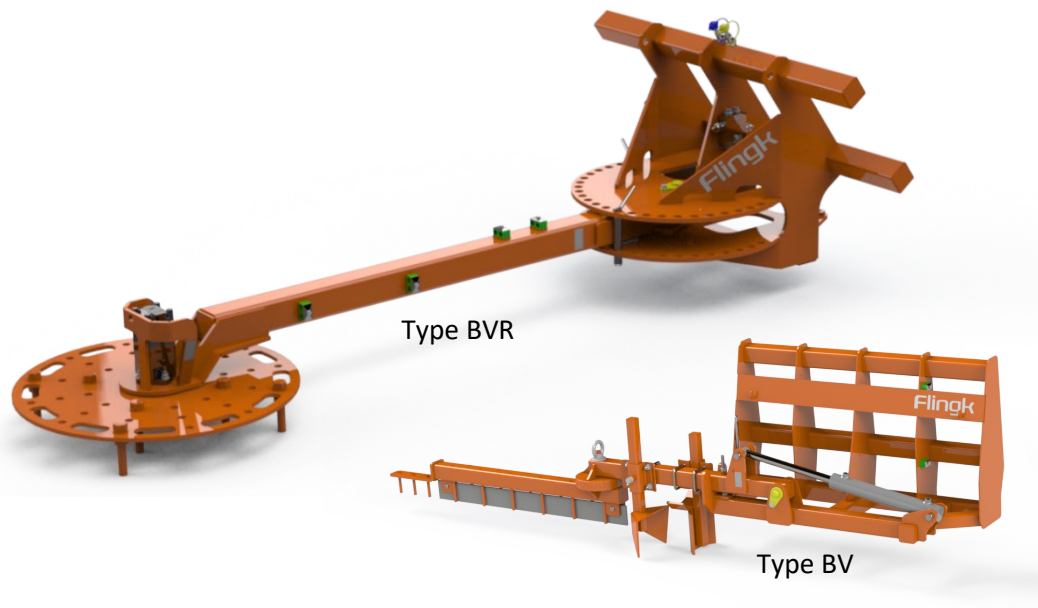


Bedding leveller

Type BV, BVS, BVR

Operator's manual ENG

Read carefully before use



Manufactured by: Flingk Machinebouw B.V.

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PREFACE

The Flingk Machinebouw bedding leveller is a high-quality machine with which you can quickly and efficiently refresh and level the bedding in the cubicle. The bedding leveller is suitable for fine litters.

This manual has been prepared to enable you to obtain the best results from the Flingk bedding leveller under safe working conditions, so please read and observe this operator's manual carefully before you start working and make sure you follow the instructions while working.

Although, the machine has been designed conform the EC certificate of conformity, always use extreme caution when operating the bedding leveller. Read all instructions which are written in this operator's manual and those within the operators manual of the connected machine carefully and make sure you take them into account.

Because Flingk Machinebouw strives towards continuous product improvement, they reserve the right to change design and/or specifications without notice. This does not include an obligation to make changes to machines previously supplied.

If anyone does not fully understand every part of this operator's manual, please obtain further assistance by contacting the dealer from which this product was purchased or by contacting Flingk Machinebouw. Keep this manual available for reference whenever this product is being handled or used. Provide this manual to any new owners and/or operators.

Flingk Machinebouw wishes you a pleasant use!

Supplier details:



GENERAL SAFETY PRECAUTIONS

Use the bedding leveller only for the purposes for which it was designed! Nobody, no persons, animals or other goods shall ride on/in the bedding leveller during transport and/or operation.

The bedding leveller is solely designed for use on private terrain, do not use or drive with it on the public road. In case you want to transport the bedding leveller always adhere to the traffic, safety and environmental regulations and transport the machine in a responsible and safe manner.

Take care that nobody will be within the dangerous zone while operating, transporting or riding with the bedding leveller. As an operator always ensure that nobody is within the reach of moving parts, within the operating area, or within close proximity of the machine while working.

Make sure that no persons are within the working area of the machine.

Make sure that with type BVS and BVR, during swinging, there is sufficient space and that no persons, animals or objects are within reach of the machine.

Maintenance and repair practices may only be performed by skilled specialists. Any work done on the hydraulic system should be done by Flingk Machinebouw or authorized dealers.

Never attempt to work on or repair the bedding leveller while it is connected to the driving machine! All power sources must be completely disengaged and the bedding leveller should be placed in the forward position on a firm, level surface that is large enough to safely accommodate the bedding leveller while repairing, cleaning or adjusting.

Always make sure that the bedding leveller is stored, folded up, on a firm and level surface after use.



EG-DECLARATION OF CONFORMITY
according to annex II A of EC Machinery Directive 2006/42/EC

Manufacturer: Flingk Machinebouw B.V.
Located: Retselseweg 11A
5473 HC Heeswijk-Dinther
The Netherlands

hereby declares that the following machinery

Flingk bedding leveller type: BV, BVS, BVR

with the serial number effective from

Serial No. 87-19-3926

fulfils all of the relevant requirements of the EC Machinery Directive 2006/42/EG.

's-Hertogenbosch, 5 February 2018

Flingk Machinebouw B.V.,

Dhr. Ing. N.C.W van den Berselaar

A handwritten signature in blue ink, appearing to be 'N.C.W. van den Berselaar', written over a faint circular stamp.

