

## USER 'S MANUAL

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### PICKUP TYPE 3 and 4

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Constructie- en Landbouw Mechanisatiebedrijf

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## TABLE OF CONTENTS

<b>Chapter</b>	<b>1</b>	<b>INTRODUCTION / GUARANTEE / DEFINITIONS / SYMBOLS</b>	<b>3</b>
<b>Chapter 2</b>		<b>TECHNICAL SPECIFICATIONS / DESCRIPTION</b>	<b>5</b>
	2.1	Identification	5
	2.2	Technical information and dimensions	5
	2.3	Version	6
	2.4	Use	6
<b>Chapter</b>	<b>3</b>	<b>SAFETY REGULATIONS</b>	<b>7</b>
<b>Chapter</b>	<b>4</b>	<b>GETTING STARTED/OPERATION</b>	<b>11</b>
	4.1	Operation	11
	4.2	Mounting the pickup	12
	4.3	Adjusting the pickup belt	15
<b>Chapter</b>	<b>5</b>	<b>USE</b>	<b>17</b>
	5.1	Operator	17
<b>Chapter</b>	<b>6</b>	<b>MAINTENANCE</b>	<b>19</b>
	6.1	Lubrication and maintenance schedule	19
	6.2	Cleaning	19
	6.3	When not in use	19
<b>Chapter</b>	<b>7</b>	<b>THE ENVIRONMENT</b>	<b>19</b>
	7.1	General	19
	7.2	Consequences for the environment	20
<b>Chapter</b>	<b>8</b>	<b>TROUBLE SHOOTING</b>	<b>21</b>
<b>Chapter</b>	<b>9</b>	<b>DECLARATION OF CONFORMITY</b>	<b>22</b>

**1 INTRODUCTION / GUARANTEE / DEFINITIONS / SYMBOLS**

Purchasing this pickup was a good choice!

You have bought an excellent item of equipment, which has been carefully constructed and produced.

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

This instruction manual must be given to every user of the machine and kept near the pickup during operation.

All those working with the pickup must read the manual and observe all the instructions it contains.

This instruction manual only applies to the pickup.

The manual supplied by the manufacturer of the combine harvester applies to the combine. If you do not have a copy of the instruction manual, we urge you to order a copy from your dealer or the manufacturer.

We advise you to carefully read this manual and strictly observe all the instructions it contains

A. den Dekker & ZN. B.V. cannot be held liable for any direct or indirect damage caused by or as a result of operating errors, inadequate maintenance, or use of the machine other than that described here.

Any liability of A. den Dekker & ZN. B.V. ends as soon as the user and/or a third party carries out any activities such as modifications or extensions to the pickup without our prior written permission.

A. den Dekker & ZN. B.V. strives to continually improve products and services.

A. den Dekker & ZN therefore reserves the right to modify the specifications in this manual at any time and without prior notice.

**Guarantee**

We guarantee the suitability and soundness of the equipment we supply, regarding material and/or construction errors. However, this guarantee is limited in all cases to the free replacement or repair of faulty parts or parts of them for 1

year after the date of delivery.

The pickup was supplied under the COM terms of payment & delivery contained in the latest version of the text filed with the Clerk to the Court at Utrecht.

A. den Dekker & ZN B.V. and is stated on the invoice. These General Terms & Conditions have been filed at the Chamber of Commerce, Brabant.

## **Definitions**

The terms used in this user's manual are;

Combine harvester = combine harvester with attached baler pickup.

Left / right = direction viewed from behind the machine, facing in the direction of movement.

Operator : The person who operates, monitors and checks the combine harvester for proper functioning and who is able to start, stop the machine etc.

It is the responsibility of the company owning the machine to ensure the operator is adequately and properly trained.

Hazardous areas : Areas in or in the vicinity of the pickup where injuries can occur.

Maintenance engineer :The person with knowledge of all functions of the pickup and able to perform maintenance to it.

The maintenance engineer is acquainted with the functions and safety regulations of the pickup, and is properly trained to maintain the machine.

