Bedder

Type Z, S, ZX, ZXS, SX, KSS

Operator's manual ENG

Read carefully before use

Manufactured by: Flingk Machinebouw B.V.

Flingk Machinebouw
Retselseweg 11A
5473 HC Heeswijk-Dinther
The Netherlands

Tel: +31(0)85-0685613
info@flingk.com
www.flingk.com

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PREFACE

The Flingk bedder is a high quality and durable machine, designed and built to collect and discharge various bedding materials for dairy cow stalls with ease. Take a careful look in the technical specifications for which bedding material your type of bedder is designed!

This manual has been prepared to enable you to obtain the best results from the Flingk bedder 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 bedder. 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

Every type of Flingk bedder is designed for different bedding materials. Check within the technical specifications, before using the bedder, for which bedding material your type of bedder is build. Do not use the bedder for materials it was not designed for!

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

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

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

The bedder 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 bedder 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 bedder. 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 nobody stays between the bedder and the bedding material while filling the bedder.

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 bedder while it is running! All power sources must be completely disengaged and the bedder should be placed in the forward position on a firm, level surface that is large enough to safely accommodate the bedder while repairing, cleaning or adjusting.

Never leave the connected machine unattended while the engine is running or with the bedder in an upright position. Always place the bedder in the forward position on a firm, level surface which is large enough to safely accommodate the bedder after use.

Do not tighten the conveyor belt on the hydraulically power-driven roller!

CE

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 bedder type: Z, S, ZX, ZXS, SX and KSS

with the serial number effective from

Serial No. 87-19-3320

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

's-Hertogenbosch, 12 May 2015

Flingk Machinebouw B.V.,

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

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.

TABLE OF CONTENT

1 SAFETY INSTRUCTIONS

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

DANGER!

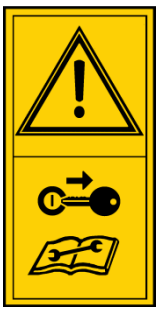
This symbol by itself or with a warning word throughout this manual is used to call your attention to instructions involving your personal safety or the safety of others. Failure to follow these instructions can result in injury or death.

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

Be careful and be aware of the risks that are associated with the use of the bedder! 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.

- Use the bedder only for the purposes for which it was designed! Nobody, no persons, animals or other goods shall ride on/in the bedder or be transported by the bedder in any case.

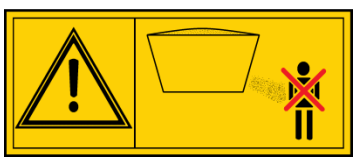
- Attention moving parts! Stay clear of rotating and moving parts. Maintain a safe distance and make sure nobody is able to come in contact with the moving parts while operating. Never attempt to work on or repair the bedder while it is connected to the power source.

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

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

- Attention flying objects!
  Stay clear of the machine and keep out the spreading range of the machine.

- Keep a safe distance! Make sure that nobody is within the dangerous zone while operating. 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.



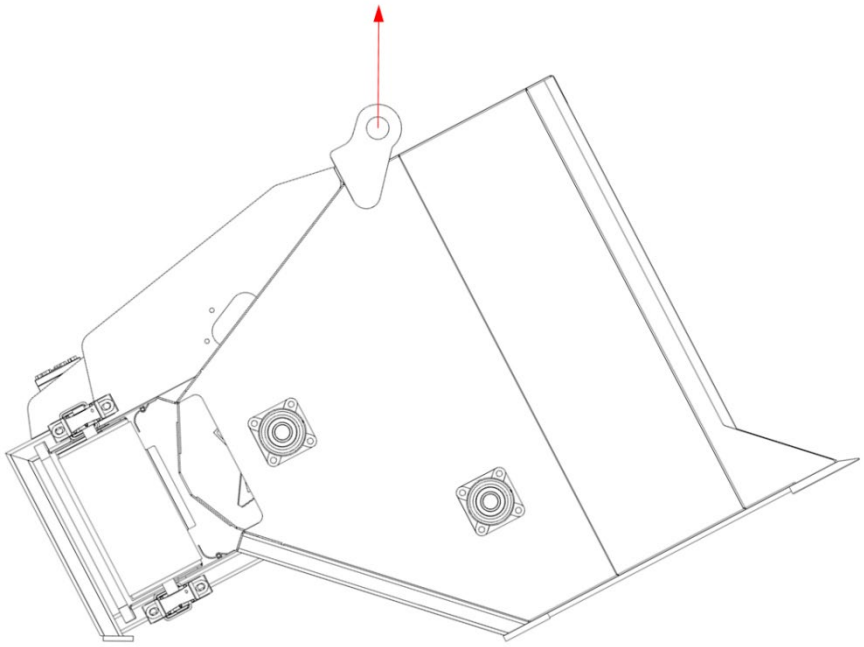
2 NAMEPLATE DETAILS

The nameplate of the Flingk bedder is located in the front of the machine, in the upper right. In case of correspondence, kindly state the type- and serial number of your machine. Complete the text below with the corresponding numbers on the nameplate.

A.	Machine		:.....
B.	Type		:.....
C.	Serial number		:.....
D.	Year of build		:.....
E.	Weight		:.....
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	[A]	:.....

3 LIFTING INSTRUCTIONS

For the movement and transport of the Flingk bedder without a suitable machine make sure you use the mounting points as indicated within the picture below. Check before lifting whether the lifting capacity of the equipment used is able to hold the total weight of the bedder. The total weight of the bedder is indicated on the type/serial plate as well as under the technical specifications within chapter 5 of this operator's manual.



4 PRODUCT DESCRIPTION

The Flingk bedder is a high quality and durable machine, designed and built to collect and discharge various bedding materials for dairy cow stalls with ease. The bedder is carried out in six different types (Z, S, ZX, ZXS, SX, en KSS) and different volumes. By type of bedder there are different designs, these designs are described in chapter 5 of this manual. Depending on the type of bedder the dairy cow stalls can be bedded with different beddings. By using the transport belt, the Flingk bedder assures an easy and constant discharge on both sides. An additional rotating wheel prevents bridge formation during operation. Please read the technical specifications carefully to learn for which type of bedding material your type of bedder is designed.

5 TECHNICAL SPECIFICATIONS

Each type of Flingk bedder is designed for different bedding materials. The table below provides an overview of the different types with their according technical specifications as well as the types of bedding materials. The bedding materials are abbreviated as follows:

Z	Sawdust
GS	Crushed straw
HS	Chopped straw
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 bedder **Type Z***

Volume	Z 600	Z 750	Z 1000	Z 1500
Bedding material [1]	Z,GS,SP	Z,GS,SP	Z,GS,SP	Z,GS,SP
Breedte (mm)	1400	1400	1400	1500
Volume (l)	600	750	1000	1500
Weight[2] (kg)	310	320	340	430
Max. loading cap. (kg)	500	625	775	975
Max. system press. (bar)	175	175	175	175
Max. peak pressure (bar)	225	225	225	225
Min. required oil flow	25 L/min	30 L/min	30 L/min	35 L/min

[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 single cylinder +30-100 kg
Three-point linkage double cylinder +150 kg

*Technical specifications Flingk bedder **Type S***

Volume	S 750	S 1000	S 1300
Bedding material [4]	Z,GS,K,S,SP	Z,GS,K,S,SP	Z,GS,K,S,SP
Width (mm)	1500	1700	2100
Volume (l)	750	1000	1300
Weight[3] (kg)	400	445	565
Max. loading cap. (kg)	1200	1600	2150
Max. system press. (bar)	175	175	175
Max. peak pressure (bar)	225	225	225
Min. required oil flow	30 L/min	35 L/min	50 L/min

*Technical specifications Flingk bedder **Type ZX***

Volume	ZX 750	ZX 1000	ZX 1200	ZX 1500	ZX 2000	ZX 2500	ZX 3000
Bedding material [4]	Z,GS,HS,M, TP	Z,GS,HS,M, TP	Z,GS,HS,M, TP	Z,GS,HS,M, TP	Z,GS,HS,TP	Z,GS,HS,TP	Z,GS,HS,TP
Width (mm)	1400	1400	1600	1800	2300	2500	2500
Volume (l)	750	1000	1200	1500	2000	2500	3000
Weight[3] (kg)	330	350	390	450	635	770	900
Max. loading cap. (kg)	500	775	775	975	1175	1300	1450
Max. system press. (bar)	175	175	142	175	175	175	175
Max. peak pressure (bar)	225	225	225	225	225	225	225
Min. required oil flow	25 L/min	30 L/min	30 L/min	35 L/min	50 L/min	50 L/min	50 L/min

*Technical specifications Flingk bedder **Type ZXS***

Volume	ZXS 750	ZXS 1000	ZXS 1500	ZXS 2000
Bedding material [4]	Z,GS,HS,M,MI,PM,TP, PS,SP	Z,GS,HS,M,MI,PM,TP, PS,SP	Z,GS,HS,M,MI,PM,TP, PS,SP	Z,GS,HS,M,MI,PM,TP, PS,SP
Width (mm)	1400	1600	1800	2300
Volume (l)	750	1000	1500	2000
Weight[3] (kg)	440	480	550	650
Max. loading cap. (kg)	500	775	975	1175
Max. system press. (bar)	175	175	175	175
Max. peak pressure (bar)	225	225	225	225
Min. required oil flow	20 L/min	20 L/min	25 L/min	30 L/min

[3] Weight exclusive linkage, weight may vary depending on the version of the machine and linkage.
Shovel-linkage +30-100 kg
Three-point linkage single cylinder +30-100 kg
Three-point linkage double cylinder +150 kg

[4] The meaning of the abbreviations are described in the beginning of chapter 5 of this manual.

