



MULTIPURPOSE SNOW CONTROL VEHICLE MODEL PD87VRG

SHIPPING

1. General

This section provides information for transporting the MP Series MultiPurpose Snow Control Vehicle and attachments. For shipping of combined vehicle and snowblower attachment, it is recommended a detachable type trailer with a minimum length of 40' be used due to height and width restrictions.

Sweeper assembly and reversible plow will require removal from the vehicle for shipping.

2. Shipping Specifications

A. Vehicle with Snow Blower Attached

(1) Weight (Dry)	29,580 lbs.
(2) Height	11'6"
(3) Overall Width	103"
(4) Overall Length	31'
(5) Wheel Base	11'4"
(6) Tread Width	80"

B. Sweeper Assembly

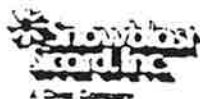
(1) Weight (Brush Head & Blower Assy.)	Approx. 8,000 lbs.
(2) Brush Head Length	18'
(3) Brush Head Width	8'
(4) Brush Head Height	6'
(5) Blower Height	8'
(6) Blower Length	8'
(7) Blower Width	3'

C. Reversible Plow

(1) Weight	Approx. 1,500 lbs
(2) Width	5'
(3) Length	16'4"

NOTE: Length and width dimensions given for attachments reflect minimum space required when loaded lengthwise of a truck or trailer bed.

With air nozzles removed, vehicle may be transported with the basic air blast system attached to the rear of the vehicle.



MULTIPURPOSE SNOW CONTROL VEHICLE MODEL PD87VRG

SPECIFICATIONS AND CAPABILITIES

1. General

This section outlines the specification of the Multipurpose Snow Control Vehicle and specifications for attachments and component parts.

2. Specifications and Capabilities

A. Dimensions

Vehicle GVW (dry)	29,580 lbs.
Operating Weights	
Front	10,000 lbs.
Rear	12,000 lbs.
Total	22,000 lbs.
Wheel Base	136 in.
Tread	80 in.
Blower Capacity	70 tons/min.(3000 TPH)
Casting Distance	150 ft.(3000 TPH)
Cutting Width	102 in.
Overall Dimensions	
Length	372 in.
Width	103.25 in.
Height (top of beacon)	120 in.
Height (w/chute collapsed)	138 in.
Ground Clearance (chassis)	13 in.
Center of Gravity Location (carrier only)	52 in. above ground, 90 in. aft of centerline of front axle

B. Conveyor

Number of Conveyors	2
Diameter of Conveyor	44 in.
Drive	Differential

C. Impeller Assembly

Number of Impeller Blades	5
Diameter of Casing	45 in.
Casing Control	Hydraulic-actuated rotation

D. Casting Chute

Diameter	22 in.
Rotation	240 degrees
Extension-Retracton	Hydraulic-actuated

E. Accessories Engine

Model	8V92TA @600 HP
Type	Diesel 8 cylinder
Manufacturer	Detroit
Rating	600 HP @ 2100 RPM (sea level)

2. Specifications and Capabilities (Cont'd)

F. Blower Engine Accessories

Air Cleaner

Make Donaldson

Model FVG-16-0152

Type Cyclopac

Oil Filter (Primary)

Make Detroit

Type Full flow

Element PF911L

Fuel Filter (Primary)

Make Detroit

Type Full flow

Element T-915

Fuel Filter (Secondary)

Make Detroit

Type Full flow

Element T-916

Governor

Model PTG-V5

Type Mechanical

Setting 2100 RPM

G. Blower Transmission

Model SR972

Type Mechanical

Manufacturer Cotta

Gear Ratios 5:1

Clutch Overcenter, 2-plate

H. Carrier Engine

Model 6-71T

Type Diesel, 6 cylinder

Manufacturer Detroit

Rating 265 HP @ 2,100 RPM (sea level)

Compression Ratio 16:1

Torque 728 lb. ft. @ 1,500 (85 degrees and 500 ft.)

Bore and Stroke 4.49 x 5.32

I. Carrier Engine Accessories

Air Cleaner

Make Donaldson

Model FHG-14-055

Type Cyclopac

2. Specifications and Capabilities (Cont'd.)I. Carrier Engine Accessories (Cont'd.)

Oil Filter
Make Detroit
Type Full flow
Element PF911L
Fuel Filter (Primary)
Make Detroit
Type Full flow
Element TP-915
Fuel Filter (Secondary)
Make Detroit
Type Full flow
Element TP-916
Governor
Model 1343
Type Variable speed mechanical
Setting 2,100 RPM