It is the responsibility of the company owning the pickup to ensure maintenance engineers are adequately and properly trained.

## **Safety symbols**

Various standardized safety symbols as illustrated here are attached to the pickup.

The upper part warns against a general or specific hazard.

The lower part indicates the type of hazard and states what you should/should not do.



## 2 TECHNICAL SPECIFICATIONS / DESCRIPTION

### 2.1 Identification

The type identification plate is located on one of the side panels

The identification plates states e.g. the type n° DZ 2.00

DZ stands for Dekker - Windrow pickup.

2.00 stands for 2.00 cm working width.

### 2.2 Technical information and dimensions

Type		3	4
Width	cm.	120 to 620	up to 11 mtr.
Length	cm.	110 to 170	110 to 170
Height	cm.	60	60
Working width	cm.	100 to 620	740 and above
Weight	kg.	Depending on working width	
Drive system		<ul style="list-style-type: none"> <li>- power take off / gearbox</li> <li>- 1x Hydro-motor or 2x Hydro-motors</li> <li>- Hydro-pump with Hydro-motor</li> </ul>	
Power take off speed		Max. 200 revs/min.	
Maximum belt speed		m/min. 5.5	5.5
Capacity gearbox		1 kg BP Energrease FG-00-EP grease	
Hydr.pressure max.		200 bar	

### 2.3 Version

\*

The standard pickup type 3, up to a working width of 6.2 metres, is constructed

from a welded steel frame which incorporates:

- 2 rollers, of which 1 is driven.
- a v-belt or sprocket wheel drive, gearbox, chain drive and possibly a retractable connector.
- transport belt with pickup tines.

Type 4 is a system with 2 adjacent pickups, each with their own drive on the outer side.

Drive using Hydro-motor(s) or Hydro-pump with Hydro-motor(s) is also possible.

## **2.4 Use**

\*

The pickup may only be used to pick up previously harvested grass which is in a windrow, or another crop that has already been harvested, for threshing grass seed or seed.

\*

The pickup has been constructed for use on fields and pastures that are free of stones, large and heavy plant roots and tree roots.

\*

Only use the pickup for the purpose for which it was designed.

\*

The pickup must be mounted onto the harvesting head of the combine harvester

\*

When transported over the public roads the provisions of the Highway Code apply, with all corresponding regulations, including the vehicle regulations.

Observe the local permitted transport width.

Use the correct lighting, reflectors, slow moving vehicle sign and long vehicle warning signs in the prescribed positions and distances.

Ensure there is sufficient ground clearance.

\*

Only original "Den Dekker" certified parts and accessories below may be used on the pickup.

A. den Dekker & ZN. B.V. cannot be held liable for any damage and consequential

damage resulting from the use of parts other than “original” parts supplied by us.

### 3 SAFETY REGULATIONS

The pickup is mounted onto the combine harvester as an accessory, these safety regulations only apply to the pickup.

Please also read the safety instructions with the combine harvester.

\* The symbols shown here are also attached to the pickup.

**Familiarise yourself with these symbols and their meanings.**

#### 1 Caution!



Carefully read the user's manual supplied with the pickup to familiarise yourself with the purpose of the settings, supports and couplings before starting to operate the pickup.

#### 2 Caution!



**Attention!**

**With maintenance activities;**

- consult the user's manual first
- stop the combine harvester and remove the ignition key from the ignition to prevent the machine from being started
- ensure the brake of the combine harvester is on properly
- support the pickup so that it cannot lower
- places chocks in front of and behind the wheels before starting maintenance.

This will help prevent dangerous situations if the combination is suddenly activated.

**3 Caution!**



**Danger of serious injury by becoming trapped.**

**Keep a safe distance from the V-belt and/or chains and the drive shaft(s) if the combine motor is running.**

**Ensure the connectors are well shielded.**

**Clothing, hands and hair may become entangled in moving parts of the machine.**

**This will have serious consequences.**

**4 Caution!**



**Danger of serious injury due to collision.**

**When driving the machine ensure that no-one is in the path of the pickup.**

**5 Caution!**





**Danger of moving sharp pickup tines and pickup belts.**

Do not come close to the pickup tines until they are completely motionless.

