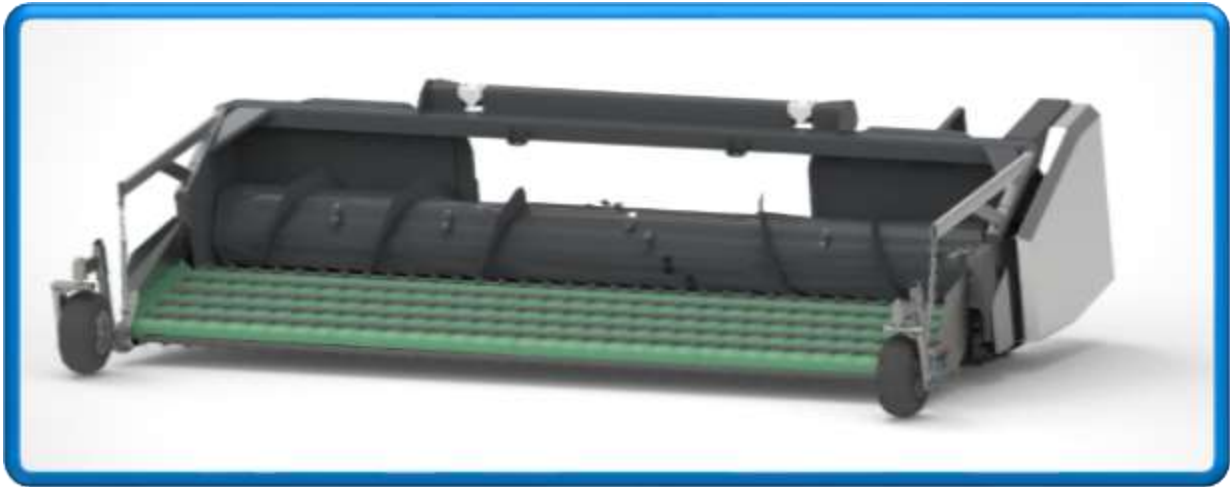




DZ Pick-up

User Manual



Model: *Type 3, 3L, 4, W & K*

Year of construction 2021





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1. Introduction

1.1 General

This manual contains instructions regarding transport, storage, set-up, functioning, operation, cleaning, maintenance and various settings of the DZ Pickups supplied by A den Dekker & Zn bv.

This document contains important information before the commissioning and operation of this product. Information to prevent accidents and damage to ensure the safest and most trouble-free operation. This manual is part of the delivery of the DZ Pickup that you have purchased. Store it with the DZ Pickup or in its immediate vicinity. Please inform everyone who operates the DZ Pickup about the storage location of this manual.



Please read these instructions carefully before carrying out any work on the DZ Pickup you have purchased. Make sure that all persons who will operate and maintain the DZ Pickup know the contents of this manual; they must familiarise themselves with the functioning and operation of this DZ Pickup and strictly follow the instructions given.

For information regarding malfunctions, maintenance work or repairs not covered by this manual, please contact A den Dekker & Zn bv. See [Chapter 11](#) for contact information.

1.2 Check the delivery

Upon arrival, check the shipment for any damage and whether it has been received in accordance with the packing slip. In the event of damage, have the transporter draw up an official report, and inform your supplier immediately. Every DZ Pickup has a type and serial number. This serial number is stated on the name plate. Check whether this number matches the name and serial number stated on the packing slip and invoice. Always quote this name and serial number in your correspondence, also when ordering spare parts. If a machine is not taken into use immediately, take the necessary measures as described in [Chapter 5.2](#).



1.3 Warranty conditions

The warranty is only valid if the DZ Pickup is/has been used in accordance with the instructions stated here.










A den Dekker & Zn bv expressly guarantees its products, provided they are maintained in accordance with these instructions, for material and manufacturing defects that manifest themselves during normal use. The warranty does not cover damages caused by incorrect operation, incorrect use, overloading or the use of non-original parts. The warranty is expressly limited to the repair or replacement of the product, which is exclusively assessed by A den Dekker & Zn bv. A den Dekker & Zn will only take a possible warranty claim into consideration when it is made in writing, stating in detail the defect and the circumstances under which the defect has arisen. (Please use the A den Dekker & Zn bv damage form to this end, which can be requested) Normal wear and tear is excluded from the warranty.

Warranty claims only apply to defective products. Products are considered to be defective with material or production errors within 2 years after purchase.

Incidentally, the Fedecom terms & conditions 2014 and payment terms & conditions apply to all agreements, as sent with the invoice. The terms & conditions have been filed with the Chamber of Commerce in Rotterdam.



1.4 Explanation of symbols

	Caution! "danger"
	Please read the operating manual carefully before working with the DZ Pickup.
	Before carrying out maintenance work, switch off the machine and remove the ignition key. remember that a machine can still run for a short while after it has been switched off. Wait until the machine is completely motionless. See Chapter 9 for maintenance on the machine.
	Danger of rotating parts! Ensure the connectors are well shielded.
	Crushing hazard from rotating parts! Keep your distance from the V-belt and/or chain when the combine harvester engine is running. Wear closely fitting clothing. Rotating parts can grab and drag clothing, hands, hair, etc.
	Keep your distance! Keep at least 5 metres distance from a working machine. Before driving, make sure that no one is within the driving area of the DZ Pickup.
	Crushing hazard!
	Hazard of crushing! Do not put your hands in the machine! Do not clean pickup springs until the combine harvester engine and drive shafts have come to a complete stop, the combine harvester engine has been turned off and the key has been removed from the ignition.
	Danger of hand injury! Keep your hands and feet away from a working pickup.

Where necessary, the pictograms above have also been attached to the installation.



Attention: a remark with important (additional) information



1.5 Explanation of Definitions

Combine harvester	Combine harvester equipped with a DZ Pickup.
Left/Right	Standing behind the machine, seen from the direction of travel.
Operator	The person who drives the combine harvester, controls, supervises its operation and can start and stop etc..
Hazardous area	These are zones in the vicinity of the pickup which could cause injury.
The technician	This person must be qualified and trained to perform the technical actions. The technician is familiar with the pickup's functions and safety standards. The technician must have a solid understanding of and experience with the pickup.

1.6 Identification

Each DZ Pickup has a unique combination type with serial number. The name plate can be found on the right-hand side plate of the DZ Pickup. The serial number of the DZ Pickup is also engraved on the right-hand side plate below the name plate.

The following information can be found on the type label:

 CONSTRUCTIEBEDRIJF A. DEN DEKKER & ZN B.V. SCHANS 4 - NL-4251 PT WERKENDAM TEL.+(31) (0) 183-501455 www.adendekker.nl - info@adendekker.nl		
	TYPE	
	SERIENR.	
	BOUWJAAR	



2. A den Dekker & Zn bv

A den Dekker & Zn bv has been developing and producing DZ Pickups for more than 25 years. Every Pickup is carefully constructed and produced by specialists.

Product optimisation is of the utmost importance at A den Dekker & Zn bv, so that you are assured of having an excellent, high-quality product.

To benefit fully from your investment, please carefully observe all the instructions for safety, use and maintenance contained in this manual.

A den Dekker and Zn bv constantly strives to optimise its products, quality and service. A. den Dekker & ZN therefore reserves the right to modify the specifications in this manual at any time and without prior notice.

Company Details:

A den Dekker & Zn bv

Address:

Schans 4

4251 PT, Werkendam (NL)

The Netherlands

Tel: +31 (0)183 501455

Fax: +31 (0)183 502319

Info@adendekker.nl

www.adendekker.nl



3. Safety Instructions

3.1 Safety

A den Dekker & Zn bv has made every effort to inform you as correctly and completely as possible about potential dangers in handling the DZ Pickup. You must monitor and are responsible for compliance with these rules of conduct.

Products by A den Dekker & Zn bv are equipped with safety and protective equipment. However, it must be borne in mind that working with this type of machine may involve certain hazards which cannot be prevented by mechanical solutions, such as shielding, danger of rotating parts, danger of crushing, etc. These dangers are inherent to the use and handling of the DZ Pickup.



**The safety symbols on the machine must be kept complete and legible.
Damaged and illegible safety symbols must be replaced.**

The operator of the DZ Pickup must be authorised, physically and mentally capable and trained to safely operate the DZ Pickup and the attached agricultural vehicle.

The safety instructions included in this manual must be considered part of the safety instructions that apply in the environment where the DZ Pickup is used.

It would be impossible to foresee each and every circumstance in advance. The operator of the DZ Pickup is responsible for anticipating and preventing unsafe situations. This includes situations that are not described in this instruction manual. No machine is completely safe if insufficient maintenance is carried out. [Chapter 9](#) contains a schedule for this maintenance. Please ensure that every service is logged in the service log. ([see Chapter 9.2](#))



Store the manual near the DZ Pickup. The operator must study and understand the contents of this manual.



3.1 Intended use

The DZ Pickup is an attachment that has been built exclusively for harvesting grasses or other grass-like crops that have been pre-mowed, for the purpose of threshing, collecting or lifting the product, and must only be operated by a suitably trained person.

The DZ Pickup is designed for use on arable and pasture land that is free of rocks, heavy (plant) stumps and/or roots. Only use the pickup for its intended purpose.

The DZ Pickup is an attachment that can be mounted in the harvester head of the combine harvester as well as in a frame at the front or rear of an agricultural machine.

Transport between the deployment areas must be carried out with a suitable means of transport, such as a trailer, and with due observance of the road traffic law or other applicable traffic requirements.



Deviating use is only possible in consultation with A den Dekker & Zn bv and is only possible if the type description has been adapted to the new requirements.

3.2 Warnings.



Failure to observe the following warnings may result in very severe injuries or death.

- It is prohibited to transport persons or animals with the DZ Pickup;
- A den Dekker & Zn bv accepts no responsibility whatsoever if the DZ Pickup is used for purposes other than those indicated;
- The machine may only be switched on when no one is present within the danger zone;
- Please study this manual carefully before working with the DZ Pickup;
- The hydraulic system is under high pressure. Fluids escaping under high pressure (hydraulic oil!) may penetrate the skin and cause severe injuries. Before working on the hydraulic system: switch off the engine and depressurise the hydraulic system! Consult a doctor immediately in case of injuries! Infection hazard!



