



Model: L52

Self-Contained Hydrostatic Snow Blower

1. Configuration:
 - a. Two-Stage Blower Design
 - b. Snow Capacity: 5000 TPH
 - c. Casting Distance 150'
 - d. Operating conditions -45° to 110°
 - e. Pads/absorber used in all necessary areas to reduce premature wear
 - f. Splittable frame, Bolted & Welded construction
 - g. Constructed from steel, rated for maximum usage
 - h. Quick coupler to match loader

2. Dimensions:
 - a. Height: 100"
 - b. Height (w/spot chute): 140"
 - c. Length: 142"
 - d. Working height: 66"
 - e. Dry weight: 24,000 lbs.
 - f. Cutting Width: 132"

3. Power Train:
 - a. Engine:
 - i. Diesel engine Turbo Charged
 - ii. Cummins X12 513 HP, Cummins X15 675 HP, CAT C13 577 HP
 - iii. Emissions Level: Stage V
 - iv. 12 or 24 VDC Electrical System
 - v. Heavy Duty Alternator
 - vi. Two stage dry type air cleaner with pre-cleaner
 - vii. Air restriction gauge with clogging indicator mounted on pipe
 - viii. Electronic controlled injection system
 - ix. Low oil and high temp engine shutdown system
 - x. Block Heater, 120V
 - xi. Oil Pan Heater, 120V
 - xii. In-line heated fuel water separator w/ replaceable elements
 - xiii. Primary and secondary fuel filters
 - xiv. Spin-on oil filter

SAWTOOTH INDUSTRIAL LLC

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- xiv. Oil level gauge
 - xv. Fuel, Lube, Hydraulic and Fuel/Water separator serviceable with remote drains
 - xvi. Cold Weather Starting Aids

b. Cooling System

- i. Heavy duty cooling system
- ii. Sucker or Blower Fan
- iii. Coolant level sensor
- iv. Visual coolant level visible from ground
- v. Rated -45F to 110F
- vi. Radiator mounted with vibration isolators
- vii. Drain cock installed at the lowest point of the cooling system
- viii. Safe access for coolant fill

c. Fuel System

- i. 150 -200 gallon fuel tank depending on engine
- ii. Enough fuel to operate at rated capacity for 8 hours @ 90% of rated engine output
- iii. Vented fuel cap with safety valve
- iv. Fuel level gauge programmed in cab monitor
- v. Fuel drain cock with 3/8" plug
- vi. Includes spin-on heated fuel/water separator filter
- vii. Fuel fill: 3 or 4 inch fill openings

d. Transmission

- i. HD Side Drive or Hydrostatic Drive. NO Belts or Chains
- ii. Transmission Heavy Duty Cooling System
- iii. Rated for maximum torque output from the engine
- iv. Hydrostatic Transmissions equipped with reliefs and NO Shear Pins
- v. Mechanical System protected with shear pins
- vi. Mechanical system equipped with heavy-duty oversized gearboxes with custom reduces to match the unique snow removal needs of individual customers

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4. Electrical System

- a. 12 or 24 VDC
- b. Wireless with handheld rechargeable remote
- c. 7" LCD Screen in-cab with all necessary gauges and emergency backup blower controls
- d. 25' backup hardwire cable included
- e. Ignition button
- f. Functions for:
 - i. Volute L/R
 - ii. Chute telescope Up/Down (Optional)
 - iii. Chute rotate L/R (Optional)
 - iv. Chute cap Up/Down (Optional)
 - v. Chute fold Up/Down (Optional)
 - vi. Steering Vane In/Out (Optional)
- g. Wiring color-coded
- h. Wiring sealed and all connectors waterproof
- i. Illuminated tachometer w/hour meter
- j. Illuminated voltmeter, engine coolant temp, oil pressure gauge and fuel level
- k. Stop engine and check engine-warning lights
- l. Diagnostics page with auto reset when the code is resolved
- m. Visual alarms for over-heat, low oil, high coolant temp, low fuel and low coolant engine shutdown
- n. Master emergency shut down button on rear side machine
- o. Master electrical disconnect switch
- p. Two maintenance free batteries 1000 CCA with on-board charging system
- q. Remote Jump Start Terminals

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5. Hydraulic System

- a. Hydraulic pump sized to operate all functions
- b. 13 GPM @ 2100 RPM pump for auxiliary functions
- c. Heavy-duty mobile electro-hydraulic valves with insulated wiring connections
- d. Valving with handles for manual activation in case of fault
- e. Open loop system, no need for dump valve
- f. Hoses are SAE JIC fittings, adapted from stock O-ring fittings on valving and filters
- g. All fittings crimp on style
- h. Hydraulic tank heater
- i. 10-micron filter on return side
- j. Oil tank equipped with breather and sight glass
- k. Oil tank capacity: enough to supply all hydraulic functions appropriately

6. Engine Compartment

- a. Tilting compartment for ample access to engine compartment components
- b. Rear panel for quick access to electrical
- c. No roof openings for piping, water-tight

7. Snow Blower Head

- a. Plow
 - i. Extension wings with reinforced gusseting
 - ii. Rear rib gussets
 - iii. Fully-open volute ingestion
 - iv. Fully-welded and reinforced frog
- b. Blades
 - i. Scraper blade of high-abrasion T1, reversible, two-piece, 1/2x8", full width (can be customized to accept CAT blades)
 - ii. Two front skid shoes, adjustable
 - iii. Two skid shoes mounted behind the engine compartment
 - iv. Two skid shoes mounted on outside of blower head on cutter extensions
 - v. All skid shoes replaceable
 - vi. 1/2" 5/8" and 3/4" Available side plates of high-abrasion steel with cutter extensions and heavy-duty reinforcement
- c. Spot Chute (Optional)
 - i. Style 1: Telescoping truck loading chute
 1. Fold over for unclogging and transport (optional)
 - ii. Style 2: Capper Chute
 - iii. Up to 270-degree of total rotation

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- iv. Top flap adjustable
 - v. Panels for cleanouts
 - d. Impeller
 - i. Diameter: 52"
 - ii. Depth 20"
 - iii. 5 Blades of high-abrasion steel and individually replaceable
 - iv. Fully-welded fan blade gusset into center hub
 - v. Impeller casing: 3/8"
 - vi. Flat cast right with 145-degrees total rotation to the left
 - di. Ribbons
 - i. Diameter 52"
 - ii. Ribbons serrated
 - iii. Flights individually replaceable
 - iv. Flights of 1/2" T1 steel
 - v. Reels 3/4" Steel
 - vi. Flights and reels gusseted for strength
 - vii. Rubber deflector bolted to top of blower frame
 - 8. Paint
 - dii. All surfaces sandblasted
 - diii. Two coats of two-part epoxy primer
 - div. Two topcoats of polyurethane paint (Customer preference of Yellow, Orange or Green)

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