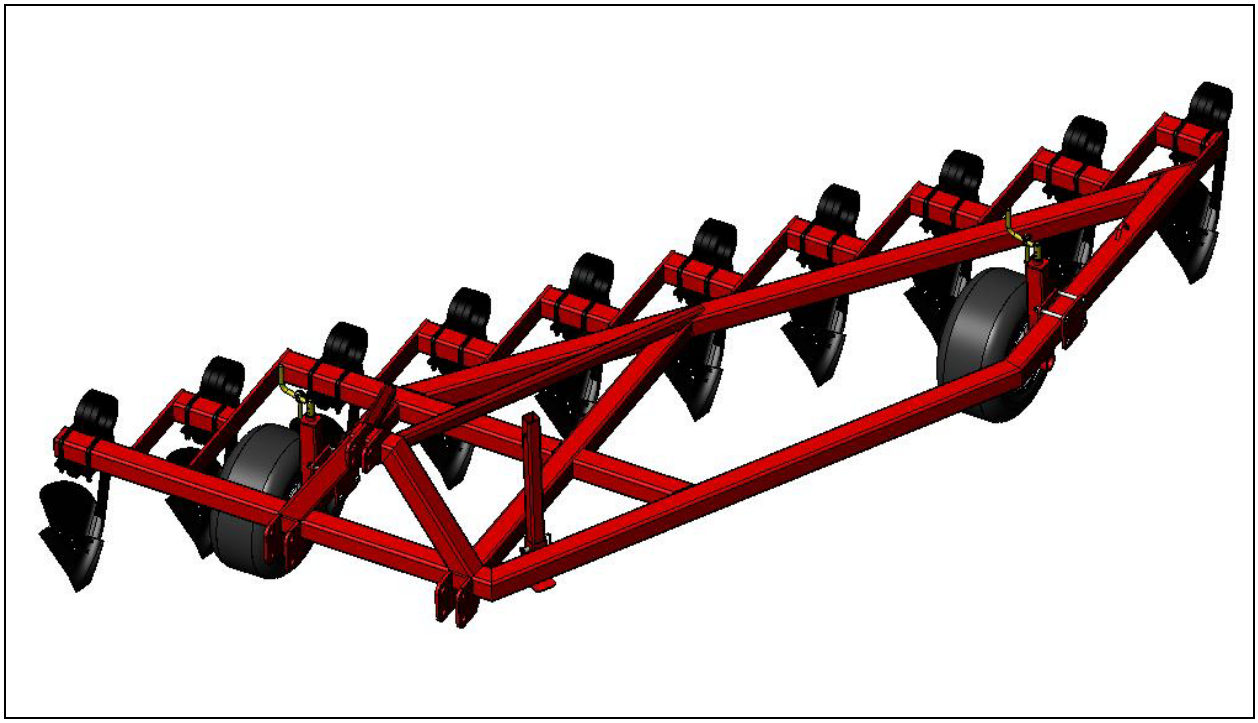
OPERATING INSTRUCTIONS

VM 350 MOULDING PLOUGH



USE

MAINTENANCE

VM 350 MOULDING PLOUGH

Contents

1. TECHNICAL DATA

The structural and operational dimensions and weights are presented in the following table of Technical Data.

Technical data:

Operating width	350 cm
Transport width	365 cm
Number of mouldboards	10
Distance between mouldboards	55 cm
Horsepower requirement	100 h.p.
Support wheels	2 pcs 26x12.00-12/8
Weight	750 kg

2. SAFETY INSTRUCTIONS

2.1 General instructions

The VM Moulding Plough is intended for normal farming use and those using it must have experience of operating agricultural machinery.

Familiarise yourself thoroughly with the plough, its operation and the Operating Instructions before starting the operation. You must not operate the plough until you have fully familiarised yourself with the operating and safety instructions, and you are sure that their contents are correctly understood.

Follow the warning and instruction signs affixed to the machine. These will help you avoid accidents during the work.

Beware of getting squeezed between moving parts of the machine while connecting the plough to the tractor or when lifting or lowering it.

It is prohibited to stay near the plough, while it is connected to the tractor.

Make sure that there are no people near the plough during operation.

Staying on top of the machine during road transportation or moulding is strictly prohibited.

Never use a damaged plough, as a sudden breakdown of its structure may cause an injury.

When driving on public roads, all the decrees and regulations of the traffic code shall be followed. Before starting out, make sure that all the required equipment, such as reflectors, triangles and lights, are properly in place and operational.

Never deliver the plough to a third person before having made sure that this person has familiarised himself with the operating instructions and fully understoands them.

Before commencing any maintenance, cleaning, lubrication, installation or adjustment work, always make sure that the power take-off and the hydraulics have been switched off and that the engine has been stopped. Remove the ignition key to prevent the tractor or the implement from setting out inadvertently.

