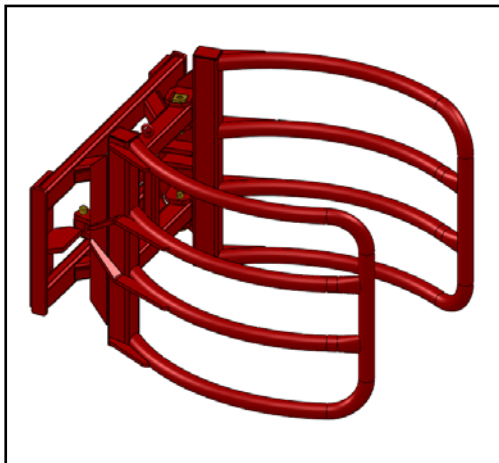
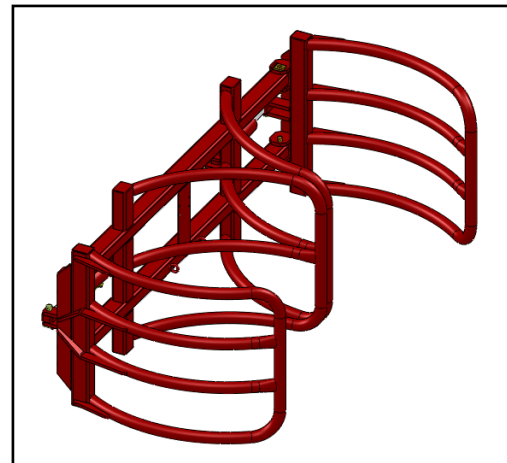


BKP/BKP-2/BKP-UF/BKP-UF1

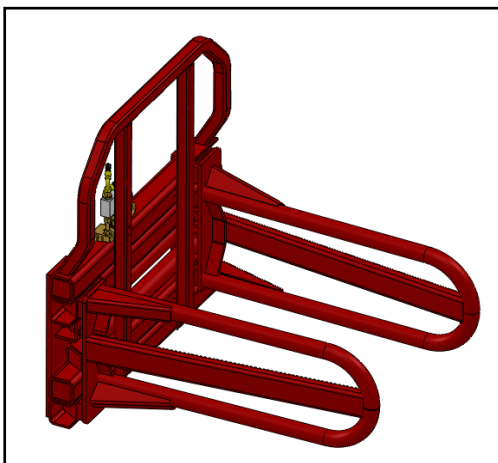
Bale clamps



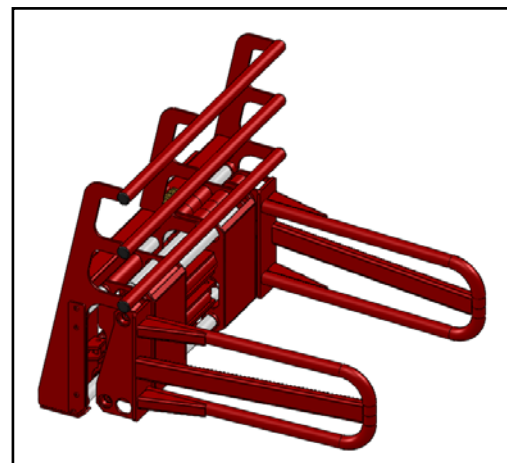
BKP



BKP-2



BKP-UF



BKP-UF1





English

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1. To the user

1.1 Introduction

The aim of this manual is to inform users about the commissioning, use and maintenance of their new WIFO hydraulic bale clamp. Also included in this manual are a number of safety instructions to create a safe working environment.

At WIFO-Anema B.V. we aim to continuously improve our products. WIFO-Anema B.V. reserve the right to introduce any changes and improvements deemed necessary without prior notice.

Please read the manual thoroughly and observe the safety procedures before putting the unit into operation. Contact your dealer for any further questions or concerns you may have.

We hope you will enjoy working with your WIFO bale clamp.



ATTENTION:

Carefully read this manual before you put the machine into operation and act upon all directions that are given. This is to guarantee its safe, trouble-free operation.


Keep this manual in a safe place for future reference!


WIFO-Anema B.V.

Dealer:

1.2 Safety precautions and warnings

Please read this manual before you put the machine into operation for the first time, and observe the safety instructions at all times. The most important instructions are marked with a symbol.