If any significant changes are made to this machine that could affect its safety or compliance with the regulations, its conformity must be reassessed and confirmed before the machine is put back into service.

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1 SAFETY PRECAUTIONS

Read all safety decals and safety statements in all manuals prior to operating or working with this equipment.



DANGER!

This symbol by itself or with a warning word throughout this manual is used to call your attention to instructions involving your personal safety or the safety of others. Failure to follow these instructions can result in injury or death.

The machine has been marked with safety decals without text. For a safe use of the bedding leveller make sure you understand and follow up the instructions on these decals. What is the danger, in which place does the danger occur and, very important, which safety instructions must be taken.

Be careful and be aware of the risks that are associated with the use of the bedding leveller! The meaning of the decals are shown below.

- Carefully read operator's manual before handling the machine. Observe instructions and safety rules when operating.



- Stop engine and ensure it cannot be re-started during performance of work on the machine.



- High pressure fluid hazard!
Hydraulic fluid under pressure can penetrate the skin and cause serious injury or death. Always work warily and make sure all hoses and pipes are depressurized during maintenance and repair.



- Danger for crushing!
When connecting the bedding leveller, make sure nobody is between the bedding leveller and the machine.



- Entrapment hazard. Beware of moving parts and stay away with limbs.



- Attention moving parts! Stay clear of rotating and moving parts. Maintain a safe distance and make sure nobody is able to come in contact with the moving parts while operating. Never attempt to work on or repair the bedding leveller while it is connected to the power source.



2 NAMEPLATE DETAILS

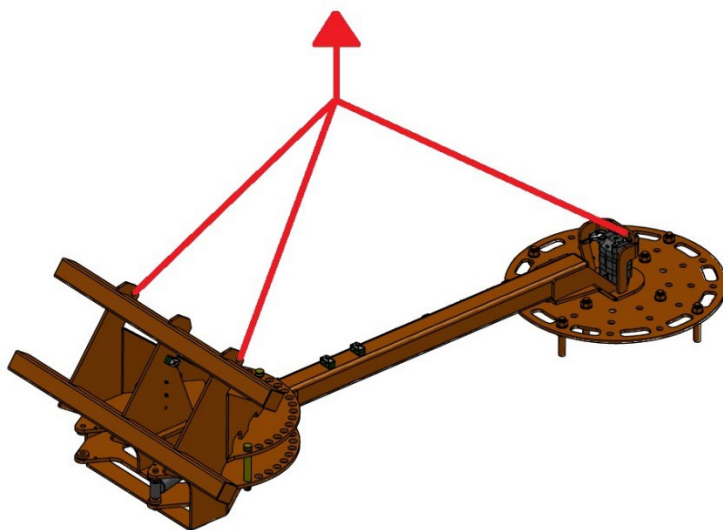
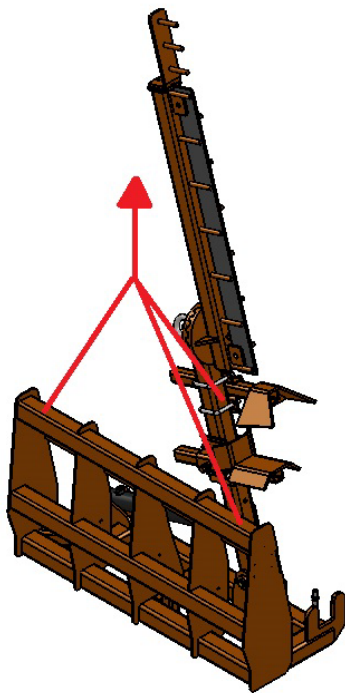
The nameplate of the bedding leveller is placed at the right side of the attachment at the outside of the machine.



- A. Machine :
- B. Type :
- C. Serial number :
- D. Year of build :
- E. Weight [kg] :
- F. F1 Max. flow (Q_{max}) [l/min] :
- G. F1 Max. pressure (P_{max}) [bar] :
- H. F2 Max. flow (Q_{max}) [l/min] :
- I. F2 Max. pressure (P_{max}) [bar] :
- J. Voltage [V] :
- K. Current [I] :

3 LIFTING INSTRUCTIONS

For the movement of the Flingk bedding leveller without a suitable machine make sure you use the lifting points as indicated within the picture below (the bedding leveller in the picture may differ from the machine you use). Always check the lifting capacity of the lifting equipment. Check before lifting whether the lifting capacity of the equipment used is able to hold the total weight of the bedding leveller. The total weight of the bedding leveller is indicated on the nameplate as well as in chapter 5 of this operator's manual.



4 PRODUCT DESCRIPTION

De Flingk bedding leveller is a robust and solid machine that can level and refresh the litter in the deep litter cubicle. With the rake, the litter can be refreshed and laid down lightly. Placing the strip between the teeth creates a sliding effect with which litter can be moved. By adjusting the angle of the slider, litter can be pushed into the cubicle from the front to the back or reversed.

The bedding leveller is suitable for fine bedding materials such as sawdust, green bedding, compost and sand, in combination with floating cubicle.

