DIAMOND- 5 Years or 6000 Hours	\$ 4,795.00				
A7 TORNADO TIER IV FINAL SWEEPER FEATURES AND OPTIONS LISTING					
SWEEPER ENGINE	PICKUP HEAD				
John Deere 4045 Tier 4 engine	90" x 36" Sweeping Head with Rubber Blast Orifice				
Fuel water seperator	3/8" thick, 14" dia Pressure hose, 14" Suction Hose				
3-point safety engine shutdown device	Sweeps-in-Reverse				
Battery and 50 gallon fuel tank shared with chassis	Doublewide full length carbide drag shoes Warranted against				
90 amp alternator	wear-out, two years/2000 hours, prorated.				
2 year warranty on Aux Engine	DUST CONTROL SYSTEM				
HYDRAULIC SYSTEM	i win Electric diaphragm water pumps with injet restriction				
25 gallon vented hydraulic reservoir, w/shut-off valves					
Tank mounted level and temperature indicator	Water tank capacity 250 gallons, polyethylene				
Hydraulic pressure, 2500 psi	25-foot long fire hydrant fill hose				
Spin-on 10 micron return filter	50 mesh cleanable filter, with shut off valve				
9000 BTU oil to air radiator type oil cooler	Water spray nozzles shall be provided as follows:				
12-volt DC hydraulic backup system	Five at pickup head, two nozzles inside hopper				

DUST SEPERATOR	ERATOR Two at gutter broom, per option selected		
Centrifugal dust separator, 29000 cu in. with 1680 sq i	Two nozzles in suction tu		ů.
HOPPER	An air purge system for flushing water lines		
Mild Steel, 8.4 CuYd, 7 CuYd usable Capacity	OPERATING CONTROLS AND INSTRUMENTS		
Screens - 5615 square inches, saw tooth design	Aux engine control with f	ull color display on c	onsole:
Twin dumping cylinders, 53 degrees	Keyed ignition, electronic		
Rear door hydraulically opened, closed and locked	Oil pressure gauge, water		
Dual 20" X 32" watertight inspection doors, 1 left, 1 rig	Voltmeter, tachometer, a	nd hour meter	
External weatherproof dump switches	Diagnostic gauge for Aux		warning.
Shroud enclosing the auxiliary engine	Selectable sweep or lift in	reverse, system sta	ndby, in-cab tilt,
BLOWER	variable speed brooms. A	ll other STD sweepe	r function switches to
Closed face turbine 10 curved blades, 32.75" dia. by 5	Included for standard and	d options selected	
500 brinell hardness abrasion resistant steel	Swiveling console for left	or right sweeping	
Fully balanced within 1.5 grams on both sides	SAF	ETY EQUIPMENT	
Vacuum enhancer, w/indicator in cab	Two body props to lock h	opper in raised posit	tion
SWEEPER WARRANTY	Rear Amber LED Strobe V	Vith Guard	
12 Months 1200 Hours	2 rear yellow alternating	LED flashing lights	
12 Months 1200 Hours	Slow moving vehicle emblem, backup alarm,		
	5-lb fire extinguisher, and	a warning triangle	dt.
DESCRIPTION		PE	RICE
115HP John Deere Tier III Deduct	,		(\$23,690.00)
140HP John Deere Tier IVF IN Lieu of 115HP Tier IV	F ;		\$1,445.00
Sweep Head Deluge (Must Pick Standard Head)		\$	375.00
Gutter Broom, Dual		\$	6,935.00
Gutter Broom, Tilt Power Dual or		\$	0.00
Gutter Broom, GEO Dual		\$	2,475.00
Gutter Broom, RH W/Power Tilt		\$	4,180.00
Gutter Broom, GEO RH		\$	1,275.00
Gutter Broom, LH W/ Power Tilt		\$	4,180.00
Gutter Broom, GEO LH		\$	1,280.00
Gutter Broom, Poly Segments, each		\$	215.00
Gutter Broom,In-Cab Down Pressure		\$	2,475.00
Standby, Full w/Throttle Ramp		\$	0.00
Variable Speed Gutter Broom(S)		\$	0.00
Manual, Sweeper, Additional Copy (Paper)		\$	135.00
Automatic Lubrication System Vogel		\$	7,000.00
Auto Lube Sys.Vogel Sweeper Only		\$	3,700.00
10 point remote grease manifold		\$	920.00
Remote Grease Fittings, Fan		\$	0.00
Camera System, Single		\$	0.00
Camera System, Dual		\$	295.00
Camera System, Three		\$	590.00
Water Tank, Standard 250G or		\$	0.00
Water Tank, W/ Add. 350G*		\$	3,620.00
Water Tank Sight Gauge side of tank		\$	210.00
Water Tank Low Level Alarm & Ind.		\$	300.00
Spray Bar, Front		\$	665.00
Spray Bar, Hopper Add. 4 Nozzles		\$	665.00