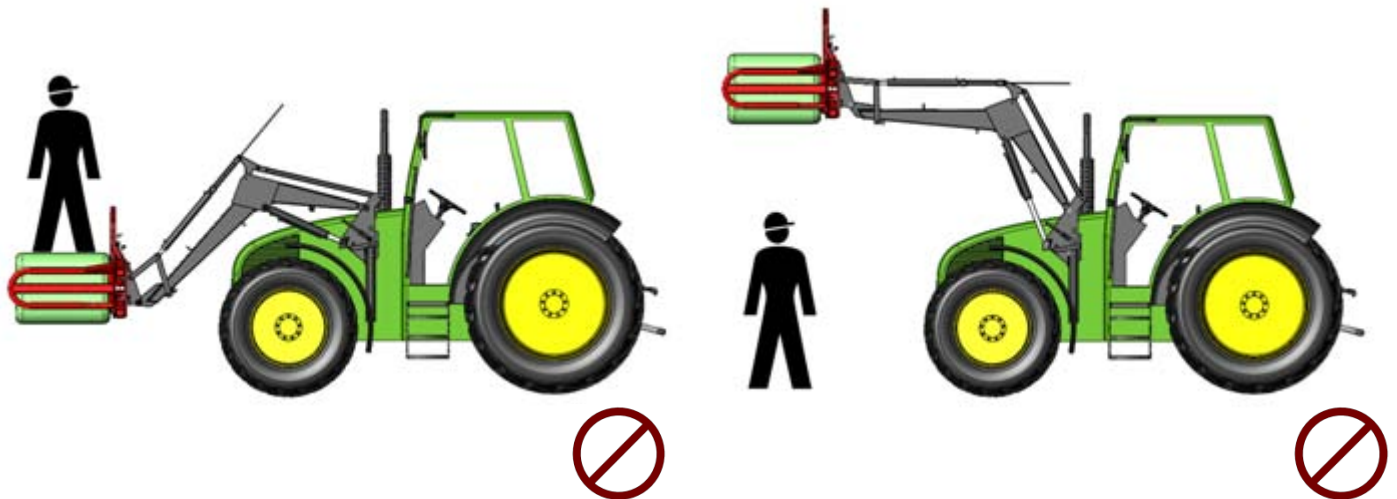
	<p><i>This symbol is used for all important safety instructions throughout this manual. Carefully observe the instructions and be very cautious.</i></p>
---	--

	<p><i>This symbol is used for all important actions that should not be carried out under any circumstances. Carefully observe these prohibitions.</i></p>
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Any person in charge of the commencement of operation, the operation itself or the maintenance of the machine is urged to carefully read and observe the following instructions.

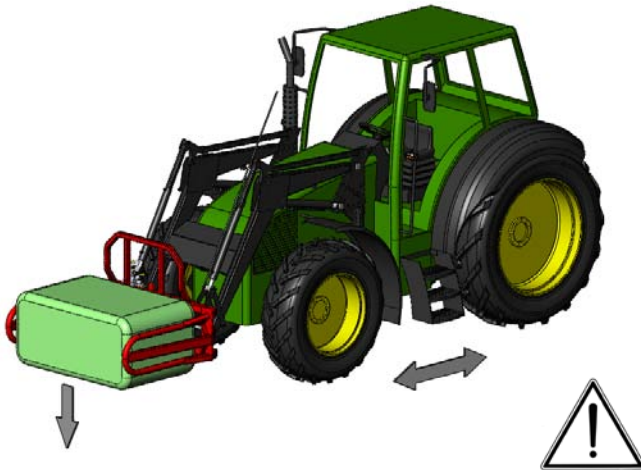
1.2.1 Safety regulations

The following safety instructions apply to all types of WIFO bale clamp. It is not necessary to make any distinction here between the lifting vehicle used, or whether the bales are round or rectangular.




Do not allow anyone to hitch a ride.


*Persons must not stand below the bale clamp.
Remember that bales may fall from the clamp.*




Bales should be transported in the lowest possible position, to provide maximum stability to the lifting vehicle.

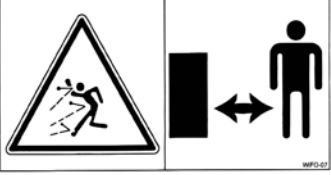
	<p><i>The clamp must only be operated from the driver's position in the lifting vehicle. Make sure the operator has full view of the work to be carried out.</i></p>
	<p><i>Ensure that the cylinder control lever cannot be confused with other controls, in order to prevent unintended operation.</i></p>
	<p><i>Ensure that the hydraulic hoses and any electrical cables cannot be trapped, and that the grabs are able to move freely.</i></p>
	<p><i>The bale clamp must be placed in the lowest position when parking the lifting vehicle. Ensure that the clamp/vehicle combination cannot make any unintended movements while the vehicle is not in use. Disconnect the hydraulic hoses if necessary. When the bale clamp is removed from the lifting vehicle and parked it should be placed on a level and stable substrate.</i></p>

1.2.2 Safety stickers and warning signs

	<p><i>A safe working environment also requires personnel to be well-informed about the various safety stickers on the machine. Be aware of the hazards they warn you to look out for.</i></p> <p><i>Replace any loose, illegible or missing stickers.</i></p>
---	---

Several safety stickers have been put onto the machine. The meaning of the stickers on this machine is as follows:

	<p><u>N.B.:</u> <i>Please read the instruction manual prior to any maintenance to the machine. Turn off the engine and remove the key from the ignition while maintenance is carried out on the machine!</i></p>	<p>1</p>
---	--	----------

	<p><u>Danger:</u> <i>Always keep at a safe distance from the machine!</i></p>	<p>2</p>
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1.2.3 Location of safety stickers on the machine