The operator is responsible for supervising third parties in the vicinity of the DZ Pickup.



3.3 Safety equipment

Safety provisions fitted by the supplier of the installation or the assembler of the entire installation must not be removed or blocked.

The DZ Pickup is equipped with the following safety equipment:

- Non-return valve or optionally a freewheel clutch for a mechanically driven DZ Pickup to prevent counter-turning;
- Shielding on the drive of the DZ Pickup;
- Stickers and warning symbols.



In order to use the DZ Pickup in a safe manner, the following safety precautions must be observed:

- As the owner of the DZ Pickup, it is your responsibility that persons who operate or maintain the DZ Pickup are adequately instructed to do so. If in doubt, please consult the supplier of the installation;
- The driver or operator must be at least 18 years of age or older and have taken good note of the user manual;
- Before working with the DZ Pickup, its condition and proper functioning must be checked;
- You must ensure that the DZ Pickup is not used unattended. You must also ensure that the person who operates the machine does so in a responsible manner;
- The operator should not undertake any other activities while operating the DZ Pickup to avoid distraction;
- It is forbidden for untrained persons to be in the vicinity of the DZ Pickup while the DZ Pickup is in operation. Keep at least 5 metres distance;
- If unsafe work is in progress or imminent, the operator should have the right to refuse operation until the situation is safe again;
- If persons are too close to the moving parts of the DZ Pickup, do not hesitate to stop the DZ Pickup and remove these persons from the danger zone;
- Make sure that warning signals remain visible;
- Suspension chains and supports that belong to and are used with the DZ Pickup should be continuously inspected for damage or wear. In the event of damage or excessive wear and tear, replacement must be carried out without delay;
- The DZ Pickup must never pass over persons or endanger their safety in any way;
- During repairs, the DZ Pickup must be turned off, the ground switch disconnected and the emergency stop of the connected vehicle must be active;
- If the combine harvester does not have an enclosed cab, the driver must wear the correct protective equipment;
- Observe the relevant provisions of your local Road Traffic Regulations;



- In case of regularly recurring or other malfunctions, please contact your supplier, quoting the type and serial number;
- If the DZ Pickup is out of operation for a longer period of time or if the installation is dismantled, remove all parts that may pose a danger to persons and the environment;
- Be especially careful of uneven surfaces, ditch edges, etc;
- Working in front of and under the DZ Pickup is only permitted with fall protection installed under the harvester head of the combine harvester or carrier frame after the engine has been stopped and the ignition key removed.



If a part has become defective due to overload, the DZ Pickup is likely to have been affected too! Have the DZ Pickup checked by a competent agency or company.



4. Technical specifications

Working width	: 1.4m – 11	[metres]	
Tire circumference	: 1.75 – 2.75	[metres]	
Rotation speed	: 60 – 470	[∞ /min]	
Driving Speed	: 1 – 6	[Km/h]	
Hydraulic drive	: 9 – 60	[Ltr/Min]	note: 1 – 6 Km/h
System pressure	: 180	[BAR]	
Motor capacity	: 100/160	[CC]	note: 100cc < DZ 3.00 < 160cc
Weight	: 50-600	[Kg]	note: varies per type and option
Sound level	: Depending on combine harvester		
Conservation	: Electrolytically galvanised and/or (optional) Wet paint		
Hydraulic Oil	: ISO VG 46		
Tensioning device	: Two, one on each side, and varying from type one to three middle tensioners		

Options:	: Mechanical drive;
	: Freewheel;
	: Extended pick-up teeth (standard from 5.90 metres);
	: Fixed wheels contour following;
	: Swivel castors contour following;
	: Short crop input bracket “swath-down”;
	: Harvester head 3.10 – 7.60 metres;
	: Hydraulic pump set.



5. Transport, storage and end of service life

5.1 Transport instructions

After transport, check the DZ Pickup for damage. In the event of damage or defects to the DZ Pickup after transport, report this immediately to the transport company and ensure that the damage is repaired professionally.

In addition, the DZ Pickup must be adequately secured to the means of transport during transport. Use appropriate means to minimise the risk of falling during transport.



As soon as the DZ Pickup is unloaded, the supports supplied with it must be mounted. This must be done to prevent tipping over during storage.

For transportation on public roads, the local laws and regulations applicable to the local road traffic law and vehicle regulations must be observed. Observe the local permitted transport width. Among other things, use the correct lighting, reflectors, truncated triangle, registration plates and marking signs for long loads at the prescribed positions and distances. Ensure there is sufficient ground clearance.



Attention: Laws and regulations vary for each country and region.

5.2 Storage and protection

The DZ Pickup has been cleaned and protected before shipment. If the DZ Pickup needs to be stored for a certain period, put it in a dry room where no significant temperature fluctuations occur. In addition, the machine must be checked according to the maintenance schedule and the following actions must be performed:

- Thoroughly clean the entire machine;
- Check the machine for damage;
- Protect exposed parts;
- Check all parts for wear and replace them if necessary.

Separate all materials classed as chemical waste such as grease, lubricants, hydraulic oil, cloths contaminated with oil etc. Dispose of this waste in the correct way according to local legislation.



Attention: Store the DZ Pickup dry and moisture-free after use.



5.3 Service life

The working life of the pickup depends on intensity of use, maintenance, and the working conditions (dust, soiling, dampness etc.)

5.4 Reuse and scrapping

At the end of the service life of the installation or its parts, the materials and parts concerned must be reused or disposed of in an environmentally friendly manner. Any residual oil in the drive must be removed and disposed of in accordance with applicable local regulations. Any spilled oil or grease must be cleaned up immediately to avoid it coming into contact with surface or ground water.



Before cleaning, switch off motor first and remove key from the ignition.

6. Type en options

6.1 Type DZ Pickup

DZ Pickups are available in several versions

- Standard version [“DZ Type 3”](#)
- Double version [“DZ Type 4”](#)
- Extended version [“DZ Type 3L”](#)
- Test field version [“DZ Type W”](#)
- Swath pickup [“DZ Type K”](#)

Type K



Type 3

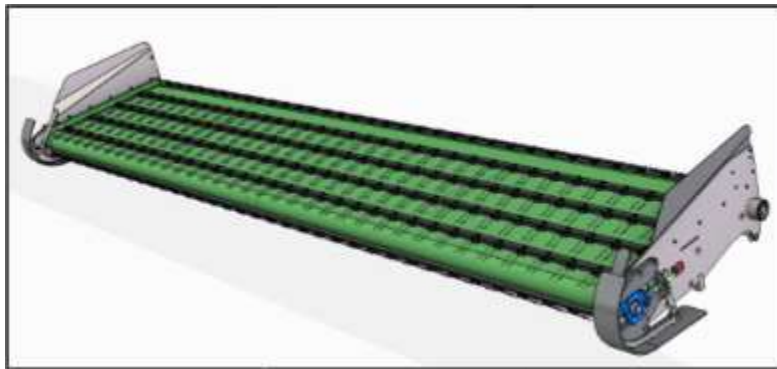


Type 3L



6.1.1 DZ Type 3

Standard DZ Pickups have a working width varying from 2.00 – 7.60 metres. The DZ Pickup consists of a frame, two circulation rollers (the rear roller of which is hydraulically driven as standard) and a pick-up cloth with pick-up tines. Starting from 2.50 metres, DZ Pickups are supplied with one or more middle tensioners.



6.1.2 DZ Type 4

The DZ Type 4 Pickups have a working width varying from 6.50 to 11.00 metres. Type 4 consists of two standard DZ Type 3 Pickups which are mounted side by side in a harvester head of a combine harvester. Both DZ Pickups each have an individual drive on the outside. The advantage of Type 4 is that both DZ Pickups can individually follow the contours of the field. Both DZ Pickups should be positioned centrally in the middle of the harvester head.



6.1.3 DZ Type 3L

DZ Type 3L Pickups are an extended version of Type 3 and have a working width varying from 2.00 to 4.20 metres. Extended means that the reversing rollers of the Pickup are 500mm further apart as compared with the standard version. This has the advantage that the pick-up angle decreases with the same harvester head height, resulting in smoother product flow. Like the standard model, the DZ Type 3L Pickup consists of a frame, two circulation rollers (of which the rear roller is hydraulically driven as standard) and a pick-up cloth with pick-up tines. The extended version of DZ Pickups is supplied with one middle tensioner.



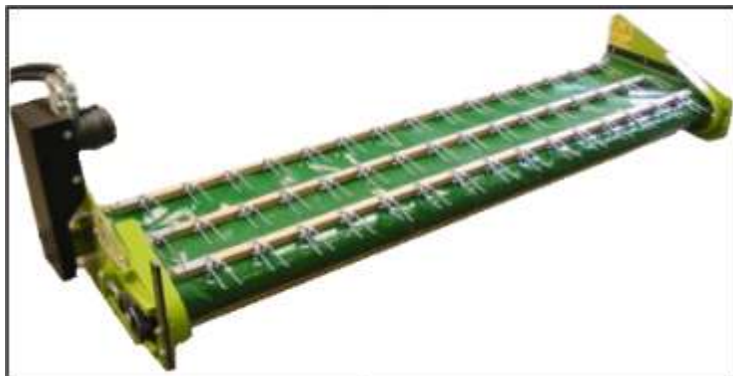
6.1.4 DZ Type W

Type W DZ Pickups have been especially developed for test field and small combine harvesters. High-quality seals, large cleaning holes and closed carriages offer the customer optimum protection against mixing of the crop. Type W is produced in widths ranging from 1.30 – 2.00 metres. This type is basically the same as the standard version without a middle tensioner.



6.1.5 DZ Type K

Type K DZ Pickups are a short variant, which is mainly used to lift the swath during the drying period to prevent further growth. These "swath pickups" are built in working widths of 1,50 – 2,50 metres. The Swath Pickups are hydraulically driven and can be built into a frame so that these swath pickups can be connected to an agricultural machine.