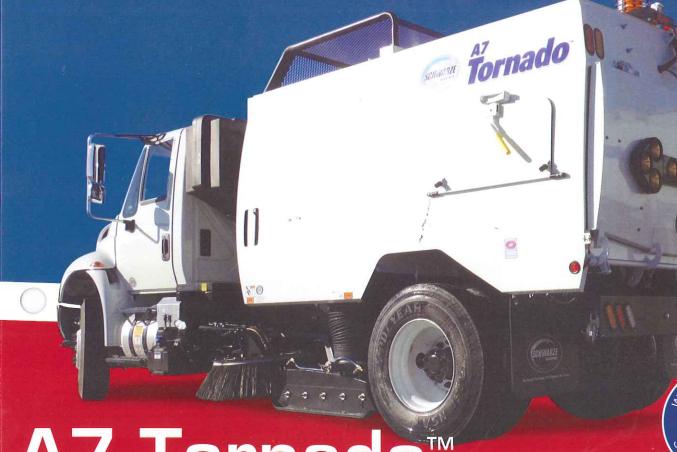
Spray Bar, Hopper Add. 7 Nozzles	\$	700.00
High Pressure Washdown Wand W/ Pump	\$	3,185.00
High Pressure Washdown W/ 50' Hose Reel	\$	4,355.00
Hopper, W/ Remote DD Screens	\$	4,045.00
Auto Drop Down Screens**	\$	1,340.00
Hopper Drain 6" (SS)	\$	690.00
Dual Hopper Drain, 6" (SS)	\$	1,390.00
Hopper Sound Suppression	\$	760.00
Hopper Dump Assist Shaker	\$	1,310.00
Hand Hose, 8" Spring Boom (Remote Engine Throttle Included)	\$	1,310.00
Hand Hose, 8" Power Boom (Remote Engine Throttle Included)	\$	2,705.00
Hand Hose, 8" Power Boom HD (Remote Engine Throttle Included)	\$	3,605.00
Pendant Control for Power Boom	\$	300.00
Hand Hose Extension 4 Feet Long	\$	340.00
Hand Hose Water Nozzle	\$	270.00
Hopper Deluge, Conical Spray	\$	885.00
Hopper Deluge, 4 Nozzle, Conical Spray	\$	2,260.00
Load Weight Alarm & Indicator	\$	0.00
Hopper Up Alarm & Indicator	\$	0.00
Hopper Aux. Engine Screen Cover	\$	0.00
Hopper Door Open Indicator	\$	0.00
Hopper Dump Switches Exterior Right Side	\$ -	465.00
Hopper, High Strength Stainless Steel ~LIFETIME WARRANTY~	\$	6,195.00
Hopper, 304 Stainless Steel ~LIFETIME WARRANTY~	\$	18,630.00
Hopper W/ Remote DD Screens (304 SS) ~LIFETIME WARRANTY~	\$	20,500.00
Block Heater, Aux Engine	\$	335.00
Hydraulic Filter RestrictionAlarm&Ind	\$	300.00
Low Hydraulic Level Indicator In-Cab	\$	0.00
Engine Remote Throttle (Not on Hand Hose)	\$	335.00
Air Filter Restriction Alarm & Indicator	\$	300.00
Strobe, Rear W/Guard LED (Std) 1 ea or	\$	0.00
Strobe, Rear LED 1 each or	\$	
Strobe, Dual Rear LED	\$	0.00 465.00
Strobe, Dual Rear W/Guard LED	\$	665.00
Arrowboard, Traffic Guide	\$	790.00
Arrowboard, Traffic Guide, LED	\$	1,080.00
Barlight, Rear LED	\$	855.00
Barlight, Rear W/Guard LED	\$	730.00
Floodlight, LED	\$	300.00
Strobe, Cab Cabover LED		
Strobe, Cab Conventional LED	\$	465.00
Strobe, Cab W/Guard Cabover LED		465.00
	\$	630.00
Strobe, Cab W/Guard Conventional LED	\$	630.00
Barlight, Cab Conventional LED	\$	730.00
Barlight, Cab W/Guard, Conventiona, LED	\$	855.00
Barlight, Cab Cabover LED	\$	730.00
Barlight, Cab W/Guard, Cabover LED	\$	560.00
Paint, Special: Sweeper Unit Only	\$	1,025.00