*Technical specifications Flingk bedder **Type SX***

Volume	SX 750	SX 1000	SX 1300
Bedding material[5]	Z,GS,C,PS,S	Z,GS,C,PS,S	Z,GS,C,PS,S
Width (mm)	1500	1700	2100
Volume (l)	750	1000	1300
Weight[7] (kg)	420	475	585
Max. loading cap. (kg)	1200	1600	2150
Max. system press. (bar)	175	175	175
Max. peak pressure (bar)	225	225	225
Min. required oil flow	30 L/min	35 L/min	50 L/min

*Technical specifications Flingk bedder **Type KSS***

Volume	KSS 750	KSS 1015	KSS 1500	KSS 1800	KSS 2000	KSS 2500
Bedding material [5]	Z,GS,HS,M,MI, K,PM,PMS,KS, TP,PS,SP [6]	Z,GS,HS,M,MI, K,PM,PMS,KS, TP,PS,SP [6]	Z,GS,HS,M,MI, K,PM,PMS,KS, TP,PS,SP [6]	Z,GS,HS,M,MI, K,PM,PMS,KS, TP,PS,SP [6]	Z,GS,HS,M,MI, K,PM,PMS,TP, PS,SP [6]	Z,GS,HS,M,MI, K,PM,PMS,TP, PS,SP [6]
Width (mm)	1300	1500	1800	2200	2200	2500
Volume (l)	750	900	1500	1800	2000	2500
Weight[7] (kg)	425	475	530	605	695	800
Max. loading cap. (kg)	700	800	1100	1250	1350	1600
Max. system press. (bar)	175	175	175	175	175	175
Max. peak pressure (bar)	225	225	225	225	225	225
Min. required oil flow	35 L/min	35 L/min	40 L/min	40 L/min	40 L/min	50 L/min

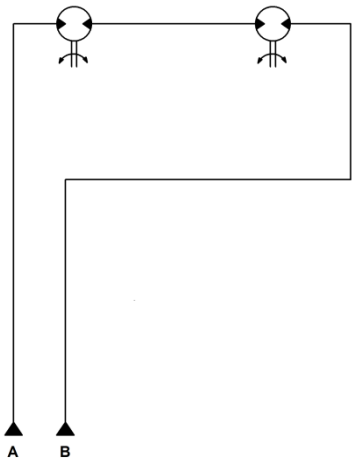
[5] The meaning of the abbreviations are described in the beginning of chapter 5 of this manual.

[6] If compost, lime or straw pellets are used, an additional metal plate should be fitted. This plate is available as option.

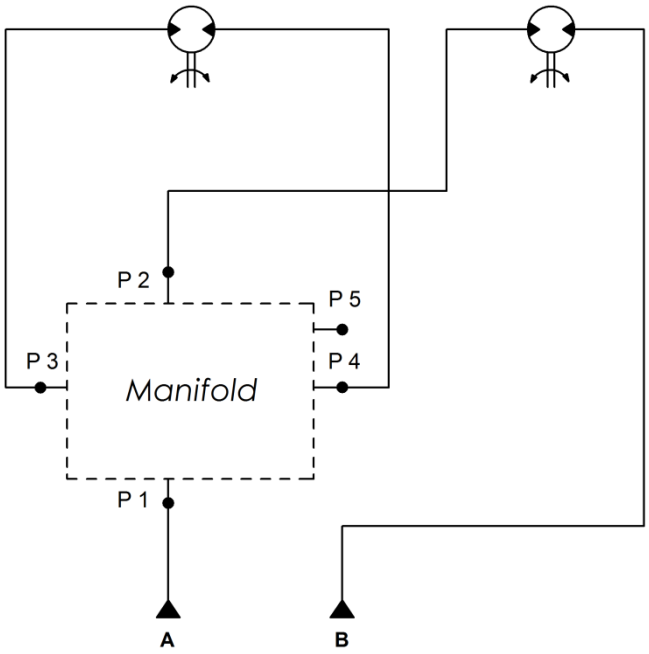
[7] Weight exclusive linkage, weight may vary depending on the version of the machine and linkage.
Shovel-linkage +30-100 kg
Three-point linkage single cylinder +30-100 kg
Three-point linkage double cylinder +150 kg

6 HYDRAULIC FLOW CHART

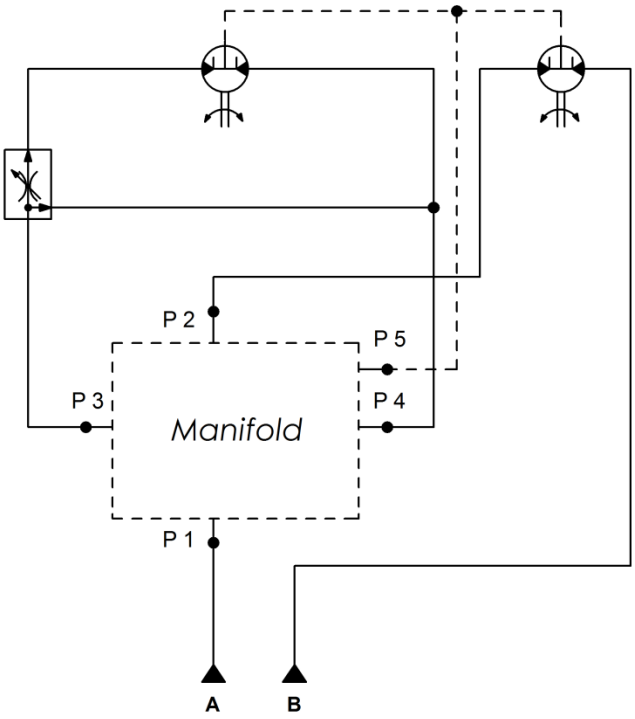
Depending on the type of bedder different flow charts are applicable.



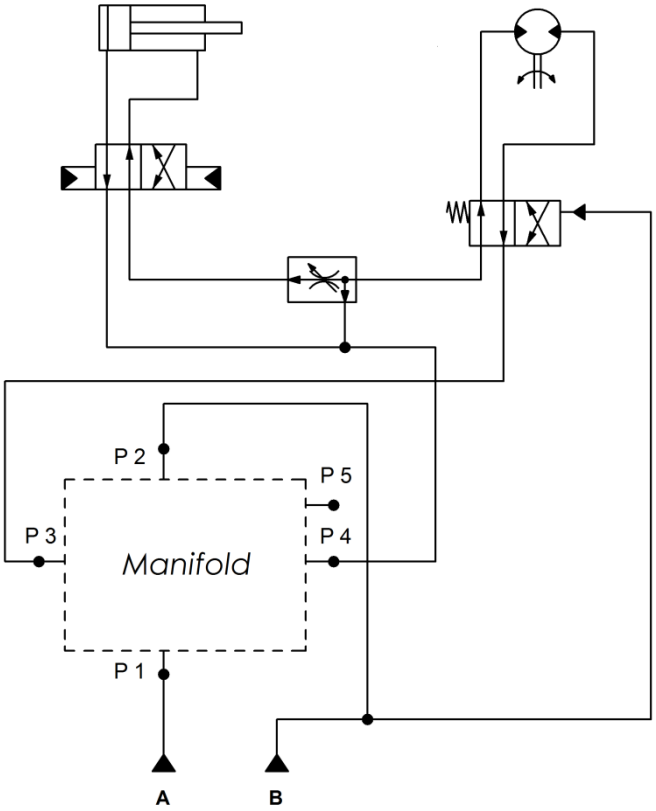
Hydraulic flow chart type ZX
Standard version



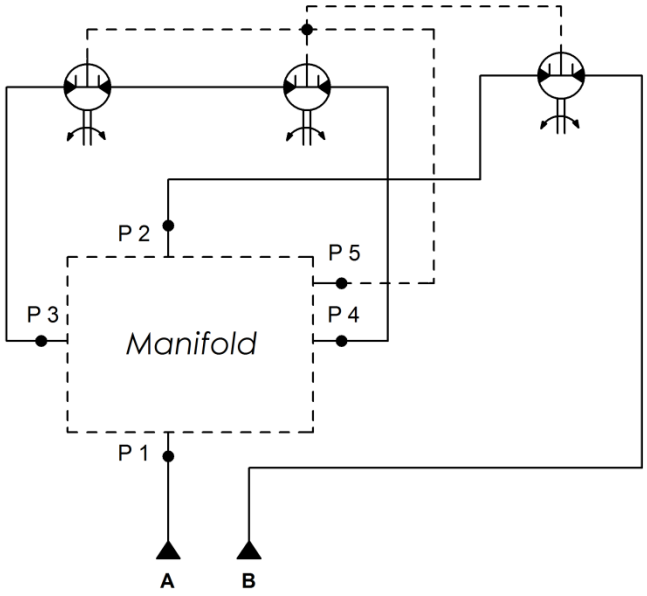
Hydraulic flow chart type Z, ZXS
Standard version