During maintenance the machine must stand properly propped up on an even surface.

3. PUTTING THE PLOUGH INTO OPERATION

Read the Operating Instructions carefully before putting the plough into operation, and make sure that you understand their contents correctly!

3.1 Connecting the plough to the tractor

Connect the lifting arms of the tractor to the plough and put the toplink in place. Always secure the connection using cotters.

3.2 Adjusting the plough's position

To ensure that the tilled surface is smooth the frame of the moulding plough must be adjusted to a level position. The tractor must be standing on an even surface during this adjustment. The position of the frame is adjusted by means of the tractor's lifting arms and the toplink. Observe that the frame must be positioned straight also laterally.

4. USING THE PLOUGH

4.1 Intended use and operation of the plough

The WM 350 Moulding Plough is intended for moulding manure and preparing field surfaces for sowing.

4.2 Adjusting the tilling depth

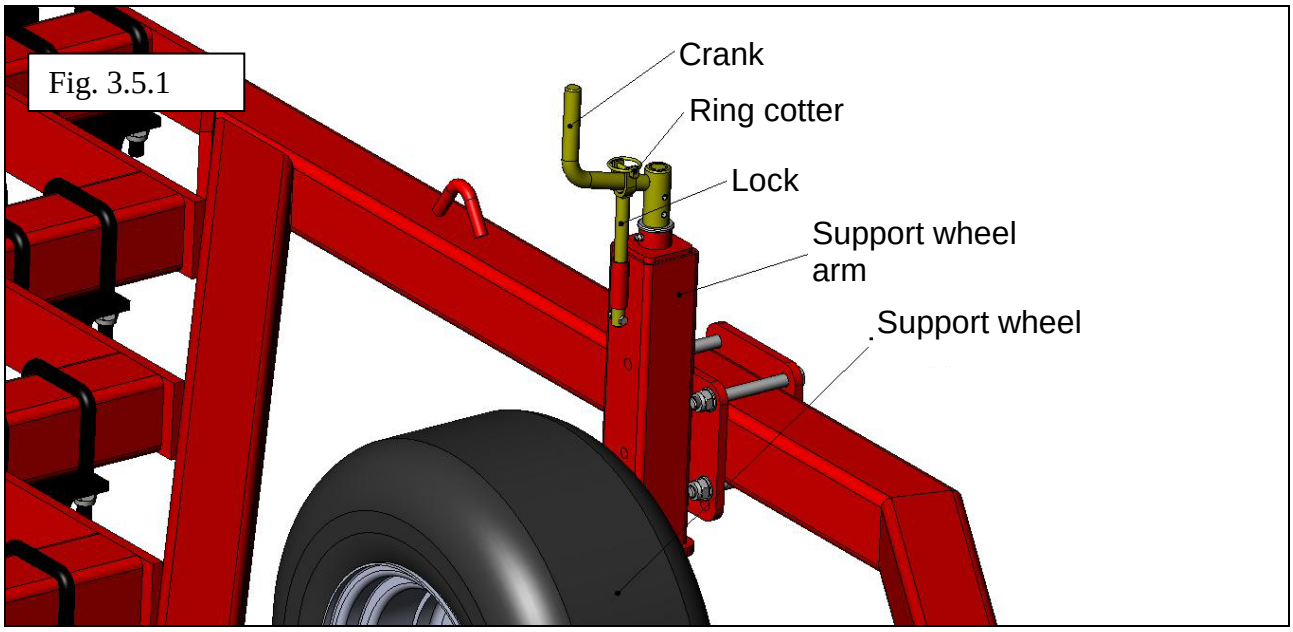
Position the plough frame correctly before adjusting the tilling depth.

Set the plough to the desired working depth and take a short test drive.

Adjust the support wheels (see Fig. 3.5.1) to the correct depth approximately. Adjust the support wheels by turning the crank at the end of the arm. Open the lock for the crank by removing the ring cotter and lowering the lock out of the crank's way. Remember to return the lock to its place after the adjustment has been completed.

Check the level position of the plough frame and, as required, adjust the position of the frame by means of the toplink on the tractor. Finally, finely adjust the depth of the support wheels.

Fig. 3.5.1



5. TRANSPORTING THE PLOUGH

5.1 Transport position

1. Make sure that the ploygh is in the upper position before moving onto the road.

1. Check the lights, the reflectors, the slow-moving-vehicle triangle and any other possible safety or protective devices.