5 TECHNICAL SPECIFICATIONS

The Flingk bedding levellers are suitable for various bedding materials. The table below gives an overview of different bedding materials. The bedding materials are abbreviated as follows:

Z	Sawdust
GS	Crushed straw
HS	Chopped straw
C	Compost
M	Green bedding
MI	Green bedding ensiled
K	Lime
S	Sand
PM	Horse manure with wood shavings
PMS	Horse manure with straw
KS	Mixture of straw, lime and water (ratio 1:5:2)
TP	Tomato plant residues
PS	Paper shreds
SP	Straw pellets

*Technical specifications Flingk bedding leveller **Type BV***

Type	BV 2400
Suitable for ¹	Z,M,MI,C,S
Width folded (mm)	1265
Width unfolded (mm)	3170
Weight ² (kg)	295
Max. system pressure (bar)	175
Max. peak pressure (bar)	225

¹ The meaning of the abbreviations are described in the beginning of chapter 5 of this manual.

² Weight exclusive linkage, weight may vary depending on the version of the machine and linkage.

Shovel-linkage +30-100 kg

Three-point linkage +40 kg

*Technical specifications Flingk bedding leveller **Type BVS***

Type	BVS 2400
Suitable for ³	Z,M,MI,C,S
Width folded (mm)	1405
Width unfolded (mm)	3350
Weight ⁴ (kg)	255
Max. system pressure (bar)	175
Max. peak pressure (bar)	225

*Technical specifications Flingk bedding leveller **Type BVR***

Type	BVR 2400
Suitable for ³	Z,C,GS,M,MI ,S,PM,PMS,KS,TP,PS,SP
Width folded (mm)	1260
Width unfolded (mm)	3085
Weight ⁴ (kg)	295
Max. system pressure (bar)	175
Max. peak pressure (bar)	225

³ The meaning of the abbreviations are described in the beginning of chapter 5 of this manual.

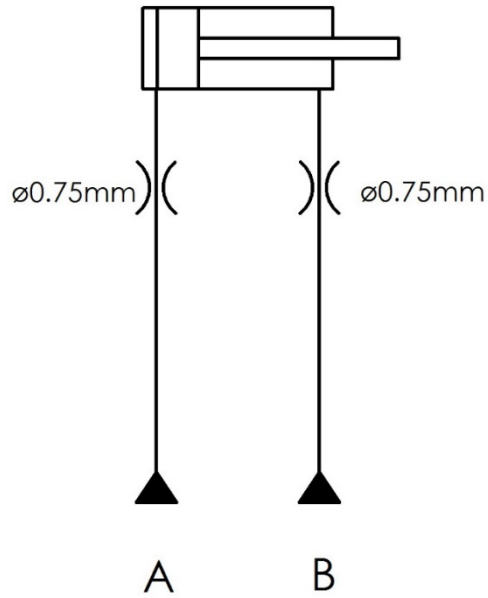
⁴ Weight exclusive linkage, weight may vary depending on the version of the machine and linkage.

Shovel-linkage +30-100 kg

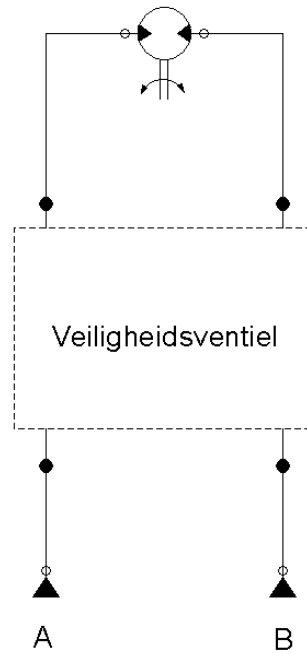
Three-point linkage +40 kg

6 HYDRAULIC FLOW CHART

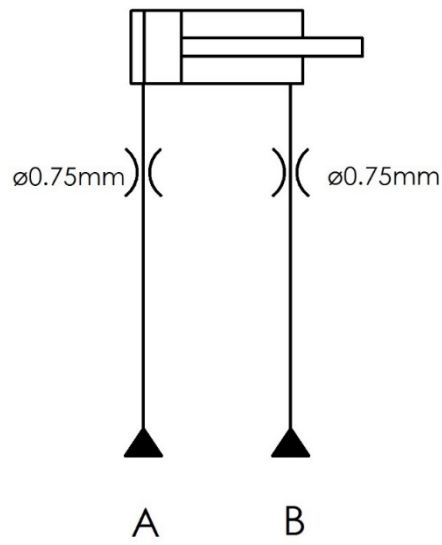
De bedding leveller is equipped with a hydraulic system. The different hydraulic flow charts are shown below.



Hydraulic flow chart BV, BVS



Hydraulic flow chart BVR



Hydraulic flow chart BVR swinging arm



Before maintenance of the hydraulic system disconnect the hoses of the connected machine and make sure that the hoses are depressurized!

7 COMMISSIONING



The bedding leveller may only be used by those which have read and understand the within this operator's manual specified and operating instructions. Only completely competent operators which know how to use the controls, the bedding leveller's capabilities, dimensions and all safety requirements may operate the bedding leveller.

Before using the bedding leveller, check whether the combination of the bedding leveller and connected machine is safe. Pay special attention towards the maximum lifting capacity and hydraulic power of the connected machine. The technical details of the bedding leveller are indicated on the type/serial number plate or in the technical specifications (chapter 5) within this operators manual.

For more information whether the combination of bedding leveller and connected machine is safe check also the operator's manual of the connected machine.

7.1 MOUNTING THE LINKAGE



Use only the linkage made and delivered by Flingk Machinebouw to connect the bedding leveller and the machine.



