

# LM220

NJPA AWARDED  
CONTRACT

Contract # 080114-RPM



*In the background, an RPM227 snow blower in action in the Andes at Tudcum, Argentina.*



**TWO STAGE DUAL AUGER  
DETACHABLE SNOW BLOWER**

## WHAT MAKES US STAND OUT AND GIVES US A HEAD START

### HEAVY DUTY CONTROL AND DISPLAY SYSTEM PLUS +1 FROM SAUER DANFOSS

- A controller using a multiplex CAN communication.
- High resolution grayscale LCD display of 2 in. x 4½ in.
- A 4-button CANBUS joystick with all functions integrated.
- One key ignition switch.
- Two-page display of the following information: engine revolution (rpm), engine oil pressure (psi), engine coolant temperature (°F), system voltage (V), engine load factor, fuel level, engine hour meter, engine alarm lights, clutch engagement light, work lights state, and detailed textual description of errors.
- Visual and audible alarms: low engine oil pressure light, high engine temperature light (air and coolant), low charge voltage light, system error light, low fuel level.
- Visual alarm only: starting aid, drum lock state, maintenance lamp.
- Service menu allows:
  - ◆ Configuration of the clutch
  - ◆ Configuration of the joystick
  - ◆ Setting of the language (English or French)
  - ◆ Reading of stored engine codes
  - ◆ Creation of a password to protect the configurations
  - ◆ Consultation of the records of the last 15 maintenance dates
- Controls:
  - ◆ Hydraulic operation through joystick control
  - ◆ Engine speed (RPM's) through joystick control
  - ◆ Control of working lights and/or chute headlights (optional features)
  - ◆ Switch activated clutch engagement on the control board
- Two emergency stops, one on the snow blower and one on the joystick box.



**HIGH RESOLUTION GRAYSCALE LCD DISPLAY AND PLUS +1 JOYSTICK FROM SAUER DANFOSS**



### VARIABLE PITCH FAN (OPTIONAL)

Variable pitch fan that provides necessary airflow according to the engine cooling demands. Pitch adjustment is done through the PLUS +1 control system. This feature is very useful in powdered snow, in extremely low temperature conditions and during side casting applications.

#### Benefits:

- ◆ Increases power by +/- 30 hp
- ◆ Improves fuel economy
- ◆ Reduces fan noise
- ◆ Increases service life of the alternator, belts, and radiator
- ◆ Minimizes clogging of the radiator with snow or other debris
- ◆ Allows to have a driveline system with fewer components thus reducing the risk of breakage





Two optional work lights installed at the end of the chute improve visibility when loading the snow in a truck.



Two optional work lights can be installed on top of the snow blower body to improve visibility during snow removal operations.

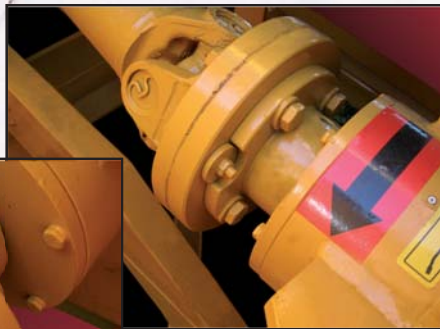
The pendulum installed on the chute indicates whether the snow blower is level.



Optional hydraulic tilting chute:

- Better visibility when traveling;
- Easy cleaning of the chute when clogged with snow.

Two sets of shear bolts protect the impeller and the augers.



# LM220 – TECHNICAL SPECIFICATIONS

## PERFORMANCE

- Capacity<sup>1</sup>: Up to 2750 tons/hour
- Projection<sup>1</sup>: Up to 46 m (150 ft)

## DIMENSIONS

- Overall width: 2795 mm (110 in.)
- Overall height: 3531 mm (139 in.)
- Working height: 1321 mm (52 in.)
- Overall length: 2337 mm (92 in.) max. without female coupler
- Weight: 4490 kg (9900 lb) approx.

## AUGERS

- Drive: Mechanical
- Diameter: Two (2) interchangeable 510 mm (20 in.) diameter full flight augers welded in one (1) piece

## IMPELLER AND DRUM

- Impeller:
  - ♦ Five (5) bolted on and concave impeller blades
  - ♦ Diameter of 965 mm (38 in.)
- Drum:
  - ♦ Diameter of 1016 mm (40 in.)
  - ♦ The impeller casing is hydraulically operated
  - ♦ Rotation 150°
- Projection<sup>1</sup>: Up to 46 m (150 ft)

## FRAME

- Fully welded construction
- The frame is made of a triangular design to allow an optimal distribution of the effort from the front end of the snow blower to the quick attach

## FIXED STEERING VANES

- Height: 1956 mm (77 in.)

## STANDARD TELESCOPIC LOADING CHUTE

- Diameter: 406 mm (16 in.)
- Sections: Two (2) vertical sections, one (1) directional section and one (1) flexible section
- Extension: 457 mm (18 in.) hydraulic extension to allow the loading chute to cast at any adjustable height from 3530 to 3988 mm (139 to 157 in.)
- Rotation: 300° minimum
- Projection<sup>1</sup>: From 1 to 16 m (3 to 50 ft)

## ENGINE

- Make and model: Cat® C7, 205 kW (275 hp) electronic Turbo Diesel Tier 3 engine
- Block heater: 1000 W

## FUEL TANK

- Type: Steel
- Capacity: 310 L (82 gal)

## HYDRAULIC SYSTEM

- Type: Hydraulic pump of 23 L/min (6 US GPM) directly mounted on engine auxiliary drive
- Capacity: 11 L (3 gal)

## ELECTRICAL SYSTEM

- Alternator: 12 V, 150 A, sealed
- Batteries: Two (2) type 31 - 2250 CCA, maintenance free
- Master switch: Standard

## DRIVELINE SYSTEM

- Clutch: Twin Disc, model SP-211
- Type: Chain and gear driven with a spiral reduction bevel gear box
- Lubrification: Oil bath
- Safety mechanism: Two (2) sets of shear bolts protect the impeller and the augers

## INSTRUMENT PANEL AND CONTROLS

- Model: Heavy duty control and display system PLUS +1 from Sauer Danfoss
- Controls:
  - ♦ One controller using a multiplex CAN comm.
  - ♦ One high resolution grayscale LCD display of 2 in. x 4½ in.
  - ♦ One joystick with integrated functions
  - ♦ One key ignition switch

## SKATES AND SCRAPER BLADE

- Quantity:
  - ♦ Six (6) external carbide skates
  - ♦ Four (4) internal carbide skates
- Blade: One (1) reversible CHT 100 steel scraper blade

## OPTIONAL EQUIPMENT

- 256 color LCD screen of 3⅞ in. x 5¾ in.
- Arctic lubrication kit (temperature under -25°C (-13°F))
- Battery heater
- Bolted ice breakers
- Carbide bottom cutting edge
- Carbide chrome 60Rc (drum and chute)
- High hydraulic temperature protection
- Hydraulic oil heater
- Hydraulic steering vanes (2795 mm (110 in.) or 2946 mm (116 in.))
- Hydraulic tilting chute
- Low coolant level alarm
- Quick attach compatible with all loader-mounted models
- Residential Cowl muffler
- Spin-on type Racor filter with heated water separator
- Thermostatic fan drive
- Trimay® alloy-clad (drum and chute)
- Variable pitch fan
- Wireless control system
- Wireless emergency engine shutdown system
- Work lights on the loading chute and/or the snow blower body

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

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