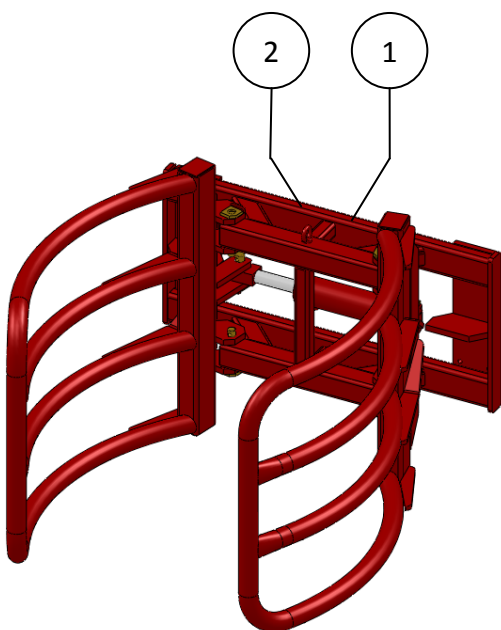


Figure 1.2.1-Location of safety stickers for BKP

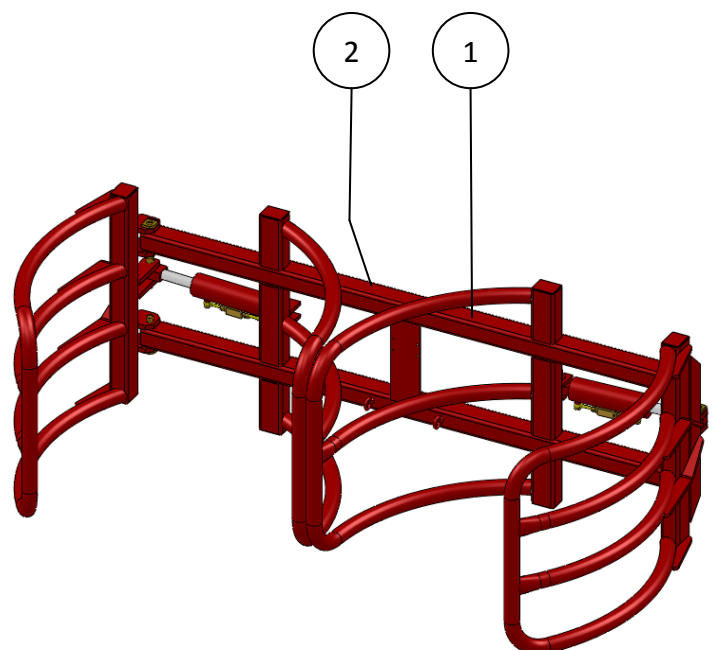


Figure 1.2.2-Location of safety stickers for BKP-2

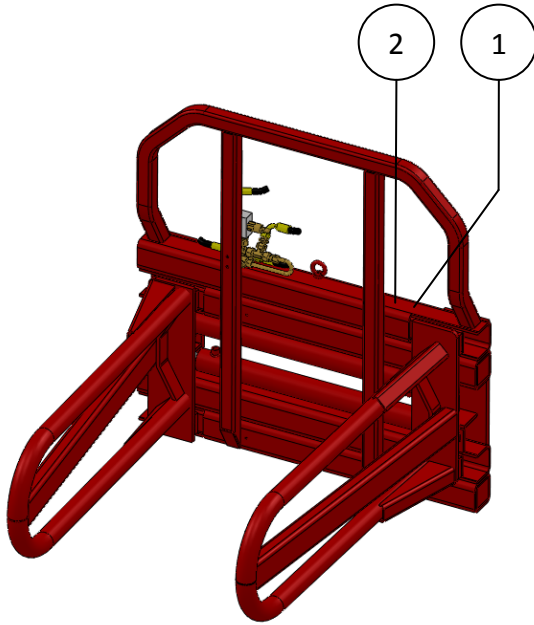


Figure 1.2.3-Location of safety stickers for BKP-UF

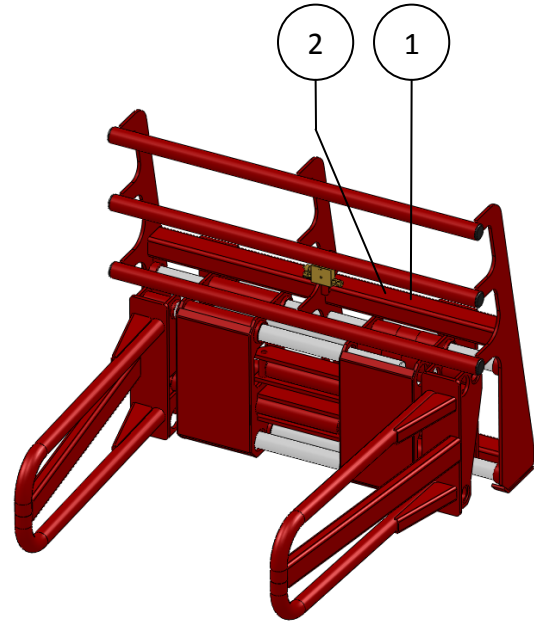


Figure 1.2.4-Location of safety stickers for BKP-UF1

1.3 Purpose of use

The WIFO bale clamp is suitable only for the transport of film-wrapped round or rectangular bales. Several types of bale clamp are available, and a variety of models of each type can be supplied to allow attachment to different types of vehicle. See the technical data below for the appropriate type and model for your application.



The nominal capacity of all bale clamps is 1500kg. The capacity of the lifting vehicle must exceed the total weight of the bale clamp plus the load. The lifting vehicle must be equipped with a double action hydraulic connection, in close proximity to the bale clamp attachment to the lifting vehicle.

This bale clamp is intended for the transport of film-wrapped round or rectangular bales, and must in no circumstances be used for the carriage of persons!

1.3.1 Instructions for picking up a round bale

1. Drive towards the round bale with the main frame held vertical and the grabs apart.
2. Ensure that the frame comes up against the rear of the bale.
3. The bale must be located centrally in front of the clamp. The grabs must be to either side of the bale.
4. Once the clamp is correctly positioned the cylinder may be operated so that the grabs close and the bale can be picked up.

