

# SW48HY

*Hydrostatic*



**BOMBARDIER**



# SW48HY

## Hydrostatic

**The SW 48<sup>®</sup> HY,  
engineered with the  
user in mind.**

**Designed with features that translate into benefits for your operations:**

**Efficient and effective:** The SW 48 HY, designed and built to work in harsh winter conditions, is the most powerful and efficient sidewalk snow-clearing vehicle.

**Reliable:** The new hydrostatic design is based on twenty years of experience using advanced technology on tracked vehicles.

**User-friendly:** Featuring improved ergonomics, a steering wheel and our new air-ride suspension.

### Safety & Comfort

The new vehicle ergonomics, superior visibility and safety features increase worker satisfaction, help reduce operator fatigue, increase productivity, reduce unintentional damage to property and reduce overall operating cost.



#### ERGONOMICS

All instruments and controls are clearly visible and within easy reach of the operator.



#### CAB

Spacious cab and suspension seat for increased operator comfort.

Electronic steering wheel control for ease of operation

- Precise control
- Minimal physical effort
- Adjustable: telescopic and tiltable



## Why switch from mechanical to hydrostatic drive?

For significant improvements in the ease of operation, reduced downtime, greater maneuverability and extended service intervals as well as enhanced safety features.

### New Features



#### AIR SUSPENSION

The front adjustable air suspension reduces maintenance costs and increases operator comfort by reducing shocks and vibrations on the vehicle.



#### FRONT QUICK HITCH

The new quick hitch system makes changing attachments easier and quicker.

#### HYDROSTATIC TRANSMISSION

The new hydrostatic transmission is designed and built for severe industrial use. The result: a highly reliable transmission which reduces maintenance costs.



### Attachments



#### PLOWS

Available 58 inch or 70 inch straight plow with trip mechanism, angling cylinders and a replaceable cutting edge. A 48 inch V-Plow is also available.



#### **SALT & SAND SPREADER**

Computer controlled application spreads sand or salt evenly to reduce waste and stops when vehicle is stationary. Also, the high volume capacity requires fewer refills than other models in its class.



#### **SWEeper**

The new fully hydrostatic front mounted sweeper is perfect for light snow conditions. A water jet and tank kit is also available for springtime clean-up.

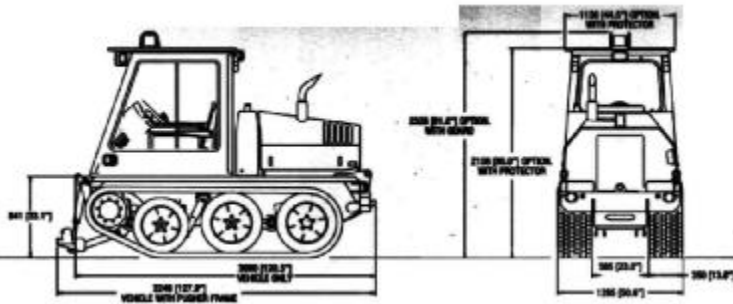


#### **SNOW BLOWER**

The two-stage twin auger fully hydrostatic snow blower provides the best performance in its class. Other benefits: no shear pin, quick change truck loading shoot.

# SM48HY

Hydrostatic



## ENGINE

Make	Perkins	
Model	1004-40T	
No of Cylinders	4	
Displacement	244 cu. in.	4 L
Horsepower @ 2400 rpm	108 HP	80,5 kW
Torque @ 1400 rpm	264 lbs. ft.	365 N.m

## POWER TRAIN

Hydrostatic Transmission Pumps	
- Make	Sauer Danfoss
- Type	Series 90
- Size	75 cc
Hydrostatic Transmission Motors	
- Make	Volvo
- Type	Series F12
- Size	40 cc
Final Drives	
- Make	Fairfield - disengageable
- Ratio *	11.93 :1
Parking Brakes	
- Make	Matrix
- Type	Dry - spring applied, pressure released
Drive sprockets	
- Type	Rubber and fabric
- Location	Front

## STEERING

Independent control of each track through micro-processor. Steering wheel and forward / neutral / reverse lever.

## CHASSIS

Type	Toboggan, welded
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## SUSPENSION

Front wheels	Adjustable air suspension with hydraulic dampener
Rear wheels	Tandem with hydraulic tensionner for tracks

## WHEELS

Quantity	6	
Type of tire	Solid rubber with 5 bolts	
Size Front	140 mm x 559 mm	
	5.5 in. x 22 in.	
Size Rear	140 mm x 622 mm	
	5.5 in. x 24.5 in. OD	

## TRACKS

Type	Endless rubber tracks with steel wire reinforcement	
Width	350 mm	13.8 in.

