

Multi Function

Single Engine

Diesel

Easy Dump



# A7 TORNADO SE

REGENERATIVE AIR SWEEPER



\*Sweeper may be shown with optional equipment

**BEST FOR:**



**CURBS & GUTTERS**



**CATCH BASIN CLEANING**



**MUNICIPALITY SWEEPING**

**AND MUCH MORE**

**SCAN THE QR CODE**

The A7 Tornado SE combines full-size performance with the streamlined efficiency of a single engine. Utilizing a Variable Power Divider, the A7 SE delivers sweeping power directly from the chassis engine—eliminating the need for a secondary engine while maintaining full sweeping capabilities.

Designed for reliability, fuel savings, and ease of operation, the A7 SE is built for long days, tough jobs, and efficient operation. Operators benefit from full in-cab control, industry-leading airflow, and whisper-quiet blower technology—without the complexity of managing two engines.

**THE PEOPLE YOU KNOW. THE PRODUCTS YOU TRUST FOR A BETTER PLANET.**



**MORE INFORMATION**

Sourcewell

Awarded Contract

Contract # 093021-SWZ

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## 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

Make:	Freightliner M2 106
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## GUTTER BROOMS

Location:	Vertical digger type, dual
Diameter:	44 in (1118 mm)
Type:	Flattened wire filled
Speed:	In-cab variable speed, independent of engine RPM
Suspension:	Hydraulic cylinders and springs
Drive:	Hydraulic motor
Adjustments:	In-cab tilt (27°) Gutter Broom Extension Override (GEO) with in-cab variable retraction
Center Deflector:	Full-floating with lateral swing protection (15 in)
Sealing:	Poly brush, raises/lowers with pickup head Heavy-duty motor seal and recessed disc design

## PICKUP HEAD

Width:	90 in (2286 mm)
Length:	36 in (914 mm)
Head Type:	Spring-balanced, dual-chamber steel head with replaceable angled blast orifice
Hoses:	Sweeps-In-Reverse (fully rated, no add-ons required) 14 in (356 mm) pressure and suction, wire-reinforced molded rubber
Drag Shoes:	Doublewide virgin carbide, interchangeable, 2-year/2,000-hr wear warranty
Water Injection:	2 nozzles in suction transition
Quick Disconnect:	Lower suction tube
Lift:	Hydraulic, in-cab switch

## SWEEPING CONTROLS

Steering:	Dual, non-sweeper installed
Console:	Rotating base, high-res color display
Engine Gauges:	Full diagnostics, engine load, fuel, DEF
Display Info:	Water level, hydraulic temp, filter indicators, leaf bleeder, standby, regen
Switches:	Individual lighted rocker switches with symbols
Standby:	One-touch sweep resume with lift/sweep in reverse
Alarms:	Visual and chime alerts for critical readings

## SWEEPER POWER / CHASSIS

Engine:	Cummins 6.7L Turbo Diesel, 6-cylinder
Horsepower:	≥240 HP @ 2400 RPM
Torque:	≥560 ft-lb @ 1600 RPM
Displacement:	≥409 in <sup>3</sup>
Fuel Tank:	50 gal minimum (shared)
Air Intake:	Hood-level
Electrical:	12V, 160-amp alternator
Shutdowns:	3-point for oil, coolant temp, coolant level

## VARIABLE POWER DIVIDER

Function:	Splits engine power between chassis drive and sweeper
Work Mode:	0–20 MPH variable sweeping speed
Transport Mode:	No neutral or brake activation required
Control:	In-cab switch (Drive/Work modes)

## HYDRAULIC SYSTEM

Pump:	Variable displacement, belt driven
Reservoir:	25 gal with temp/level indicator
Cooling:	9,000 BTU oil-to-air radiator cooler
Filtration:	10-micron return filter
Pressure:	2700 PSI
Valves:	Diagnostic LEDs, sealed, no lines routed through cab
Backup:	12V DC hydraulic backup