Mount the linkage with the original fasteners delivered by Flingk Machinebouw.

The linkage should be mounted on the two square tubes that are welded on the bedding leveller. The fixing materials are delivered with the linkage.

1. Turn the fasteners hand-tight, with the linkage at about the right place.
2. Measure, when needed, the size of the linkage.
3. Also measure the width to the outside of the mounting sleeves and make sure the size is the same on both sides so that the coupling is centered.
4. Tighten all fasteners, ensure that locknuts are used.
5. Eventual adjust the stop to the driving machine.
6. Before taking the machine in use, try to fit the linkage to the driving machine to ensure the connection fits properly.

7.2 COUPLE THE MACHINE

The Flingk bedding leveller can be connected by means of the three-point linkage of a tractor or the quick coupler system. Follow depending on the type of connection the following instructions:

1. connection by means of a quick coupler system
2. connection by means of a three-point linkage

7.2.1 Connection by means of a quick coupler system



Before using the bedding leveller, check whether the combination of the bedding leveller and the connected machine is safe. Pay special attention towards the maximum lifting capacity and hydraulic power of the connected machine.

Always check before connecting the bedding leveller whether the connection on the bedding leveller is appropriate for the connection on the machine.

Pay special attention towards the distance between the holes and pins both, horizontally and vertically as well as the diameters of the different holes and pins. Before connecting the bedding leveller always check the operator's manual of the machine and/or of the quick coupler system.

1. The bedding leveller should be placed in the forward position, with the mounting points facing upwards, on a firm and level surface.
2. Follow strictly the instructions as described within the operators manual of the quick coupler system to attach the bedding leveller towards the machine.
3. Check whether all connections are connected and secured properly.
4. Connect the hydraulic hoses. Connectors A and B (yellow/blue) should be coupled to the pressure ports on the connected machine (see hydraulic flow chart). Make sure the drain line is also connected well, it must not be pressurized during operation. Be aware and prevent unforeseen oil spills, think about the natural environment.
5. Check the movement and clearance of all hydraulic hoses, make sure they are of sufficient length and will not be wedged during operation.

7.2.2 Connection by means of a three-point linkage



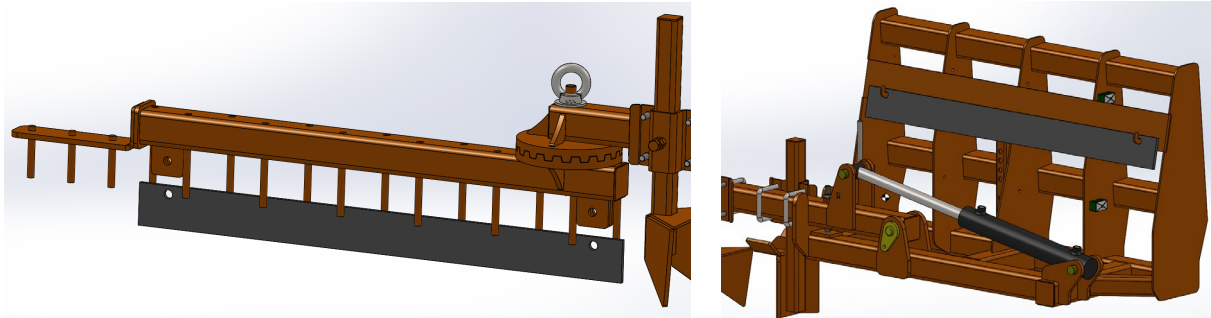
Before using the bedding leveller, check whether the combination of the bedding leveller and the connected machine is safe. Pay special attention towards the maximum lifting capacity and hydraulic power of the connected machine.

For connecting the Flingk bedding leveller by means of a three-point linkage follow the next instructions:

1. The bedding leveller should be placed in the upright position, with the mounting points facing forward, on a firm and level surface.
2. Make sure all connections are greased sufficiently before connecting the bedding leveller.
3. To connect the bedding leveller follow all instructions as provided within the operator's manual of the three-point linkage and/or the connected machine. Make sure you use the proper implements, these should fit accurately on the bedding leveller.
4. Make sure all connections are secured properly.
5. Connect the hydraulic hoses. Connectors A and B (yellow/blue) should be coupled to the pressure ports on the connected machine (see hydraulic flow chart). Make sure the drain line is also connected well, it must not be pressurized during operation. Be aware and prevent unforeseen oil spills, think about the natural environment.
6. Check the movement and clearance of all hydraulic hoses, make sure they are of sufficient length and will not be wedged during operation.

7.3 INSERT PLATE

The arm of the BV and BVS are standard equipped with a raking effect. When the bedding materials has to be moved, an insert plate can be placed. When the insert plate is not used, it can be stored at the head frame of the bedding leveller.



Insert plate placed in the rake

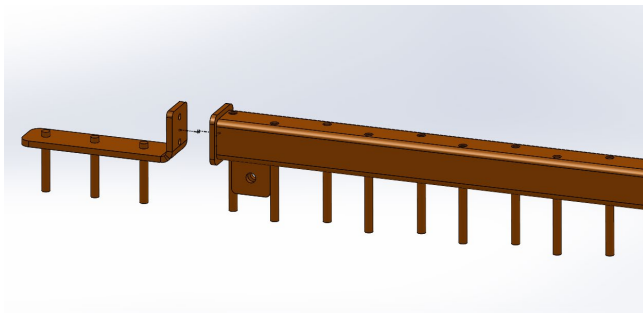
Insert plate stored



Remove or place the insert plate solely when the bedding leveller is disconnected from the driving machine and is on a level and firm surface.