Paint, Special: Chassis Only	\$ 3,235.00
FL M2 33K 200HP DS 2500 '16	\$ 79,360
FL M2 CNG 33K 200HP DS 2500 '17	\$ 135,940.00
Autocar Expert 33K 2500 CNG '17	\$ 139,385.00
IH 4300 200HP Cummins Dual Steer '16	\$ 79,655
Kenworth K370 33K 220HP RH Steer '16	\$ 86,695
Kenworth K370 33K 220HP Dual Steer '16	\$ 98,890
Customer Chassis Mounting Fee	\$ 2,500
Mirror, 12" Parabolic, Set	\$ 375.00
Air Filter Restrict Ind Chassis	\$ 300.00
Tire & Rim, Spare M2	\$ 1,430.00
Block Heater	\$ 350.00
Horn, Air M2	\$ 165.00
Rim, Spare M2	\$ 430.00
Magnet, Bar, 90" FL M2	\$ 2,010.00
Magnet, Bar, 87" Self Dumping,FL M2	\$ 4,690.00
Air Dryer, Bendix AD9*	\$ 1,280.00
Mirror, 12" Parabolic, Set	\$ 375.00
Air Filter Restrict Ind Chassis	\$ 300.00
Tire & Rim, Spare IH	\$ 1,430.00
Block Heater, IH 4300	\$ 350.00
Tow Hooks, IH	\$ 270.00
Horn, Air IH	\$ 785.00
Rim, Spare IH	\$ 230.00
Magnet, Bar, 90" IH	\$ 2,010.00
Magnet, Bar, 87" Self Dumping, IH	\$ 4,690.00
Mirror, 12" Parabolic, Set	\$ 375.00
Magnet, Bar, 90"	\$ 2,010.00
Air Filter Restrict Ind Chassis	\$ 190.00
Tire & Rim, Spare	\$ 1,430.00
Horn, Air	\$ 785.00
Gauge, Transmission Temp	\$ 215.00
Sweeper Body CNG Conversion	(\$9,875.00)
High Speed Runway Sweeper Body Upcharge	\$ 15,600.00
STANDARD- 1 Year or 1200 hours	\$ =0
SILVER- 2 Years or 2400 Hours	\$ 1,850.00
GOLD- 3 Years or 3600 Hours	\$ 4,590.00
PLATINUM- 4 Years or 4800 Hours	\$ 6,650.00
DIAMOND- 5 Years or 6000 Hours	\$ 8,450.00

Paint, Special: Chassis Only	\$	3,235.00
FL M2 33K 200HP DS 2500 '16	\$	79,360
FL M2 CNG 33K 200HP DS 2500 '17	\$	135,940.00
Autocar Expert 33K 2500 CNG '17	\$	139,385.00
IH 4300 200HP Cummins Dual Steer '16	\$	79,655
Kenworth K370 33K 220HP RH Steer '16	\$	86,695
Kenworth K370 33K 220HP Dual Steer '16	\$	98,890
Customer Chassis Mounting Fee	\$	2,500
Mirror, 12" Parabolic, Set	\$	375.00
Air Filter Restrict Ind Chassis	\$	300.00
Tire & Rim, Spare M2	\$	1,430.00
Block Heater	\$	350.00
Horn, Air M2	\$	165.00
Rim, Spare M2	\$	430.00
Magnet, Bar, 90" FL M2	\$	2,010.00
Magnet, Bar, 87" Self Dumping,FL M2	\$	4,690.00
Air Dryer, Bendix AD9*	\$	1,280.00
Mirror, 12" Parabolic, Set	\$	375.00
Air Filter Restrict Ind Chassis	\$	300.00
Tire & Rim, Spare IH	\$	1,430.00
Block Heater, IH 4300	\$	350.00
Tow Hooks, IH	\$	270.00
Horn, Air IH	\$	785.00
Rim, Spare IH	\$	230.00
Magnet, Bar, 90" IH	\$	2,010.00
Magnet, Bar, 87" Self Dumping, IH	\$	4,690.00
Mirror, 12" Parabolic, Set	\$	375.00
Magnet, Bar, 90"	\$	2,010.00
Air Filter Restrict Ind Chassis	\$	190.00
Tire & Rim, Spare	\$	1,430.00
Horn, Air	\$	785.00
Gauge, Transmission Temp	\$ -	215.00
Sweeper Body CNG Conversion		(\$9,875.00
High Speed Runway Sweeper Body Upcharge	\$	15,600.00
STANDARD- 1 Year or 1200 hours	\$	a)
SILVER- 2 Years or 2400 Hours	\$	1,850.00
GOLD- 3 Years or 3600 Hours	\$	4,590.00
PLATINUM- 4 Years or 4800 Hours	\$	6,650.00
DIAMOND 5 Veers or 6000 Hours	\$	8,450.00