6.2 Drive

DZ Pickups are (in most situations) built into a combine harvester head and are driven by the combine's reel drive. The drive of the reel is then switched off. The drive can be mechanical or hydraulic. The DZ Pickup comes with a hydraulic drive as standard, and optionally with a mechanical drive. Mechanically driven DZ Pickups can be used up to a working width of 6.20 metres and DZ Pickups with hydraulic drive up to a maximum working width of 7.60 metres. Above 6.90 metres, a double drive is used, whereby the hydraulic drives are connected serially.

6.2.1 Mechanical drive

When there is no hydraulic drive on the harvester head, the DZ Pickup can be mechanically driven. The chain or V-belt that normally drives the reel is disassembled so that the reel is no longer operational. Next, a reversing device is mounted on top of the side of the harvester head, which causes the drive to be reversed in the direction of rotation. In addition, the speed is accelerated or slowed down in order to reach the desired pick-up speed. The drive can be mounted on the left or the right. A freewheeling clutch is mounted optionally, which prevents the DZ Pickup from rotating against the direction of rotation when the combine harvester turns in reverse.

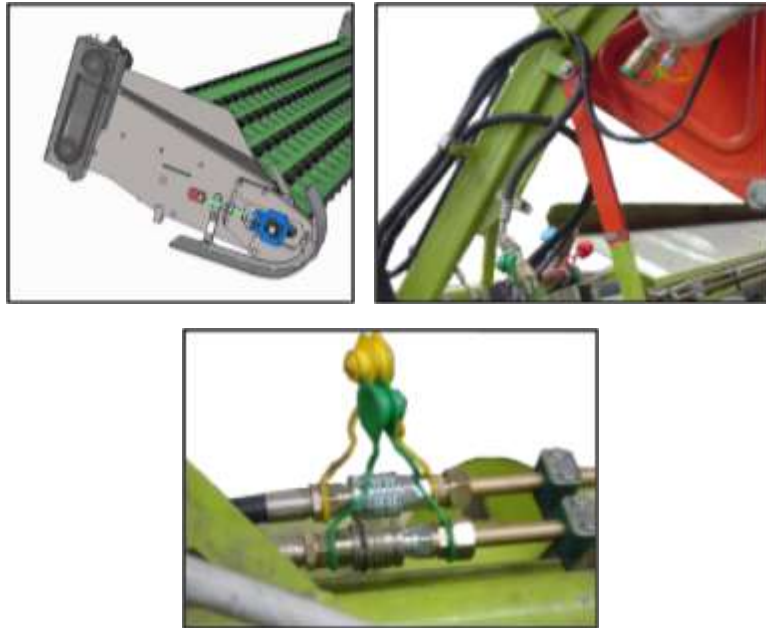




6.2.2 Hydraulic drive

The DZ Pickup is supplied as standard with a hydraulic drive, and can be mounted on the left or right as required. For larger models above 6.90 metres, the drive is double (left and right).

Each hydraulic drive is supplied with two 1-metre hydraulic hoses, with a blocking valve in the return. This blocking valve is intended to prevent the pick-up cloth from turning back. With hydraulically driven DZ Pickups, the hydraulic drive of the reel is used for the drive. In the drive to the reel, detachable connections are made with the quick couplings supplied, so that the DZ Pickup or the reel can be connected to it. This allows for quick disassembly and assembly of the DZ Pickup.



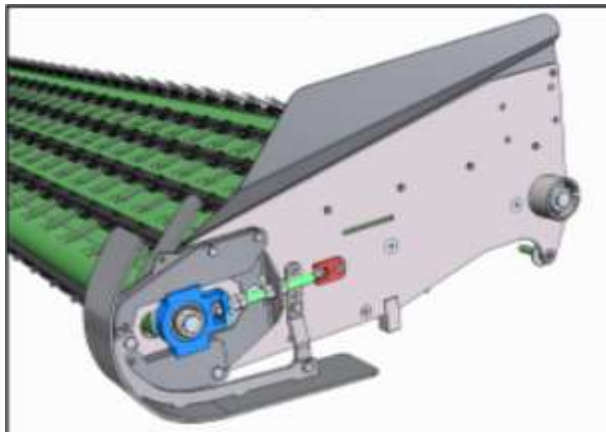
6.2.3 Hydraulic drive unit

If there is no hydraulic drive on the agricultural vehicle, there are various options to make this possible. Hydraulic sets are available for retrofitting on an existing machine.

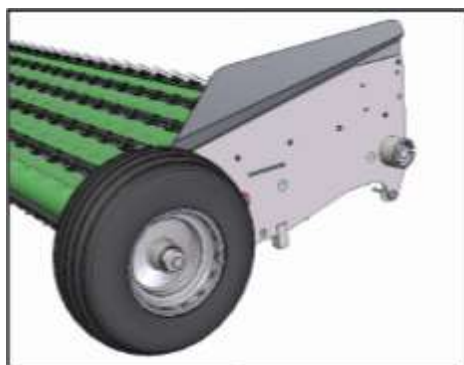
6.3 Contour-tracking systems

The DZ Pickup is available with three different contour-tracking options. The DZ Pickup is supplied with Hardox guide blocks as standard.

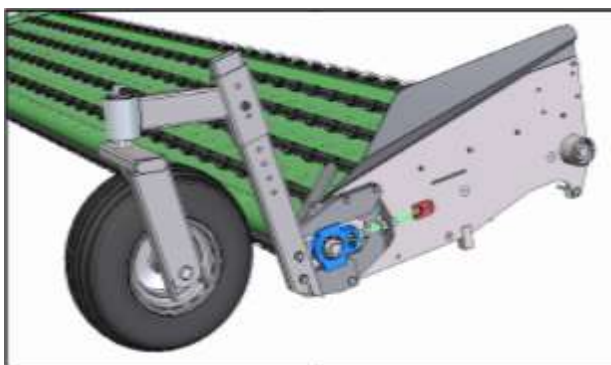
Standard : Hardox guide blocks



Optional : Fixed wheels



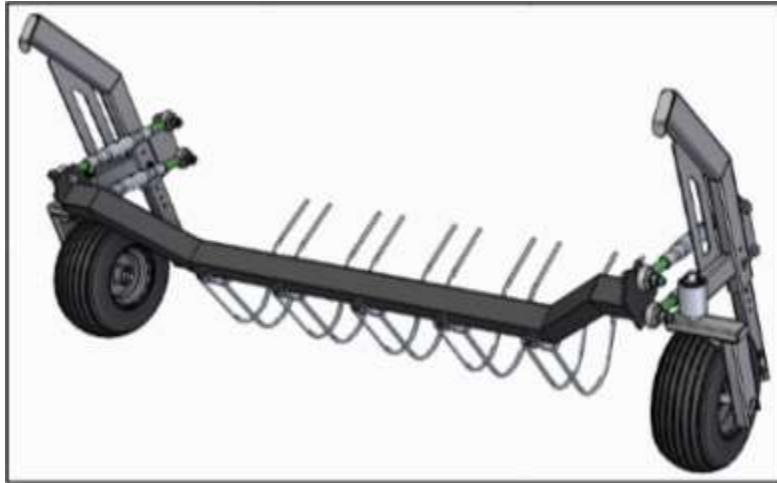
Optional : Swivel castors





6.4 Short-crop routing (Swath-down)

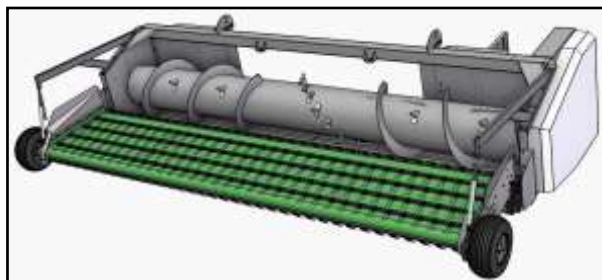
In 2019, the “Swath-down” option was introduced. The Swath-down option has been developed to make it easier to harvest short-cut crops. Spaciously curved pick-up tines prevent the product from rolling, which makes harvesting easier. The pick-up tines guide the product to the DZ Pickup.



6.5 DZ PICKUP harvester head

In order to waste as little time as possible on changeovers, or for ease of use, a total solution is also available. The DZ Pickup is then supplied in combination with a universal harvester head. This harvester head is suitable for any brand and type of combine, ranging from 3.10m to 7.60m wide. There are also various options for the drive. The function of the combine harvester's hydraulic reel can be used for the drive. In the absence of this, a separate hydraulic system can be mounted on the harvester head, “optionally”. Furthermore, a contour control option for the harvester head is available, according to the brand and type of combine harvester.

Various couplings and drives are available for each brand and type in order to connect the harvester head to the various types of combine harvester. These couplings are bolted to the harvester head.





7. Operation & commissioning

7.1 Operation

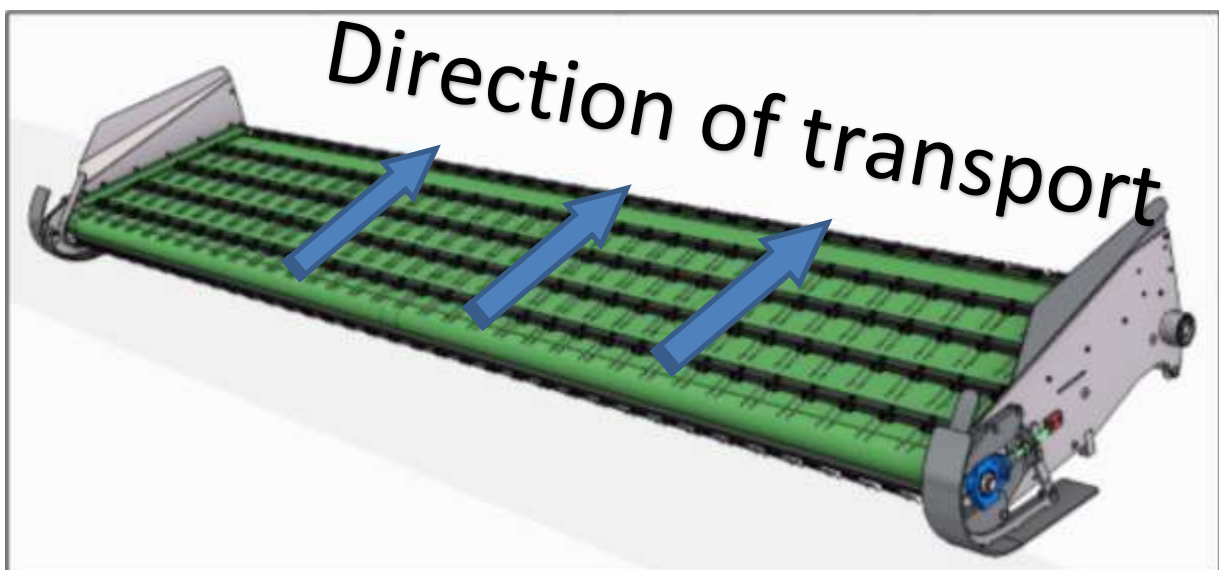
The definition “pickup” in fact already says something about the operation of the product. It is a conveyor belt that picks up the cut crop. The conveyor belt is equipped with high-quality synthetic plastic slats with pick-up springs attached to it, which ensure optimal crop intake. The closed cloth increases efficiency, because losses in the intake system are minimised.