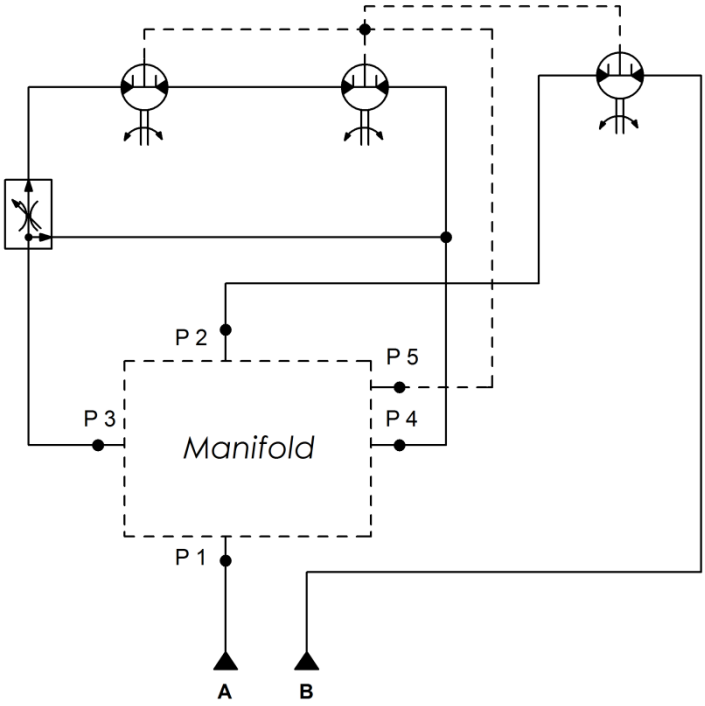
Hydraulic flow chart type Z, S, ZX
Variable speed roller (standard for type S)



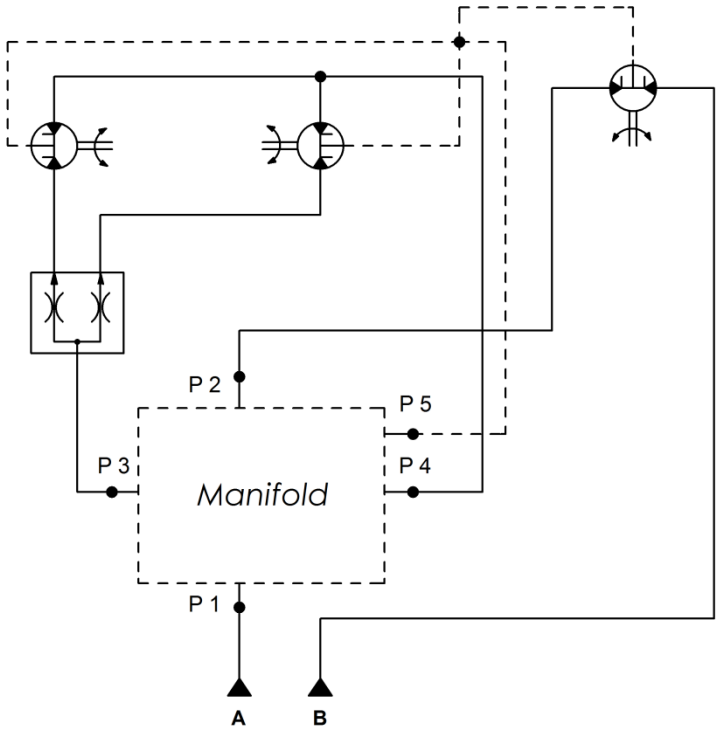
Hydraulic flow chart type SX
Standard version



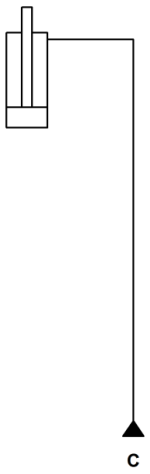
Hydraulic flow chart type KSS
Standard version



Hydraulic flow chart type KSS
Variable speed rollers

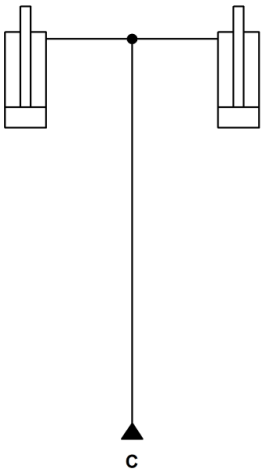


Hydraulic flow chart type KSS
Parallel connected rollers (KSS 1800-2500)



Hydraulic flow chart three-point linkage[8]
Single cylinder

[8] In case of an 'additional valve' both; the tractor linkage and the bedder hydraulics are connected after the manifold. In this case only 1 double regulating valve is required.



Hydraulic flow chart three-point linkage[9]
Double cylinder

After maintenance or repair practices on the bedder of type KSS always make sure that the rollers rotate in opposite directions.

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

[9] In case of an 'additional valve' both; the tractor linkage and the bedder hydraulics are connected after the manifold. In this case only 1 double regulating valve is required.

7 COMMISSIONING

The bedder 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 bedder's capabilities, dimensions and all safety requirements may operate the bedder.

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

Make sure you never connect the drain line (red dust cap) at a pressure outlet!

Always check before connecting the bedder whether the connection on the bedder 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 bedder always check the operator's manual of the machine and/or of the quick coupler system.

1. The bedder 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 bedder 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 bedder, check whether the combination of the bedder and the connected machine is safe. Pay special attention towards the maximum lifting capacity and hydraulic power of the connected machine.

Make sure you never connect the drain line (red dust cap) at a pressure outlet!

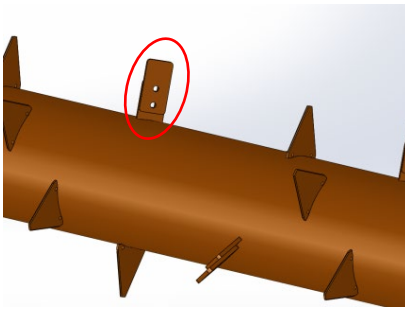
Always check before connecting the bedder whether the connection on the bedder is appropriate for the connection on the machine.

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

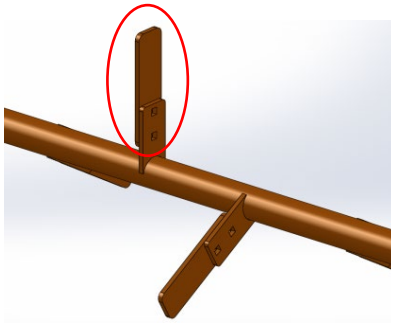
1. The bedder should be placed in the upright position, with the mounting points facing forward, on a firm and level surface.
2. Make sure all connections are greased sufficiently before connecting the bedder.
3. To connect the bedder follow all instructions as provided within the operator's manual of the three-point linkage and/or the connected machine. Make sure you use the proper implements, these should fit accurately on the bedder.
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 FIXED ARMS TYPE Z/ZX/ZXS

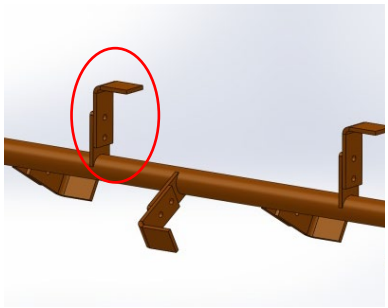
Fixed arms are mounted on the rollers of the bedder types Z, ZX and ZXS. In case the bedding material used is too heavy the fixed arms could be taken off. The number of fixed arms required is depending upon the type of bedding material.



Type Z/ZX



Type ZX



Type ZXS

Before the arms are (dis)mounted ensure the bedder is empty and positioned on a stable and flat surface. Always make sure the machine used to operate the bedder is safely switched off (please check its own manual for this).

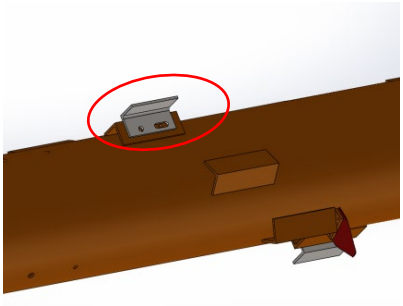
7.4 FIXED ARMS TYPE KSS

With the KSS bedder additional fixed arms are supplied. The set as originally supplied with the bedder contains angled profiles and blades. Please see the table below to for the recommended set up with the different bedding materials. Please refer to chapter 5 of this manual to see the bedding material abbreviations.

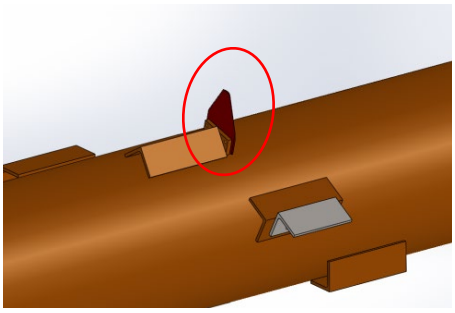
Bedding material	Z	GS	HS	M	MI	K	PM	PMS	KS	TP	PS	SP
Blades	✓/X	✓/X	✓/X	✓/X	✓/X	X	✓/X	✓	X	✓/X	✓/X	X
Angled profiles	✓	✓	✓	✓	✓	X	✓	✓	X	✓	X	X
✓	Recommended											
X	Not recommended											

Fixed arms could be (dis)mounted when deemed necessary. Please be aware, Flingk Machinebouw does not guarantee operation in case of the set-up differentiates from the above described recommendations.

The angled profiles and blades should be mounted as follows:



Angled profiles type KSS



Blades type KSS

Before the arms are (dis)mounted ensure the bedder is empty and positioned on a stable and flat surface. Always make sure the machine used to operate the bedder is safely switched off (please check its own manual for this).

7.5 METERING SLIDE TYPE Z/ZX

All bedders of type ZX are equipped with a metering slide to adjust the amount of bedding material spread. By adjusting the metering slide the amount of bedding material could be fine-tuned.

To reduce the amount of bedding material spread loosen the two wing nuts and slide the metering slide down, this will reduce the slide opening. Tighten both wing nuts after adjusting to ensure the metering slide is locked in position.

To increase the amount of bedding spread loosen the two wing nuts and slide the metering slide up, this will increase the slide opening. Tighten both wing nuts after adjusting to ensure the metering slide is locked in position.

