

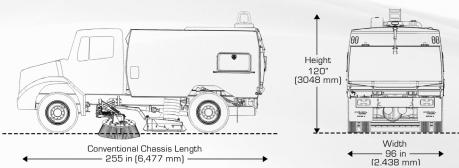
The Schwarze A7 Tornado Single Engine is a heavy-duty, chassis mounted, single engine regenerative air street sweeper with an 8.4 cubic yard hopper. It follows over 20 years of successful operation throughout the United States and around the world of the A7 Tornado twin engine sweeper. The A7 Tornado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



SINGLE ENGINE TECHNOLOGY WITHOUT THE LOSS OF PERFORMANCE



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

SWEEPING PATH		INSTRUMENTATION		DEBRIS HOPPER	
Pickup head only Head and 1 broom Head and 2 brooms		Sweeper	Flat panel display; spray water level; hydraulic oil temperature: sweep mode;	Volumetric capacity Usable Capacity Dump angle	8.4 cu yd (6.4 cu m) 7.0 cu yd (5.4 cu m) 51 degrees
			sweep in reverse; vacuum	Floor angle	3 degrees
CHASSIS			enhancer position; hopper	Lifting	Twin hydraulic cylinders
Freightliner M2 106			position, sweeper diagnostics; sweep power;	Hopper dump door Inspection doors	Hydraulic open, close, lock 1 on each side.
SWEEPER BOD	Y		broom speed		pressure vessel lock
Construction	Welded 10-gauge			Hopper dump height	
	stainless steel plate	FAN SYSTEM		Debris screens	Sawtooth drop down
Safety props	Lift spacers	Туре	Closed-face radial	HYDRAULIC SYS	PTEM
	WEEPER POWER	Drive	Hot shift PTO via 5 groove; banded power belt	Type	Variable displacement
Model/type	ISB 6.7 in-line 6 cylinder	Construction	AR steel		27 gpm @ 1800 rpm
Emissions	GHG21 turbo-charged	Balance	1.5 grams on 2 sides	maxi amp capacity	(103 lpm)
	diesel	Diameter	32.75 in (832 mm)	Drive	Belt
Manufacturer	Cummins Corp	Housing lining	Bolt-in corded rubber		2750 psi (190 bar)
Displacement	6.7 liter (409 c.i.)	Mounting	2 regreasable sealed	Reservoir	25 gal (94 L)
Brake horsepower	240 hp (180 kw)	0	bearings	Filter	10 micron; in-tank with
	@ 2500 rpm	Vacuum enhancer	For heavy/light material;		DP gauge
Torque	560 ft lb (759 Nm)		in-cab indicator	Protection	Pressure relief valve
	@1100 rpm			Controls	Electro-hydraulic
Air cleaner	High capacity dry type with	PICKUP HEAD			
	safety element and	Туре	Dual chambered		RAULIC SYSTEM
	restriction indicator		full-width blast orifice	Туре	Gear type; driven by
Oil filter	Full-flow/spin-on		Forward and reverse		electric motor
Stroke	5 in (127 mm)	Suspension	Adjustable spring balanced	Function	Lower hopper;
Bore	4.20 in (106 mm)	Length	90 in (2286 mm)		open/close hopper door;
Compression ratio	19 to 1	Pressure hose diam Suction hose diam	14 in (355.6 mm)		raise brooms and
Safety shutdown Throttle control	Cummins automatic Electronic	Hose construction	3/8 in (9.5 mm)		pickup head
	Electronic		wire-reinforced	PAINT	
SWEEPER/CHASSIS ELECTRICAL			molded rubber	One coat of sealer/primer and two coats of	
Voltage	12 V	Head area	3240 sq in (20903 sq cm)	Sherwin Williams Duraspar in standard white	
Engine alternator	160 amp	Controls	Hydraulic raise and lower	color	
		Skids	Double wide tungsten		
DUST CONTROL SYSTEM			carbide	Note: Design and specifications subject to	
Туре	High pressure/low volume	Construction	Abrasion-resistant steel	change without notic	ce.
Capacity	470 gallon (1786 L);		inlet and outlet transitions.		
	options to 570 gallons				
	(2166 liters)	SIDE BROOMS			
Tank construction	Polyethylene	Туре	Vertical steel digger		
Pump Inlet filter	50 mesh; cleanable	Location	Right; left; forward of		
Fill diameter	2.5 in (63.5 mm)	Diamatan	pickup head		
Fill hose	25 ft (7620 mm)	Diameter	44 in (1118 mm)		
Controls Nozzles	Electric; in-cab	Drive Suspension	Hydraulic Torque-sensing spring		
	2 on each broom;	Wear adjustment	Automatic		
	5 around suction head; 2 inside suction nozzle;	Pressure	Manual		
	2 inside suction nozzie; 2 on front axle;	Speed	Variable; non-reversing		
		Segments	5 each side; disposable		
Water level dauge					
Water level gauge	2 inside hopper In-cab	Segments Tilt angle adjustmen			



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INDUSTRIES