The pickup should only rotate in one direction.

The correct direction of rotation is opposite to the direction of travel of the agricultural vehicle. The pick-up springs create a “scooping” movement and then transport the crop at the same speed as the driving speed across the DZ Pickup. Depending on the application, the harvested crop can then be transferred to the harvester, or returned to the field.

The pickup is driven by mechanical or hydraulic transmission.





7.2 Adjustment

Various adjustments can be made to the DZ Pickup, so you can adjust the machine to the best settings under most circumstances.

There is no adjustment setting that is ideal for all conditions.

7.2.1 Speed

The speed of the DZ Pickup should be set in such a way that the feed rate is proportional to the driving speed. The speed of the DZ Pickup can be adjusted depending on the composition. For a combine harvester, this is generally controlled by varying the reel speed.

Travel speeds can vary from 0-6 Km/h

7.2.2 Pick-up height.

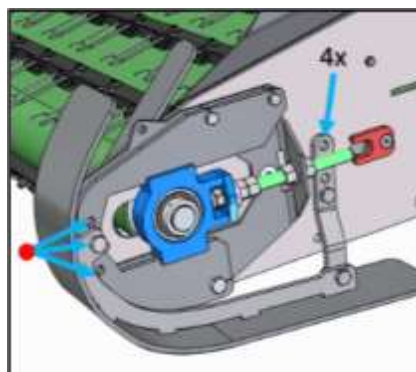
Depending on the version, there are height-adjustable guide blocks, fixed wheels or swivel castors on both sides of the pickup. These height-adjustable options must be adjusted so that the pickup has sufficient ground clearance. If the pick-up cloth touches the ground, the position of the pick-up cloth is too low and the risk of damage is very high.



Make sure that when the pick-up height is adjusted, both sides are adjusted equally.

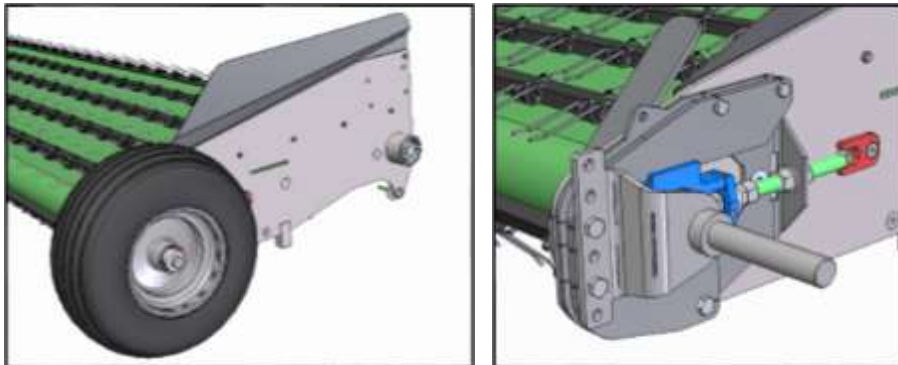
7.2.2.1 Guide blocks

To adjust the pick-up height, the guide blocks can be mounted in three different positions at the front, and the angle can be corrected at the rear by means of four holes.



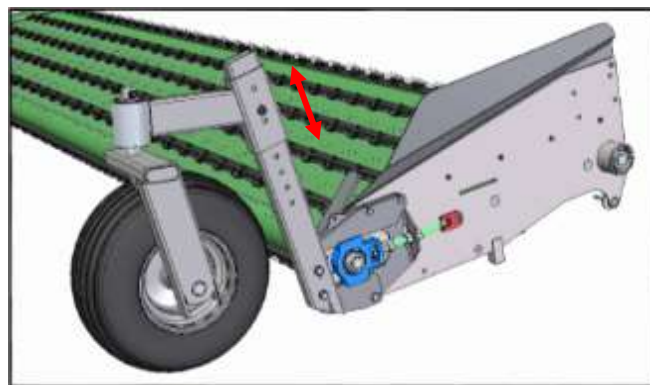
7.2.2.2 Fixed wheels

To adjust the pick-up height, the fixed wheel supports can be mounted at four different heights on the DZ Pickup.



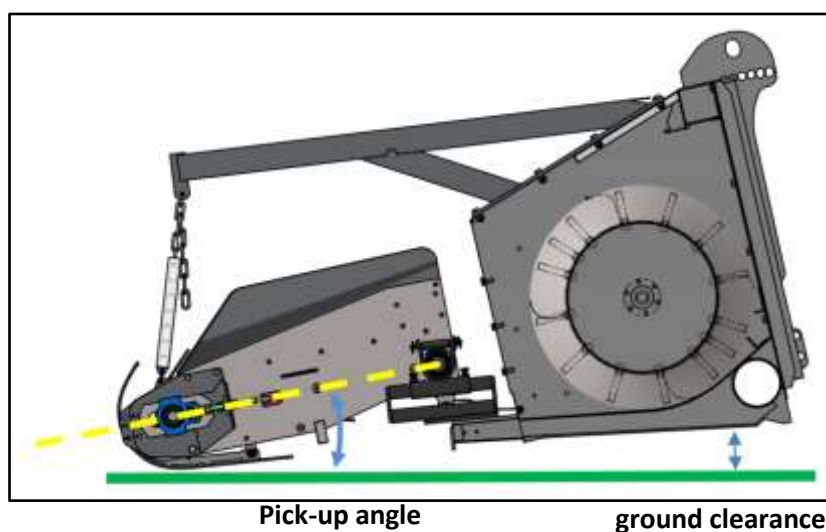
7.2.2.3 Swivel castors

To adjust the pick-up height, the swivel castors can be adjusted in height by selecting a different hole pattern.



7.2.3 Pick-up angle

The pick-up angle is determined by the height of the harvester head. A flat intake promotes product flow and intake. Please ensure there is sufficient ground clearance!

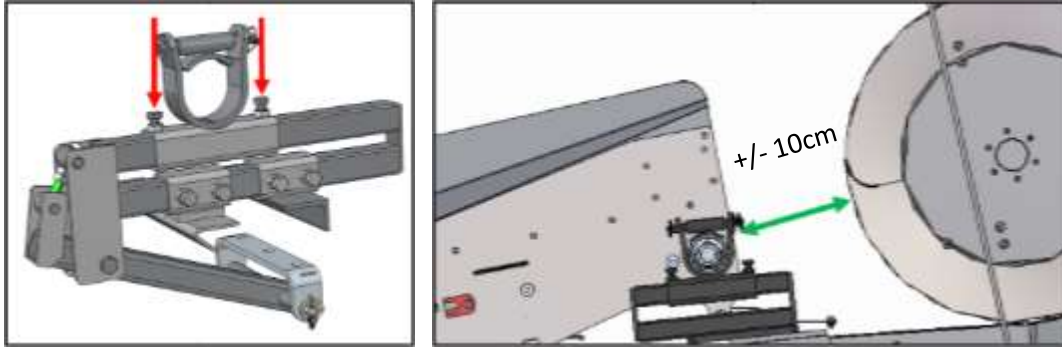




7.2.4 Distance to auger

Despite the great diversity in harvester heads, special harvester head supports have been developed. These supports can be used in 99% of cases. After mounting, the harvester head supports can move the DZ Pickup to the desired position, forwards or backwards.

By loosening both bolts, indicated below with red arrows, the catch can be moved to the desired position.



Basic adjustment: 10 cm from the pick-up spring to the pitch of the auger.

7.2.5 Pick-up cloth

Every DZ Pickup is extensively tested and adjusted by product specialists at A den Dekker & Zn bv. This ensures that you receive a high-quality, properly adjusted product. However, it may be that, for whatever reason, the pick-up cloth has to be tensioned or adjusted.

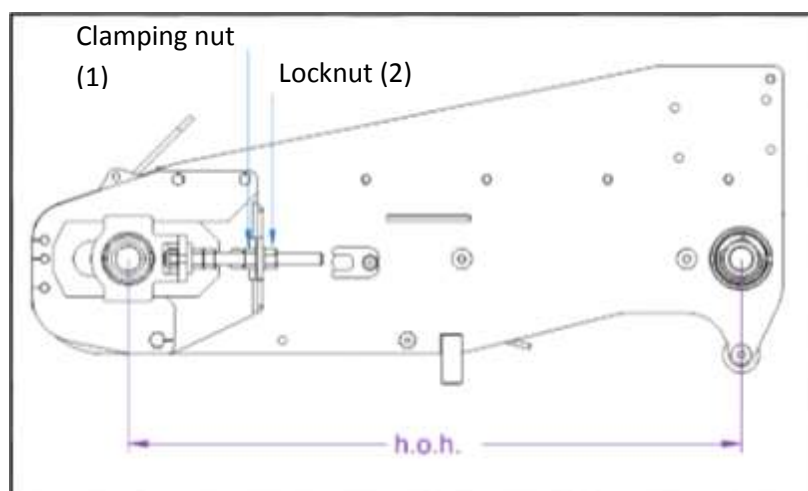
There can be various reasons why the fabric needs to be tensioned or slackened, possibly after repairs or if the pick-up cloth is not running straight.