Only clean the pickup tines once the combine harvester motor and drive shafts are completely motionless and the combine motor has been switched off.

**Keep your hands and feet away from a working pickup.**

Keep at a distance of at least 5 metres from a working machine. Remember that a machine can still run for a short while after it has been switched off. Wait until the machine is completely motionless.

#### **6 Caution!**

Serious injury can occur if the machine is operated by;

- persons under 18
- persons who have no experience of driving a combine harvester
- persons from whom it cannot be expected that they (fully) recognise the hazards of the combine harvester.

For example seasonal labour, people with a fear of heights, etc.

The combine may only be driven by a person who has carefully read and understood the instructions in the user's manual and has been instructed by the owner of the combine about operation of the machine and the safety instructions.

#### **7 Caution!**

**Danger of serious injury.**

The pickup must NEVER be used to carry persons.

#### **8 Caution!**

**Danger of serious injury by becoming trapped.**

Working in front of and below the pickup is only permitted;

- if fall protection has been mounted underneath the harvest head.
- the combine motor has been switched off and the key removed from the ignition.

#### **9 Caution!**

Ensure that all protection devices have been mounted onto the combine again before using the machine after maintenance activities.

Ensure that the pickup is “ALWAYS” attached to the combine harvester using the original attachment devices, connecting pins, safety springs and top chains.

#### **10 Caution!**

Controlling the combine harvester with pickup.

When driving the combine with pickup, adapt your driving speed to suit the prevailing conditions.

Ensure you have control over the combination at all times.

- Slow your speed on uneven ground and in sharp bends.
- Apply caution when reversing.

#### **11 Caution!**

Ensure that a new operator of the combine is aware of the safety instructions before using the machine.

#### **12 Caution!**

If the combine harvester does not have a closed cabin, the operator must wear hearing, dust and head protection.

#### **13 Caution!**

Check the machine regularly for loose nuts and bolts.

See chapter 6.

#### **14 Caution!**

Be aware of the risk of serious injury when using public roads.

Observe the relevant provisions of the Highway Code.

Pay attention to your max. speed, lighting, markings, maximum width, etc.)

#### **15 Caution!**

There is a risk of serious injury being suffered or caused if parts and accessories other than the original Den Dekker or CE-certified parts and accessories are used.

#### **16 Caution!**

There is a risk of serious injury being suffered or caused if maintenance and repairs are performed by persons not authorised by Den Dekker.

#### **17 Caution!**

THE OPERATOR DETERMINES THE 'SAFE WORKING' LIMITS WHEN USING THE COMBINE HARVESTER/ PICKUP COMBINATIONS DO NOT TAKE ANY RISKS!

PAY ATTENTION TO UNEVEN GROUND, BANKS OF DITCHES

#### 4 GETTING STARTED/OPERATION

##### 4.1 Use

\*

The upper side of the transport belt with pickup tines moves in the opposite direction to the combine harvester over the field. The pickup tines attached to the transport belt lift the mowed grass etc. from the field and the transport belt feeds the product into the combine harvester.

\*

The pickup is driven by the drive on the harvester head of the combine harvester or by Hydro-motors.

The V-belt (optional chain) drives the gearbox. The rotational direction is reversed in the gearbox. From the gearbox a chain with sprocket wheel drives the pickup (optional hydraulic drive). A retractable shaft fitted with universal joints is also possible.

\*

The height of the pickup is regulated by the combine drive system.

At the side of the pickup height adjustable skids have been mounted to prevent the transport belt with pickup tines touching the ground and becoming damaged.

Wheels may be placed instead of skids.



\*

The pickup is suitable to be attached to the harvest head of the combine harvester using special accessories.

\*

The pickup may only be connected using the original connection devices that belong with this machine.

\*

The pickup may only be connected to a combine harvester which has CE- marking.