7.4 EXTRA RAKE

When the cubicle is short or the extra rake is not desired, the extra rake can be disassembled.



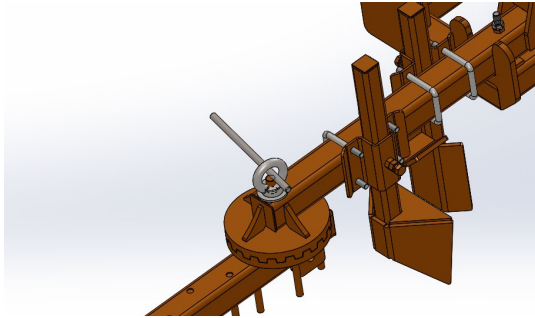
Disassemble extra rake



Remove or place the extra rake solely when the bedding leveller is disconnected from the driving machine and is on a level and firm surface.

7.5 ADJUST RAKE ANGLE TYPE BV

By changing the angle of the rake arm, the bedding material can be moved from the front to the back of the cubicle, or from the back to the front. You can adjust the angle by loosening the eye nut with the supplied pin. This causes the two toothed disks to separate and the arm to be adjusted in angle. When the rake arm is at the correct angle, tighten the eye nut again. Ensure that the eye nut is properly tightened so that the toothed discs are snug against each other.



Loosening/fastening the eye nut



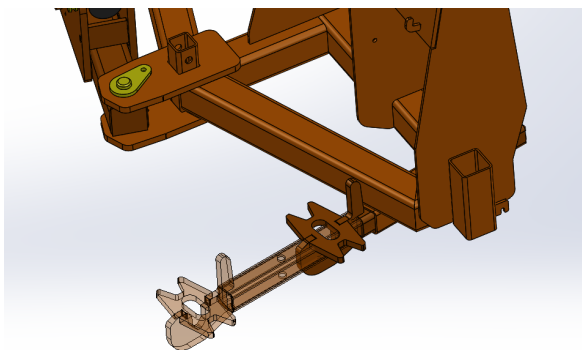
Adjust the angle of the rake arm when the bedding leveller is folded out. Make sure it is properly secured to the driving machine.



After adjustment, make sure that the eye nut is properly tightened so that the toothed discs are snug against each other.

7.6 ADJUST RAKE ANGLE TYPE BVS

By changing the angle of the rake arm, the bedding material can be moved from the front to the back of the cubicle, or from the back to the front. The rake angle can be adjusted by sliding the support arm in or out. Remove the pin from the bracket and slide it to the correct position, then secure the bracket again with the pin. Make sure that the pin is properly secured so that the support arm cannot come loose.



Sliding in the support arm



Adjust the angle of the rake arm when the bedding leveller is folded out. Make sure it is properly secured to the driving machine.

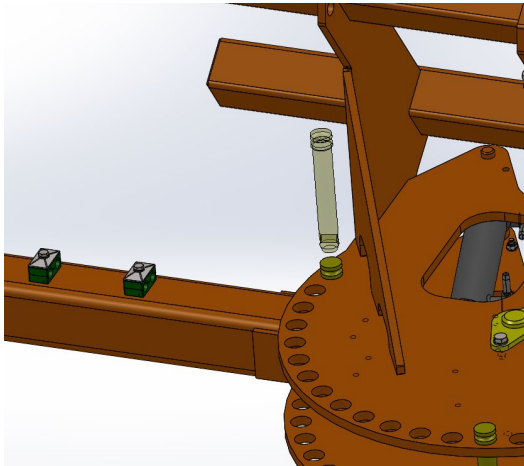


Make sure that the support arm is properly secured so it cannot come loose.

7.7 ADJUST RAKE ANGLE TYPE BVR

Changing the angle of the rake arm, makes it possible to level more in the front or back of the cubicle. The rake angle can be adjusted by replacing the pin. Remove the secure from the pin and place the pin on the right place. Make sure that the pin is properly secured so that he cannot come loose.

When the option hydraulic swinging arm is on the machine the angle can be changed hydraulically.



Adjust rake angle.



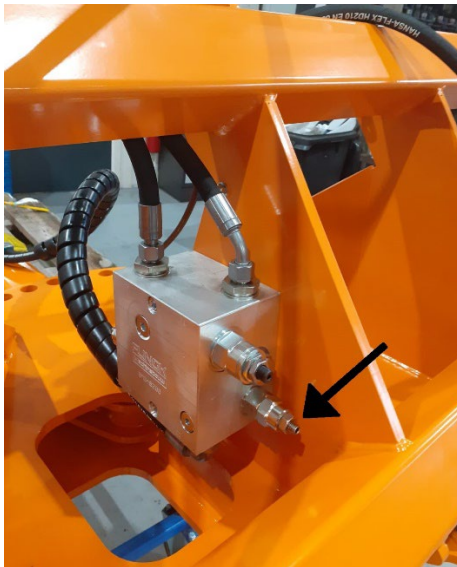
Adjust the angle of the rake arm when the bedding leveller is placed horizontally so it can not turn by it's own after removing the pin. Make sure it is properly secured to the driving machine.

Make sure that the support arm is properly secured so it cannot come loose.