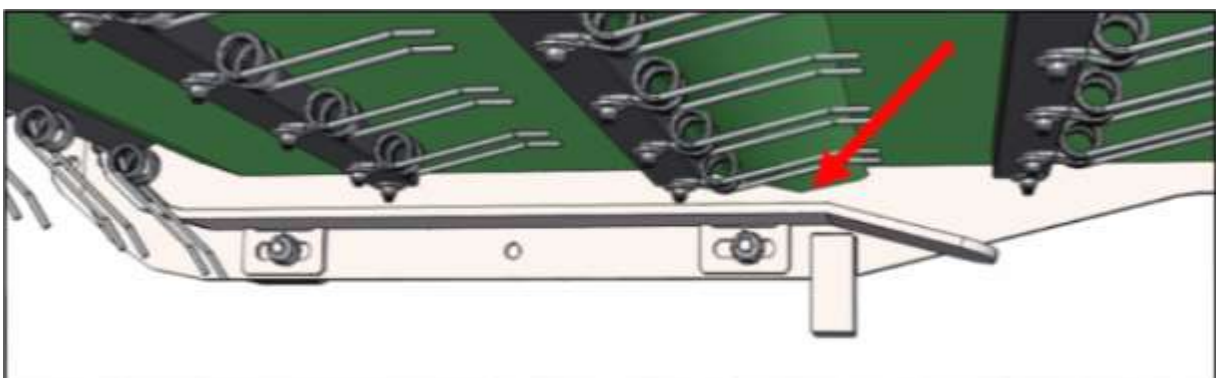
Read the procedure carefully before you start to adjust/correct the pick-up cloth. Serious consequential damage can be caused by incorrect handling.

Procedure for adjusting the pick-up cloth;

Check and align the centre measurements of the circulation rollers on both sides. The front circulation roller has a tensioning device. To adjust the sides, first loosen the lock nut (2) and then correct the centre to centre size with the clamping nut (1). After adjustment, the tensioning device must be secured again with the locknut (2).



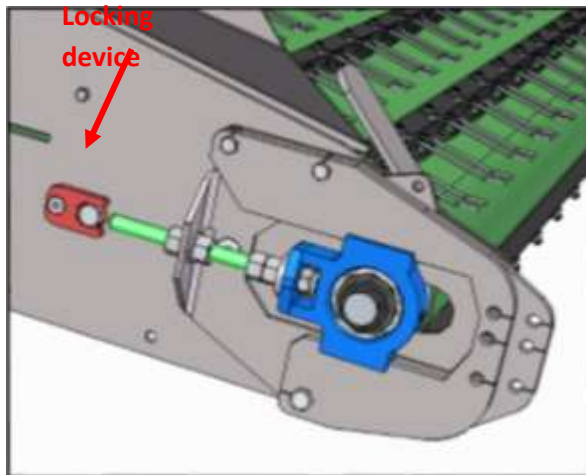
Tension the pick-up cloth so that the net runs freely between the protective bracket and the cover over the hinge (+/- 2mm). If the cloth is not sufficiently taut, there is a risk of slippage.





In order to be able to tension the pick-up cloth properly, one or more middle tensioners may be present in the DZ Pickup.

The middle tensioner can be operated from the left with a single tensioner. Before tensioning can start, the locking device must first be removed so that the tensioning device can rotate freely.



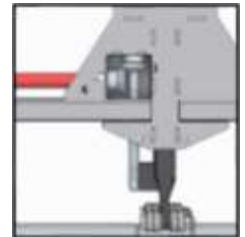
Central tensioner



Clockwise = tighten

Counter-clockwise = loosen

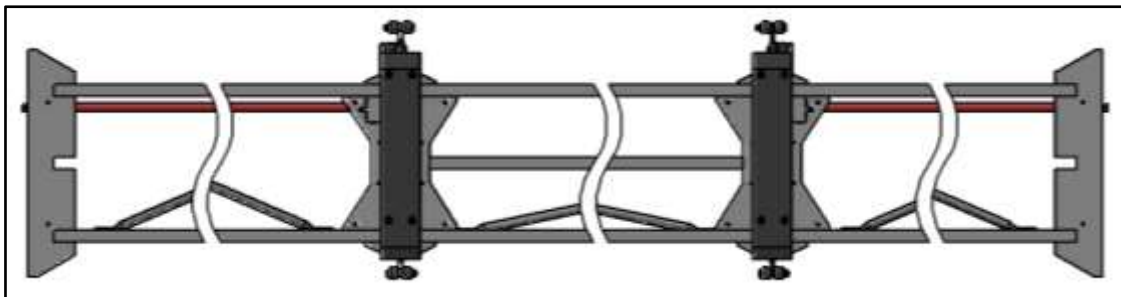
The middle tensioner is a right-angle transmission that converts a rotating movement into a translating movement.



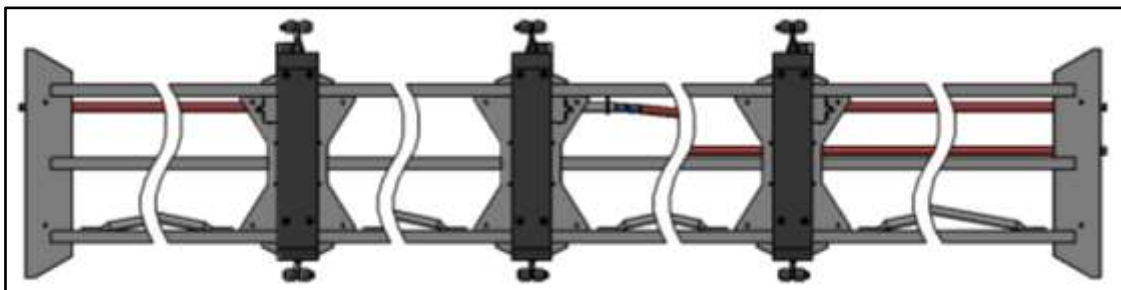
Two or three middle tensioners are used for DZ Pickups wider than 5.80 metres.

Image "Frame 1" has two middle tensioners (one on the left and two on the right).

Image "Frame 2" has three middle tensioners (one on the left and two on the right).



Frame 1



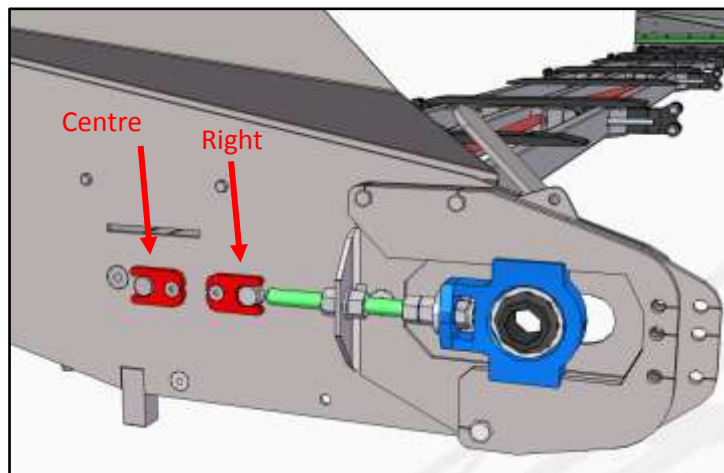
Frame 2

A DZ Pickup with three middle tensioners has two adjustment devices on the right side. The rightmost tensioner is for the right side and the left tensioner is for the middle tensioner.



Clockwise = Tighten

Counter-clockwise = Loosen



Do not forget to put the locking device of the middle tensioner(s) back after adjusting.

The middle tensioner must be tensioned just as tightly as the outer edges. This can be checked by lifting the pick-up cloth at the top (+/- 2 to 3 cm). The tension required to do this must be the same at the middle tensioner (s) of the DZ Pickup.

When the tension is practically the same everywhere, the DZ Pickup can be run.

If the tension is exactly the same everywhere, the pick-up cloth will run straight. If this is not the case, the pick-up cloth may run in front or behind. This can be corrected for each tensioning device.

When a part of the pick-up cloth is running ahead, it means that it arrives on the circulation roll earlier than the remaining part of the pick-up cloth. When a part lags behind, it means that it arrives at the circulation roller later. Running ahead and lagging behind is best assessed visually by the plastic strips on the pick-up cloth.

If a part of the pick-up cloth is running ahead, it means that this part has a shorter circulation compared with the other part of the pick-up cloth. Check the tension at this point. If the tension at this point feels lower compared with the other parts of the pick-up cloth, this tensioner should be tightened.



If part of the cloth is lagging behind, it means that this part has to travel a longer distance from the other part of the pick-up cloth. Check the tension at this point. If the tension at this point is higher in relation to the other parts of the cloth, you can choose to relax this part or tension the other parts. In doing so, please make sure that the cloth is not stretched too tightly.



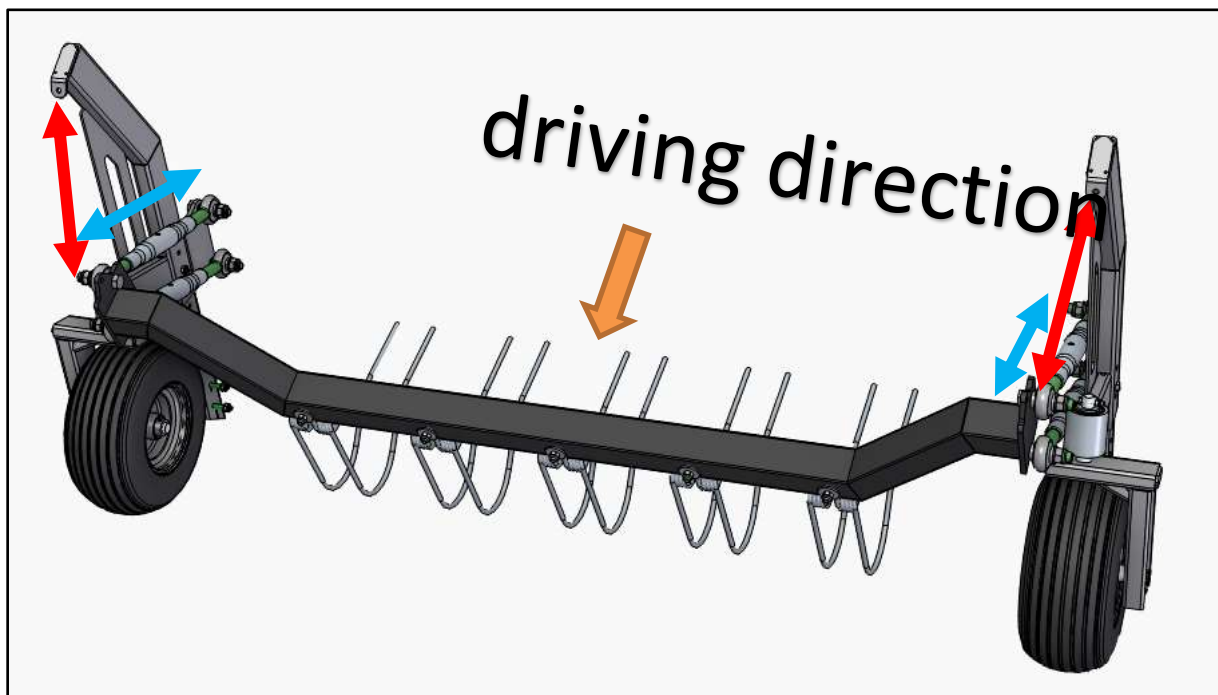
A pick-up cloth that is too tight can drastically reduce the service life of the DZ Pickup!