Before adjusting the metering slide ensure the bedder is empty and positioned on a stable and flat surface. Always make sure the machine used to operate the bedder is safely switched off (please check its own manual for this).

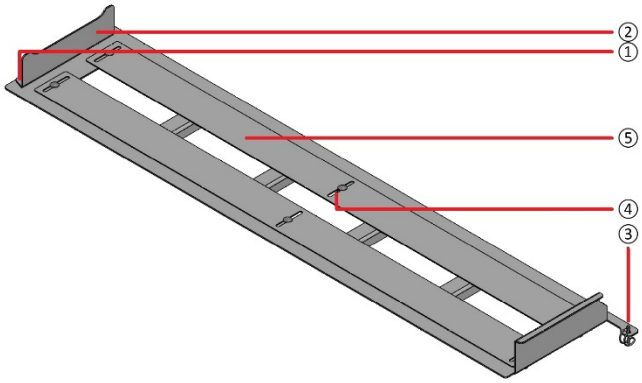
Metering slide type Z/ZX

7.6 OPTION BOTTOM PLATE KSS

To adjust the amount of bedding material that falls on the conveyor belt, you can adjust the opening of the bottom plate. Making the opening larger will dose more bedding material onto the conveyor belt. When the opening is smaller, less Fli will be dosed.

Follow the steps below to adjust the settings of the bottom plate.

1. Loosen the 2 wing nuts ① of the lid ② a few turns and remove the lid.
2. Remove the locking clip ③ and pull the bottom plate sideways out of the machine.
3. Loosen the wing nuts ④ of the adjusting slides ⑤ a few turns and set the adjusting slides to the desired position. Then tighten the wing nuts ④ again to maintain the position of the sliders.
4. Slide the base plate back into the machine and secure it with the locking clip.
5. Replace the lid ② and tighten the wing nuts ① so that the lid is secured.
6. Make sure the base plate is properly secured again and all fasteners are tightened before putting the machine back into operation. Also check that the rollers and conveyor belt rotate freely and do not run into anything.



If the bottom plate is not needed, the machine can also be used without it.

Only adjust the base plates when the bedder is empty and positioned on a stable and flat surface. Always make sure the bedder is disconnected from the driving machine before adjusting the base plates.

7.7 OPTION BASE PLATE TYPE Z/S

By adjusting the base plate the amount of bedding material falling on the transport belt could be controlled.

To adjust the amount of material falling on the transport belt either enlarge or reduce the opening by loosening the bolts which locks the base plate and slide the base plates. Tighten the bolts after adjusting to ensure the base plate are locked in position.

Only adjust the base plate when the bedder is empty and positioned on a stable and flat surface. Always make sure the bedder is disconnected from the driving machine before adjusting the base plate.

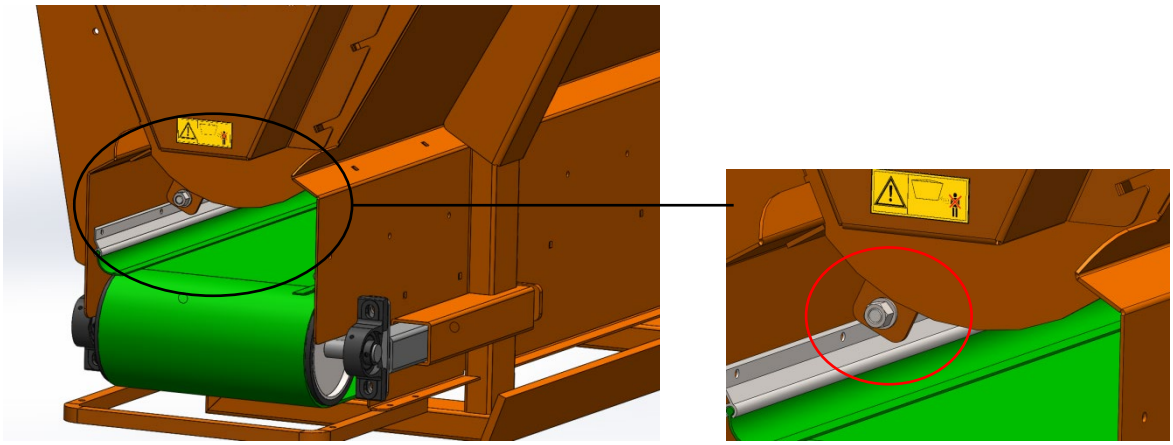
It is also possible to remove the entire base plate by loosening the bolts which locks the base plate and slide the base plate to the side of the bedder. This will maximize the amount of material falling on the transport belt or make it easier to adjust the scraper.

7.8 OPTION ADJUSTABLE OPENING TYPE ZXS

With the adjustable opening for type ZXS the amount of material spread could be adjusted precisely.

Only adjust the opening when the bedder is empty and positioned on a stable and flat surface. Always make sure the bedder is disconnected from the driving machine before adjusting the base plate.

To precisely adjust the opening turn the spindle with appropriate tooling. Turn the spindle clockwise to enlarge the opening and turn the spindle counter clockwise to reduce the opening.



Always ensure both spindles are adjusted evenly on both sides. This will ensure the opening to be centred within the machine allowing the material to be spread both sides evenly. If the opening is misaligned the spreading left and right will be different.

8 OPERATING INSTRUCTIONS

Every type of Flingk bedder is designed for different bedding materials. Check, before using the bedder, within the technical specifications for which bedding material your type of edder is build. Do not use the bedder for materials it was not designed for!

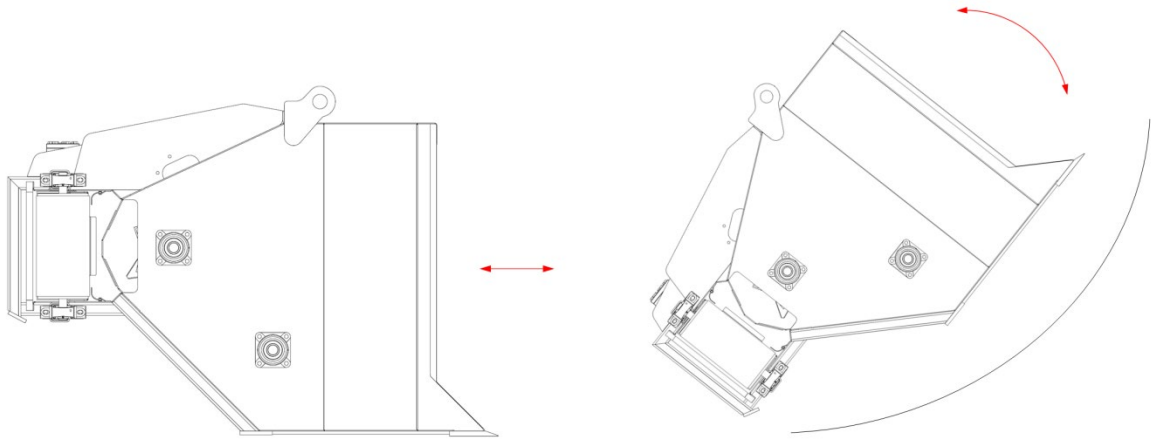
Before and while operating take the following instructions into account:

- 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 bedder as well as the hydraulic hoses and presence of the yellow, blue and red dust caps on the connectors.
- Do not start working with an incomplete, damaged or dirty bedder!
- Check prior to commencing work the direction in which the conveyer belt rotates. This is depending on the manner in which the hydraulic hoses A and B (yellow/blue) are connected to the pressure ports.
- The bedder may solely be operated from the correct operators position within the cabin of the attached machine.
- In case of stuck bedding material within the bedder, place the bedder in the upright position on a firm and level surface, turn of the engine of the attached machine and make sure all hoses are depressurized before you attempt to loosen up the material. Be aware for the sharp edges and blades of the bedder and make use of appropriate tooling to loosen material.
- In case obstruction of the rollers or conveyor belt occurs, place the bedder in the forward position, with the mounting points facing upwards, on a firm and level surface, turn of the engine of the attached machine and make sure all hoses are depressurized before you attempt to clear the movement. Be aware for the sharp edges and blades of the bedder and make use of appropriate tooling to loosen material.
- Always consult the dealer or Flingk Machinebouw to check the bedder after a foreign object has caused the obstruction before starting operation again.
- Wear and use protective clothing and/or equipment while cleaning the bedder.

8.1 LOADING THE BEDDER

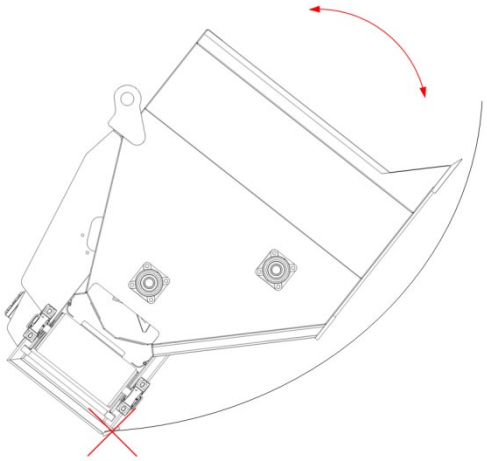
In order to fill the bucket place the bedder in forward position, with the blade touching the ground (figure 1). Drive forward into the bedding material and turn the bedder towards the upright position (figure 2) after enough material is collected.

Make sure nobody stays between the bedder and the bedding material while filling the bedder.



