

*Sweepers shown with optional equipment

NON-STRUCTURAL BEST MANAGEMENT PRACTICES:



VACUUM AND BRUSH REMOVAL OF DEBRIS

Your Schwarze Dealer



CATCH BASIN CLEANING OF DEBRIS AND POLLUTANTS



POWERFUL MAGNET TO COLLECT FERROUS MATERIAL



HIGH PRESSURE WASHDOWN TO CLEAN ADA RAMPS



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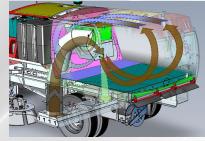
Street sweeping is a best management practice (BMP) that can serve the entire community. With catch basin cleaner equiped you can go to work immediately after purchase as opposed to structural BMPs like storm ponds that only serve a dedicated area and require engineering and construction. This makes sweeping the most cost effective BMP per impervious acre treated [King, Hagen, 2011]

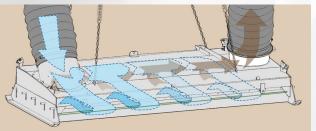
A7 Tornado™ 8.4 Cubic Yard Multi-Purpose Regenerative Air Sweeper

Effective January of 2017, the EPA Final MS4 General Permit Remand Rule requires "clear, specific, and measurable permitting" conditions for measuring BMP implementation. In addition, MS4s that discharge to impaired waters must develop a total maximum discharge limit (TMDL) strategy and plan to reduce sediment, phosphorous, and nitrogen discharged into protected watersheds. The new ruling also requires greater public participation in the NPDES permitting process.

Schwarze regenerative air technology makes use of both positive pressure and vacuum airflow, this maintains the compressed air in a sealed loop and is not returned to the atmosphere like traditional vacuum sweepers.

> The blast and recovery cycle continues indefinitely with no air leakage.





Regenerative Air Technology

Regenerative air sweepers generally only need 100KW to do the same amount of work as pure vacuum sweepers with 200KW.

> Pressurized air is forced across an "air knife" approximately 2.5 meters wide across the sweeping head. This scrapes the roadway surface with a sheet of pressurized air, lifting dirt and debris off the pavement.

Schwarze and its global dealer network understands your challenges and helps stormwater managers meet these conditions while being good stewards of taxpayer dollars.



We make sure the correct features are included to optimize municipal sweeping programs such as:

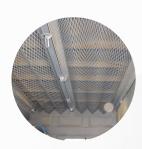
- Reducing trips to the landfill so you can continue working and keep earning credits.
- Catch basin suction hoses with high pressure water.
- Telematics for integration with your GIS system to document work for compliance and show citizens that their streets and catch basins have been cleaned.



ADE IN THE USA



Up to 144" Sweep Width



Large Saw-Tooth Increased Hopper Screen Design

High Pressure Water Spraygun

90" Pickup Head





Powerful Height Adjustable, Cab Controlled Sell-Dumping Front Magnet

CAN-Bus Control Panel with Backlit Switches, Text and Icons





44" Recessed Gutter Brooms with Shielded Broom Motor



Heavy Duty Catch Basin Vacuum Hose with Hand Controls



Backup Camera

Sweepers are also a great traveling billboard. We work with your program to design wraps that promote "clean streets, clean stream" initiatives, or our popular "only rain in the storm drain" promotion.







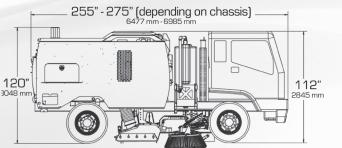






*Ask us about our optional:







96"

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

Auxiliary engine

SWEEPING PATH

Pickup head only Head and 1 broom Head and 2 brooms

(SHOWN WITH OPTIONAL 615 GALLON WATER SYSTEM)

90 in (2286 mm) 117 in (2972 mm) 144 in (3658 mm)