Do not forget to put the locking device of the middle tensioner(s) back after adjusting.

7.2.6 Swath-Down

The Swath-Down is an option used with short-cut crops and prevents the crop from rolling in front of the DZ Pickup. The Swath-Down is only possible in combination with swivel castors. The height of the spring bar is adjusted by means of chains (indicated by red arrows in figure Swath-Down 1). The position of the guide springs can be adjusted in angle and distance by turning the adjusting rods in or out (with arrows indicated in blue).



Swath-Down 1



Adjust the spring bar sufficiently high.



The pick-up tines must never touch the pick-up cloth!



7.3 Installation

This installation description is intended for mounting DZ Pickups of Type 3, 3L and 4 in an existing harvester head of a combine harvester. For installation, a minimum installation dimension is required that is 20 cm wider than the working width of the DZ Pickup.



ATTENTION!! The pickup may only be connected to an agricultural vehicle with a CE marking.

To install the DZ Pickup, the following items are required:

- DZ Pickup;
- Set of mounting brackets;
- Drive, mechanical or hydraulic;
- Suspension chains;
- Assorted fixing materials;
- User manual.

The DZ Pickup arrives as standard with the items mentioned above, which should be used to ensure a safe installation.



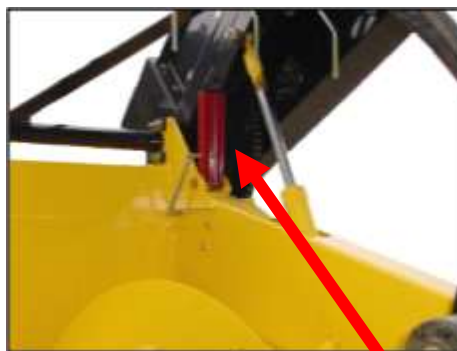
The DZ Pickup may only be installed using the original coupling devices that belong with this machine.

7.3.1 Fixing the reel

Before starting the installation, the reel must be brought to the highest position and then fixed in place. The fixation not only prevents the reel from causing damage to the DZ Pickup, but also ensures safe working conditions. (If there are no existing supports, these must be made)



Fixatio



Fixatio



7.3.2 Disconnecting the blade drive

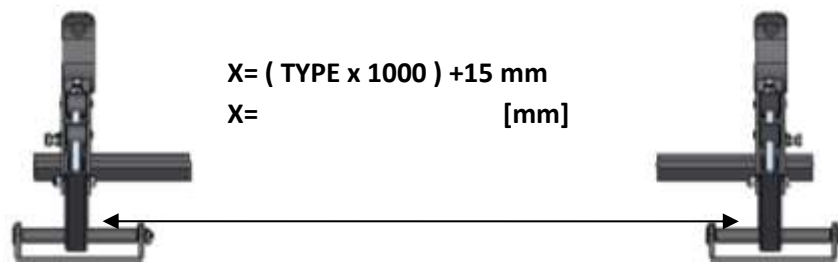
The blade of the harvester head is superfluous during harvesting with the DZ Pickup and must be switched off. The blade drive is switched off by removing the drive belt, after which the tension pulley and the pulley of the blade drive can rotate freely. If necessary, the entire blade can be removed to prevent knicks or other damage to the knife if possible.



7.3.3 Mounting harvester head supports.

When mounting the harvester head supports, determine the installation dimension first.

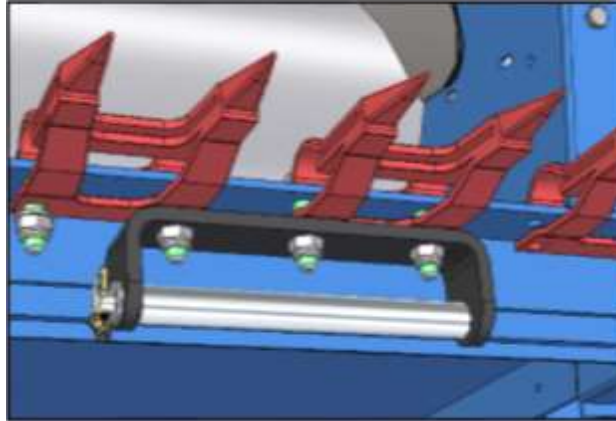
The installation size is the frame width + 15 mm. The width of the frame can be found on the name plate.



For example. DZ 2.00 has a frame width of 2,000mm and DZ 3.90 has a frame width of 3,900mm. The installation size is then 2,015 mm for a DZ 2.00 and 3,915 mm for a DZ 3.90.

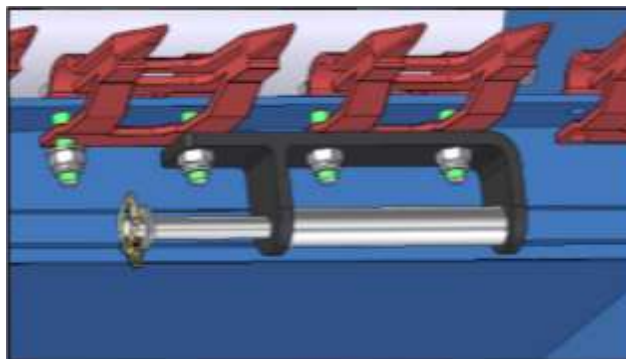


Once the size has been determined, the supports can be mounted in the harvester head. Starting with the two U-brackets at the bottom of the harvester headheader, as shown in the picture below. If the harvester head is wider, install the DZ Pickup as far as possible to one side in the harvester head.



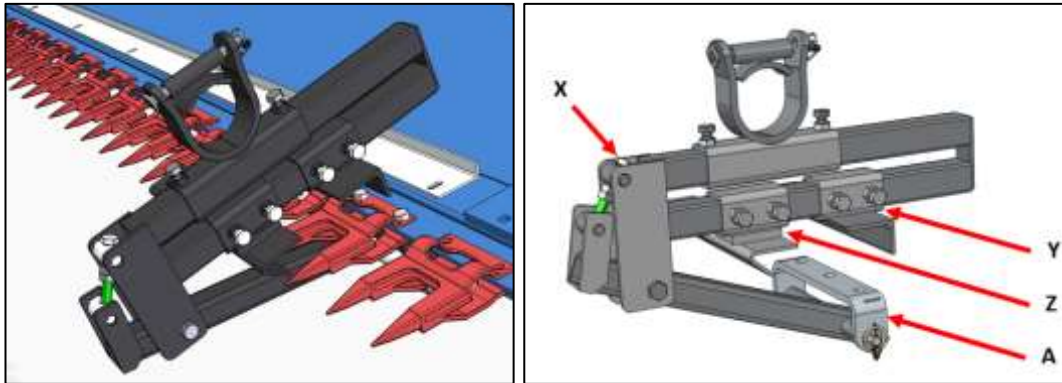
If the U-brackets do not fit, they must be modified once.

Example of modified U-bracket.





Once the U-brackets have been mounted on the underside of the harvester head, the supports can be built into the harvester head. Attach the bottom of the support to the U-bracket **(A)** and then slide the finger support **(Z)** over the fingers as much as possible. Secure them with the two bolts on the side. The clamping screw **(x)** may need to be turned to ensure a good fit. Next, the rear holder **(Y)** has to be slid behind the fingers, so that they catch behind it, and fix it with the two bolts on the side. When the support is in the correct position, Clamping screw **(X)** must be tightened with **85 Nm**.

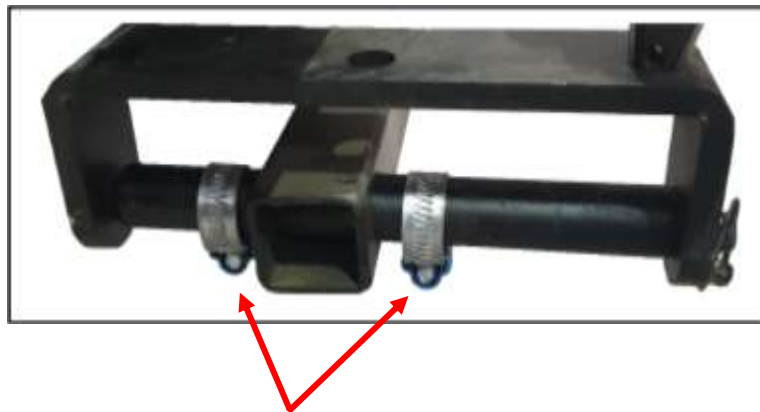


Harvester head support 1
Harvester head support 2



The supports may need to be modified to make them fit.

Check the installation dimensions again when both supports have been mounted. When these dimensions have been checked, both positions of the supports can be fixed with the supplied clamps. After fixing the position, the installation dimension does not have to be re-measured every time, which considerably shortens installation and removal time.





7.3.4 Installing the DZ Pickup

Once the supports have been mounted at the correct distance in the harvester head, the DZ Pickup can be mounted in the harvester head. First, open the catches by removing the locking pin and locking cap.



