

**OPTIMAL<sup>®</sup>**  
EQUIPMENT

# SNOW BLOWERS



PERFORMANCE FOR EVERYDAY USE

# SWEDISH TOP QUALITY

OPTIMAL snow blowers are manufactured in several models with different mounting options. By equipping the snow blower with among other things extension wings, height extension plate, high discharge chute, and supporting wheels you can adjust the snow blower to suit your particular needs.

## **Two step operation**

All Optimal snow blowers are

powerful and reliable in any type of situation. The two step working principle makes them excellent even for heavy and demanding snow clearance work.

The feeding screws with knife operation crush ice and packed snow. This provides an effective snow throughput feeding the snow via the rotor with wings and finally throwing the snow out through the robust discharge chute.



*The snow blowers can be turned around and thus be used towed or with a reversing tractor. Some models can be used front mounted.*



## SPECIAL FEATURES

- The worm gear turns discharge chute - stronger than traditional gear wheel drive. The self-cleaning worm gear keeps the chute locked in the desired working position - a big advantage in icy condition.
- Reversible wearing edges made of HARDOX® steel increases service life.
- Skid shoes made of HARDOX® steel.
- Twin flap in the discharge chute.
- Sandblasted and powder coated. An extremely wear resistant surface is provided.
- 3-point hitch with integrated A-frame is standard on all models 2000 - 2450 and on 1800HD - 2402HD.
- Equip the snow blower with a high discharge chute e.g. for loading on a truck, loading height 3.40-3.70 m depending on model.
- Extension wings for right and left side respectively, height extension plate for work in deep snow and supporting wheel with skids available as options.



*The robust wearing edges made of HARDOX® have double mounting holes and can be turned around. This doubles the service life of the wearing edges. The support pads are made of HARDOX® as well.*



*Framing with stiffening plate is standard on all H and HD-models.*



*Discharge chute with twin flap reduces the risk of unwanted stops and is standard on all models. Electrical/hydraulic flap control available as option.*



*Worm gear is standard on all Optimal snow blowers. This unique feature is self-cleaning and keeps the discharge chute locked in the desired position. Note the greasing nipple.*



*High safety – the operation of the feeding screw and the rotor is protected by a shear bolt clutch in case of overloading.*



# SNOW BLOWERS FOR TOUGH WORK



*Extra powerful HD-transmission for front and rear mounting (1000 rpm upper drive shaft/540 rpm lower drive shaft).*

*Optimal placement of the transmission. The cardan shaft works in a horizontal position providing best power transmission and long service life.*

## **Heavy Duty-models – up to 1000 rpm**

Optimal HD-models (Heavy Duty) are recommended for tractors with front PTO 1000 rpm. These models are built to handle tuff duty and demanding working conditions. They feature a robust framing, powerful transmission and bolted 3-point hitch.

The HD-transmission has two drive shafts allowing front mounting of the snow blower with 1000 rpm or rear mounting with 540 rpm. The favourable placement of the HD-transmission makes it possible to let the cardan shaft operate in a horizontal position. This brings a maximized power transmission and minimizes the stress on the cardan shaft.



