

Tow-Behind Runway Sweeper



PALADIN LIGHT CONSTRUCTION

FEATURES

- Hydrostatic brush and airblast drive with in-cab controls
- Self-leveling frame, anti shimmy caster, compact design and choice of hitches
- Speeds up to 40 mph (64 km/h)
- Adjustable brush pattern and hood stripper assures a clean sweep in any weather conditions
- Rear mounted, fuel efficient engine provides power for heavy-duty sweeping



2900/3200 Series Brush & Mounting

Hydrostatic Brush Drive

- The brush is powered by a closed loop, variable speed, hydrostatic drive system. The heart of this virtually indestructible drive system is a variable displacement piston type pump mounted to the output shaft of the rear mounted engine. An electrically activated, adjustable swash plate in the pump allows infinitely variable brush speeds. In-cab control lets the operator adjust the brush speed from the seat. This drive system provides consistent performance in all sweeping conditions.
- Brush Drive - Multiple brush drive configurations are available with up to 5,040 ft. lbs. torque at 525 RPM. All motors and moving components are mounted inside the brush framework to protect against accidental collision damage.

In-Cab Control

- This efficient feature means your operator can control all of the brush and airblast functions with one finger! Control the speed of the engine and brush with a flip of the switch. Change the position of the brush head, air deflector and airblast on each pass quickly and easily. Start or stop the engine and turn on the headlights without leaving the seat.

High-Speed Brush

- Brush fills are available in polypropylene, wire or a combination of 1/2 poly and 1/2 wire. Optional cassette brush systems are also available. The core is divided in half for easy brush change and balance. Sweepster High Speed no shed brushes meet military specification number MIL-F-83002.

Adjustable Brush Pattern

- The brush pattern adjusts with only one bolt. The operator can quickly set the correct brush pattern to meet any sweeping condition, even in bad weather. Sweeping with the correct brush pattern reduces brush wear and extends brush life.

Configurations:

- 36" diameter configurations available in 14', 16', & 18' widths
- 46" diameter configurations available in 16', 18', 20' & 22' widths.

Adjustable Brush Hood Stripper

- Sweepers have an adjustable brush hood bolted to the brush frame. Two crank handles easily adjust the hood as the brush wears. The front edge acts as a stripper cleaning snow, slush, water & debris from the brush & preventing carry over from falling back on the runway.

Self-Leveling Brush Frame

- A revolutionary, independent spherical bearing suspension carries the brush. This suspension allows the brush to move both perpendicular and parallel to the line of travel. Free movement keeps the brush level, reducing brush wear and extending the brush life.

Heavy Duty Swing

- The swing assembly is constructed of heavy duty rectangular tubing. The pivot point is bearing mounted for easy movement.

Caster System

- Casters with 18.7 x 8, 16 ply tires are mounted on the rear of the brush frame. They are heavy-duty, vertical axle casters. Two roller bearings support each caster shaft. Rear mounted casters travel in the swept path of the brush providing a clean sweep.
- The casters are equipped with the exclusive Sweepster anti-shimmy system. This simple system prevents damage prevalent in complicated hydraulic caster anti-shimmy systems. The rims are welded to the hub to prevent wheel bolts from coming loose.

Hydraulic Air Deflector

- The hydraulic air deflector directs snow down toward the runway or up for the wind to carry it away. In-cab controls lets the operator quickly adjust the air deflector to meet changing sweeping conditions.

PH: (800) 456-7100
FX: (734) 996-9014

2800 North Zeeb Road
Dexter, MI 48130
United States of America

www.paladinbrands.com

SA-Tow-Behind Runway 2900/3200 0702-1



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Carrier, Power Supply & Airblast System

Carrier

The lightweight design and choice of hitches allows the versatility to fit into any runway snow removal fleet.

- **Durable Lightweight Design**

State of the art design combined with a main frame made of structural tubing makes these sweepers lightweight and durable. The short wheelbase lets you maneuver quickly and easily into tight spots with great tracking and control on the open runway. The light weight design allows smaller more fuel efficient trucks already existing in your fleet to be utilized as towing vehicles.

- **Choice of Hitches**

The 2900 Series has a choice of ball or pintle hitches as standard equipment. An optional fifth wheel hitch converts the Tow-Behind Sweeper from a three wheel to a two wheel configuration by eliminating the front caster. Get the fifth wheel option at no extra charge and improve the tracking, backing and turning capabilities.

- **Fenders**

Standard fenders help keep snow, slush and water on the ground, not on the sweeper. Mid-mounted tires carry the sweeper frame and the majority of the sweeper weight

- **Hydraulic Test Fittings**

Optional fittings on the brush drive, airblast and hydraulic control circuits that allow for installation of a hydraulic test instrument for measuring oil flow, heat and pressure. This enables you to quickly troubleshoot and give accurate information to your sweeper technicians.

- **Optional Maintenance Contract**

Contact our Sales Department for details on Sweepster's annual maintenance contract.

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Power Supply

The rear mounted, fuel efficient engine provides you with all the power you need for your heavy-duty sweeping.

- **Shrouded Engine**

The engine, hydrostatic pumps, valves, fuel tank, battery and oil tanks are completely covered by the weather tight shroud. Shroud doors are designed to allow easy access for maintenance.

Airblast System

The high capacity airblast with movable chutes gives the versatile power needed for runway sweeping.

- **High Capacity Fan**

The fan is a single inlet, double outlet, centrifugal blower. This high capacity fan provides air velocity up to 320 mph. The blower is capable of moving water and sand off the runway and removing fresh fallen snow from runway lights in one pass.

- **Hydrostatic Airblast Drive**

The airblast is powered by an independent, closed loop, hydrostatic system driven from a rear mounted engine. The hydrostatic motor is mounted directly to the fan blade shaft. The pump is connected to the sweeper engine. Direct power drive eliminates belts, chains and other machinery susceptible to high wear and high maintenance costs.

- **Air Delivery**

The airblast can be raised and lowered or directed to the right or left with in-cab control. The 3" x 11" (7.62 cm x 27.94 cm) duct opening provides airflow 90° toward the direction of the brush discharge. The brush and airblast work together. The airblast angle and lift change automatically to match the brush angle. An optional manual control allows for independent operation of the airblast system separate from the broom if necessary.

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