## ELECTRICAL

Voltage	12 volts	
Battery Capacity	750 CCA	
Alternator Capacity	105 amps	

## DIMENSIONS

Overall Length		
- Basic vehicle	3060 mm	120,5 in
- Veh with straight 58" blade	3882 mm	153 in
- Veh with snow blower	4217 mm	166 in
- Veh with V-Flow	4510 mm	178 in
- Veh with snow blower & spreader	4745 mm	187 in
Overall Width	1285 mm	50,6 in
Overall Height	2294 mm	90,3 in
Ground Clearance	249 mm	9,8 in
Shipping Weight		
- Veh with tracks	2687 kg	5925 lbs
... plus 58" blade	2823 kg	6225 lbs
... plus snow blower	3340 kg	7365 lbs

## HYDRAULIC SYSTEM

Pump Type	Priority Flow	
Pump Size	22,4 cc / rev.	
Flow @ 1400 RPM	25 L/min. (6,6 GPM)	

## CAPACITIES

	Liters	US gal.	Imp. gal.
Engine Cooling System	12	3,1	2,6
Fuel tank	142	37,5	31,2
Hydrostatic	19	5	4,1

## PERFORMANCE

Maximum Speed	30 km/h	19 mph
Inside Turning Radius	0 m	0 ft
Ground pressure		
- Vehicle with tracks	265 g/cm <sup>2</sup>	3,7 PSI
- Vehicle w tracks w 58" blade	278 g/cm <sup>2</sup>	3,9 PSI
Maximum Gradeability (static test when loaded)		
- Sidehill	35 %	
- Uphill	55 %	

## CAB

- 1 person cab insulated with electric power tilt and integrated roll over protective structure (ROPS) complying with SAE J1040
- Three point safety belt
- Adjustable suspension seat
- Heater with adjustable temperature and fan control
- Dome lamp and dash lights
- Intermittent front windshield wiper with washer
- 2 front halogen lights with flashers
- 1 rear halogen light
- Brakes and parking lights
- Beacon light
- Joystick for front implement control
- Radio with speakers
- Headlight protector
- Strobe light protector
- Rear windshield wiper

## STANDARD EQUIPMENT

Engine block heater	600W
Air Cleaner - Type	Dry
Anti - freeze	Up to -37°C (-35°F)
Back-up alarm	
Emergency stop switch	

## Gauges & Indicators:

Hour meter	Warning buzzers (with indicator light):
Fuel gauge	Engine temperature
Tachometer	Engine oil pressure
Joystick for blade control	Hydrostatic oil temperature
Engine temperature gauge	Hydrostatic low pressure
Hydrostatic oil temperature	Hydrostatic low level
Battery charge	Return-to-neutral indicator
Work mode indicator	Parking brake
Neutral indicator	
High beam light	

## OPTIONAL EQUIPMENT

**Cab**  
Special color  
Rear windshield defroster  
Speedometer

## Blades

Straight blade 147 cm (58in.) with trip mechanism and reversible cutting edge  
Straight blade 177 cm (70in.) with trip mechanism and reversible cutting edge  
V plow, 122 cm (48 in.) with replaceable cutting edge

## Snow Blower

Capacity: 5 tons per minute (300 tons per hour)  
Fully hydrostatic  
Cutting width standard 1270 mm 50 in  
Cutting width with side plates 1371 mm 54 in  
Cutting height 1295 mm 51 in  
Chute extension length 1220 mm 48 in  
Chute rotation (degree) 245°  
Adjustable skid shoes  
2 full flight spiked augers  
No mechanical shear pin  
Hydraulic full float (up & down)

## Sand & Salt Spreader

Capacity 0,37 m<sup>3</sup> 0,5 yd<sup>3</sup>  
Control of flow with potentiometer inside cab.  
No flow when vehicle is stopped.  
Additional length added to vehicle 528 mm 21 in

## Sweeper

Brush width 5 ft 1520 mm  
Brush diameter 24 in 600 mm  
Brush material Polypropylene and steel  
Side angling (degree) 30° both sides  
Jack stands  
Front caster wheels  
Hydraulic full float (up & down)

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