

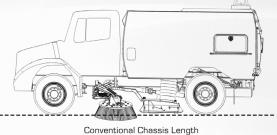
The Schwarze A7 Tornado Single Engine is a heavy-duty, chassis mounted, single engine regenerative air street sweeper with an 8.4 cubic yard hopper. It follows over 20 years of successful operation throughout the United States and around the world of the A7 Tornado twin engine sweeper. The A7 Tornado 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.

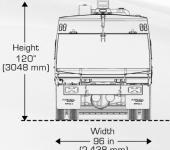
Designed to operate exactly like the twin engine model, little if any additional operator and technician training is required. The Schwarze exclusive selectable "sweeps in reverse" feature allows unparalleled ability to clean all surfaces.



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



255 in (6,477 mm)



(2.438 mm)

*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

Torque

Oil filter

Stroke

Bore

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 Manufacturer **Cummins Corp**

Displacement 6.7 liter (409 c.i.) 240 hp (180 kw) Brake horsepower @ 2500 rpm

560 ft lb (759 Nm)

@1100 rpm

Air cleaner High capacity dry type with

safety element and restriction indicator Full-flow/spin-on 5 in (127 mm)

4.20 in (106 mm) 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

Type High pressure/low volume Capacity 470 gallon (1786 L); options to 570 gallons

(2166 liters)

Tank construction Polyethylene 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

INSTRUMENTATION

Flat panel display; spray Sweeper 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 Drive Hot shift PTO via 5 groove; banded power belt

Construction AR steel

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

bearings

For heavy/light material; Vacuum enhancer in-cab indicator

PICKUP HEAD

Dual chambered Type full-width blast orifice Operating direction Forward and reverse Suspension Adjustable spring balanced 90 in (2286 mm) Length Pressure hose diam 14 in (355.6 mm) Suction hose diam 14 in (355.6 mm) 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

Construction Abrasion-resistant steel inlet and outlet transitions.

SIDE BROOMS

Vertical steel digger Type Location Right; left; forward of pickup head

44 in [1118 mm] Diameter Drive Hydraulic

Suspension Torque-sensing spring

Wear adjustment Automatic Pressure Manual

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

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

Hopper dump door Hydraulic open, close, lock 1 on each side, Inspection doors

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

HYDRAULIC SYSTEM

Variable displacement Type Max Pump capacity 27 gpm @ 1800 rpm (103 lpm)

Belt

Maximum pressure 2750 psi (190 bar) Reservoir

25 gal (94 L) Filter 10 micron: in-tank with

DP gauge

Pressure relief valve Protection Controls Electro-hydraulic

AUXILIARY HYDRAULIC SYSTEM

Gear type; driven by Type electric motor **Function** Lower hopper:

open/close hopper door; raise brooms and pickup head

PAINT

Drive

One coat of sealer/primer and two coats of in standard white color.

Paint

White; Sherwin Williams Genesis G2 #100268977

Note: Design and specifications subject to change without notice.