7.8 OPTION TO ADJUST ROTATIONAL SPEED BVR

Always make sure that the motor of the driving machine is switched off and the BVR is placed stable on a solid surface before adjusting the speed.

By turning in or out the two bolts on the flow-/pressure valve which are marked with the black arrows in the figure below, you can adjust the rotational speed of the disc clockwise and counterclockwise. Be aware not to adjust the other two bolts. First loosen the locknut, then turn the Allen screw in to slow down the disc or out to accelerate the disc until the disc has the correct rotational speed. Then tighten the locknut again on the Allen screw, make sure that the Allen screw is properly secured so that it cannot come off.



Adjust rotation speed.



Adjust the rotation speed of the rake arm when the bedding leveller is placed on a firm surface and the engine of the driving machine is turned off. Make sure it is properly secured to the driving machine.



Make sure that the locknut is properly tightened so it cannot come loose.

8 OPERATING INSTRUCTIONS



The Flingk bedding leveller is designed for usage in cubicles. Only use the machine for the purpose for which it is designed.

Before and while operating take the following instructions into account:

- Check prior to commencing work whether the safety decals are clean and can be read at all times, possible wear and tear of the entire bedding leveller as well as the hydraulic hoses and presence of the yellow and blue dust caps on the connectors.
- The bedding leveller may solely be operated from the correct operators position within the cabin of the attached machine.
- When the rake arm cannot move freely anymore, consult the dealer or Flingk Machinebouw to check the bedding leveller before starting operation again.
- Wear and use protective clothing and/or equipment while cleaning the bedding leveller.

8.1 RIDING WITH THE BEDDING LEVELLER

Ensure that while driving the bedding leveller is folded in, in an upright position and close to the ground. This prevents possible imbalance and increases the sight depending on the type of connection; in front or behind the bedding leveller.



The bedding leveller is solely designed for use on private terrain, do not use or drive with it on the public road. In case you want to transport the bedding leveller always adhere to the traffic, safety and environmental regulations and transport the machine in a responsible and safe manner.



Make sure that with type BVS the rake arm collides the stop when folding in. Fold in the rake arm entirely, this makes sure the arm is locked.

8.2 LEVELLING WITH THE BEDDING LEVELLER

When levelling or sliding, proceed as follows:

- While levelling/sliding, make sure the bedding leveller is placed in a vertical position.
- Ensure that no human being, animals or other materials are within the operating zone before starting to level/slide.
- Make sure during levelling the arm is against the stop.
- Start levelling or sliding by lowering the bedding leveller into the cubicle. Place the bedding leveller at the right height for the desired result. Drive slowly and carefully past the cubicles and ensure there is no heap of bedding material in front of the rake.



Take care that nobody will be within the dangerous zone while operating, transporting or riding with the bedding leveller. As an operator always ensure that nobody is within the reach of moving parts, within the operating area, or within close proximity of the machine while working!

9 MAINTENANCE



Maintenance and repair practices may only be performed by skilled specialists and by using proper tooling.



Never attempt to work on or repair the bedding leveller while it is running! All power sources must be completely disengaged and the bedding leveller should be placed in the forward position on a firm, level surface that is large enough to safely accommodate the bedding leveller while repairing, cleaning or maintenance.



Any work done on the hydraulic system should be done by Flingk Machinebouw or authorized dealers.



Make sure the Flingk bedding leveller is not subjected to extreme weather conditions and always store the bedding leveller in a sheltered area which prevents exposure to persistent rain, snow and ice.

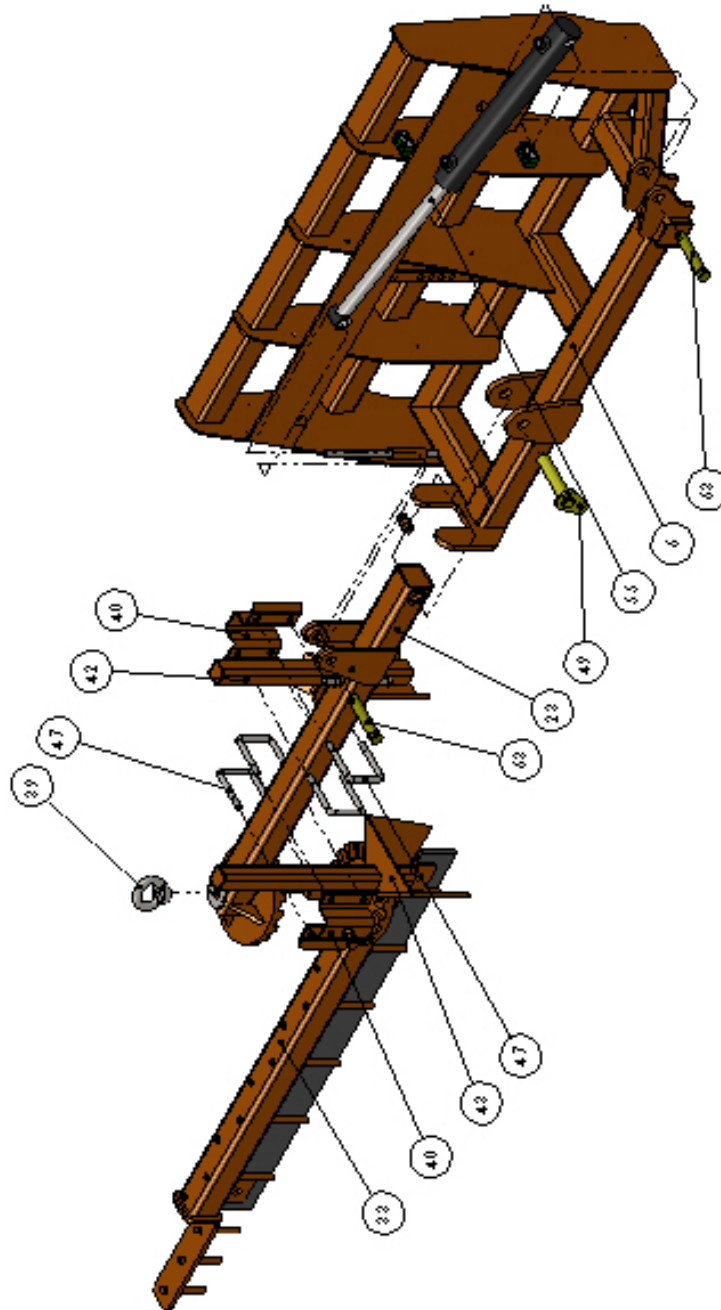
General maintenance instructions:

