



Product Specifications

M6000 TE/CO

Twin Engine Cabover Mechanical Power Sweeper



Competitive Advantages of the Schwarze M6000 Twin Engine Cabover

The Schwarze model M6000 line is earning a reputation as the premier heavy duty mechanical broom sweeper in the American marketplace. In addition to this M6000TE/CO model, M6000 sweepers are available mounted onto conventional chassis in either twin or single engine configurations. The versatile Schwarze M6000 series sweepers also offer many of the design innovations that have become the Schwarze hallmark, and most major components are interchangeable on all M6000 models.

This M6000TE/CO model is designated as a TE model because of its twin engine design. A dependable Deutz diesel operates all sweeping functions. This M6000 is mounted on a cabover (CO) chassis, the 32,000 GVWR Sterling model SC8000. The Sterling SC8000 chassis is known for its durability. Teamed with a 5-speed automatic transmission, 21,000 lb. capacity 2-speed rear axle, and 18' turning radius, it's an ideal chassis for the large, 5 cubic yard carrying capacity of the M6000TE/CO.

The M6000's variable height dumping system leads the industry in terms of versatility. And, due to the machine's 48" long dump door, your operator doesn't have to be 'mirror-to-mirror' with a dump truck in order to offload into the center of it.

The M6000 model sports a number of Schwarze-only innovations designed to increase productivity and reduce downtime. Other benefits of the M6000's state-of-the-art design features include greater operator comfort and a lower total cost of operation.

In addition to its M6000 mechanical broom sweeper models, Schwarze Industries also offers a complete line of air sweepers. These range from the 4.3 cu. yd. model A4000, which requires no CDL to operate, to the largest, most powerful regenerative air sweeper in the industry, the 9.6 cu. yd. Schwarze A9000.

Schwarze is also America's leading manufacturer of sweepers designed for parking area applications, and maker of the first-ever high-efficiency *pavement cleaners*. Schwarze's EV sweepers are environmental particulate management machines that remove material as small as 2.5 microns.

Hopper

The M6000 hopper has a 5 cubic yard volumetric capacity. This large size requires fewer trips to a dumping facility. The M6000 offloads from the right side, using a variable height, scissor-lift system that provides strength and stability in even the most extreme applications.

The dual cylinder scissor-lift system is made from reinforced 3" x 6" steel tubing, and has a sliding-block mechanism that is self-cleaning.

The hopper may be dumped at ground level, or at any other height up to 14' 6" (11' 6" to bottom of dump door). This allows the operator to offload into a wide variety of containers or trucks, including triple axle dump trucks and dump trailers equipped with sideboards. Plus, because of the M6000's extra long 48" dump door, the sweeper doesn't need to be right next to the dumptruck when offloading.

Hopper dumping may be performed from inside the cab or via switches located outside of the sweeper. This feature provides increased safety by allowing the operator total control and excellent visibility.

The M6000's elevator is outfitted with a water flushing system to assure long life.

The M6000's hopper, like the rest of the sweeper, has been quality engineered to provide more sweeping production per day, with similar increases in sweeping productivity and debris removal per year.



Commercial Chassis

The M6000's ability to travel at normal highway speeds saves time and allows more sweeping per shift. The cabover chassis also provides greater visibility and operator comfort.

The sweeper chassis is easy to work on, and requires a minimal onhand parts supply. Parts and service are readily available at any Sterling truck chassis dealership.

Each standard production, commercial chassis meets or exceeds all OSHA requirements for ride and comfort, and has a proven track record in safety and reliability.

The chassis is fitted with air-ride seats on both the left and right sides. And, because the M6000 is mounted on a standard production chassis, your operator will have an immediate familiarity with the chassis controls. This, in combination with the added comfort afforded to operators, contributes to a higher overall level of productivity.



Gutter Brooms

The M6000's hydraulically-driven gutter brooms are available in either 44" or 49" diameters and consist of five individual segments. Broom are of the forward-facing, digger-type; this design has earned a reputation as the most efficient way to transfer heavy material.