## BLOWER

Type:	Closed-face turbine, regenerative air
Diameter:	32.75 in (832 mm)
Width:	5 in (127 mm)
Blades:	10 curved
Construction:	500 Brinell hardness steel
Drive:	5-groove V-belt via PTO (no hydraulic drive)
Suction:	-65 in water column
Airflow:	17,000 CFM
Noise Level:	≤72 dB(A) @ 50 ft (Whisper Wheel-equipped)
Housing:	3/16 in abrasion-resistant steel with replaceable rubber liner
Mounting:	Parallel to hopper, independent of hopper body
Vacuum Enhancer:	Electric control, 0–80% air diversion
Bearings:	Greasable self-aligning, 2.25 in shaft diameter, ground-level access

## DEBRIS HOPPER

Volumetric Capacity:	8.4 cu yds (6.4 cu m)
Usable Capacity:	7.3 cu yds (5.6 cu m)
Material:	Mild steel (10 ga minimum) optional 3CR12 stainless steel, 3° sloped floor
Dumping:	Hydraulic rear dump, 36 in height, 51° total angle
Lift:	Dual 4 x 16 in cylinders
Screens:	304 stainless steel, 7100 in <sup>2</sup> , 2-piece saw-tooth design, dual-hinged 15 x 32 in, left and right
Inspection Doors:	Seals: Rubber on all doors and openings
Shroud:	Stainless steel, integrated, 24 ft <sup>2</sup> sound insulation

## DUST SEPARATOR

Type:	Centrifugal, 29,000 in <sup>3</sup>
Cleanout:	Automatic on hopper raise No manual cable/mechanical release

## WATER SYSTEM

Pump:	Twin electric diaphragm, 5.88 GPM each @ 60 PSI
Tank Capacity:	470 gal (optional up to 570 gal)
Construction:	Polyethylene
Fill:	25 ft fire hose, 2.5 in NST, 2 in air gap, hydrant wrench & rack
Filtration:	50-mesh cleanable with restriction indicator 5-micron post-pump
Spray Locations:	5 nozzles at pickup head, 2 inside hopper, 2 on each gutter broom, 2 in suction tube, 2 at front axle, 7 at front bumper
Controls:	Individual in-cab solenoid switches
Features:	Air purge system, water level gauge and alarm
Materials:	No ferrous components

## HAND HOSE

Diameter:	8 in
Length:	12 ft
Material:	Rubber, serrated 52 in nozzle
Mount:	Rear, boom mounted (spring or hydraulic)
Airflow:	Block-off plate with out-of-cab storage

## SAFETY FEATURES

Compliance:	FMVSS
Lighting:	All LED, including dual bumper strobes and high-mount flashers
Backup:	Alarm, camera with 7 in monitor, night vision
Other:	Fire extinguisher, triangle kit, SMV emblem, hazard decals

## ACCESSORIES

Rear Bumper:	Full-width steel
Mirrors:	8 in chrome parabolic, mounted under chassis mirrors
Toolbox:	18.875 x 10.5 x 24.625 in, curb-side access

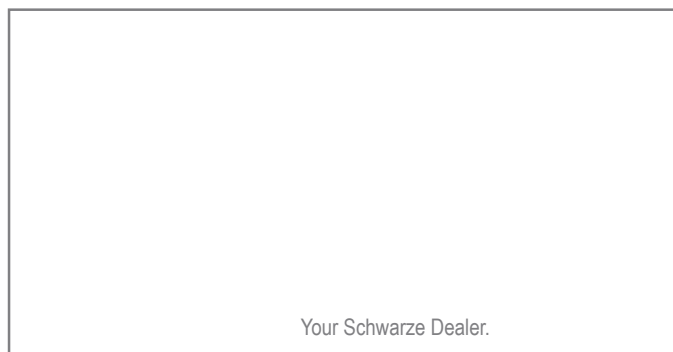
## PAINT

One coat of sealer/primer and two coats of Sherwin-Williams high solids polyurethane, white color.

## WARRANTY

Sweeper:	12 months or 1,200 hours
Hydraulic Pumps and Fittings:	60 months or 6,000 hours
Hydraulic Motors and Valves:	24 months or 2,400 hours

Note: Specifications are subject to change without notice.



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