



RSRW SS00E

THE RUNWAY SWEEPER

MKT/PAR/EXP/2023-12



**RSRW
SS00E**
RUNWAY SWEEPER



For effective FOD Control

Ensuring airport safety is our paramount commitment.

The RSRW 9500E high-speed sweeper stands as a pinnacle of efficiency, meticulously clearing all service and traffic areas at the airport. This strategic cleaning approach not only enhances the overall cleanliness but also mitigates the risk of subsequent damage from **Foreign Object Debris (FOD)**. The RSRW 9500E excels in handling a spectrum of materials, encompassing solid elements like leaves and debris, alongside managing liquids such as de-icing agents and surface water. Noteworthy is the incorporation of the **Permanent Magnetic bar** on the RSRW 9500E's front panel, dedicated to the meticulous collection of magnetic metals, further elevating our standards of operational safety

Features

- Sweeping Excellence Unleashed!
- Efficient Water/Liquid Collection on Runways
- Banishing **FOD Hazards for Aircraft and Runway Safety**
- Intensive, **Swift, and Spotless Cleaning**
- Your Reliable Companion for Airport Cleanliness!

Highlights

- **Advanced RE-GENERATIVE Air Blast system** for Effortless clean sweep.
- Pick up head blast door blow away Dirt, Grass & leaves on side ways.
- In cabin **CAN Bus controls** for easy Runway Sweeper Operation.
- **Remote control with Flexible cable** for Tipping Hopper.
- Hopper Tilting @ 52' to ensure completely empty Hopper.
- Eco-Friendly Tier IIIA auxiliary engine.

Performance

Re-generative sweeper backed by a robust auxiliary engine for optimal performance. This powerhouse comes complete with inbuilt dust suppression water spray nozzles, two circular brushes for thorough Runway and Taxi-way cleaning, and a design tailored for swift and efficient coverage of expansive areas. Unrivaled in the market, the **RSRW 9500E features a unique two-in-one suction head**, effortlessly handling both debris and liquids, setting it apart from competitors. Not just a performer, it's also an economical choice with remarkably low fuel consumption.

- Overall sweeping width of 3300 mm.
- Suction Head of 2300mm
- Water spray dust suppression system with 29 nozzles on Gutter Brushes, Main Brush (Pick-up Head), Suction Tube, Hopper nozzles & the Front Spray bar with High and Low pressure nozzles for effective cleaning with minimal water usage.
- Single unit of Wide - Suction head is effective in clean sweep.



Scan for Thai Airforce
Delivery of 4 Runway
Sweepers video

RSRW
9500E
RUNWAY SWEEPER

Powerful Suction Head for Liquid and Debris

Water Tank & Dust Suppression System

Boasting a substantial water capacity, our runway sweeper features a large **LLPDE water tank of 1500 liters**, complemented by an additional **300-liter detergent tank** specifically designed for efficient removal of oil and grease stains. The water tank, strategically positioned behind the cabin, is easily accessible, and its auxiliary engine is securely enclosed with a durable metal cover

Water Suppression system is supported with the Hydraulically operated water pump supporting the Dust binding.

Water Jets, **29 Spray nozzles** powering the dust suppression system through water jets in

- Gutter (Circular Brushes) 6 Nozzles
- Front Spray Bar with 7 Nozzles (High and Low pressure setting)
- Suction Tube – 6 Nozzles
- Main Broom – 4 Nozzles
- Hopper Unit – 6 Nozzles



Sweeping Hopper

The Roots RSRW 9500 features a robust Stainless Steel Hopper crafted from corrosion-resistant SS304 grade steel, ensuring durability. With a large capacity, the hopper accommodates a substantial volume of debris. The hydraulically operated Hopper Tipping system offers a generous 52-degree tilt angle for efficient discharge. Operate the hopper remotely with ease using the handheld remote control, complete with a long and flexible cable, conveniently stored within the operator's reach in the cabin. Dumping Height – 1070 mm (min).

Easy to access controls in drivers cabin.

Illuminating Feather Touch switches are designed for operator comfort and visibility, enhancing comfort and ease of access, Easy operation control unit placed on the driving side for easy reachability and essential adjustments of Gutter Brush, Blower and Magnet controls.