#### 4.2 Mounting the pickup



\*

Mount header support (5) using met locking pin (3). Then tighten adjustment bolt (2) (turn to left).

\*

Couple pickup using lock pins.(4)



\*

Mount the drive unit to the harvest head using 3 or 4 bolts.

Check that all the nuts and bolts are securely tightened.

\*

With drive using a power take off;



Check if the drive parts extend and retract smoothly.

For a long working life of the drive shaft the angles through which the drive shaft must move should be as small as possible, preferably not greater than 15°.

\*

Place the winch supports (1) between the harvest head and the winch.



\*

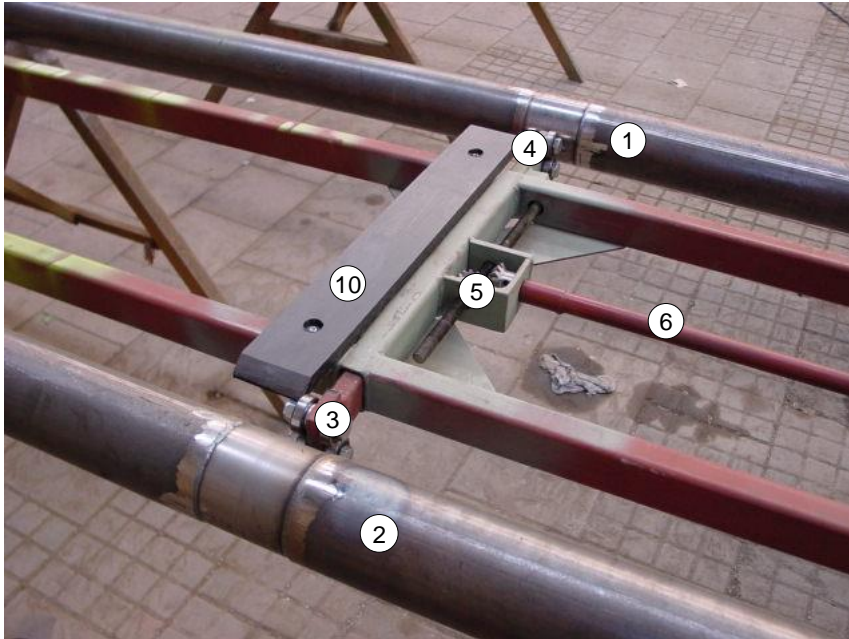
Place the top chains on the winch



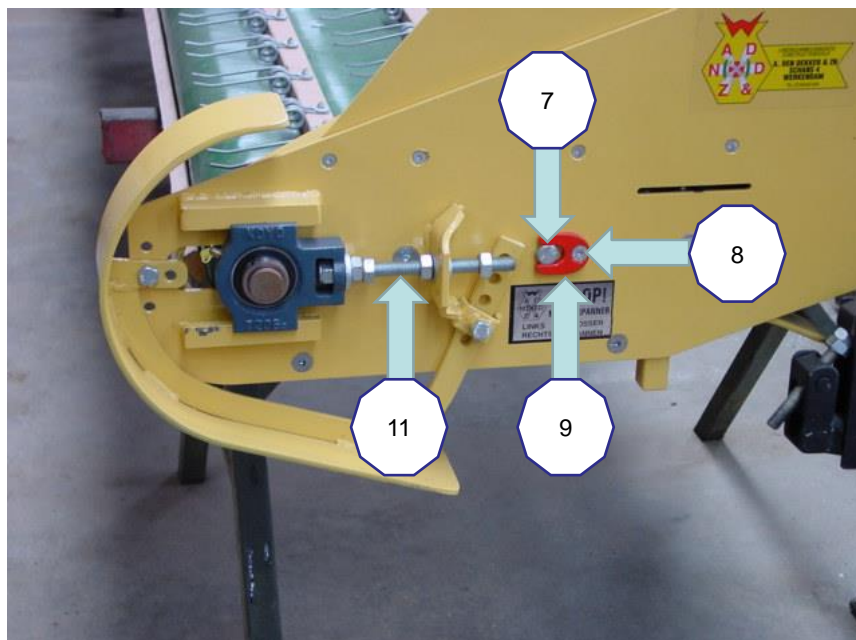
\*

Raise the harvest head and check if the pickup lifts above the ground to an equal height on the left and on the right. If necessary, adjust the height by making the chain longer or shorter.

