

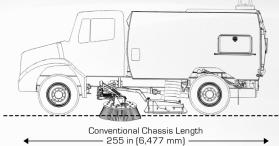
The Schwarze A7 Tornado Single Engine is a heavy-duty, chassis mounted, single engine regenerative air street sweeper with an 8.4 cubic yard hopper. It follows over 20 years of successful operation throughout the United States and around the world of the A7 Tornado twin engine sweeper. The A7 Tornado is the most popular street sweeper in the Schwarze lineup, with its standard high flow saw tooth screens, high efficiency whisper wheel blower and proven blast orifice pickup head, the Schwarze A7 tornado is the standard of the sweeping industry.

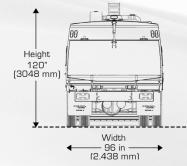
The Schwarze A7 Tornado SE has no performance compromise from its twin engine version and can perform most typical sweeping at a low single engine speeds allowing for low noise and operational costs. When full power is needed for heavy jobs like construction and spring cleanup the A7 Tornado SE comes through with the same amount of sweep power available on the twin engine A7 Tornado.

Designed to operate exactly like the twin engine model, little if any additional operator and technician training is required. The Schwarze exclusive selectable "sweeps in reverse" feature allows unparalleled ability to clean all surfaces.



PATENT PENDING SINGLE **ENGINE TECHNOLOGY** WITHOUT THE LOSS OF PERFORMANCE





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

SWEEPING PATH

Pickup head only 90 in (2286 mm) Head and 1 broom 117 in (2972 mm) Head and 2 brooms 144 in (3658 mm)

CHASSIS

Freightliner M2 106

SWEEPER BODY

Construction Welded 10-gauge stainless steel plate Safety props Lift spacers

CHASSIS AND SWEEPER POWER

Model/type ISB 6.7 in-line 6 cylinder **Emissions** GHG21 turbo-charged

diesel

Cummins Corp Manufacturer Displacement 6.7 liter (409 c.i.) 240 hp (180 kw) Brake horsepower @ 2500 rpm 560 ft lb (759 Nm) Torque @1100 rpm

High capacity dry type with Air cleaner safety element and restriction indicator Oil filter Full-flow/spin-on Stroke 5 in (127 mm) 4.20 in (106 mm) Rore

Compression ratio 19 to 1

Safety shutdown Cummins automatic

Throttle control Electronic

SWEEPER/CHASSIS ELECTRICAL

Voltage 12 V Engine alternator 160 amp

DUST CONTROL SYSTEM

High pressure/low volume Type 470 gallon (1786 L); Capacity

options to 570 gallons (2166 liters)

Tank construction Polvethylene Pump Inlet filter Fill diameter Fill hose Controls Nozzles

50 mesh; cleanable 2.5 in (63.5 mm) 25 ft (7620 mm) Electric; in-cab 2 on each broom; 5 around suction head; 2 inside suction nozzle; 2 on front axle; 2 inside hopper

Water level gauge In-cab

INSTRUMENTATION

Sweeper Flat panel display; spray water level; hydraulic oil temperature: sweep mode; sweep in reverse; vacuum enhancer position; hopper

position, sweeper diagnostics; sweep power; broom speed

FAN SYSTEM

Type Closed-face radial Hot shift PTO via 5 groove; Drive banded power belt

Construction AR steel

Balance 1.5 grams on 2 sides 32.75 in (832 mm) Diameter Housing lining Bolt-in corded rubber Mounting 2 regreasable sealed

bearings

Vacuum enhancer For heavy/light material;

in-cab indicator

PICKUP HEAD

Dual chambered Type full-width blast orifice Operating direction Forward and reverse Adjustable spring balanced Suspension 90 in (2286 mm) Lenath Pressure hose diam 14 in (355.6 mm) 14 in (355.6 mm) Suction hose diam Hose construction 3/8 in (9.5 mm)

wire-reinforced molded rubber

Head area 3240 sq in (20903 sq cm) Controls Hydraulic raise and lower Skids Double wide tungsten

carbide

Construction Abrasion-resistant steel inlet and outlet transitions.

SIDE BROOMS

Vertical steel digger Type Location Right; left; forward of

pickup head

Diameter 44 in (1118 mm) Drive Hydraulic

Suspension Torque-sensing spring Wear adjustment Automatic

Pressure Manual

Speed Variable; non-reversing Segments 5 each side; disposable

Tilt angle adjustment In-cab controls

DEBRIS HOPPER

Volumetric capacity 8.4 cu yd (6.4 cu m) Usable Capacity 7.0 cu yd (5.4 cu m) Dump angle 51 degrees Floor angle 3 degrees

Twin hydraulic cylinders Lifting Hydraulic open, close, lock Hopper dump door

Inspection doors pressure vessel lock Hopper dump height 40 in (1016 mm) Debris screens Sawtooth drop down

1 on each side,

HYDRAULIC SYSTEM

Type Variable displacement 27 gpm @ 1800 rpm Max Pump capacity

(103 lpm) Drive Belt.

Maximum pressure 2750 psi (190 bar) Reservoir 25 gal (94 L) Filter 10 micron; in-tank with

DP gauge

Protection Pressure relief valve Controls Electro-hydraulic

AUXILIARY HYDRAULIC SYSTEM

Type Gear type; driven by electric motor Function Lower hopper; open/close hopper door;

raise brooms and pickup head

PAINT

One coat of sealer/primer and two coats of Sherwin Williams Duraspar in standard white

Note: Design and specifications subject to change without notice.