1.3.2 Instructions for picking up a rectangular bale

1. See instructions for picking up a round bale, substituting "rectangular" for "round" as appropriate.

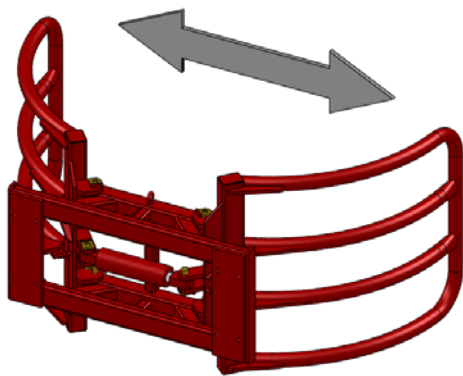


Figure 1.3.1-Illustration instruction 1

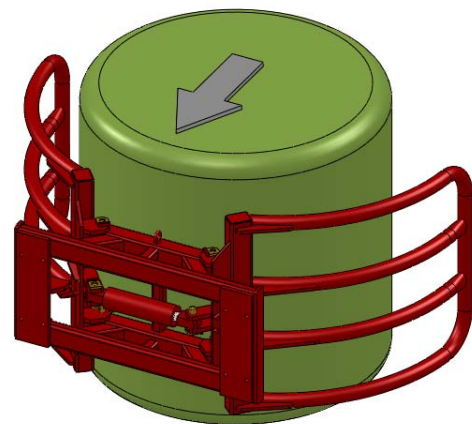


Figure 1.3.2-Illustration instruction 2

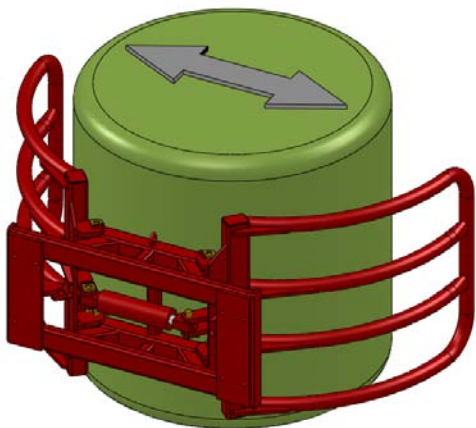


Figure 1.3.3-Illustration instruction 3

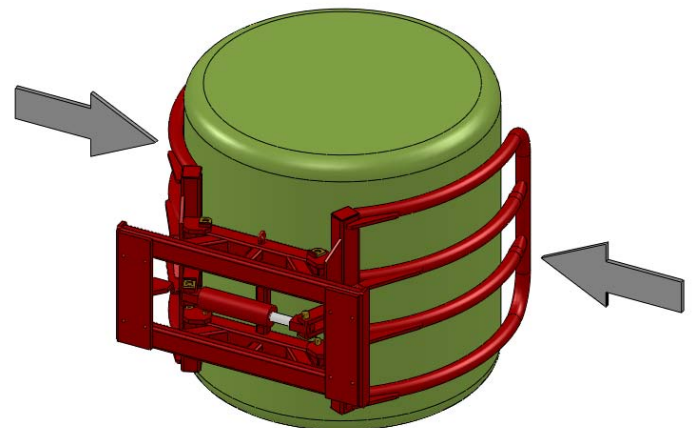


Figure 1.3.4-Illustration instruction 1



ATTENTION:

Ensure that the bales are securely located or stacked, so that they cannot roll or be displaced unintentionally.

1.4 Liability

Any person working with or on the machine must have read this manual. The machine is to be used for its intended purpose only. Included in the intended purpose are, among other things:

1. Work must be carried out in accordance with the directions and within the functional restrictions (e.g. maximum hydraulic working pressure) as outlined in the regulations. Use only sound and appropriate tools.
2. Electric/electronic equipment and accessories (e.g. cables) must be treated in accordance with the general accepted policy for using non-waterproof portable electric and electronic equipment, such as:
 - a) Storing and keeping in a clean, dry environment away from rodents and the like; and
 - b) Protecting the equipment against severe, uncushioned shocks and water (precipitation).
3. Use only original or compatible spare parts. Such parts must be assembled as directed (e.g. by observing the recommended tightening moments). Spare parts (as well as lubricants) are considered compatible only if explicitly approved by WIFO or in the event that the customer is able to prove they possess the required properties for the purpose(s) they are used.
4. Use only lubricants that meet the specifications as described in the directions.
5. Always observe the local regulations in terms of accident prevention, safety, traffic and transport.
6. Only trained personnel with knowledge of the possible hazards have permission to work with/on the machine.
7. WIFO-Anema B.V. will assume no liability in any shape or form for losses or damage caused following modifications to the machine, which have not been explicitly approved by WIFO.



Noncompliance with the rules and directions from this manual will be considered as serious negligence, for the consequences of which WIFO-Anema B.V. accepts no liability whatsoever. In such cases, the user will bear the full risk of his actions.

WIFO-Anema B.V. is continuously working on the improvement of its products. For that reason, WIFO-Anema B.V. reserves the right to introduce any changes and improvements deemed necessary without prior notice. However, it does not imply an obligation to make any such changes or improvements to machines bought by customers in the past.