#### 4.3 Adjusting the pickup belt



- 1 Front tension roller
- 2 Driving roller
- 3 Thrust bearings drive roller
- 4 Thrust bearings front roller
- 5 Tensioner front roller
- 6 Drive shaft front tensioner
- 10 Slide strip pickup belt



- 7 Bolt middle tensioner front roller
- 8 Securing bolt tightening part middle tensioner
- 9 Tightening piece to secure middle tensioner
- 10 Adjusting front roller with threaded end and adjusting nut
- 11 Adjusting lock nut front roller

\*

**The tension on the pickup belt(s) must be such that at the centre of the belt there is movement of 2.5 to 3.5 cm.**

\*

The rollers can be adjusted in 3 places so the pickup belts run properly in the centre of the frame.

1st adjustment      Adjustment (11) front roller (tension roller 1).  
Tension both sides (11), check tension (3-5 cm)

2nd adjustment      The centre adjustment with screwing spindle (7) and thrust bearings (4).  
Demount securing bolt (8) and remove (9) Red tensioner.  
Tension so that the roller is tensioned straight; if the slats run forward, then loosen slightly; if the slats run backwards, then tighten slightly.

3rd adjustment      The side the pickup belt must move towards should be tensioned a little tighter on the left (11) or right (11).  
Then compensate the centre adjustment.



Secure the screwing spindle (7), using securing bolt (8) and Tensioner (9) and securing.

\*

Carefully switch the drive on and look and listen to check that all the driven parts are running smoothly and without unusual noises or vibrations.

Check if the transport belt(s) keep running precisely in the centre of the frame, if necessary adjust the transport rollers.

**After the screwing spindle (7) has been adjusted, always tighten the safety plate (9) using bolt (8).**

\*

**Test run.**

- Make sure that the pickup tines cannot touch the ground or the harvest head during the test run.
- If the combine harvester has a reverse feature, the drive of the pickup must be fitted with a freewheel clutch. (see list of parts).

**Avoid serious damage to the belt lifter, this cannot run in reverse!**

## **5 USE**

\*

The pickup may only be operated by experienced operators who are familiar with the pickup, provided they are fully aware of the instructions in the user's manual.

\*

Make sure that the safety features, such as guards and securing springs and protection bars are in place during use.

\*

**Only use the pickup if you have carefully read and fully understood the previous pages and you have no questions.**

\*

**Drive slowly until you are familiar with the machine; avoid driving at high speed around sharp bends and on uneven surfaces. Ensure there is sufficient ground clearance.**

\*

Check that all nuts and bolts are securely fastened.

\*

If you touch an obstacle, immediately check whether the pickup tines or the transport belt and the transport rollers are damaged or bent.

\*

Check that all the tension pins and safety springs are attached properly.

\*

With a new machine, check if all the nut and bolts are still securely fastened after 1 hour of operation.

## **5.1 Operator**

\*

Only persons who have followed sufficient (internal) theoretical and practical training to drive the pickup are permitted to work with the machine.

The training program must address the following;

- application, use and limitations
- adjustment and operating components
- safety regulations
- daily and periodical maintenance

\*

The operator must also be fully aware of the contents of this user's manual.

\*

Serious injury can occur or be caused if the pickup is operated by;

- unauthorised persons
- persons under 18
- persons from whom it cannot be expected that they (fully) recognise the hazards of the pickup.