5.2 Driving, driving speeds and passengers

1. Follow the regulations in the Road Traffic Code while driving on a road.

2. Adapt the driving speed to the situation. The max. allowed driving speed is 30 km/h

3. Take into account that the tractor reacts differently with the plough connected.

6. MAINTAINING AND STORING THE PLOUGH

6.1 Preparing the plough for maintenance

Before commencing any maintenance, cleaning, lubrication, installation or adjustment work, always make sure that the power take-off and the hydraulics of the tractor have been switched off and the engine has been stopped. Remove the ignition key to prevent the tractor or the implement from setting out inadvertently. Prop up the machine properly before starting the maintenance work.

6.2 Required maintenance operations

6.2.1 Lubricating and greasing objects

Lubricate the designated greasing points of the plough in accordance with Table 6.2.1. Lubricate the machine more frequently under wet conditions, and always, when necessary. Apply grease until a small amount of it comes out of the object being greased. Wipe off any excess grease after the lubrication.

The greasing points of the plough are presented in Table 6.2.1 and Fig. 6.2.1.

Table 6.2.1

Point	Greasing points of the plough	Pcs.	Lubrication interval (h)
1	Sleeves of the support wheel cranks	2	50
2	Wheel hubs	2	50

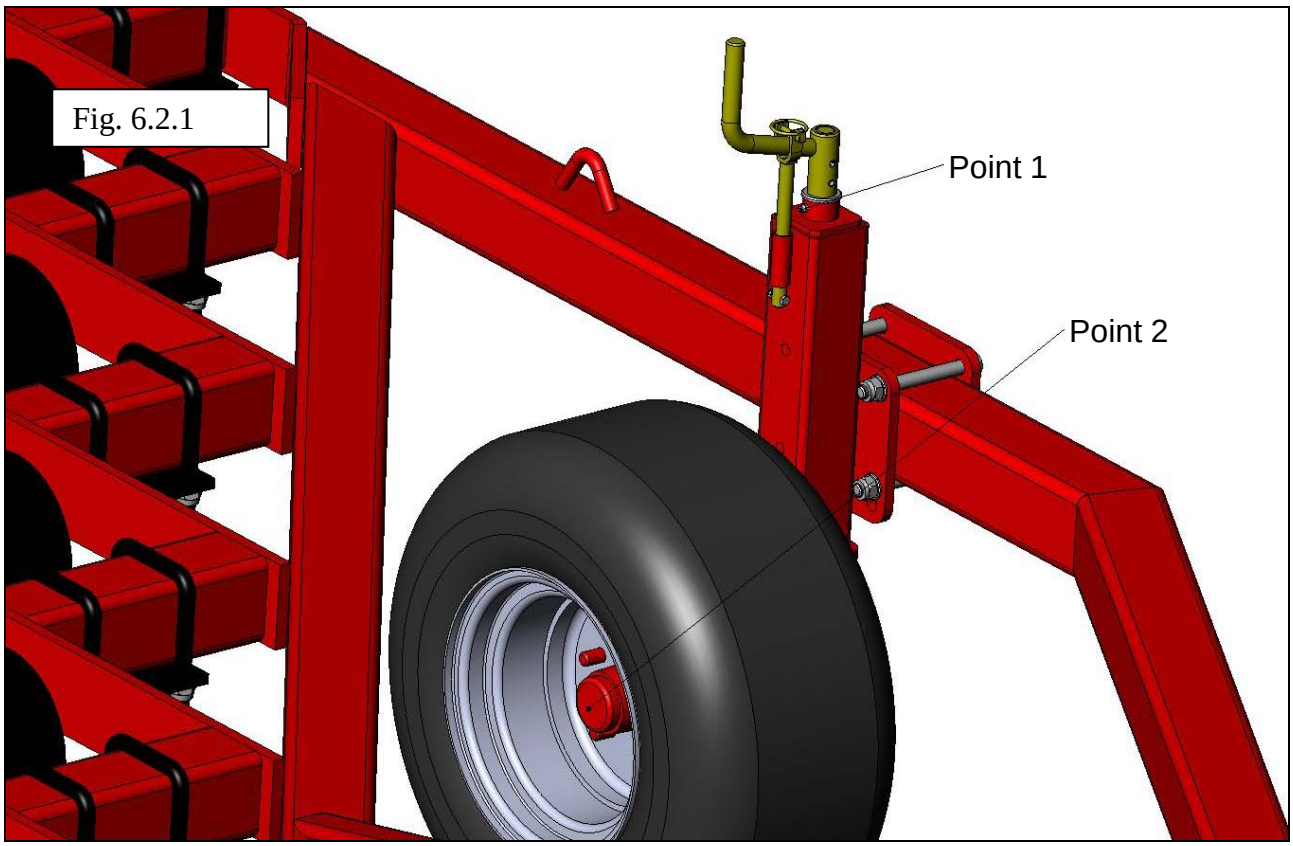


Fig. 6.2.1

6.2.2 Tyre pressure

Check the pressure in the plough's tyres. Adjust the pressure to about 3.0 bars. Check the condition of the tyres before inflating. A defective tyre may burst as the pressure is increased.

