

J. VARILA STEEL

A MEMBER OF THE ÖSTERBERG GROUP



Snow blower

TR 200

Operating and maintenance manual



J. VARILA STEEL OY

Koivukoskentie 2

69950 PERHO

Jari@varilasteel.com

06 8633832/050 3597074

www.varilasteel.com

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Snow blower TR 200

1. Use

The snow blower is intended for snow removal only.

2. Technical information

	TR-200
• Working width	2000mm
• Plowing wing height	530mm
• Rotor diameter	560mm
• Spline shaft	1 3/8"
• Power need	20kW
• Weight	245kg

3. Operation

3.1 Introduction

Before the installation, make sure, that the tractor is off and handbrake is on. Install the snow blower on the tractor's lifting arms. Adjust the upper lifting arm in the way that the snow blower is horizontal. Pay particular attention, that the consumption blades doesn't scratch the road base.

The cardan shaft must be equipped with CE- marking and use 540r/min. out take.

3.2 Working with the snow blower

The snow blower is intended for snow removal only. Large enough round speed must be used so that working is effective. MAXIMUM PERMISSIBLE ROUND SPEED IS 540 R/MIN. Select the correct gear according to the propagation speed, so the round speed readings stay steady. When working with the first snow, use smaller driving- and round speeds and lift the snow blower a bit off the ground if needed. Among the first snow there are often stones (which can damage the snow blower and surroundings).

Always check in advance, that there are no objects or obstacles on the driving route, because the stones and other solid objects that fly among the snow shower can damage the snow blower and pose a danger to the surroundings and people and animals nearby. Make sure before the use, that all the parts that protects the cardan shaft are on their places and unbroken. The shield of the cardan shaft must together with the tractor and snow blower shields cover the cardan shaft entirely, including universal joints, overload protectors and coupling sleeves.

No shields should be removed when using the snow blower.

3.3 Detachment

- a) Land the snow blower on a flat surface.
- b) When the tractor is off, handbrake is on and the pressures are out of the system disconnect the hydraulic hoses and cover the ends of the hoses with plugs (if hydraulics).
- c) Remove the snow blower from the tractor lifting arms.
- d) In case there's no use for the snow blower in a long time, store it indoors.

4. Safety Instructions

- Make sure, that the tube cover of the cardan shaft and the top covers are intact.
- There must be no person other than the driver in the tractor carrying the snow blower.
- Make sure the tractor's work lights are sufficient and appropriate (the whole working area must be sufficiently illuminated).
- Before using the snow blower make sure, that nobody or nothing is on the snow showers way. If possible firm objects (stones etc.) go into the snow blower, they fly several tens of meters in the direction indicated by the horn (notably further than the snow shower).
- The snow blower must be stopped when passing by people, animals, vehicles and firm objects, that can hurt or be damaged by the snow or solid objects that fly out of the snow blower.
- Before maintenance- and repair work, turn off the tractor, put handbrake on, disconnect the cardan shaft and make sure, that the snow blower's rotor doesn't spin anymore. Land the snow blower on a flat surface for maintenance- and repair work.
- Never put Your hand or foot in the feeding tube or discharge pipe when the snow blower is on. Make sure nobody can get it done. Also follow, that animals will not drift into the feeding tube when the snow blower is on.
- Do not remove protective equipment, horns or shaft shields while using the snow blower.
- Inform everyone, who uses the snow blower, what risk it can cause and how to avoid the accidents.
- Under 18 year old person is not allowed to use the snow blower.
- The noise level of the snow blower is 74 dB(A).

5. Maintenance

Before the maintenance turn off the tractor, put the handbrake on and disconnect the cardan shaft.

Land the snow blower on a flat surface and make sure, that the rotor does not spin in any situation.

Clean the snow blower after every use. This way interference in use and unnecessary damage on the next drive can be avoided.

After the snow season clean the snow blower carefully and by painting the wearable components, the equipments working life can be extended considerably.

The snow blower's ball bearings need to be lubricated every 50 hours of operation. Don't lubricate the new bearings, but only after 50 hours of operation lubricate the first time.

The joints and shields of the cardan shaft must be lubricated every 8 hours of operation. In the event of any repairs, it is necessary to ensure the balance and durability of the parts and to follow the manufacturer's instructions on request. Tighten the screws and bolts after first use and after every 50 hours of operation.

6. Warranty terms

The warranty covers material and work flaws and is valid for one use period from the date of purchase or 12 months. The warranty does not cover any errors, that have arisen from the fire, traffic damage, careless use, unmanageable repair or careless maintenance.

The warranty does not cover indirect costs or losses either.

Warranty work is always carried out using the cheapest worker and parts will be replaced at factory prices by new parts. The new part will be delivered to replace the broken part and the old broken part is returned or scrapped, this is agreed separately. Before starting the repair, the factory is always agreed upon.

In a warranty claim must always be made written complaint to the factory, in case that the buyer and the seller of the snow blower can not reach an agreement.

At least the following points must appear in the written complaint:

- machine type and serial number
- the date of purchase and the seller
- the date on which the error or defect occurred
- the reasons for the damage and the resulting damage.

The seller primarily responds and supervises that the damage will be repaid to the customer in accordance with the warranty terms. In urgent case, the seller can deliver a possible spare part to the customer right away. If the damage is stated warranted, J. Varila Steel Oy returns the price of the spare part to the seller.

7. EC- compliance with the insurance

Manufacturer: J. Varila Steel Oy

Address: Koivukoskentie 2
69950 PERHO

Convinces, that the snow blower TR-200 meets the Machinery Directive (directive 98/37/EU) and related changes and national law articles that passage them;

And also convinces, that the following harmonized standards (or their parts/ points) has been applied: SFS-EN 292-1, SFS-EN 292-2, SFS-EN 1553 ja SFS-EN 1050.

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