The People You Know. The Products You Trust.





8.4 Cubic Yard Regenerative Air Street Sweeper

*Sweeper shown with optional equipment



- PM 10 Certified
- WhisperWheel Fan Technology
- Schwarze Sweeps-in-Reverse
- DC Auxiliary Hydraulic Pump











Quality

Performance | Public Safety

Value

Customer Support

A7 Tornado™

Abrasion Resistant Steel in Critical Wear Areas: For longer life expectancy

> 8.4 Cubic Yard Hopper Capacity: Increased hopper capacity for increased production and less dumps

Sweeps-in-ReverseSM:

Eliminates the need for the operator to raise the sweeping head to reverse

Liquid Tight Inspection Door: Always a perfect seal.

- Optional Equipment:
 8" auxiliary hand hose
 Extra 350 gallon
 polyethylene water tank
 Mechani-Pneumatic
- Powerhood (broom assisted head)
- Stainless steel hopper

Optional Equipment: Gutter Broom Extension OverrideSM: Increased usability of side brooms and expands the versatility in various applications, while eliminating the need for a center broom

Camera System: Remote cameras with in-cab video monitor and sound suppression system

to 3 cameras

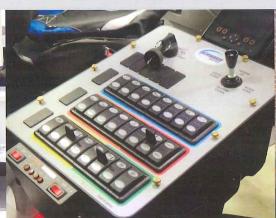
90"x36" Pickup Head: Increased productivity with a larger area of influence (quicker transfer and no bulldozing)

AMERICAN BUILT-

AMERICAN MADE









Saw Tooth Screens: Increased screen surface area eliminates the need for a screen vibrator and lowers cost of operation PM 10 Certified: Meets AQMD 1186 requirements to pick up and contain harmful particulates

Reduced Noise Levels:

Reduces operator stress & increases ability to operate in noise sensitive areas

Whisper WheelSM Fan System: 70% quieter, uses 20% less fuel and 7% more powerful than an open face fan design



Bolt in Pressure & **Transition Tube**: Ease of maintenance

Custom Made-to-order Hydraulic Hoses: Reduces contamination in hydraulic system & reduces downtime

Advanced Color Display with Diagnostics:

Ease of use and maintenance.

Standard 12V DC Hydraulic Pump:

Able to raise and lower the sweeping head, brooms & hopper without the use of the auxiliary engine

Recessed Gutter Broom Discs with Shielded Broom Motor:

Reducing the chance of string and twine wrapping around gutter broom motor shaft

In-cab Tilt Control for Side Brooms: Increased usability of side brooms without the need for manual adjustment. Optional:

In-cab down pressure control

Also Available from Schwarze Industries, Inc:













*Optional Equipment Shown





Parts Availability: Schwarze original equipment parts are available when you need them.



Empowered and Responsive: Schwarze People are valued for their commitment to our future.



Schwarze Products: Engineered for enhanced performance and low ownership cost.



Warranty Support: Schwarze people are on duty to support you and your equipment.

Schwarze equipment is guaranteed to be free from defects due to faulty materials and/or workmanship for a period of 12 months, or 1200 hours. Liability is limited to replacement of defective parts at factory or authorized dealer. The standard warranties of the chassis and auxiliary engine manufacturer shall apply.







