

FAA APPROVED METHODS FOR FOD REMOVAL IN ONE UNIT:



VACUUM AND BRUSH REMOVAL OF DEBRIS



HIGH VELOCITY BLAST AIR TO PUSH MATERIAL OFF SURFACE



POWERFUL MAGNET TO COLLECT FERROUS MATERIAL



GLYCOL RECOVERY FOR PICKING UP DE-ICING FLUID

Your Schwarze Dealer.

Sweeping is one of the Best Management Practices to reduce FOD from runways and tarmac areas, and nothing does this as quick and efficient as the Schwarze A7 Zephyr[™] high speed runway sweeper. Designed to meet the rigorous demand standards of the Department of Defense high speed sweeping requirements for quickly and effectively removing FOD.

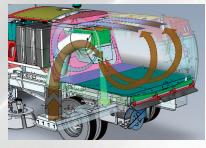
A7 Zephyr™ 8.4 Cubic Yard Regenerative Air Runway Sweeper

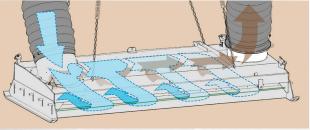
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FOD or foreign object debris can wreak havoc on aircraft and has been shown to cost the industry more than \$10 Billion in damage, delays and disgruntled customers. Sweeping has been shown to be one of the best management practices to reduce FOD from runways and tarmac areas and nothing does this better than the Schwarze Model A7 Zephyr[™] high speed runway sweeper. The A7 Zephyr[™] was designed to meet the rigorous demand standards of the Department of Defense high speed sweeping requirements for quickly and effectively removing FOD.

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 runway surface with a sheet of pressurized air, lifting dirt and Foreign Object Debris off the runway surface.

The performance of the Schwarze A7 Zephyr[™] meets FAA guidelines for removing FOD such as ball bearings, rivets, and other metals at vehicles speeds of 25 KPH (TOS = 15 MPH).



The A7 Zephyr[™] delivers outstanding results by:

- Removing FOD hazards (foreign object debris)
- Collecting large quantities of water from runways
- Collecting ferrous materials
- Collecting de-icer (Glycol)
- Removing dirt, grass & leaves with side blast air



MADE IN THE USA

A7 Zephyr[™] Regenerative Air Runway Sweeper





40" Dump Height

Large Fluid Capacity Glycol Collection System with 250 GPM Pump Off System



Up to 144" Sweep Width

Powerful 360 Degree Rotating High Velocity Side Blast Air Blower





Large Saw-Tooth Increased Hopper Screen Design

High Pressure Water Spraygun



CAN

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

Backup Camera

Heavy Duty Catch Basin Vacuum Hose with Hand Controls

Bolt-On Tubes

Schwarze regenerative air airport sweepers are used at the world's leading international airports, military air bases, and small regional airports because they offer the perfect combination of exceptional value, superior performance, and flexibility.



"Mobile Regional Airport, AL has been using the A7 Zephyr for 5 years and when Airbus sends out their FOD checkers, they tell us the runways look really good. We use it to clean the rams, runways, terminals. aircraft gates, lead-in lines and J-lines. We just stick with Schwarze because they are great machines and very reliable."

Additional Available Airport Sweepers:



For More Information Visit WWW.SCHWARZE.COM/AIRPORT-SWEEPING/







*Ask us about our optional:





96" 2438 mm 144' . 3658 mm

High pressure/low

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

SWEEPING PATH

90 in (2286 mm) Pickup head only Pickup head and one gutter broom 117 in (2972 mm) Pickup head and two gutter brooms 144 in (3658 mm)

CHASSIS

Mounts on various chassis to meet requirements

SWEEPER BODY

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

AUXILIARY ENGINE

Model/type Aspiration	4045T in-line 4 cylinder Tier 4 Final turbo-charged diesel
Manufacturer Displacement Brake horsepower	2050 John Deere 275 cu. In. (4.5 L) 134 hp (100 kw) © 2400 rpm
Torque	398 ft lb (540 Nm) @1500 rpm
Air cleaner	Centrifugal pre cleaner; 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
Throttle control	Electronic

HYDRAULIC SYSTEM

Туре	Dual output 2 section
Pump capacity	8 gpm @ 1800 rpm
	(30 lpm) per section
	for 16 gpm total
Drive	Direct gear
Maximum pressure	2750 psi (190 bar)
Reservoir	25 gal (94 L)
Filter	10 micron; spin on
Protection	Pressure relief valve
Controls	Electro-hydraulic

AUXILIARY HYDRAULIC SYSTEM Туре

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

DUST CONTROL SYSTEM

Туре Capacity Tank construction

Fill diameter Fill hose Controls Nozzles

Water level gauge

FAN SYSTEM

Construction

Housing lining

Vacuum enhancer

Balance

Diameter

Mounting

Type

Suspension

Pressure hose

Hose construction

Suction hose

Length

diameter

diameter

Head area

Construction

Controls

Skids

Туре

Drive

volume 250 gallon (946 L) 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

Closed-face radial Direct via 5 groove; banded power belt Hardox steel 1.5 grams on 2 sides 32.75 in (832 mm) Bolt-in corded rubber 2 regreasable sealed bearings For heavy/light material; in-cab indicator

PICKUP HEAD Mechani-Pneumatic, dual chambered full-width blast orifice with windrow angle Operating direction Forward and reverse

Adjustable spring balanced 90 in (2286 mm)

14 in (355.6 mm)

14 in (355.6 mm) 3/8" (9.5 mm)wire-reinforced molded rubber 3240 sq in (20903 sq cm) Hydraulic raise and lower Double wide tungsten carbide Abrasion-resistant steel inlet and outlet.

SIDE BROOMS

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Туре	Vertical steel digger
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
Segments	5 each side; disposable
Tilt angle adjustment	In-cab controls

INSTRUMENTATION

Auxiliary engine

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

DEBRIS HOPPER

8.4 cu yd (6.4 cu m) Volumetric capacity Usable Capacity 7.0 cu yd (5.4 cu m) 51 degrees Dump angle Floor angle 3 degrees Lifting Twin hydraulic cylinders Hopper dump door Hydraulic open, close, lock Inspection doors 1 on each side, pressure vessel lock Hopper dump height 40 in (1016 mm) Debris screens Sawtooth drop down

ELECTRICAL SYSTEM 12 V

Voltage Sweeper engine alternator

90 amp

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.



Function





SCHWARZE INDUSTRIES

transitions

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