

# RSRS

*(Rapid Snow Removal System)*



Sourcewell   
Formerly NJPA  
Awarded Contract  
Contract #080818-RPM

**RPM**  
  
**TECH**

**RAIL SNOW  
REMOVAL EQUIPMENT**

The Rapid Snow Removal System (RSRS) is a powerful advanced design for railroad snow removal and track operations. It consists of a rotary type blower, a sweeper, and a retractable side broom for third rail clean up.

Custom built and complying with the railroads dimensions, radius, grade, tunnel entrances and exits, RPM Tech assures a quality and durable product backed up with excellent customer support. The RSRS is complete with one of the best towing capacity on the market in its category. The operator's platform is designed to provide full comfort and full visibility on either side using the highest quality and the latest technology in the industry.



## RSRS SELF-PROPELLED TECHNICAL SPECIFICATIONS

### RSRS SELF-PROPELLED

The RSRS-SP is a self-propelled unit equipped with high efficiency engine and driven by hydraulic pumps to provide operations for snow blowing and sweeping.

Built with two (2) heavy duty differential axles with wheel drive by two (2) hydrostatic motors. Maximum speed is 40 km/hr (25 mph) during travelling and 10 km/hr (6 mph) for snow removal operations. Fuel tank has a capacity to operate the unit of a minimum of eight (8) hours before re-fueling.

Optional engines are available up to 597 kW (800 hp) to provide up to 90,718 kg (200,000 lb) towing capacity at 2% grade, depending on traction efficiency.



### HYDROSTATIC DRIVE VEHICLE

#### PERFORMANCE

- Capacity: Up to 3000 tons/hour<sup>1</sup>
- Casting: Up to 38 m (125 ft)

#### DIMENSIONS

- Wheelbase: 3,353 mm (132 in.)
- Overall width: Up to 2,921 mm (115 in.)
- Overall height: 3,835 mm (151 in.)
- Overall length: 7,721 mm (304 in.)
- Weight: 20,410 kg (45,000 lb) to 29,484 (65,000 lb) based on configuration

#### POWER UNIT

- 280 kW (375 hp) to 597 kW (800 hp)

#### SPOT CASTING CHUTE

- 300° rotation with spot casting deflector

#### IMPELLER CASING

- Rotation: 90°
- Maximum discharge angle from ground: 30° to the left and flat discharge to the right

#### SNOW BLOWER POWER TRANSMISSION

- Hydrostatic transmitted power with shear bolt protection

#### VEHICLE POWER TRANSMISSION

- Hydrostatic motor and pump
- Pneumatic transfer case with two (2) speeds and neutral

#### AXLES (BASED ON CONFIGURATION)

- Two (2) planetary rigid axles
- Rated load capacity: 13,608 kg (30,000 lb) each
- Wheels diameter: 840 mm (33 in.)

#### SNOW BLOWER HEAD

- Impeller, rotary auger
- Six (6) blades
- Width: Up to 2895 mm (114 in.)
- Lifting height: 508 mm (20 in.)
- Impeller diameter: 1740 mm (68.5 in.)

#### MAIN BROOM

- Diameter: 813 mm (32 in.)
- Type: Polypropylene brushes
- Lifting height: 1219 cm (48 in.)
- Variable speed: Forward and reverse

#### FUEL SYSTEM

- Type: Diesel fuel, type 2
- Fuel tank capacity: Eight (8) hour operation

#### HYDRAULIC SYSTEM

- Auxiliary pump for snow blower
- Emergency pump

#### ELECTRICAL SYSTEM

- 12-volt electrical system
- 400 amp alternator
- Four (4) 12-volt batteries

#### OPTIONS

- Third rail retractable side brooms
- Center lift turntable

**NOTE: ALL SPECIFICATIONS AND DIMENSIONS ARE FOR REFERENCE ONLY.**

<sup>1</sup> Depending on snow conditions



# RSRS SELF-CONTAINED TECHNICAL SPECIFICATIONS

## RSRS SELF-CONTAINED - NO CABIN

The RSRS self-contained unit is comprised of the latest technology and design for railroad track snow removal operations.

This RSRS is operated from the carrier cabin via hard wire remote control panel. It consists of a two stage rotary snow blower and a hydrostatic drive sweeper. Its lifting height is fully adjustable as well as its rotational speed all controlled from the operators command panel. A retractable rotary brush for third rail cleaning is optional.



### PERFORMANCE

- Capacity: Up to 3000 tons/hour<sup>1</sup>
- Casting: Up to 38 m (125 ft)

### DIMENSIONS

- Wheelbase: 2590 mm (102 in.)
- Overall width: 2590 mm (102 in.)
- Overall height: 3988 mm (157 in.)
- Overall length: 6248 mm (246 in.)
- Weight: 13380 kg (29500 lb)

### POWER UNIT

- Six (6) cylinder turbocharged and aftercooled Diesel engine
- 280 kW (375 hp) at 2100 rpm

### SPOT CASTING CHUTE

- 300° rotation with spot casting deflector

### IMPELLER CASING

- Rotation: 150°
- Maximum discharge angle from ground: 30° to the left and flat discharge to the right

### SNOW BLOWER POWER TRANSMISSION

- Hydrostatic powered

### SNOW BLOWER HEAD

- Impeller, rotary auger
- Six (6) blades
- Width: Up to 2286 mm (90 in.)
- Lifting height: 508 mm (20 in.)
- Impeller diameter: 1740 mm (68.5 in.)

### AXLES

- Two (2) axles, 76 mm (3 in.) diameter
- Rated load capacity: 9072 kg (20000 lb) each
- Wheels: 508 mm (20 in.) diameter

### MAIN BROOM

- Diameter: 813 mm (32 in.), up to 1956 mm (77 in.) wide
- Type: Polypropylene brushes
- Lifting height: 1219 cm (48 in.)
- Variable speed: Forward and reverse

### BRAKES

- Brake system compatible to work car

### FUEL SYSTEM

- Fuel: Diesel, type 2
- Fuel tank capacity: Eight (8) hour operation

### HYDRAULIC SYSTEM

- Hydraulic system for all brooms
- Hydraulic system for RSRS functions
- Emergency pump

### ELECTRICAL SYSTEM

- 12-volt electrical system
- 105 A alternator
- Two (2) 12-volt batteries

### OPTIONS

- Third rail retractable side brooms
- Dual controls
- Wireless remote control

**NOTE: ALL SPECIFICATIONS AND DIMENSIONS ARE FOR REFERENCE ONLY.**

<sup>1</sup> Depending on snow conditions

## RSRS SELF-CONTAINED WITH CABIN

This unit provides a large two men cabin with panoramic view. It includes an ergonomic control board with switches and controls, located in the vehicle for use by a seated operator. The cabin is constructed and designed to accommodate rail and tunnel dimensions for different rail companies.

It also includes a high powered heater along with sliding windows, wipers, lights all while having the performance and power from the RSRS system.



## RPM TECH'S FEATURES

- ❖ Custom build equipment for the customer needs
- ❖ Extensive snow removal expertise in the rail industry
- ❖ Build for easy and rapid attachment, removal and replacement
- ❖ Design to provide easy servicing, replacement and adjustment of components and accessories
- ❖ ISO quality control certification
- ❖ 24 / 7 service and parts



## OTHER RAIL SNOW REMOVAL AND MAINTENANCE EQUIPMENT



**AF1 Cold Air Blower**



**RPM220 Detachable Snow Blower  
Mounted on a Ballast Regulator**



**CAMELEON® Hi-Rail  
Road/Rail Multitask Vehicle**

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ISO 9001-2015

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