Control Pad

- Aux Engine RPM
- Magnet Bar On / Off
- Air Blast Open / Close
- Joystick Switch – Brush Tilting
- Standby Operation mode selection.



Electro-Magnetic Bar

Enhance runway cleaning efficiency with the Roots RSRW 9500, equipped with a 2400mm permanent magnet boasting a magnetic strength of 400 gauss. Positioned at the front of the sweeper, this feature ensures effective pickup of metal debris. The permanent magnet offers both electrical rise and pneumatic lowering options, providing versatile functionality to suit varying operational needs



Wander Hose suction hose for cleaning gullies, drain and other awkward areas. Mounted on the Rear Tank Flap. Control extension unit attached Hopper rear door.

High pressure jet of **130 bar** is equipped with the RSRW 9500 for cleaning operations like Hopper after emptying, Stubborn Strains and other essential requirements



Tipping Console Remote Control

Handheld Tipping console REMOTE controls helps in tipping the hopper with long flexible cable connected to the cabin for easy access and safety from water hazard. The hopper can be tilted without starting the Auxiliary Engine.



Second Remote control offers wanderer hose usage with ease.

ROOTS SWEEP

RSRW 9500E

THE RUNWAY SWEEPER

Truck Chassis

Brand	Mitsubishi Fuso
Wheel base	5100 mm
GVW	18400 kgs
Emission	BS III
Fuel Tank	200 liters

Auxiliary Engine

Brand	Cummins QSB 4.5 Turbo Charged
Stage	Tier III A
Rated Output	95Kw / 128 Hp

Blower Fan

Type	Re-generative Principle (Air-Blast & Suction) Advanced Technology Centrifugal Blower driven by Auxiliary Engine. (Made up on High Tensile Structural Steel).
Airflow	20,000 cfm (33,980 m ³ /hr)

Hopper

Construction	Stainless Steel Hopper Made up of SS304 / SS316
Capacity	9.5 Cubic Meter
Tipping	Hydraulic Dump 52'
Dump Height	1070 mm (min)

Sweeping

Sweeping Width	
Main Broom & Suction Head	2300 mm
With Dual Side Brooms	3500 mm
Sweeping Speed	Up to 40 km/hr
Transport Speed	100 km/hr
Ground Clearance	150 mm

Pick-up Head

Rollar Broom	Dia 300
Width	2300 mm
Bristle Material	Poly Propylene

Stand Cleaning

Water Tank	Overall 1500 litres, 300 litres
Side Broom	Stand cleaning 1200mm / Steel Wire(Optional)
	Sweeping 1000mm / Poly Propylene

Wanderer Suction Hose

Diameter	200 mm, 4 Meter Length. (Flexible Hose - 3 Meters & Aluminium Pipe - 1 Meter)
----------	--

Lateral Blower Nozzles

Blower	One Nozzle - For right side opening with Powerful Air Blast. The Nozzle is safely located to prevent the Damage.
--------	--

Electro Magnetic Bar

Length	2400 mm
Strength	400 Gauss
Raise / Lower	Electrical / Pneumatic

Controls

System	Incorporated with advanced CAN BUS protocol controls with multicolour 4.3in display operating on latest 1939 CAN Bus protocol with Fault Diagnosis, Sevice Reminder, Error Log and Data Acquisition.
--------	--

Debris Flap

Capacity	Pick up Debris upto 60mm
----------	--------------------------

Hopper Cleaning System

Spray Nozzles	6 High pressure nozzles
High Pressure Jet	With Lance & Gun
Pressure	150 Bar
Flow Rate	30 Litres per minute

SS Spray bar with multiple nozzles

Additional Fitments

Beacon Lights
Tool Kit
Spare Wheel
Flood Lights
Fire Extinguishers
Hydraulic Jack Etc.



MKT/PAR/EXP/2023-12

30 GLORIOUS YEARS OF FACILITATING A CLEANER NATION



Roots reserves the right, at any time or for any reason, to make any changes considered necessary for the sake of improvement, without prior notice, in line with its policy of continuous product development and advancement.



Roots Multiclean Ltd.

R.K.G. Industrial Estate, Ganapathy, Coimbatore - 641 006. India.

Tel : +91 422 4330 330 | Email : rmclsales@rootsemail.com | Toll Free: 95978 12345

Website : <https://www.rootsmulticlean.com>

ADDING VALUE