- Regularly check the arm and the rake(s) for damage and wear.
- Grease all pivot points every 6 months or 30 operating hours.

10 PARTS LIST

10.1 TYPE BV

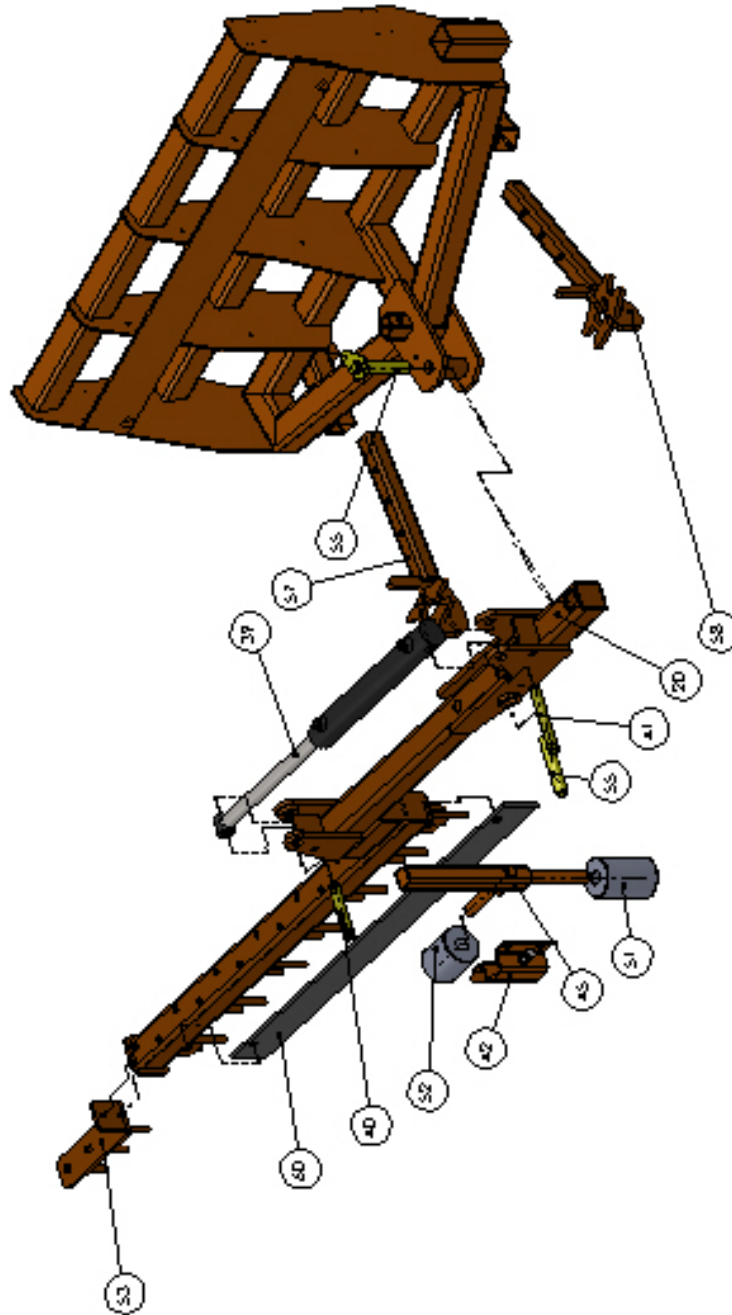
- Bij het bestellen van onderdelen graag de volgende dingen doorgeven:
Het serienummer van de machine,
De naam van de tekening,
Het positienummer in de tekening.
- When ordering parts, please give the following items:
The serial number of the machine,
The name of the drawing,
The item number in the drawing.
- Bei der Bestellung von Ersatzteile, bitte geben Sie die folgenden Punkte:
Seriennummer der Maschine,
Der Name der Zeichnung,
Die Positionnummer in der Zeichnung.



