	Deutz Tier 4i, In-line 4-cylinder Turbo Charged diesel
Displacement	221 cu. in. (3.62 L)
Stroke	5.0" (125 mm) Bore 3.8" (96 mm) Compression Ratio 18:1
Horsepower	75HP (56 kw) @ 2600 rpm
Torque	184 ft. lb. (250 Nm) @ 1600 rpm

GUTTER BROOMS

Location	Behind Cab
Diameter	49" (1,245 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" (660mm) wire
Center Deflector	Raises and lowers automatically with main broom

MAIN BROOM

Diameter	36" (914mm)
Length	58" (1,473mm)
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" (51 mm) wide Tungsten carbide shoe w/ Elastomeric flex link
Suspension	Air Suspension with in-cab adjustment and display

DEBRIS HOPPER

Volumetric Capacity	5.0 cu. yds. (3.82 m3)
Construction	3/16" Floor, 10 gauge sides/roof, Temper Pass/Pickled in Oil Carbon Steel Optional Stainless Steel
Lift Capacity	14,000 lbs.(6350 kg)
Dumping	Scissor-lift with hopper tilt
Dump Height	[Variable] 16" (406 mm) to 138" (3,505 mm)
Inspection	Side door with ladder access, front view window with double skylight and LED illumination

GENERAL

Wheelbase	<i>SE and TE</i> - 139" (3,532 mm) <i>Cab Over</i> - 132" (3,353 mm)
Length	<i>SE and TE</i> - 273" (6,934 mm) <i>Cab Over</i> - 269" (6,833 mm)
Travel Width	96" (2,438mm)
Sweeping Width	134" (3,404mm) (brooms extended)
Overall Height	113" (2,870mm)
GVWR	33,000 lbs. (14,969 kgs)

PAINT

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

Just a few of the options offered on the M6 Avalanche™

Arrow Board, Rear View Camera, Hopper full indicator, Extra LED flood lights, Extensive safety lighting, Pressure washer with hose reel, Reversible Gutter Brooms

WARRANTY

The Schwarze M6 Avalanche sweeper is guaranteed to be free from defects due to faulty materials and/or workmanship for a period of 12 months or 1200 hours. Liability is limited to replacement of defective parts at factory or authorized dealer. The standard warranty of the chassis or auxiliary engine manufacturer, if so equipped shall apply.

Note: Specifications are subject to change without notice.

Affiliates:



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