Place the DZ Pickup on a flat hard surface in front of the combine harvester.
To do this, use the support legs as indicated below.



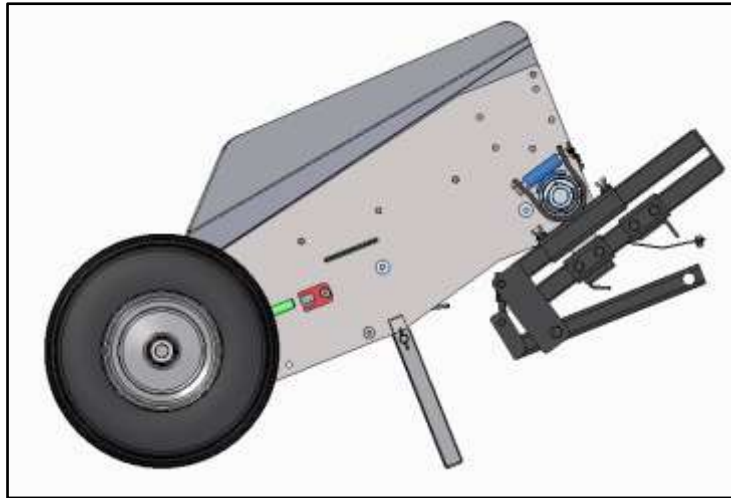
Next, the DZ Pickup can be carefully coupled to the rear of the combine harvester.



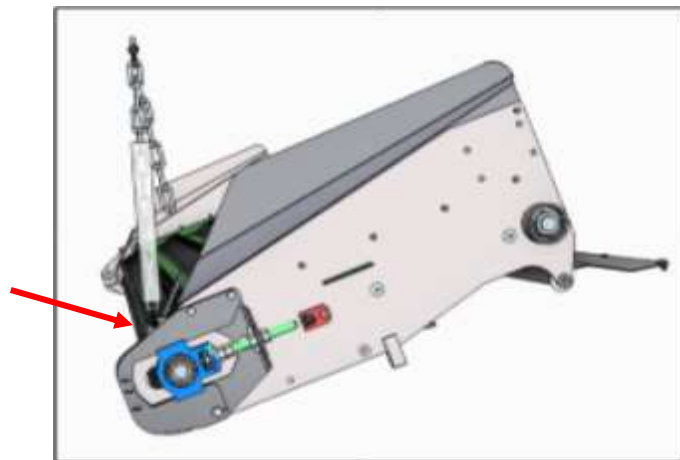
Make sure a second person is always watching to prevent mounting damage.



When the rear of the DZ Pickup is suspended in the supports, the locking caps must be replaced again, so that the DZ Pickup is fixed at the rear.



Attach the supplied suspension chains with protective sleeves to the designated lifting points on the DZ Pickup.





Lifting points may need to be created on the harvester head. Some examples are shown here.

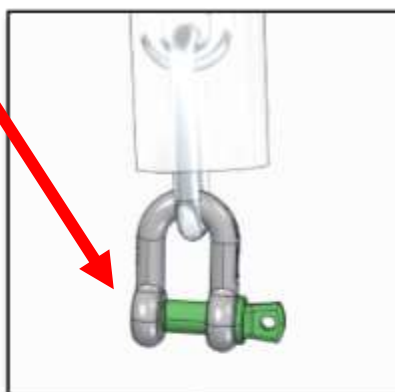
At the top, the suspension chains are wrapped around the reel and then joined together at the correct height.



At the top, the chain is attached to the arm of the reel.



Attention! Secure the shackles properly!





7.3.5 Drive

The DZ Pickup is available in two drive variants.

- Mechanical
- Hydraulic

7.3.5.1 Mechanical drive

Mechanically driven means that the DZ Pickup is driven by means of a chain or V-belt. A requirement is that the reel drive is disconnected from the harvester head. The mechanically driven DZ Pickups are driven indirectly, with the aid of a reverser, which in turn is (in almost all cases) driven by the harvester head reel drive.

The reverser is mounted on top of the side of the harvester head. A support is available for every type of combine harvester/harvester head, and included depending on what has been ordered. The reverser is equipped with a tensioning device on the input and output drives.

The mechanical drive must always be equipped with a freewheel device. This freewheel device is intended to prevent the pick-up cloth from turning backwards.

In addition to reversing the direction of rotation, the output shaft is also accelerated to achieve the correct pick-up speed. (*Deutz-Fahr is the only brand that slows down instead of speeds up.*)



Shields are supplied as standard. However, these shields are not always sufficient and the technician who installs the DZ Pickup must apply sufficient shielding.

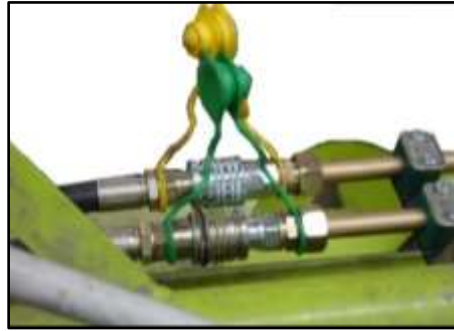


Attention! Make sure that the rotating parts are adequately shielded!

7.3.5.2 Hydraulic drive

Hydraulically driven means that the DZ Pickup is driven by means of hydraulic oil. DZ Pickups are easier to install compared with the mechanical drives. A requirement is that the drive of the reel that is mounted on the harvester head is interrupted. Hydraulically driven DZ Pickups are supplied with a pre-installed hydraulic motor. This hydraulic motor drives the DZ Pickup by means of a chain.

With a hydraulic drive, a detachable connection must be made between the drive of the harvester head and the drive of the reel. For this detachable connection, accessories are supplied with the DZ Pickup.



Always make sure the quick couplings are clean.

Use appropriate dust caps when the quick couplings have been disconnected.

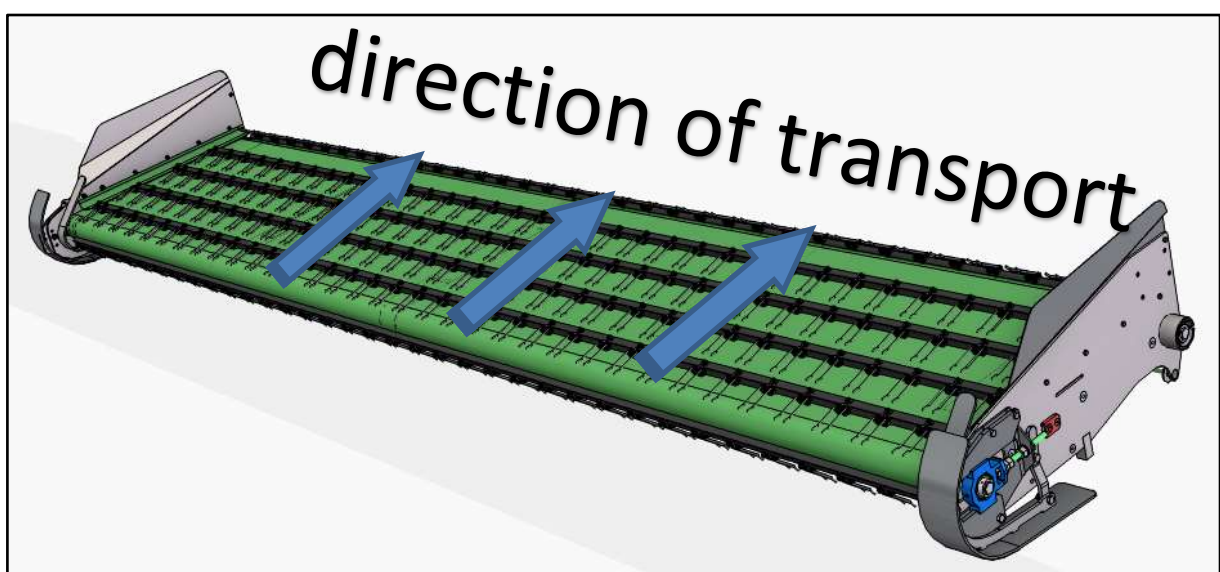


Connect the hoses of the DZ Pickup to the harvester head.

- The pressing side can be recognised by the green dust cap.
- The return side can be recognised by the yellow dust cap and the blocking valve.



!! Check the direction of rotation!!
the pick-up cloth should never be turning backwards.





7.4 Test run



It is forbidden to start the machine when persons are in the vicinity of the machine.



The operator is responsible for supervising third parties in the vicinity of the DZ Pickup.



Make sure that the pick-up springs cannot touch the ground during the test run.

Start up the combine harvester and engage the drive carefully. Watch and listen that all driven parts move smoothly and without noise or vibration, then increase the speed of the DZ Pickup and let it run for some time.



Make sure that the test run is done in a well-ventilated area.

Next, reduce the speed and disengage the drive. Turn off the vehicle engine and remove the ignition key.



After switching off the machine, wait until the DZ Pickup has come to a complete stop before carrying out the final check.

Perform the following checks:

- Check for rubbing and possible wear and tear;
- Check that all nut and bolts are securely fastened;
- Check that all locking pins are tight;
- Check the fastenings of the suspension chains;
- Check that the conveyor belt (s) continue to run straight, adjust if necessary ([Chapter 7.2.5](#));
- Check the drive, chains and/or V-belts.



9. Inspection and maintenance

In order for the DZ Pickup to work properly, it must be cleaned regularly, sometimes several times a day. In addition, this is done to establish signs of wear or possible damage.



Prevent the machine from being restarted while maintenance is being performed and remove the key from the ignition.



Firmly apply the brakes on the agricultural vehicle and place blocks in front of and behind the wheels to prevent rolling away.

Preferably clean the DZ Pickup with a brush or air pressure. For a longer service life and to prevent consequential damage, we strongly advise against cleaning the DZ Pickup with a high-pressure cleaner or water.