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

SWEEPING PATH

Pickup head only 90" (2,286mm)

Pickup head and

one gutter broom 117" (2,972mm)

Pickup head and two gutter brooms

144" (3,658mm)

CHASSIS

Mounts on various chassis to meet requirements

SWEEPER BODY

Construction Welded 10-gauge

steel plate with 3/16 steel

hopper floor

Dual steel bars located Safety props

under body

INSTRUMENTATION

Sweeper engine Tachometer; hourmeter;

voltmeter; temperature gauge; oil pressure

gauge

STANDARD ENGINE

Model/type 4045T in-line 4 cylinder Aspiration Turbo-charged diesel

Manufacturer John Deere Displacement 275 cu. In. (4.51) 115hp (86kw) Brake horsepower

@ 2400 rpm (opt. 140hp)

317ft-lb (430nm)

@1500rpm

Air cleaner Pre-cleaner: centrifugal

type; air cleaner: dry type

with safety element Full-flow/spin-on

Oil filter 5.00" (127mm) Stroke

Bore 4.20" (106mm) 19.0 to 1 Compression ratio

Safety shutdown Three-point automatic

Throttle control Electronic

ELECTRICAL SYSTEM

Voltage 12 volt Sweeper engine

alternator

Torque

90 amperes

Dual diaphragm

DUST CONTROL SYSTEM

Pumps Capacity

250 gallon (946 I) Tank construction Polvethylene filter; 50 mesh; cleanable Fill diameter 2.5" (63.5mm)

Fill hose 25 foot (7620mm)

Controls Electric; in-cab Dust control system cont'd

Nozzles 2 on each broom;

5 around suction head; 2 inside suction nozzle: 2 on front axle:

2 inside hopper

Water level gauge In-cab

BLOWER SYSTEM

Type Closed-face radial Drive Direct via 5 groove; banded power belt

Construction Hardox steel Balance 1.5 grams on 2 sides 32.75" (832mm) Diameter Housing lining Bolt-in corded rubber Mounting 2 re-greasable sealed

bearings

Vacuum enhancer For heavy/light material:

in-cab indicator

PICKUP HEAD

Type

Dual chambered full-width blast orifice Operating direction Forward and reverse Adjustable spring Suspension balanced

Length Pressure hose

diameter

Suction hose

Construction

diameter

Hose construction

14" (355.6mm) 3/8" (9.5)

90" (2,286mm)

14" (355.6mm)

wire-reinforced molded rubber

Head area 3,240sq. In. (20,903cm2) Controls

Hydraulic raise and lower Skids Double wide

tungsten carbide Abrasion-resistant steel

inlet and outlet transitions.

PAINT

One coat of sealer/primer and two coats of Dupont imron elite polyurethane in standard white color

SIDE BROOMS

Type Vertical steel digger Right; left; forward of Location

pickup head Diameter 44" [1,118mm] Drive Hydraulic

Suspension Torque-sensing spring

Wear adjustment Automatic

Side brooms cont'd

Pressure Manual

Speed Variable; non-reversing Segments 5 each side; disposable Tilt angle adjustment Manual with optional

in-cab controls

DEBRIS HOPPER

Construction A36 carbon steel

(Stainless steel optional)*

Volumetric capacity 8.4 cubic yards (6.4 cu. meters)

Usable Capacity 7.0 cubic yards

(5.4 cu. meters) 53 degrees Dump angle Floor angle 3 degrees

Lifting Twin hydraulic cylinders Hopper dump door open/close/lock

hydraulically

Inspection doors 1 on left side of hopper Screens Sawtooth drop down

design

HYDRAULIC SYSTEM

Drive

Dual output 2 section Type 6.5 gpm @1800rpm Pump capacity (24.61/min.) per section.

for 13gpm total Direct gear 2500psi (173bar) Maximum pressure Reservoir 25 gallons (94 liters)

Filter 10 micron; spin on Protection Pressure relief valve Controls Electro-hydraulic

AUXILIARY HYDRAULIC SYSTEM

Gear type; driven by Type electric motor

Function Raise/lower hopper; open/close hopper door;

raise/lower brooms and pickup head

Note: Design and specifications subject to change without notice.

*Ask us about our optional:

















© Schwarze Industries 2016 1055 Jordan Road Huntsville, AL 35811 800.879.7933 An Alamo-Group Company