CHASSIS

Mounts on various chassis to meet requirements

SWEEPER BODY

Construction	Welded 10-gauge
	stainless steel plate
Safety props	Lift spacers

STANDARD ENGINE

Model/type Aspiration	4045T in-line 4 cylinder Tier 4 Final turbo-charged diesel
Manufacturer Displacement Brake horsepower	John Deere 275 cu in. (4.5 L) 134 hp (100 kw) @ 2400 rpm
Torque	398 ft lb (540 Nm) @1600 rpm
Air cleaner	Centrifugal precleaner; dry type with safety element and restriction indicator
Oil filter Stroke Bore Compression ratio Safety shutdown Throttle control	Full-flow/spin-on 5 in (127 mm) 4.20 in (106 mm) 19 to 1 Three-point automatic Electronic

SWEEPER ELECTRICAL SYSTEM 12 V

Voltage Engine alternator

DUST CONTROL SYSTEM

- Туре Capacity Tank construction
- Fill diameter Fill hose Controls Nozzles
- Polyethylene filter; 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 In-cab

90 amp

High pressure/low volume

250 gallon (946 L)

Water level gauge

INSTRUMENTATION

Flat panel display; tachometer; hourmeter; voltmeter; temperature gauge; oil pressure gauge; warning icons

Closed-face radial

Direct via 5 groove;

banded power belt

1.5 grams on 2 sides

32.75 in (832 mm)

Bolt-in corded rubber

2 regreasable sealed

For heavy/light material;

Hardox steel

bearings

in-cab indicator

Dual chambered

full-width blast orifice

Forward and reverse

90 in (2286 mm)

14 in (355.6 mm)

14 in (355.6 mm)

3/8 in (9.5 mm)

wire-reinforced

molded rubber

carbide

Adjustable spring balanced

3240 sq in (20903 sq cm)

Hydraulic raise and lower

Double wide tungsten

Abrasion-resistant steel

inlet and outlet transitions.

FAN SYSTEM

Type Drive Construction Balance Diameter Housing lining Mounting Vacuum enhancer

PICKUP HEAD Type

Operating direction Suspension Length Pressure hose diam Suction hose diam Hose construction Head area Controls Skids

Construction

SIDE BROOMS

Туре Location Diameter Drive Suspension Wear adjustment Pressure Speed Segments Tilt angle adjustment

Vertical steel digger Right; left; forward of pickup head . 44 in (1118 mm) Hvdraulic Torque-sensing spring Automatic Manual Variable; non-reversing 5 each side; disposable In-cab controls

DEBRIS HOPPER

Volumetric capacity Usable Capacity Dump angle Floor angle Lifting Hopper dump door Inspection doors

Hopper dump height Debris screens

HYDRAULIC SYSTEM

Type Pump capacity

Drive Maximum pressure Reservoir Filter Protection Controls

Dual output 2 section 8 gpm @ 1800 rpm (30 lpm) per section for 16 gpm total Direct gear 2750 psi (190 bar) 25 gal (94 L) 10 micron; spin on Pressure relief valve Electro-hydraulic

8.4 cu yd (6.4 cu m)

7.0 cu yd (5.4 cu m) 51 degrees

Twin hydraulic cylinders

Sawtooth drop down

Hydraulic open, close, lock

3 degrees

1 on each side. pressure vessel lock 40 in (1016 mm)

AUXILIARY HYDRAULIC SYSTEM

Type Function

Gear type; driven by electric motor Lower hopper; open/close hopper door; raise brooms and pickup head

PAINT

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

OPTIONAL SWEEPER EQUIPMENT

Special Paint Front Mounted Magnet Bar Amber Beacon Strobe Light Kit Arrowboard Kit Additional Flood Lights Hopper Hand Hose Remote Drop Down Screens Hopper Dump Assist Shaker 12-volt Auxiliary Hydraulic System **Dual Steeling and Controls** Extra Water High Pressure Front Spraybar High Pressure Wash Dow Side Air Blast Head Hopper Deluge Head Drain Dual Outside Hopper Controls Lifetime Hopper Warranty Short Wheelbase Chassis

Note: Design and specifications subject to change without notice.





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