9.1 Lubrication and daily maintenance

O = oil G = grease D = daily W = weekly S = seasonal		O/G	D/W/S
1	Visual defects,		D
2	Forks and tubes of the drive shaft,	V	D
3	Check for loose nuts and bolts,		D
4	Check for loose pick-up tines,		W
5	Check the slats for breakage,		D
6	Check the tension of the V-belts and/or chain,		D
7	Check that the pick-up cloth runs true,		D
8	Check tension/wear of conveyor belt,		W
9	Check the grease level in the gear unit and top it up if necessary.	V	Every 2 years



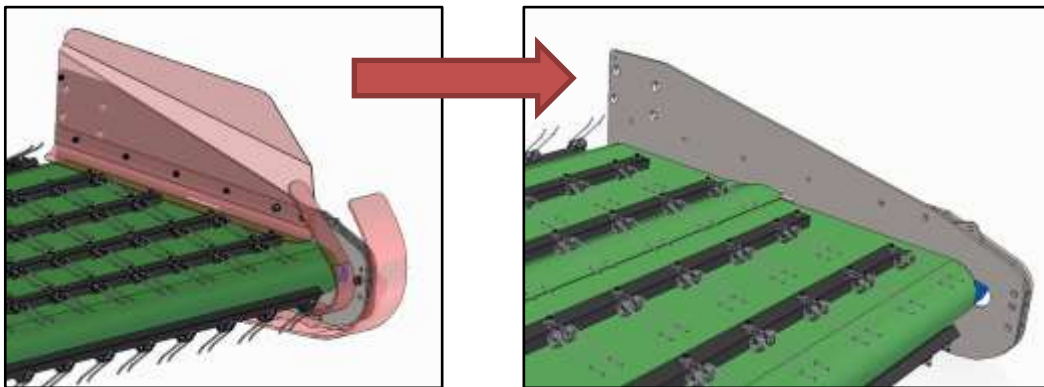
9.1 Maintenance

This maintenance work may only be carried out by a technician. Damage due to improper handling will invalidate all warranty and liability.

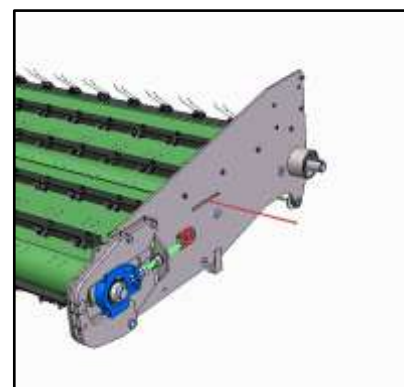
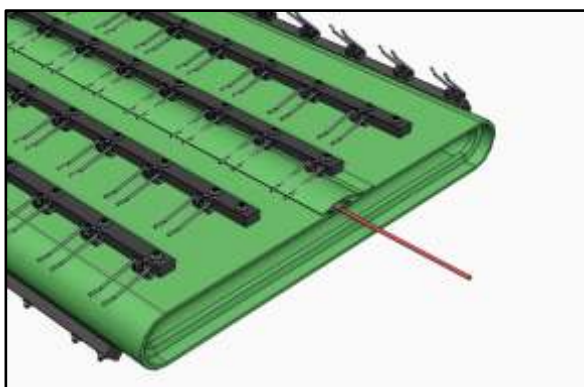
The markings on the DZ Pickup, such as the name plate, warning symbols, etc., must remain clean, free of paint and clearly legible. Missing or illegible markings must be replaced in good time. Avoid environmentally harmful situations (consult local authorities for disposal of replaced parts, oil, etc.) A den Dekker & Zn bv accepts no liability for any environmental damage whatsoever.

The pick-up cloth must be removed for the following maintenance and inspection points.

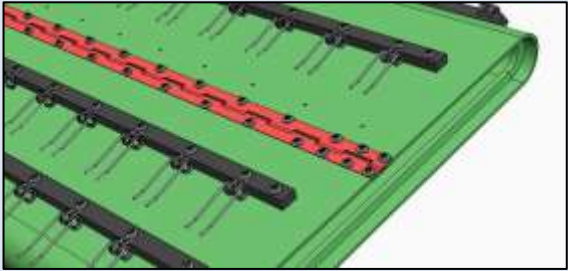
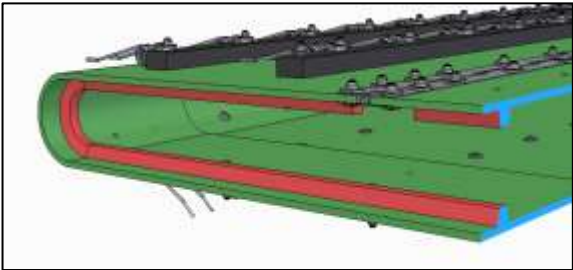
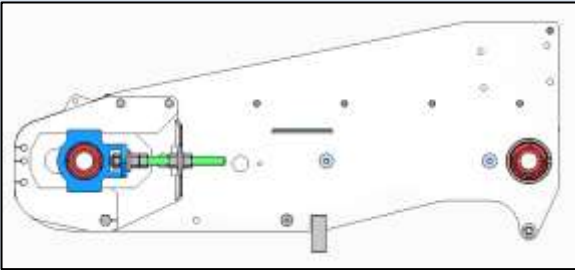

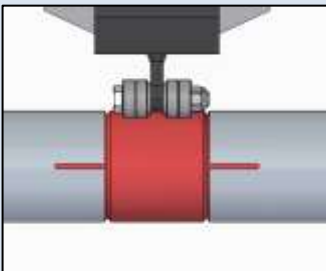
Before the pick-up cloth is removed, make sure that the division is centred on top. Next, remove the guide blocks, inner protective bracket and top plate with seal on both sides of the DZ Pickup. Make sure that the pick-up cloth is completely slack.


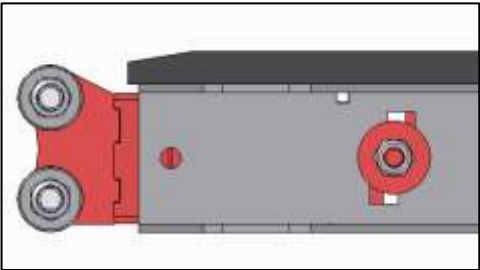
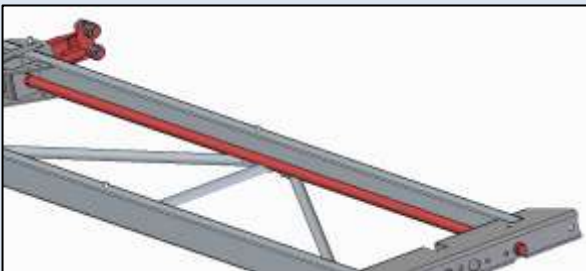



Remove the connecting bar from the pick-up cloth. Carefully tap the connecting bar out through the recess in the side plate with a punch and then pull the connecting bar out completely. When the connecting bar has been removed, the pick-up cloth can be removed from the frame





Maintenance schedule			interval
1	Check the pick-up cloth connection for tears and wear.		2 Yearly
2	Check the V-belt of the pick-up cloth for wear or loosening.		2 Yearly
3	Check the bearing of the circulation rollers for proper operation.		2 Yearly
4	Check and/or replace the bearing of the middle tensioner.		2 Yearly
5	Check the running-in of the middle tensioner on the circulation rollers <i>(Do not weld on light damage, but sand or grind it flat.)</i>		2 Yearly

Maintenance schedule			interval
6	If necessary, remove rust on the circulation rollers.		2 Yearly
7	Check securing of the middle tensioner behind the roller.		2 Yearly
8	Lubricate the moving and rotating parts of the middle tensioner and check for proper operation.		2 Yearly
9	Check wear plates for wear.		2 Yearly

The correct parts can be found in the spare parts book, supplied with the DZ Pickup.

The documentation can also be found at the following web addresses:

<https://www.adendekker.nl/dz-bandopraper/onderdelenboek>

<https://www.adendekker.nl/dz-bandopraper/gebruikershandleiding>



9.2 Maintenance log

The inspection and maintenance service guarantees a long and good service life for your DZ Pickup. Among other things, damaged parts are replaced or repaired. Damage repair is performed by a technician and according to the correct working method.

For general guidelines for maintenance of the DZ Pickup, please refer to [Chapter 3](#).

If in doubt about the nature of the work, please do not hesitate to consult your supplier.

Always keep an inspection and maintenance log of any work performed on the DZ Pickup.



Inspection point	20..	20..	20..	20..	20..	20..	20..	20..	20..	20..	20..

Inspection point	20..	20..	20..	20..	20..	20..	20..	20..	20..	20..	20..

Year + date	Work performed	Performed by



10. Malfunctions

Trouble shooting		Solution	
10.1 Pick-up cloth will not turn.			
V-belt or chain drive broken.		Repair the drive.	
Hydraulic hoses not or not correctly connected.		Check hydraulic hoses.	
Not enough hydraulic oil.		Top up hydraulic oil.	
Hydraulic valve defective.		Contact A den Dekker & Zn bv distribution partner.	
Hydro motor defective.		Contact A den Dekker & Zn bv distribution partner.	
10.2 Crop is not picked up sufficiently.			
DZ Pickup set too high.		Lower the guide blocks or wheels.	
Pick-up springs worn or broken.		Replace pick-up springs.	
Driving speed too high.		Reduce speed.	
Swath has continued to grow.		Mow again or pick up the swath again with the swath pickup. (Seed loss is highly likely in this case).	
10.3 Pick-up cloth slips			
Pick-up cloth insufficiently tensioned.		Check the tension of the cloth. See Chapter 7.2.5 .	
Pick-up cloth damaged.		Repair or change. Contact A den Dekker & Zn bv distribution partner.	
DZ Pickup is set too low.		Adjust the pick-up height correctly by adjusting the guide blocks or wheels.	



10.4 Pick-up belt not running in the centre

Soiling.	Remove soiling between the pick-up cloth and frame and circulation rollers. Release tension from the pick-up cloth by slackening and removing dirt.
Wear.	Check the adjustment of the pick-up cloth. Contact A den Dekker & Zn bv distribution partner.
V-belt has come loose from pick-up cloth.	Contact A den Dekker & Zn bv distribution partner.



11. Declaration of conformity



12. Addresses

Manufacturer

A den Dekker & Zn bv

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The Netherlands

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