Standard features of the M6000 model include in-cab controls for both tilt and downpressure. Their large size requires fewer revolutions, compared to smaller brooms, and their free-floating design allows them to follow the contour of the pavement.

These features extend the life of the individual gutter broom segments, as well as ensure excellent transfer of debris to the main broom's sweeping path.



Auxiliary Engine

The proven performance of a Deutz auxiliary engine supplies power to all hydraulic sweeping components. This engine generates a powerful 75.5 hp at 2800 rpm. During normal sweeping, the Deutz engine's noise output is extremely low.

The Deutz company's highly regarded oil cooling system eliminates the need for all the items normally associated with a water-cooled engine, including the radiator, hoses and water pump. This reduces maintenance and operating costs, as well as providing superb engine life.

The air filter is a 2-stage, dry type, and includes a centrifugal precleaner. These factors help ensure a longer engine life and a cleaner environment.



Fuel Tank

The M6000TE/CO's large 56 gallon fuel tank is mid-mounted at frame height for safety and easy access. Time saved during refueling translates to increased productivity.



Main Broom

The Schwarze M6000TE/CO features a full-floating, rear-mounted main broom and carbide-insert skids. The broom size is standard, 58" wide by 36" in diameter.

The main broom comes equipped with 2.5" pneumatic cylinders. These allow instant main broom pattern adjustment from in the cab, so it's easy to maximize performance in any application.



To assure contour sweeping, the cylinder lowers with no resistance. This allows the main broom to follow road contours seamlessly. The broom is driven by a hydraulic motor via an efficient chain drive system.

The broom cover raises easily and is held in place by twin gas shocks. This allows for easy access for inspection, removal and replacement of the rear broom.



Squeegee-Type Elevator

The 58" wide elevator has 13 flights and a heavy duty pivot frame that eliminates elevator twist during raise/lower. Chain tensioning takes just a few minutes and requires no tools.

For leaf sweeping, elevator height may be controlled 6"-9" from inside the cab. Direction of rotation is reversible for ease in cleaning and for dislodging debris that may have stalled or jammed the elevator.



Hydraulic System

Hydraulics feature a load-sensing, variable displacement pump. All components are easy to access, have built-in LED diagnostics and are field-proven.

Broom hydraulics have priority flow, diverting to cylinder functions momentarily as required. Valves are isolated and grouped, with sweeping functions located on the left side of the sweeper and cylinder functions on the right.



Water and Dust Suppression

The polyethylene water tank (total capacity 350 gallons) is extremely durable and light-weight. Its large capacity reduces the number of times the tank must be filled each day, so sweeping production is increased.

Water flow to each spray bar is independently controlled from inside the cab. There are 7 nozzles located on the front bumper and 3 on each gutter broom. The optional spray bar for the main broom has 5 nozzles. The water pump automatically disengages when the water supply is depleted. The 25-foot fill hose, with a quick detachable 2.5" NST hydrant coupling, is included.

Access to the water filter is easy. To eliminate the possibility of damage to water lines in freezing weather, an air purge system is included as standard equipment.

Single and twin engine-powered Schwarze M6000 models are also available on both Freightliner and International conventional chassis.

Ask your Schwarze dealer representative for more information or a brochure that contains complete information on these other M6000 models.



Control/Instrument Panel

The instrument panel on the Schwarze M6000 is designed to be user friendly. The sweeper's control switches are located in succession for ease of operation.

All controls are well lighted for nighttime operation, and are easy to reach from either operating position. The panel has a switch for the lights, optional controls and each sweeper function.

It also includes a tachometer and gages for oil temperature and oil pressure. To eliminate the potential for engine damage due to high oil temperature or low oil pressure, the M6000 is also equipped with an automatic shutdown system.