1 2

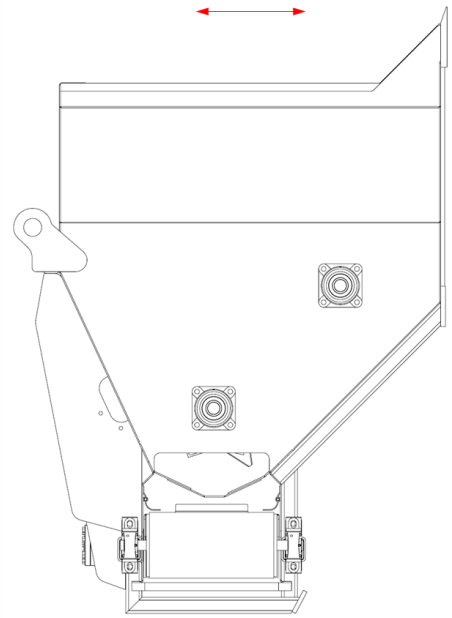
Make sure the conveyor belt does not collide with the bedding material while rotating the bedder.



8.2 RIDING WITH THE BEDDER

Ensure that while driving the bedder is always in 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 bedder.

The bedder 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 bedder always adhere to the traffic, safety and environmental regulations and transport the machine in a responsible and safe manner.



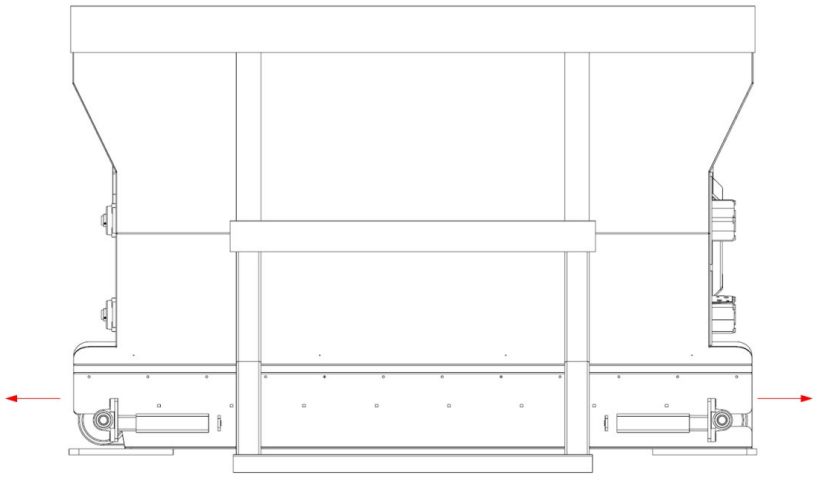
8.3 SPREADING

Take care that nobody will be within the dangerous zone while operating, transporting of riding with the bedder. 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.

When spreading take follow the next instructions:

- Always keep the bedder in upright position while discharging the material.
- Ensure that no human being, animals or other materials are within the operating zone before starting to discharge the material.

Start the discharge at the side of choice and slowly drive along the cubicles to evenly distribute the bedding material.



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 bedder while it is running! All power sources must be completely disengaged and the bedder should be placed in the forward position on a firm, level surface that is large enough to safely accommodate the bedder 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 bedder is not subjected to extreme weather conditions and always store the bedder in a sheltered area which prevents exposure to persistent rain, snow and ice.

General maintenance instructions:

- Regularly check the front blade and the fixed arms on the rollers for possible damages, wear or flaws.
- Regularly check the conveyor belt for damages or wear. Also check the tension and if necessary tighten the conveyor belt. For instructions see the appropriate chapter in this manual.
- Grease all bearings every 6 months or 30 operating hours.
- For the type ZX, grease the chain every 4 months or after 20 operating hours.

9.1 TIGHTENING THE CONVEYOR BELT

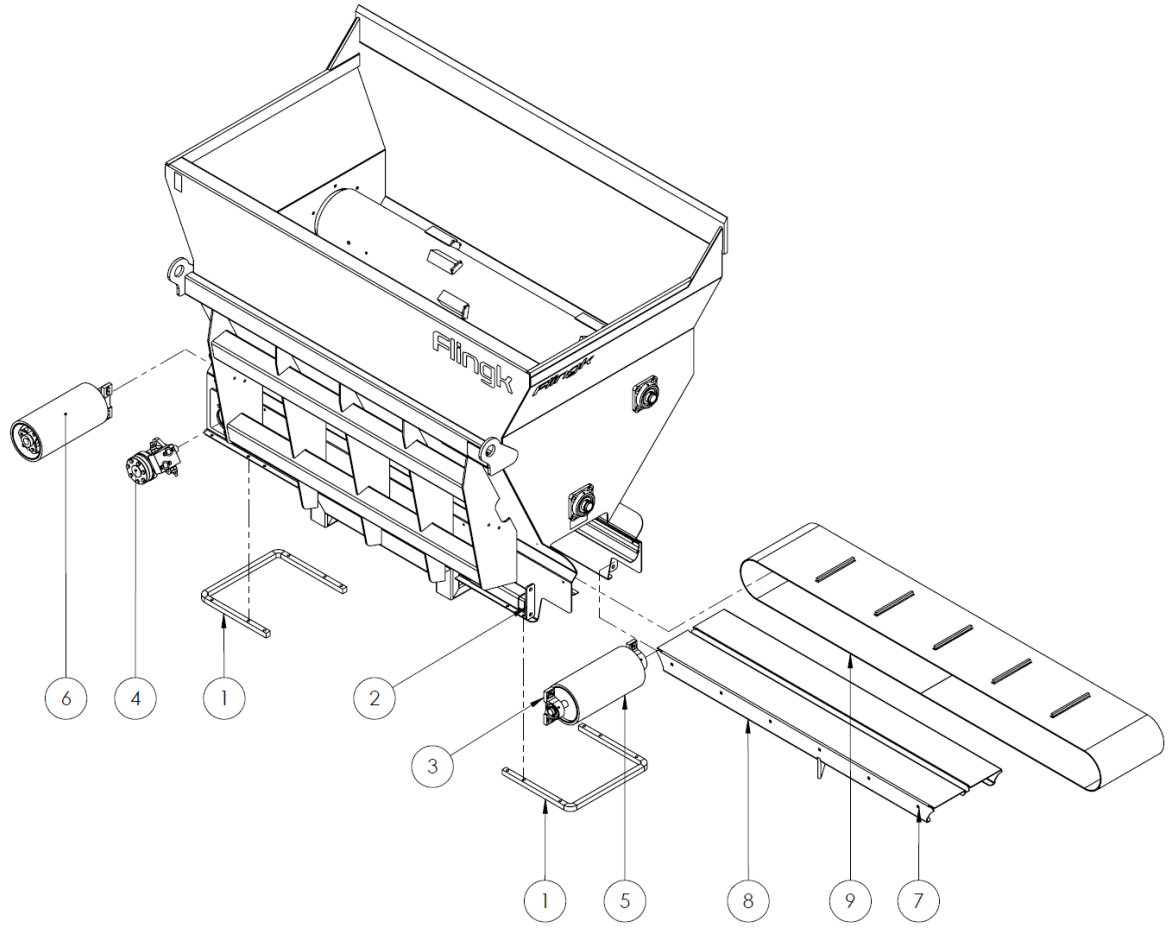
To tighten the conveyor belt please follow next instructions:

Tightening the conveyor belt only on the non-driven roller!

1. The bedder should be placed in the forward position, with het mounting points facing upwards, on a firm and level surface.
2. Disconnect the bedder completely and make sure all hydraulic hoses are depressurized.
3. Adjust the conveyor belt tension bolts from the non-driven roller hand-tight. The conveyor belt must not be tightened.
4. Mark exactly 1000mm in length on the longitudinal direction of the conveyor belt and adjust the tension bolts in such a way that the conveyor belt is stretched to 1003mm. Both sides should be adjusted the same distance so the conveyor belt does not drag along the sides.
5. Always test after tightening and before use whether the conveyor belt does not drag along the sides and remains at the centre of the rollers.

9.2 REPLACING THE CONVEYOR BELT

To replace the conveyor belt follow the following steps 9.2.1 and 9.2.2 in the indicated order.



Exploded view conveyor belt

9.2.1 Remove the conveyor belt

To remove the conveyor belt follow the following steps.

1. Place the bedder upside down on a stable and flat surface. Ensure that the bedder is standing stable and is not able to move or fall!
2. Dismantle the protection brackets ①.
3. Loosen all three tension bolts ② of the rollers and loosen them as far as possible.
4. Loosen the Allen bolts of the bearings.
5. Dismantle the bearings from the tension blocks ②, the bearings could stay assembled to the rollers.
6. Dismantle the hydraulic motor ④. Loosen the two bolts of the hydraulic motor to dismantle the hydraulic motor. The hydraulic motor isn't further locked.
7. Turn away the tail roller ⑤ to the bottom of the machine and take it out.
8. Dismantle the driving roller ⑥. Also turn this roller away to the bottom side of the machine where after it can be taken out of the transport belt.
9. Remove all M8-bolts ⑦ of the guiding plate ⑧.