1.5 Warranty

WIFO-Anema B.V. guarantees the soundness of its products in terms of materials used and/or structural defects. However, in any event this warranty is limited to the free-of-charge replacement or repairs of the defect product, or part thereof. WIFO-Anema B.V. assumes no liability for any loss or damage arising from faulty deliveries and/or the breakdown of purchased goods before the warranty period has expired. **The warranty period for this product is twelve months.**

2. Technical details

2.1 General technical data

Type	BKP	BKP-2	BKP-UF	BKP-UF1
Max. carrying capacity	1500 kg	2 x 1250 kg	1500 kg	1500 kg
Weight ¹	250 kg	370 kg	325 kg	600 kg
Max. working pressure	18Mpa (180bar)	18Mpa (180bar)	14Mpa (140bar)	14Mpa (140bar)
Frontal extension length	250 mm	100 mm	170 mm	340 mm
Clamp capacity	900 – 1300 mm	900 – 1300 mm	750 – 2050 mm	720 – 2480 mm
Min. machine width	1140 mm	2550 mm	1150 mm	1500 mm
Bale type	Round	Round	Round/Rectangular	Round/Rectangular

Table 2.1.1-Wifo bale clamp models

¹ Weighting excluding add-on components

Type	Letter	Description
BKP/BKP-2/BKP-UF/BKP-UF1	K	Bare frame for build-up by user
	H	WIFO lifting mast linkage
	D	Three point (cat.II) linkage
	V	Front loader linkage

Table 2.1.2-Description data on model plate

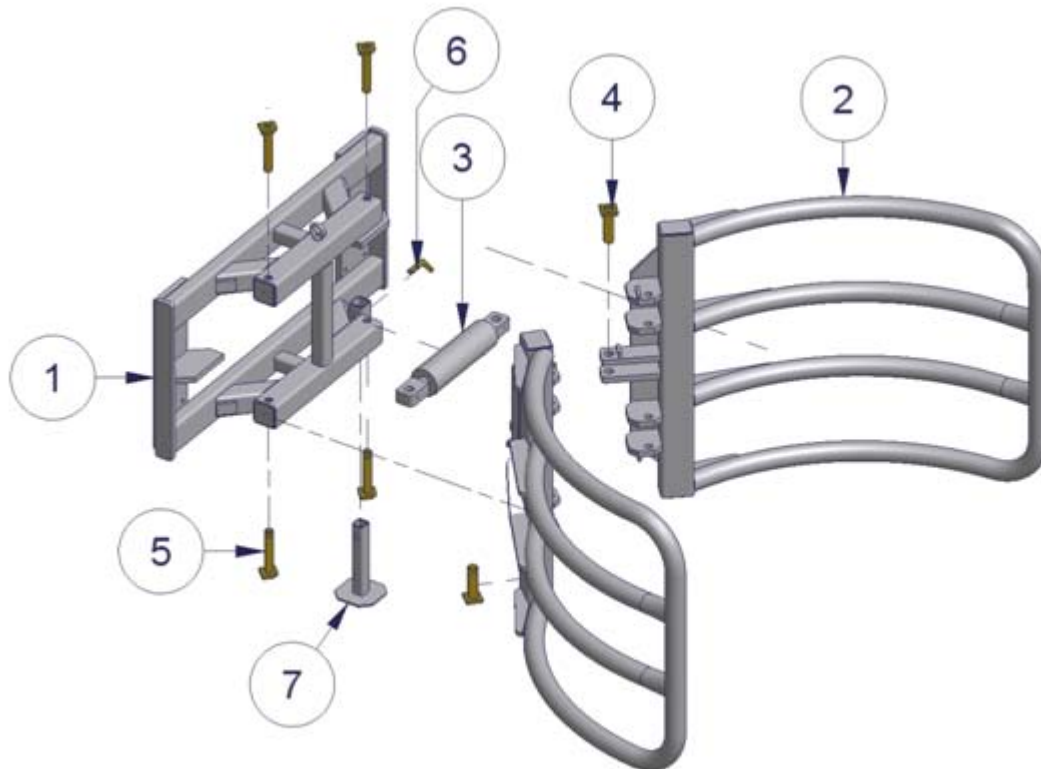
Type	Description	Rotating angle
K-90	Vertical swinging frame for use with lifting mast etc.	90°
D-180	Horizontal rotary gear for use with front loader etc.	180°

Table 2.1.3-WIFO BKP bale clamp accessories

A variety of accessories for fitting on the lifting vehicle are available for each type of bale clamp. This depends on the type of vehicle in use with the WIFO bale clamp.