M6000TE/CO Specifications

GENERAL:

Wheelbase	(Sterling SC8000) 121" (3,073 mm)
Length	(Sterling SC8000) 266" (6,756 mm)
Travel Width	96" (2,438 mm)
Sweeping Width (brooms extended)	120" (3,048 mm)
Overall Height	113" (2,870 mm) to top of sweeper; 118" (2,997 mm) to top of chassis air intake
GVWR	32,000 lbs. (14,515 kgs)

GUTTER BROOMS:

Location	Behind cab
Diameter	44" (1,143 mm); optional 49" (1,245 mm)
Type	5 segment; plastic, disposable
Speed	Variable (optional)
Flex	Free-floating with air suspension
Drive	Full hydraulic
Adjustments	In-cab remote for tilt (optional) and lift (hydraulic)
Bristles	26" (660 mm) wire
Center Deflector	Raises and lowers automatically

MAIN BROOM:

Diameter	36" (914 mm)
Length	58" (1,473 mm)
Bristles	Replaceable
Lift Control	In-cab hydraulic lift
Drive	Chain drive hydraulic motor
Mounting	Full-floating
Speed	Variable (optional)
Bearings	Self-aligning
Dirt Shoes	Carbide; 2" wide
Support	Air suspension

DEBRIS HOPPER:

Volumetric Capacity	5.0 cu. yds. (3.82 m ³)
Lift Capacity	14,000 lbs (6,350 kg)
Dumping	Scissor-lift
Dump Height (Variable)	16" to 138" (406mm to 3,505 mm)

Hopper includes safety pins, 18" x 21" inspection door (457mm x 533mm); 12" x 38" inspection window (305mm x 965mm); 8" x 38" skylight (203mm x 965mm)

1-800-879-7933
Email: support@schwarze.com

Note: Specifications are subject to change without notice.

SAFETY/LIGHTING:

The Schwarze M6000 meets all federal motor vehicle safety standards and is equipped with a fire extinguisher, hopper safety prop blocks, high mount back stoplight, hopper dump lights (optional), gutter broom and rear broom work lights. The M6000 is equipped with a parking brake interlock that automatically applies during all hopper movements.

CONVEYOR/ELEVATOR:

Conveyer	Squeegee with replaceable flights
Conveyer Chain	Precision, heavy duty, constant-radius roller chain
Bearings	Self-aligning; triple-sealed and shielded
Bottom	Bolt-on; replaceable
Speed	Forward & reverse (optional variable speed forward)
Flexibility	Flexes for large object passage
Adjustment	3-way positive
Drive	Hydraulic; forward and reverse
Conveyer/Hopper Connection	Positive seal to eliminate debris spillage
Suspension	Air cylinders
Lift Control	In-cab hydraulic
Conveyer Jam Warning	Console-mounted (optional)
Cleaning	Built-in flushing system

WATER SYSTEM:

Capacity of Tank	350 gallons (1,325 L)
Construction	Polyethylene
Filler	4" air gap fill tube; protected fill receptacle
Fill Hose	25' with 2.5" NST hydrant coupling (7,620 mm x 63.5 mm)
Mounting	Bolt-on, removable
Pump	Electric
Spray Bars	In-cab; independent control; 7 nozzles located across front bumper, 3 nozzles at each gutter broom, and 5 nozzles across the main broom elevator (optional)
Spray Nozzles	Front, gutter broom, pick-up broom
Filter	Fine mesh screen

FUEL SYSTEM:

Fuel Tank	56 gallons (212 L)
Location	Behind cab on left side

HYDRAULIC SYSTEM:

Pump	Variable displacement
Reservoir	35 gallons (133 L); mounted above pump
Oil Cooler	Electric; 60,000 BTU
Valves	Electro-mechanical; 12-volt DC
Protection	Pressure relief
Controls	In-cab; all electric
Filtration	10-micron

ELECTRICAL SYSTEM:

Voltage	12 volt
Alternator	130 AMP
Protection	Resettable circuit breakers

PAINT:

One coat of sealer/primer and two coats of DuPont Imron 5000® polyurethane in standard white color.

WARRANTY:

The Schwarze M6000 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 manufacturer shall apply.

SWEeper ENGINE

Make	Deutz
Type	4-cylinder in-line; diesel
Displacement	2.73 L
Stroke	4.1"
Bore	3.6"
Compression Ratio	17.5:1
Horsepower	75.5 HP @ 2800 rpm
Torque	160.7 ft lb @ 1800 rpm



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That's Sweeping The Earth"™