10. Now the transport belt ⑨ and its guiding plate ⑧ are ready to be taken out to either side of the machine.

9.2.2 Assemble the conveyor belt

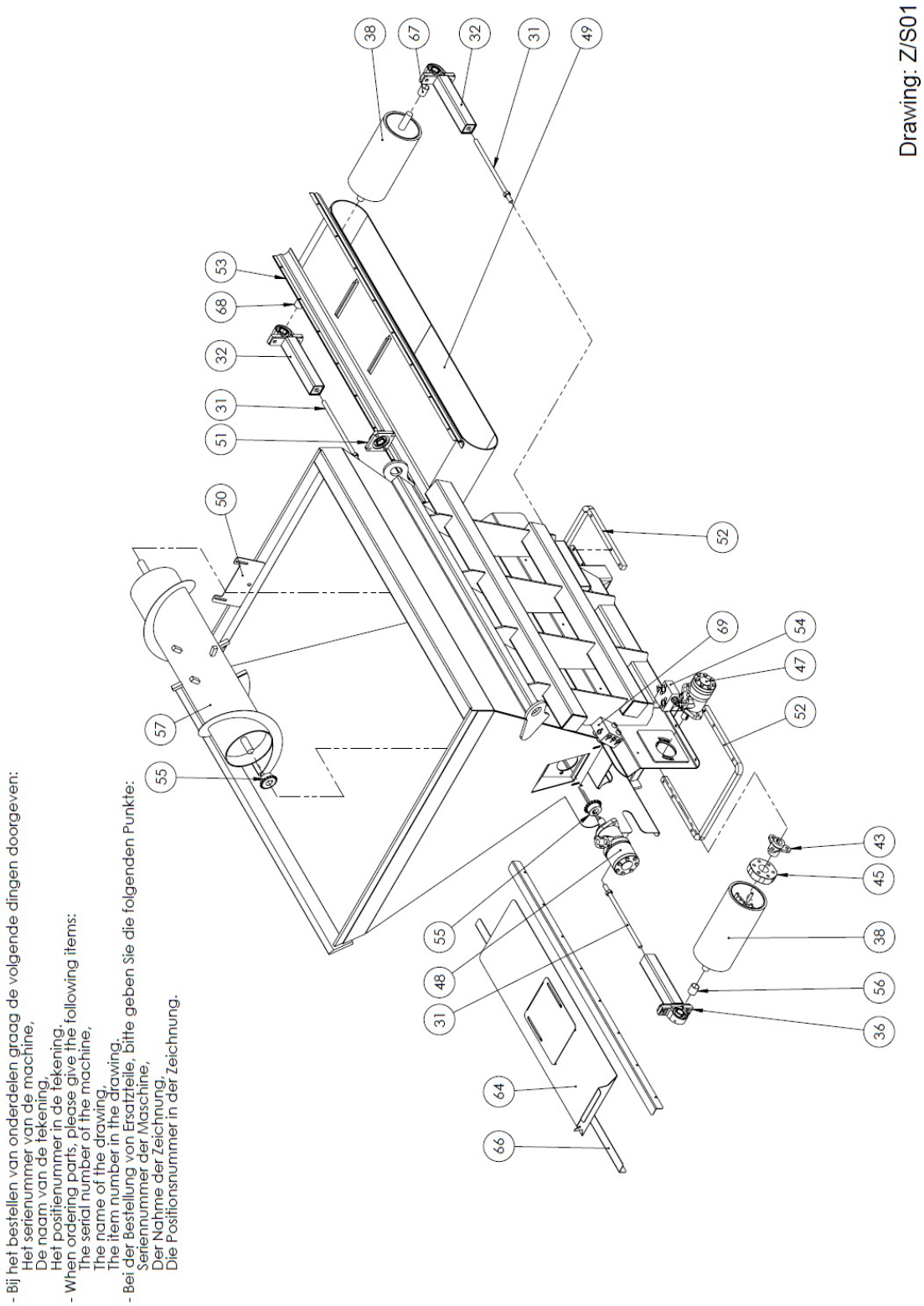
To assemble the conveyor belt follow the following steps. Ensure the steps from 9.2.1 have been properly performed before continuing the next steps.

1. Position the conveyor belt ⑨ around the guiding plate ⑧ as per the final position in the bedder.
2. Slide the conveyor belt ⑨ and the guiding plate ⑧ from the side of the machine into the correct position (similar as it was taken off).
3. Fix all M8 bolts ⑦ which have been removed during step 9 in chapter 9.2.1. Position the bolts with the nut to the outside of the bedder. New fasteners have preference. Ensure the new fasteners have the same quality (or better) and the same size as originally used.
4. Position the driving roller ⑥ in the conveyor belt when the belt is positioned outside the machine by inserting the driving roller from the side. Position the driving roller together wit the transport belt in the correct position (in front of the hydraulic motor position).
5. Position the non-driven roller ⑤ by moving the transport belt towards the bottom of the machine and inserting the non-driven roller from the side. Position the non-driven roller with the conveyor belt in the correct position in the bedder.
6. Position the hydraulic motor ④ by sliding this into the motor coupling. The motor coupling is still attached to the driven roller ⑥. Assemble the hydraulic motor with new bolts and tighten correctly.
7. Position the bearings ③, in case they have been separated from the rollers. Assemble the bearings to the tension blocks ②.
8. Ensure both rollers are aligned correctly in the centre to make sure that the conveyor belt does not mistrack.
9. Adjust the transport belt according to the steps as indicated within chapter 9.1 of this manual.
10. Tighten the Allen bolts of the bearings and those of the tension blocks.
11. Assemble the protection brackets ①.

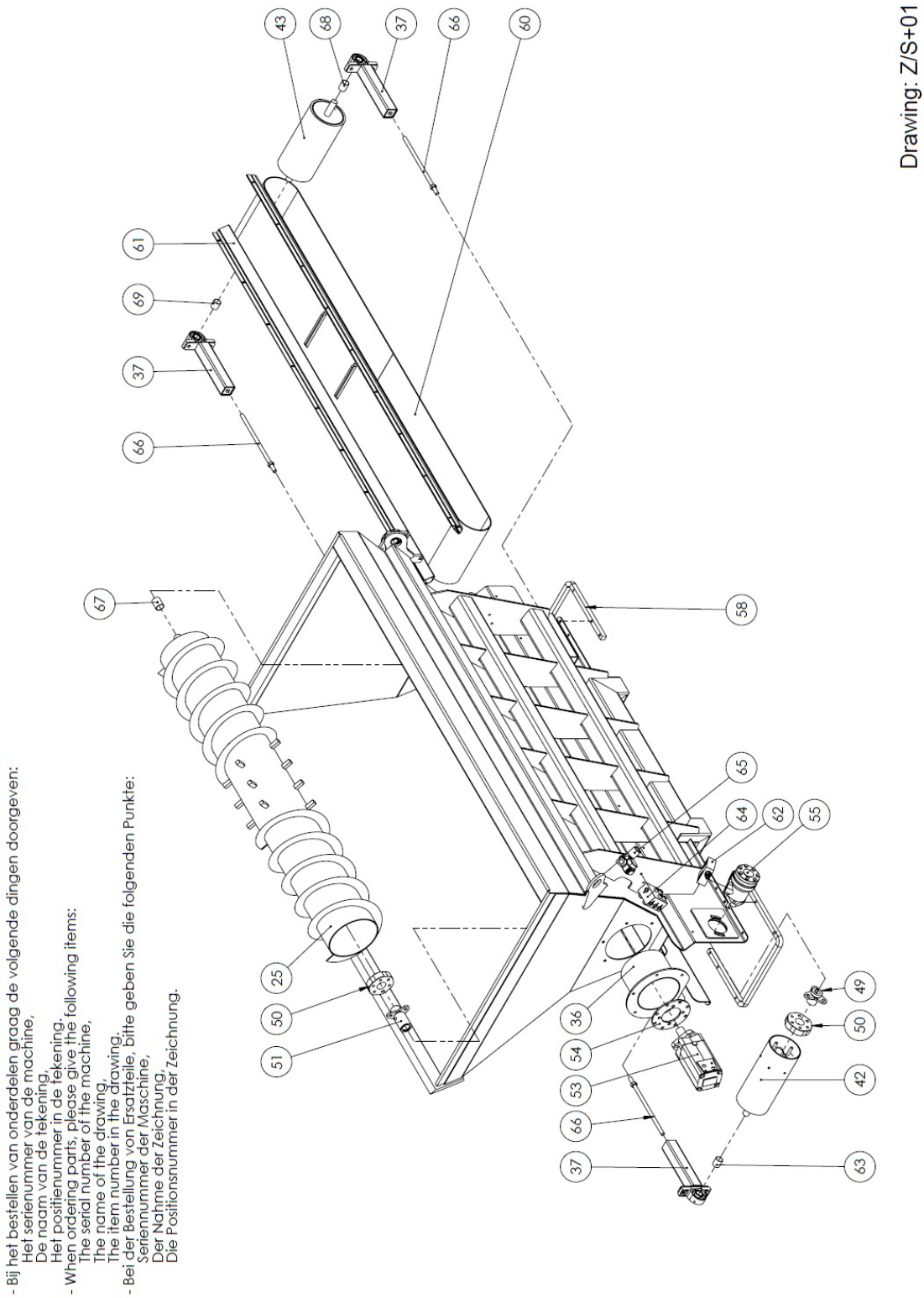
Always test the transport belt for slip or mistracking before taking the bedder in operational use! Be extra careful during the rist operational use and keep an eye on the belt and associated components.