Drawing: BV01

10.2 TYPE BVS

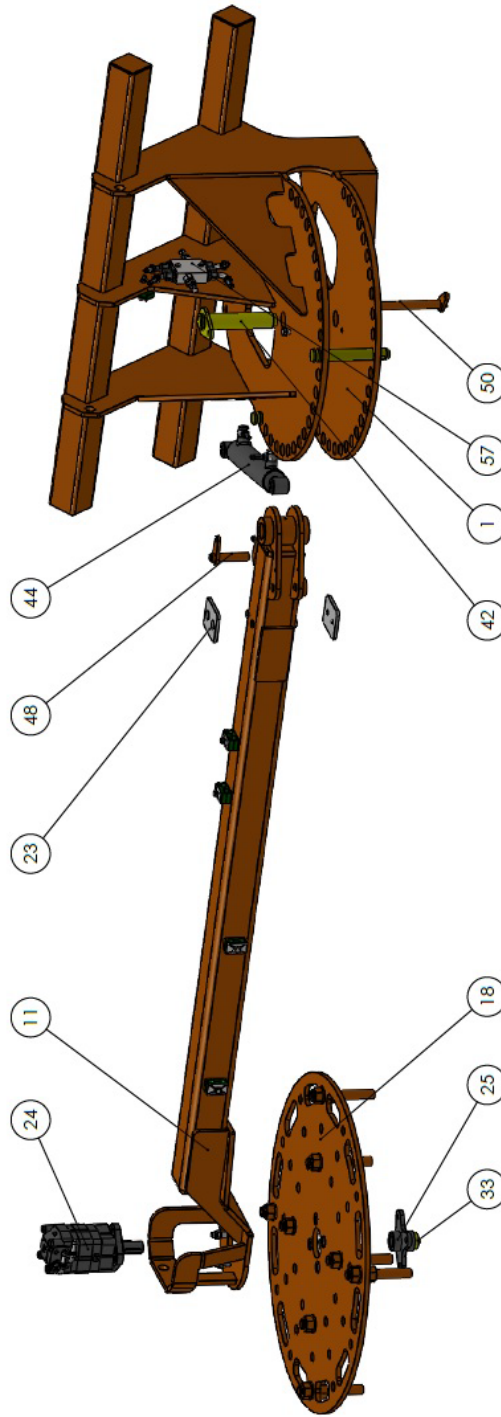
- Bij het bestellen van onderdelen graag de volgende dingen doorgeven:
 De serienummer van de machine
 De naam van de tekening
- Wanneer u bestelt, geef de volgende informatie:
 De serienummer van de tekening
 De naam van de machine
 De naam van de tekening
- Bij de bestelling van onderdelen, geef de volgende informatie:
 De serienummer van de tekening
 De naam van de tekening
 De positienummer in de tekening.



Drawing: BVS01

10.3 TYPE BVR

- Bij het bestellen van onderdelen graag de volgende dingen doorgeven:
 Het serienummer van de machine,
 De naam van de tekening,
 Het positienummer in de tekening.
- When ordering parts, please give the following items:
 The serial number of the machine,
 The name of the drawing,
 The item number in the drawing.
- Bei der Bestellung von Ersatzteile, bitte geben Sie die folgenden Punkte:
 Seriennummer der Maschine,
 Der Name der Zeichnung,
 Die Positionsnummer in der Zeichnung.



Drawing: BVR01

11 WARRANTY CONDITIONS

Unless mentioned otherwise, the guarantee conditions as indicated within the METAALUNIE CONDITIONS, formerly referred to as the SMECOMA CONDITIONS, as published by the Koninklijke Metaalunie will be applied.

The clauses below are taken from this METAALUNIE CONDITION as issued by the Koninklijke Metaalunie in 2019.

Article 14: Warranty and other claims

- 14.1 Unless otherwise agreed in writing, the Contractor guarantees the proper execution of the agreed performance for a period of six months after delivery or completion, as detailed in the following paragraphs.
- 14.2 If the parties have agreed to deviating guarantee conditions, the provisions of this article will remain in full force, unless this is in conflict with those deviating guarantee conditions.
- 14.3 If the agreed performance has not been executed properly, the Contractor will decide within a reasonable period of time whether it will still perform the work properly or credit the Client for a proportionate part of the contract amount.
- 14.4 If the Contractor opts to still execute the performance properly, it will determine the manner and time of execution. The Client must in all cases offer the Contractor the opportunity to do so. If the agreed performance (also) included the processing of material provided by the Client, the Client must supply new material at its own expense and risk.
- 14.5 The Client is responsible for sending parts or materials that are to be repaired or replaced by the Contractor to the Contractor's business location.
- 14.6 The following are for the Client's account:
- a. all transport or shipping costs;
 - b. costs for dismantling and assembly;
 - c. and subsistence expenses and travel time.
- 14.7 The Contractor is only obliged to implement the guarantee if the Client has fulfilled all its obligations.
- 14.7 a. The guarantee does not cover defects that are the result of:
- normal wear and tear;
 - improper use;
 - lack of maintenance or maintenance carried out incorrectly;
 - installation, assembly, modification or repairs carried out by the Client or third parties;
 - faulty or unsuitable goods originating from or prescribed by the Client;
 - faulty or unsuitable materials or tools used by the Client.
- b. No guarantee is given for:
- goods delivered that were not new at the time of delivery;

- inspections and repairs carried out on goods owned by the Client;
- parts that are subject to a manufacturer's guarantee.

14.8 The provisions of paragraphs 3 to 8 of this article apply by analogy to any of the Client's claims based on breach of contract, non-conformity or any other basis whatsoever.

FLINGK

Machinebouw