## 6 MAINTENANCE

### 6.1 Lubrication and maintenance schedule

o = oil g = grease d = daily w = weekly s = seasonal

		o / g d / w / s		
1	forks and pipes in the drive shaft	g	d	
2	check if nuts and bolts are secure		w	
3	check tension of V-belts and/or chain tension		w	
4	check tension / wear and tear transport belt		w	
5	check grease-level gearbox, top up if necessary			s
6	check wear and tear to bearings			s
7	lubricate screwing spindle and adjustment parts	o		s

### 6.2 Cleaning

The pickup must be cleaned regularly, sometimes several times a day to ensure good functioning of the machine and so that any wear and tear or damage can be signalled in time.

Preferably clean the pickup using compressed air (or a high-pressure cleaner).

Prevent damage to the seals of the bearings; do not spray directly onto the shafts.

### 6.3 When not in use

If the machine is not used for a lengthy period, see 6.1 +;

- 1 Clean the entire machine thoroughly.
- 2 Check the transport belt for damage and wear and tear
- 3 Lubricate bare metal parts
- 4 Lubricate threaded spindles
- 5 Check all moving parts for play, replace where necessary
- 6 Store in a dry place.

## 7 THE ENVIRONMENT

### 7.1 General

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.

## **7.2 Consequences for the environment**

### **Working life**

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

Good maintenance will keep the product in good working order for longer.

### **Disposal**

Preferably dispose of/dismantle the machine via an authorized company in possession of the relevant required permits and licences.

Designate a competent person to supervise that this is done properly.

### **Waste disposal**

Designate a competent person to supervise that this is done properly.

Dispose of waste materials via recognized waste disposal companies, in possession of the required permits and licences.

\*

Keep the machine clean, regularly remove accumulated matter.

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

## 8 TROUBLE SHOOTING

<b>Malfunction</b>	<b>Solution</b>
<b>A Pickup belt(s) do not rotate</b>	
1 V-belt or Chain drive broken.	1 Replace
1 a Hydro- hoses not connected or not correctly connected.	1 a Correctly connect supply and return
2 Too little hydro- oil	2 Top up
3 Faulty hydro- valve	3 Warn an authorised maintenance engineer
4 Faulty hydro- motor	4 Warn an authorised maintenance engineer
<b>B Not picking up enough of the crop</b>	
1 Pickup belt(s) set too high	1 Set skids lower
2 Pickup tines worn or broken	2 Replace
3 Driving too fast	3 Reduce speed
<b>C Pickup belt slipping</b>	
1 Insufficient tension	1 The pickup belt must be tensioned so that in the centre there is movement of between 3 and 4 cm.
2 Pickup belt damaged	2 Repair or replace
3 Wear and tear to pickup belt	3 Check roller adjustment Chapter 4.3
<b>D Pickup belt does not run in the centre</b>	
1 Soiling	1 Remove soiling between the belt and the drive roller or return pulley. 2 Remedy belt tension and remove soiling 3 Demount lifting belt in the event of severe soiling
2 Wear and tear	2 Deformed or worn belt and/or slats Check belt adjustment, see Chapter 4.3

## 9 DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

(according to Annex II.1.B to the Machine directive 2006/42/EG, for partly completed machinery)

Wij, A. den Dekker & ZN B.V.

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A. den Dekker

Authorised complier of the technical file: Pickup type 3 and 4 DZ hereby declares under its own responsibility that the product:

Pickup type 3 and 4 DZ

which this declaration concerns, fully or partly complies with the following essential requirements of Annex I (see Annex I) and that the relevant technical documentation has been compiled in accordance with part B of Annex VII. The product also complies with the provisions of the following directive(s):

NEN-EN-ISO 12100	Safety of machinery
NEN-EN-ISO 14121	Risk assessment
NEN 811	Safety distances, lower limbs.
NEN 294	Safety distances, upper limbs.
NEN 953	Guards, fixed and moveable.
NEN 5509	User manuals
ISO 11684	Pictograms.

Without prejudice to the intellectual property rights of the manufacturer of the partly completed machine, we undertake to transmit, in response to a reasoned request by the national authorities, relevant information on the partly completed machine.

Please be aware that the partly completed machine must not be put into service until the final machinery into which it is to be incorporated has been declared in conformity with the provisions of this Directive, where appropriate.

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