2.2 BKP

2.2.1 Parts list



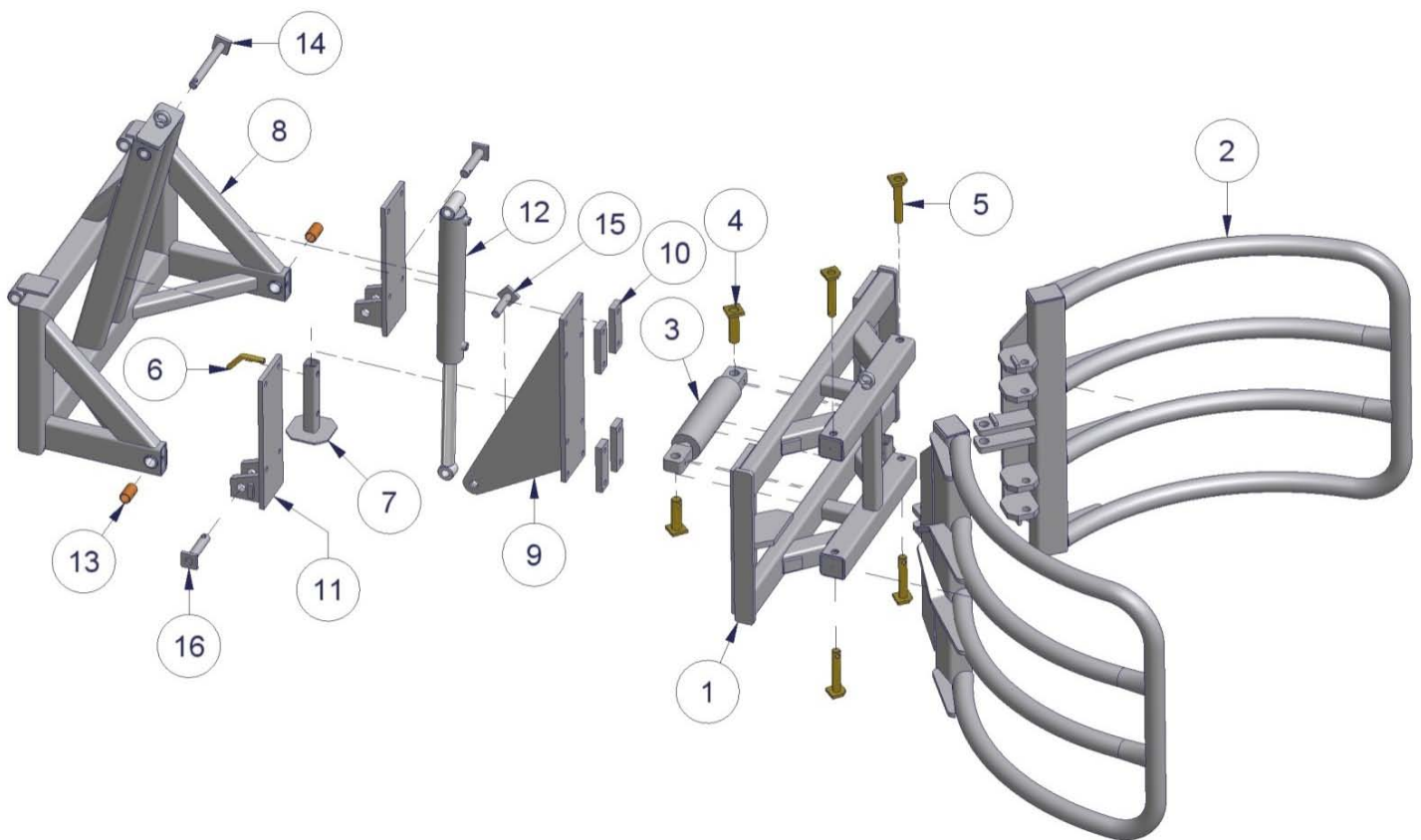
Number	Description
1	BKP main frame
2	BKP clamp
3	BKP clamp cylinder DW 80-40-200
4	Cylinder pin
5	Hinge pin
6	Support leg pin
7	Support leg

Table 2.2.1-BKP parts list

2.3 BKP + K-90 (accessory)

The BKP bale clamp can be fitted with a swinging frame between the bale clamp and the lifting mast fork carrier, in order to rotate round bales through 90°. An additional double action hydraulic connection at the lifting mast fork carrier is required for this operation.

2.3.1 Parts list



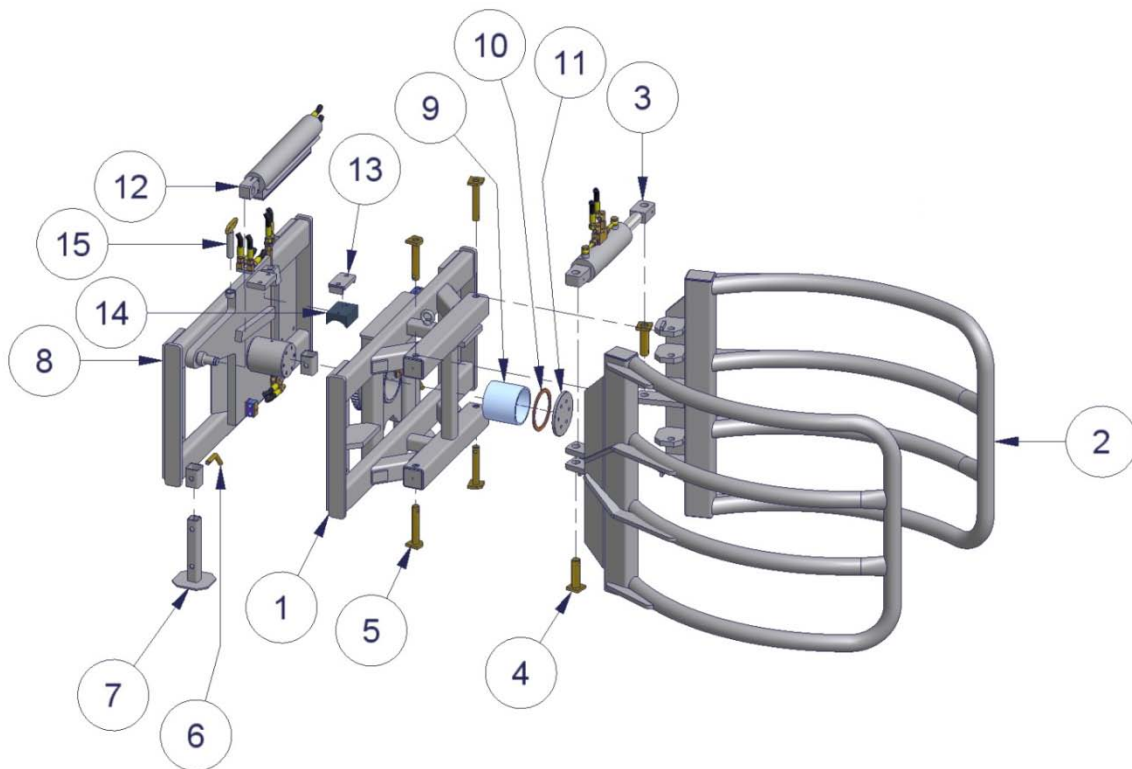
Number	Description	Number	Description
1	BKP main frame	9	Tilting cylinder plate
2	BKP clamp	10	Clamp plate tipping cylinder plate
3	BKP clamp cylinder DW 80-40-200	11	Rotating point plate
4	Cylinder pin	12	Tilting cylinder DW 70-40-410
5	Hinge pin	13	Bearing
6	Support leg pin	14	Bottom cylinder pin
7	Support leg	15	Rod side cylinder pin
8	Fixed frame	16	Tilting pin