2402HD



2600HD



2602HD



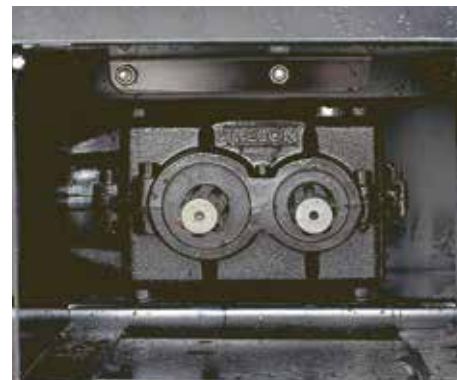
## TECHNICAL DATA, HD-models

Model	1800HD	2000HD	2450HD	2600HD	2002HD	2202HD	2402HD	2452HD	2602HD
Working width, cm	182	195	243	260	195	215	235	243	260
Height, cm	82	82	96	113	82	82	82	96	113
Approx.weight, kg	564	730	1018	1240	750	760	792	1014	1 248
Cat. 3-point	II	II	II + III	II + III	II	II	II	II + III	II + III
Feeding auger Ø, cm	34	34	44	50	2 x 34	2 x 34	2 x 34	44 + 34	50 + 34
Capacity m³/min	8 - 12	10 - 12	12 - 16	14 - 20	10 - 12	12 - 16	12 - 16	14 - 18	16 - 22
Req. minimum power, hp	55-150	65-150	90-200	100-300	65-150	70-150	70-150	100-200	110-300
Rotor Ø, cm	68	68	80	90	68	68	68	80	90
Reverse mounting CW, rpm	540	540	540	540	540	540	540	540	540
Towed mounting CW, rpm	540	540	540	540	–	–	–	–	–
Front mounting CCW, rpm	1000	1000	1000	1000	1000	1000	1000	1000	1000

Optimal snow blowers are as standard delivered with Walterscheid PTO 1 3/8" z6 and 3-point hitch. The weight is stated incl. 3-point hitch. CW = clockwise, CCW = counter clockwise.

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# HANDLES ALL TYPES OF SNOW



*Powerful transmission with double PTO 540/1000 rpm or 540/2000 rpm and integrated rotation inverter.*

## Mechanical snow blowers up to 2000 rpm

These models have been specially developed for the increasingly popular compact tractors with 25-70 hp. These models have a compact and very robust transmission with rotation inverter.

These models are suitable for front mounting on tractors with 2000 rpm or 1000 rpm, alternatively reversing with 540 rpm.

The working width is adjusted to pavements, foot-paths and other narrow passages. It is a small and flexible machine with several options making it adaptable to special requirements.

## TECHNICAL DATA, mechanical models

Model	SB151	SB151	SB191	SB191
Working width, cm	157	157	187	187
Height, cm	63	63	63	63
Approx. weight, kg	314	314	330	330
Cat. 3-point	0 + 1	0 + 1	0 + 1	0 + 1
Feeding auger Ø, cm	34	34	34	34
Capacity m <sup>3</sup> /min	6 - 8	6 - 8	6 - 10	6 - 10
Req. minimum power, hp	25 - 60	25 - 60	30 - 70	30 - 70
Rotor Ø, cm	45	45	45	45
Reverse mounting CW, rpm	540-1000	540-1000	540-1000	540-1000
Towed mounting CW, rpm	–	–	–	–
Front mouing CCW, rpm	1000	2000	1000	2000

*Optimal snow blowers are as standard delivered with Walterscheid PTO 1 3/8" z6 and 3-point hitch. The weight is stated incl. 3-point hitch.*

*CW = clockwise, CCW = counter clockwise.*







### Mechanical snow blowers 540 rpm

The mechanical snow blowers are available in different models. The integrated rotation inverter makes it possible to mount the snow blower independently of the direction of rotation of the PTO. Thus the snow blower can be reversed, towed or front mounted.

### TECHNICAL DATA, mechanical models

Model	2000	2200	2400	2450
Working width, cm	195	215	235	243
Height, cm	82	82	82	96
Approx. weight, kg	564	592	614	818
Cat. 3-point	II	II	II	II + III
Feeding auger Ø, cm	34	34	34	44
Capacity m³/min	8 - 10	10 - 12	10 - 12	12 - 16
Req. minimum power, hp	30 - 80	50 - 95	65 - 115	90 - 135
Rotor Ø, cm	68	68	68	80
Reverse mounting CW, rpm	540	540	540	540
Towed mounting CW, rpm	540	540	540	540
Front mounting CCW, rpm	540	540	540	540



2450

Optimal snow blowers are as standard delivered with Walterscheid PTO 1 3/8" z6 and 3-point hitch. The weight is stated incl. 3-point hitch. CW = clockwise, CCW = counter clockwise.

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## MORE POSSIBILITIES



*The mounting of the piston type hydraulic engine in the transmission minimizes power losses. Adapted for high pressures and continuous operation. Refer to model 1800H-2452H.*



*Tool box with holders for spare shear bolts is standard on all HD- and hydraulic models. Room for useful tools, greasing equipment etc.*

### Hydraulic snow blowers

The hydraulic snow blowers are available in different models and are recommended for front mounting and are suitable for most machines with motor hydraulics. The powerful hydraulic motor is mounted directly on the transmission providing a safe and economical service life.