The plough's tyres must be inspected before each operating season. Any damaged tyres must be replaced.

6.2.3 Tightness of the bolts

The tightness of all nuts and bolts should be verified after the first moulding operation, because in particular the attachment bolts for the springs may loosen during processing the first hectares. After this the bolts shall be checked for tightness once a year and tightened, as necessary.

6.3 Storing the plough

- If the plough has to be stored for a longer period of time, do the following:
- Clean up the plough properly. If using a high-pressure washer, do not direct the jet onto the bearings lubricated by greasing.
- Store the machine in a sheltered and outlying space, preferably under a roof.
- If you must leave the plough out of doors, store it on a firm and even surface. Cover it with a tarpaulin.
- Never put any part of the machine onto bare ground, but use, for example, boards as underlay.
- Lubricate all the greasing points immediately after washing. Fresh grease prevents corrosion and wear by displacing water from the bearing surfaces.
- Touch-up with fresh paint any spots where the paint has faded or cracked.
- Repair any faults that you notice. Doing so ensures the trouble-free operation of the machine when the operation again resumes.
- Cover the tyres and hoses against direct sunlight.
- Deflate the tyre pressure to about 2.0 bar.

6.4 Starting up the plough after storing

- Clean up the plough properly and lubricate all the greasing points.

- Tighten all nuts and bolts.
- Inflate tyres to the correct pressure.
- Check all the adjustments.

7. RESPONSIBILITIES

These Operating Instructions are based on the manufacturer's long-term experience and feedback from the customers.

The advice and instructions given in this manual shall be considered indicative only and they by no means bind Vieskan Metalli Oy or its representatives.

Full responsibility for transporting the machine by road or operating or servicing it lies with the owner/driver of the machine.

The owner/driver of the machine is fully responsible for making sure that it is operated in the due manner.

The quality of all VM-machines has been verified and their operation has been tested before delivery. Responsibility for operation of the machine under practical conditions, however, lies with the buyer/user. Compensation claims for damage that are not related to the machine itself, will not be processed. As a consequence of this, we are not liable for any damage resulting from incorrect use of the machine or faulty adjustments.

The manufacturer will not be responsible if use of the machine breaches the law, the safety regulations or the stipulations in the manual. As situations for which there are no instructions or regulations may sometimes occur, we recommend that the general instructions on safety of the machinery and the other relevant directives be followed.

The manufacturer is not responsible for faulty tilling results. The operator must continuously monitor that the desired tilling depth is being maintained. If the empiric knowledge of the operator is not sufficient, he shall consult a specialist.

The manufacturer is not responsible for damage resulting from the use of other manufacturers' components.

The manufacturer is not responsible for any damage caused to other machinery or appliances resulting from the use of this machine.

The manufacturer reserves the right to develop or alter the construction of the machine.

The owner of the machine is responsible for making sure that anyone operating the machine has fully familiarised himself with its operating and safety instructions.

8. WARRANTY TERMS

1. The warranty of the machine runs for 12 months.

2. The warranty period starts on the date that the new unit is delivered by an authorised dealer.

3. The warranty only covers faults in the manufacturing or raw materials. Damaged parts will be repaired or replaced with operable ones at the factory or at the contract workshop.

4. Repair under the warranty does not extend the warranty period.

5. The warranty does not cover damage resulting from operation in breach of the operating or maintenance instructions, excess loading or normal wear. Furthermore, the warranty neither covers any consequential damage, standstill days, travel expenses, overtime work nor modification of the machine's original structure. In matters related to the warranty, contact the dealer who drew up the Warranty Certificate. The measures and possible costs must be agreed upon with the manufacturer before any measures are taken.

6. The warranty is only valid if the Warranty Certificate is properly filled out and returned to the manufacturer within 14 days of the delivery date.

EU DECLARATION OF CONFORMITY

In accordance with the Directive 98/37/EU

Vieskan Metalli Oy
Puurakenteentie 3
FI-85200 ALAVIESKA
Finland
Tel. +358 (0)8 430 9300
Fax +358 (0)8 430 509

declares that

VM 350 Moulding plough

complies with the provisions of the Machine Directive **98/37/EU** and its amendments. In designing the machine, the following harmonized standards have been applied:

EN ISO 12100-1
EN ISO 12100-2

Alavieska ____ / ____ 20___ Ari Koutonen
Managing director

Warranty Certificate

Product: _____ _____
type serial number

Seller: _____ _____
seller's signature

With his signature, the buyer of the machine confirms that he has received the operating instructions for the machine and familiarised with them as well as with the Responsibilities and Warranty Terms on the previous pages.

Place and date_____ ____ . ____ . 20 ____

_____ _____
buyer's signature name in block capitals