10 PARTS LIST

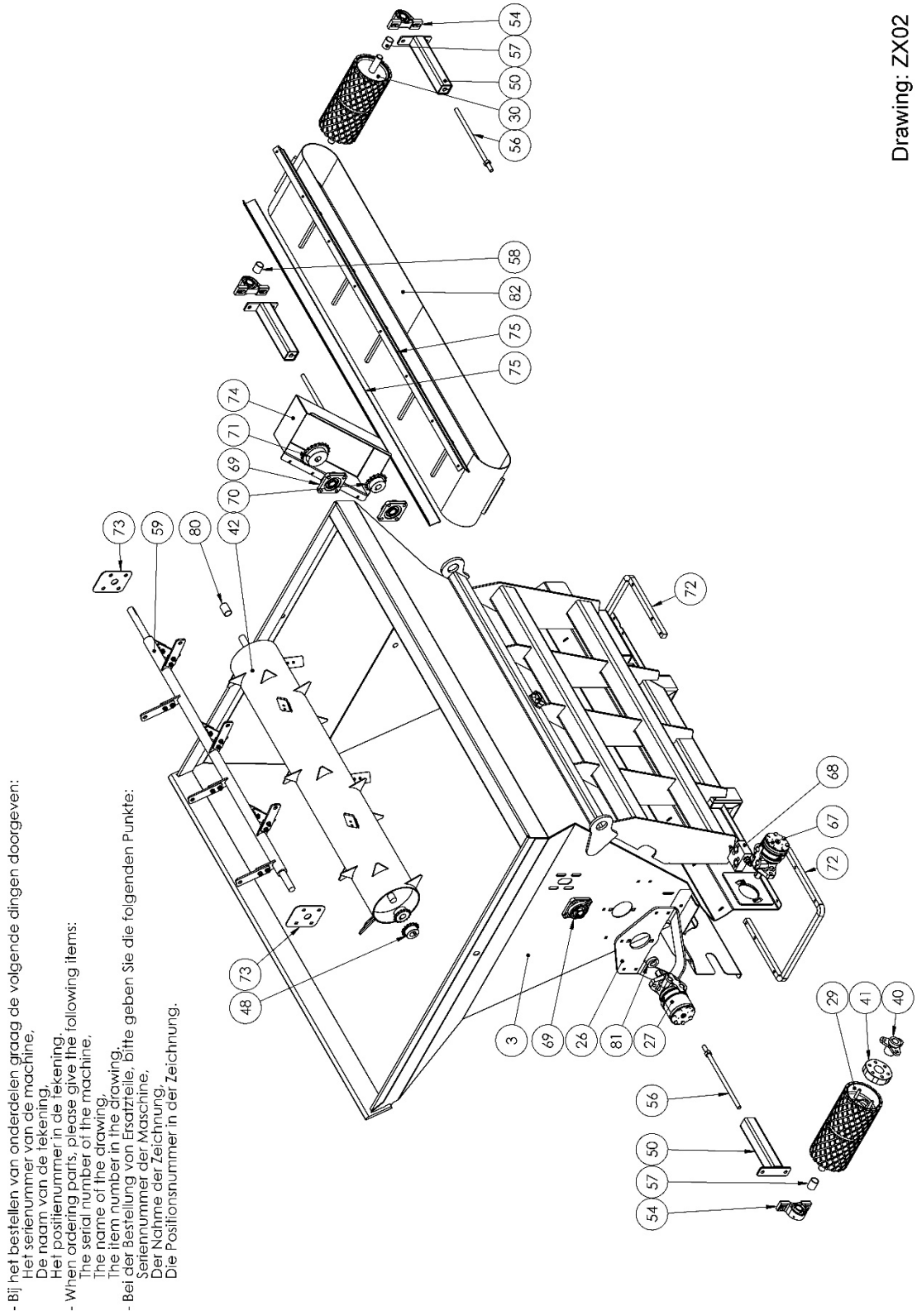
10.1 TYPE Z ≤1500, S≤1000



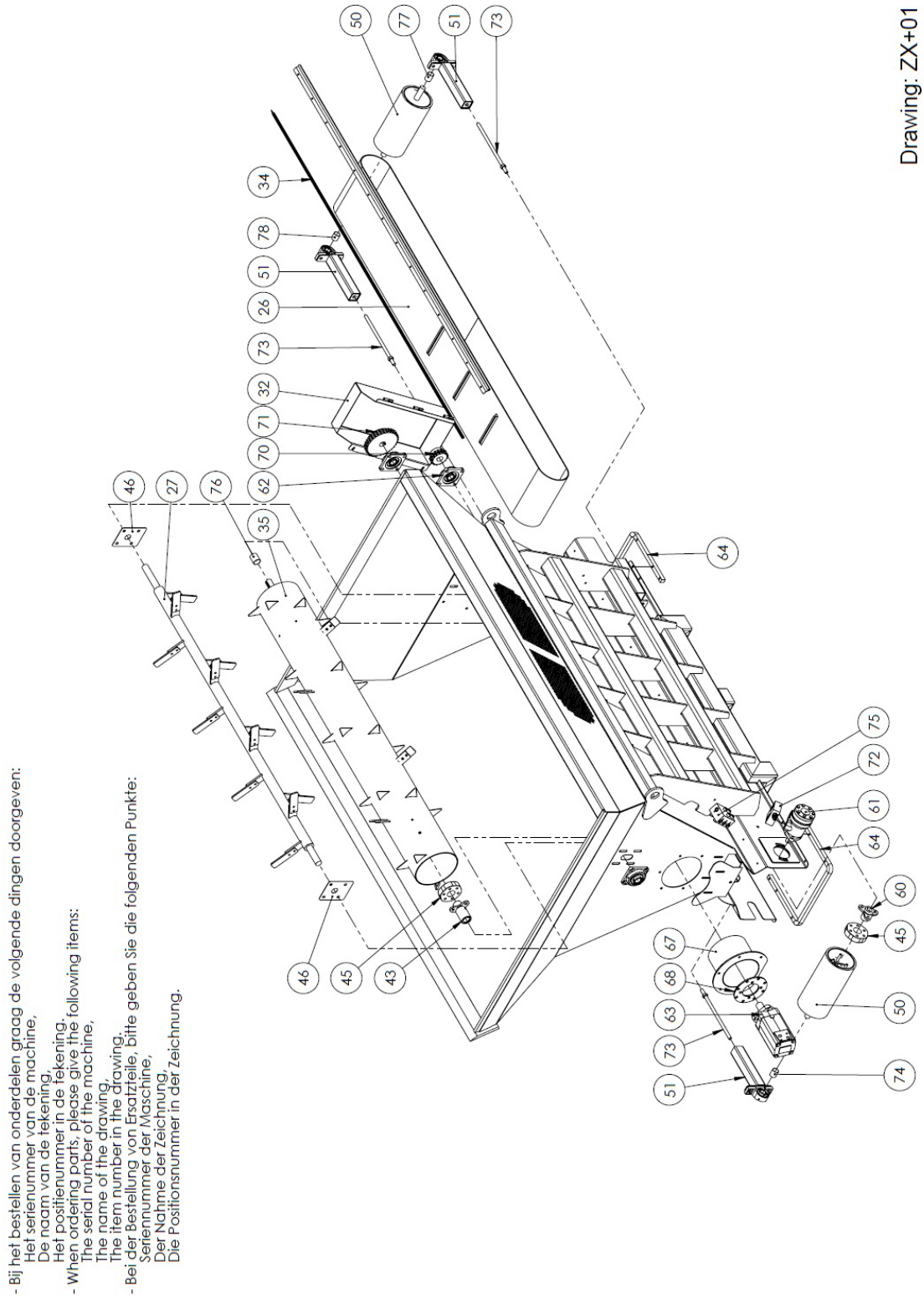
10.2 TYPE Z ≥2000, S ≥1300



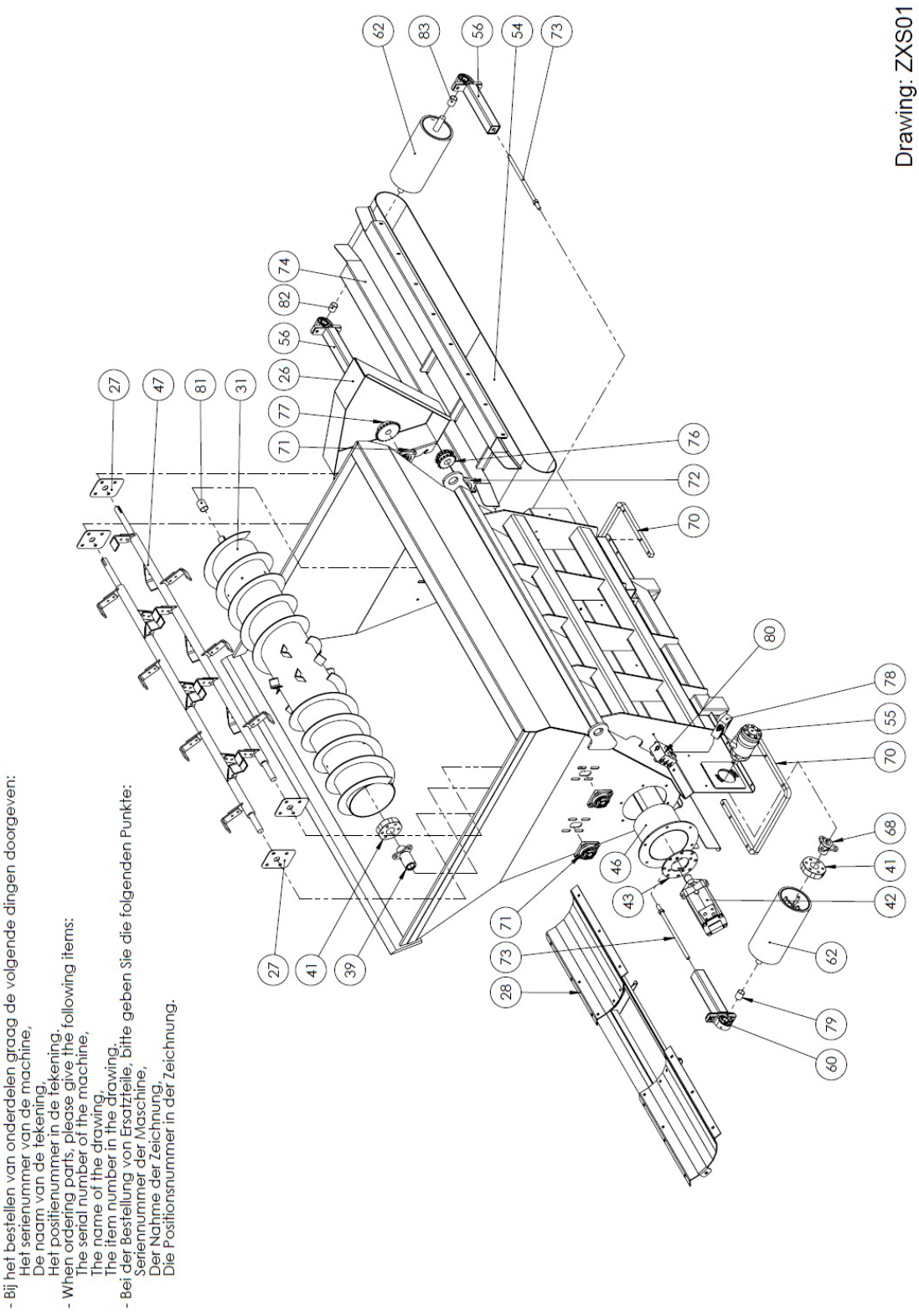
10.3 TYPE ZX ≤1500



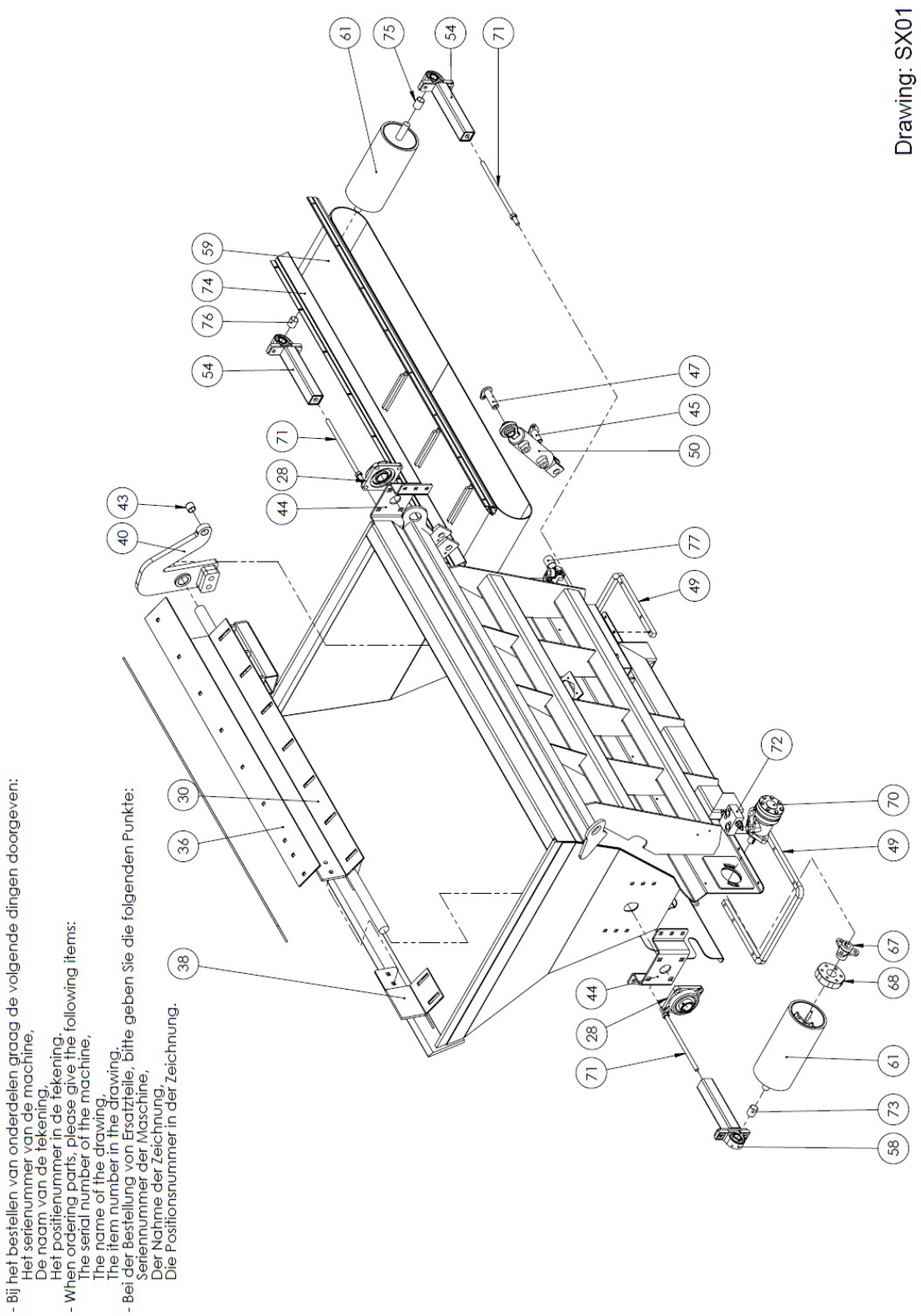
10.4 TYPE ZX ≥2000



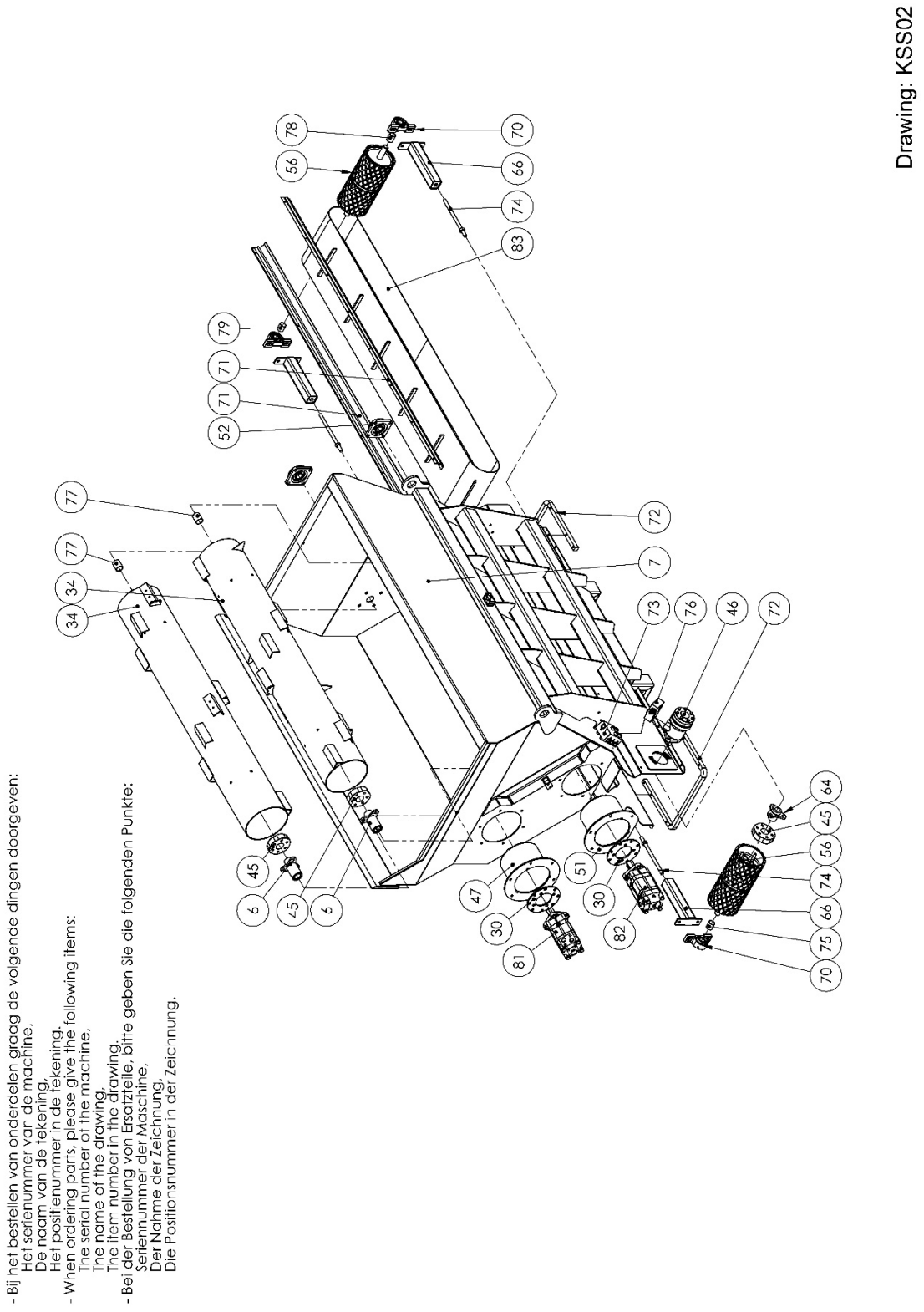
10.5 TYPE ZXS


Drawing: ZXS01
- 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 Nahme der Zeichnung,
Die Positionsnummer in der Zeichnung.

10.6 TYPE SX


Drawing: SX01
- 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 Nahme der Zeichnung,
Die Positionsnummer in der Zeichnung.

10.7 TYPE KSS


Drawing: KSS02
- 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 Nahme der Zeichnung,
Die Positionsnummer in der Zeichnung.

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.

12 NOTES

FLINGK
Machinebouw