Table 2.3.1-Parts list for BKP + K-90

2.4 BKP + D-180 (accessory)

The BKP bale clamp can be equipped with a rotary frame, allowing the bale clamp to rotate through 180°. An additional double action hydraulic connection is required on the lifting vehicle for this operation.

2.4.1 Parts list

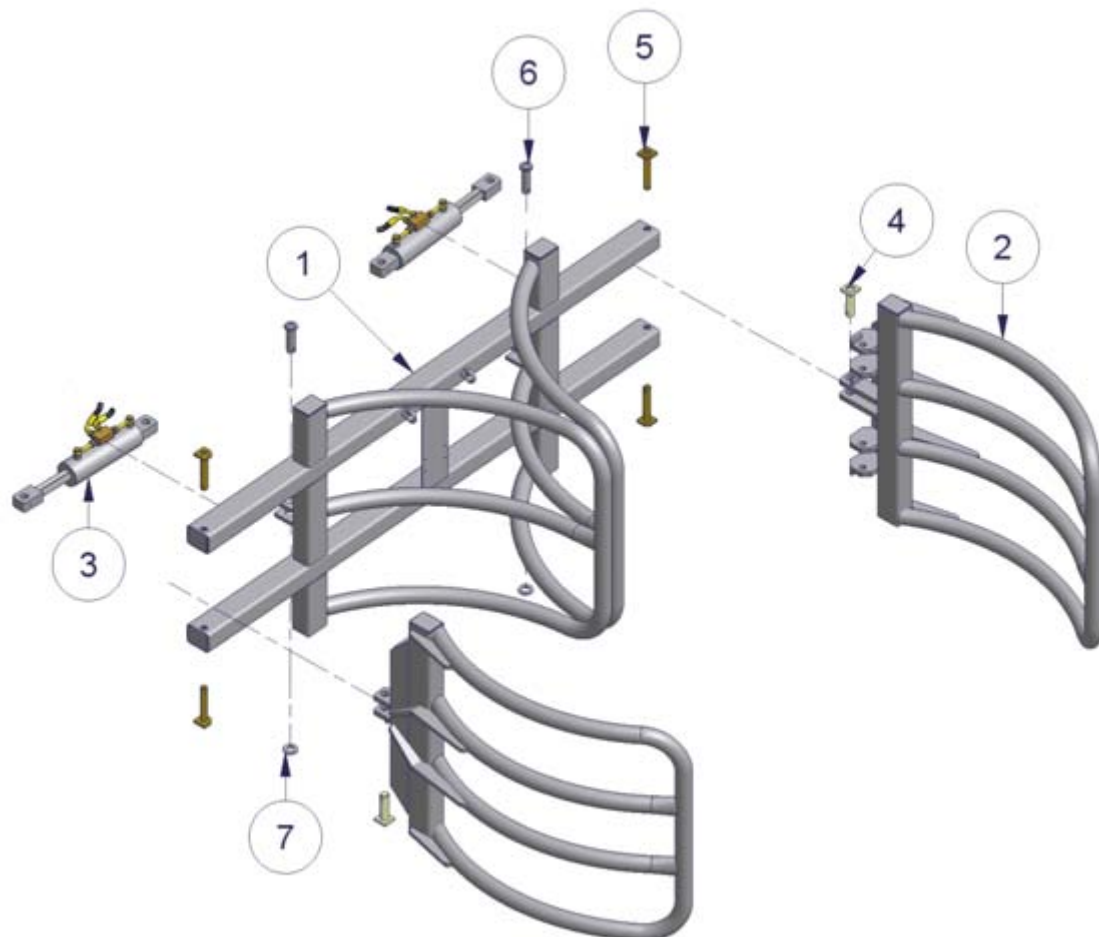


Number	Description	Number	Description
1	Rotary frame	9	Sleeve bearing
2	BKP clamp	10	Bronze washer
3	BKP clamp cylinder	11	Locking plate
4	Cylinder pin	12	Tilting cylinder DW 70-30-377
5	Hinge pin	13	Guide block holder
6	Support leg pin	14	Guide block
7	Support leg	15	Locking pin
8	Fixed frame		