The hydraulic driven models are delivered with reversible wearing edge and overload protection on the feeding screw as standard features. Hydraulic tubes and connections are offered separately depending on tractor/equipment.

*OPTIMAL snow blowers 2202H-2602HD equipped with double feeding screws for much snow. The open feeding screw cuts and crushes effectively ice and packed snow providing an effective capacity in shifting conditions.*







The picture shows 191H. The models 151 and 191 have been developed based on the popular and well-tried preceding models 150 and 190. The new models have among other things been equipped with a new optimal transmission.

#### TECHNICAL DATA, Hydraulic models

Model	151H	191H	1800H	2002H	2202H	2402H	2452H
Working width, cm	157	187	182	195	215	235	243
Height, cm	63	63	82	82	82	82	96
Approx.weight, kg	334	340	534	693	710	732	944
Feeding auger Ø, cm	34	34	34	2 x 34	2 x 34	2 x 34	34 + 44
Capacity m³/min	6 - 8	6 - 10	8 - 12	8 - 12	8 - 16	8 - 16	12 - 18
Req. minimum power, hp *	30	40	50	60	70	80	100
Rotor Ø, cm	45	45	68	68	68	68	80
Reverse mounting CW, rpm	•	•	•	•	•	•	•
Towed mounting CW, rpm	–	–	–	–	–	–	–
Front mounting CCW, rpm	•	•	•	•	•	•	•

\* ) Min req. power need:  $hp = l/min \times bar / 10 / 60 \times 1,36$

Contact Trejon for detailed information.

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# Accessories



## Extension wings

Increase the working width. Available for right and left side.



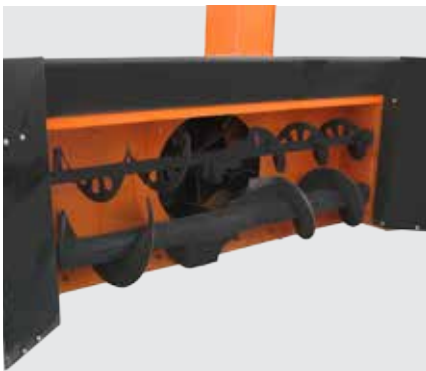
## Hydraulic flap control

Adjust the flap hydraulically and control the discharge of the snow.



## Electrical flap control

Adjust the flap electrically and control the discharge of the snow.



## Height extension plate

Increase the capacity and the working height with the height extension plate, requires extension wings.



## Supporting wheels

Supporting wheels for model H and HD, spares the ground and the machine.



## Cardan shaft

Well dimensioned cardan shaft from the world leading manufacturer Walterscheid. Cardan shaft with clutch automation, automatic safety clutch which replaces shear bolt available as options.



## High discharge chute

Adapt the snow blower for loading on a truck or similar using a high discharge chute. Can also be equipped with an adapter for additional height.

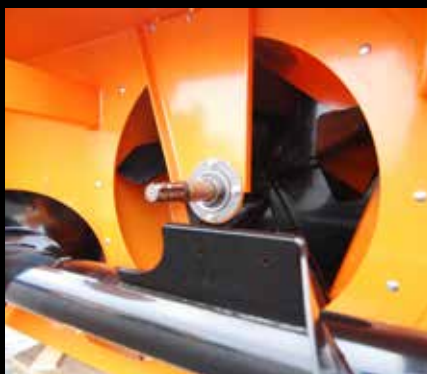
The machines on the pictures might be equipped with accessories.





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Trejon 2013. Possible changes can be made in facts, product range and design in this brochure. With reservations for possible changes. The machines shown in the pictures may have optional equipment.

With more than 10.000 machines running, OPTIMAL snow blowers are the most sold ones in Scandinavia. They are used both for easy as well as for heavy duty snow clearance work at the most different climate and weather conditions. The machines are also very popular in our other neighbouring Nordic countries as well as in the rest of Europe.



[optimalequipment.se](http://optimalequipment.se)

Our environmental and quality work is supported by our environmental certification ISO 9001 and our quality certification ISO 14001.



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