J. Carrier Transmission

Model MT654CR
Type Automatic, 5-speed with torque converter
Manufacturer Allison Division, General Motors Corp.
Rating 300 HP max., 3000 RPM input max.
Torque Converter Single-stage, 3 element, multiphase
Clutches Hydraulic, spring released, oil cooled (multidisk, self-adjusting),
(manual shift from 1st to 2nd)
Gearing Constant mesh spur type, planetary
Gear Ratios
First 4.17
Second 2.21
Third 1.66
Fourth 1.27
Fifth 1.00
Reverse 10.76

K. Fuel System

Fuel Tanks
Capacity 112 gals. ea.
Manufacturer Snyder
Number 2
Location Center of vehicle

L. Engine Cooling Systems

Blower Engine
Radiator Tube and fin
Capacity 34 gals.
Pressurization 7 PSI
Fan 32 in. 8 blade
Carrier Engine
Radiator Tube and fin
Capacity 8 gal.
Pressurization 7 PSI
Fan 28 in., 6 blade



MULTIPURPOSE SNOW CONTROL VEHICLE MODEL PD67VRG

2. Specifications and Capabilities (Cont'd.)

M. Transfer Case

Model ABC 4500
Manufacturer GKN
Ratios 1.00:1, 2.67:1

N. Axle (Front) (Rear Option)

Model SD66
Type Horizontal, single reduction, full-floating axle, hypoid gears
Manufacturer GKN
Ratio 7.47:1
Capacity 24,900
Mounting Leaf spring

O. Axle (Rear)

Model D66 w/rear steer
Type Horizontal, single reduction
Manufacturer GKN
Ratio 7.47:1
Capacity 24,900
Mounting Leaf spring

P. Tires

Type Tubeless
Make General
Size 1800 x 22.5
Ply Rating 18
Tread Super all grip
Pressure 100

Q. Brakes

Service
Type Air
Model and Make GKN manual adjust
Size of Drum 15 1/2 dia. x 8 in. wide
Parking
Type Air
Model "S" CAM
Location Both axles

R. Hydraulic System

Front Gear Box

Type Mechanical with power assist
Make Ross
Model HFB 64

Hydraulic Pump

Model V20-IP-12P-ICIILH
Make Vickers Inc.
Pressure Rating 2000 PSI
Flow Rating 12 GPM
Drive Chassis engine, flange mounted

Hydraulic Oil Filter

Model 10C
Make Parker



MULTIPURPOSE SNOW CONTROL VEHICLE MODEL PD67VRG

2. Specifications and Capabilities (Cont'd)

S. Blower Control Valves

Model Manual hydraulic
Make Husco
Relief Valve Setting 2000 PSI
Hydraulic Tank
Capacity gal.
Make Snowblast-Sicard, Inc.

T. Air System

Air Tanks

Number 3
Location Right rear of vehicle

Air Compressor

Make Bendix
Model TU-FLO 501
Reference Carrier engine Parts Manual

Air Foot Brake Valve

Part No. 280760
Make Bendix-Westinghouse

Quick Release Valve

Part No. 229844
Make Bendix-Westinghouse

Air System Governor

Part No. 275200
Make Bendix-Westinghouse

Control Valve

Part No. 229623
Make Bendix-Westinghouse

Windshield Wipers

Model B-4545
Make Trico
Type Electric
Blade M874-6BTM

Wiper Control

Model F-1690-2N5
Make Trico

U. Electrical System

Alternator

Rating 12V, 105 amp.

Batteries

Type Series 8D Industrial

V. Reversible Plow, 16' (for 3000 ton unit) (Option)

Make Viking
Model HS
Height 42"
Clearing Width 14'



MULTIPURPOSE SNOW CONTROL VEHICLE MODEL PD87VRG

2. Specifications and Capabilities (Cont'd)

V. Reversible Plow, 16' (for 3000 ton unit) (Cont'd)

Reversing Mechanism Hydraulic cylinders
Deflector Built into curvature of moldboard
Degree of Reversing Up to 37 degrees available
Casters Foam-filled tires, adjustable height, self-steering
No. Ribs 10
Rib Material 1/2" pl.
Moldboard Material 10 ga.
Cutting Edge 1/2" x 8", 1090 steel
Overall Length of Cutting Edge 16'4"
Reversing Cycle Approx. 12 seconds
Female Quick Hitch Tenco 21422022

W. Sweeper, 16' (18, 20 and 22' Optional) (Option)

Make Sweepster
Model 3100
Clearing Width 14'
Reversing Mechanism Hydraulic cylinders
Brush Drive Hydrostatic
Degree of Reversing 45 degrees
Casters 4 - with adjustable anti-shimmy device
Tires Foam filled
Brush Diameter 46"
Brush Material Polypropylene or wire
Air Deflector Hydraulic cylinder controlled
Air Blast Blower 24,000 CFM, 16,000 FPM nozzle velocity
Brush Speed Variable 0 - 500 RPM