

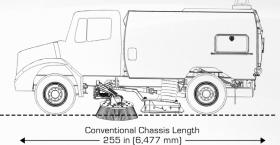
The Schwarze A7 Tornado Single Engine is a heavy-duty, chassis mounted, single engine regenerative air street sweeper with an 8.4 cubic yard hopper. It follows over 20 years of successful operation throughout the United States and around the world of the A7 Tornado twin engine sweeper. The A7 Tornado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

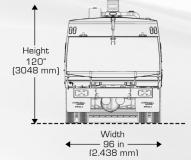
The Schwarze A7 Tornado SE has no performance compromise from its twin engine version and can perform most typical sweeping at a low single engine speeds allowing for low noise and operational costs. When full power is needed for heavy jobs like construction and spring cleanup the A7 Tornado SE comes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

Torque

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

Oil filter Stroke 5 in (127 mm) 4.20 in (106 mm) Bore 19 to 1

Compression ratio

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

Water level gauge In-cab

### 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

Diameter 44 in (1118 mm)

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) 10 micron: in-tank with Filter

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.



Serving Washington, Idaho, Montana, Oregon