Table 2.4.1-Parts list for BKP + D-180

2.5 BKP-2

2.5.1 Parts list



Number	Description
1	BKP-2 main frame
2	BKP clamp
3	Clamp cylinder DW 80-40-200
4	Cylinder pin
5	Hinge pin
6	Frame cylinder pin
7	BKP-2 main frame

Table 2.5.1-Parts list for BKP

2.5.2 Commissioning the BKP/BKP + D-180/BKP-2 bale clamps

1. The method of attaching the film-wrapped round bale clamp depends on the format of the clamp. Descriptions of the methods for the different formats are provided below:
 - a) **Three point (cat. II) linkage**

Check that the drawbars of the power lift of the tractor are at the same level. Couple the clamp to the category II three point linkage. Use the appropriate pins and retaining clips. Adjust the top link so that the bale clamp is horizontal. Only very little lateral play of the bale clamp in the power lift is allowed. Make the adjustments via the stabilizers of the power lift.
 - b) **Front loader, reach truck and shovel linkage**

Unlock the quick attachment frame. Tilt the frame forward using the tilting cylinders. Hook the bale clamp onto the front loader, reach truck or shovel. The hooks must engage between the quick attachment system guide strips. Now tilt the frame to the rear using the tilting cylinders and lock the quick attachment frame so that the clamp is firmly attached.
 - c) **Lifting mast**

Remove the pins. Hook the bale clamp onto the lifting mast so that the clamp sits centrally behind the mast. Replace the pins so that the clamp is firmly attached. Use appropriate pins, nuts and bolts.
2. Connect the hydraulic hoses and ensure that the quick connectors are clean so that no contamination is introduced to the machine's hydraulic system.
3. Subsequently check that the hydraulic hoses can move freely and check that the system is not leaking oil.
4. Check the operation of the bale clamp using the hydraulic controls.

2.5.3 Commissioning the BKP + K-90 bale clamp

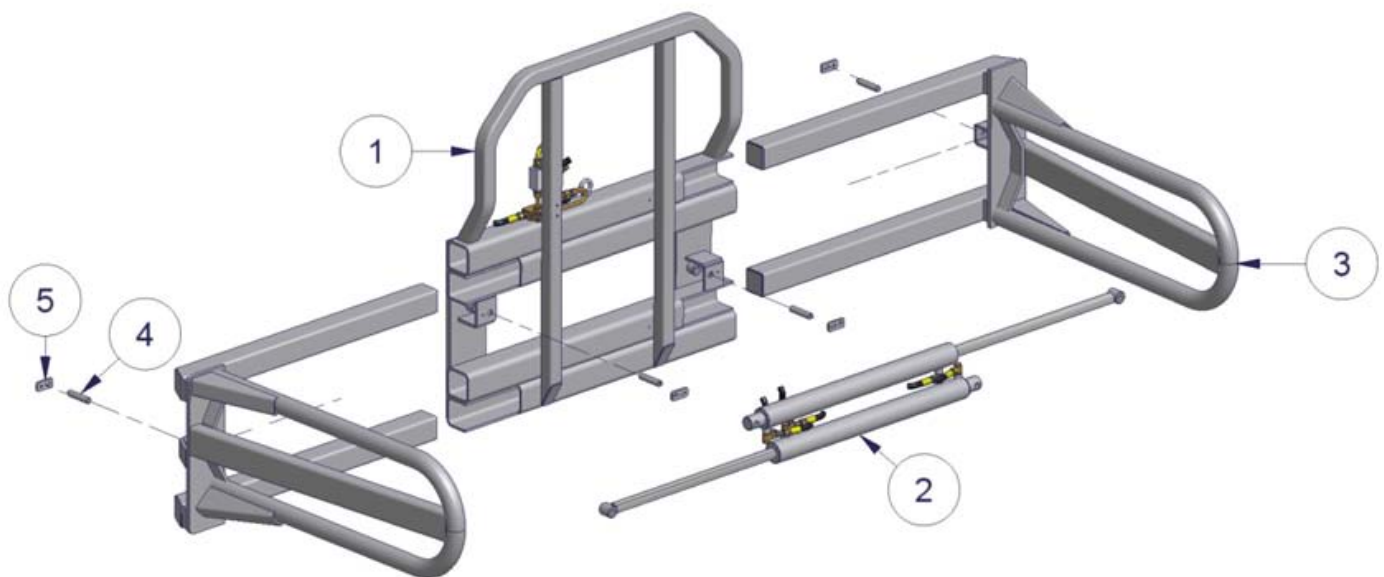
1. The BKP type bale clamp is suitable for use with a lifting mast and can be equipped with a swinging frame between the bale clamp and the lifting mast fork carrier to allow round bales to be rotated through 90°. An additional double action hydraulic connection at the lifting mast fork carrier is required for this operation. Instructions for connection to a lifting mast are provided below:
 - a) **Lifting mast**

Remove the pins. Hook the swinging frame onto the lifting mast so that the frame sits centrally behind the mast. Replace the pins, so that the swinging frame is firmly secured to the lifting mast. Then attach the bale clamp to the swinging frame. Use appropriate pins, nuts and bolts.

The WIFO bale clamp is now ready for use.

2.6 BKP-UF

2.6.1 Parts list



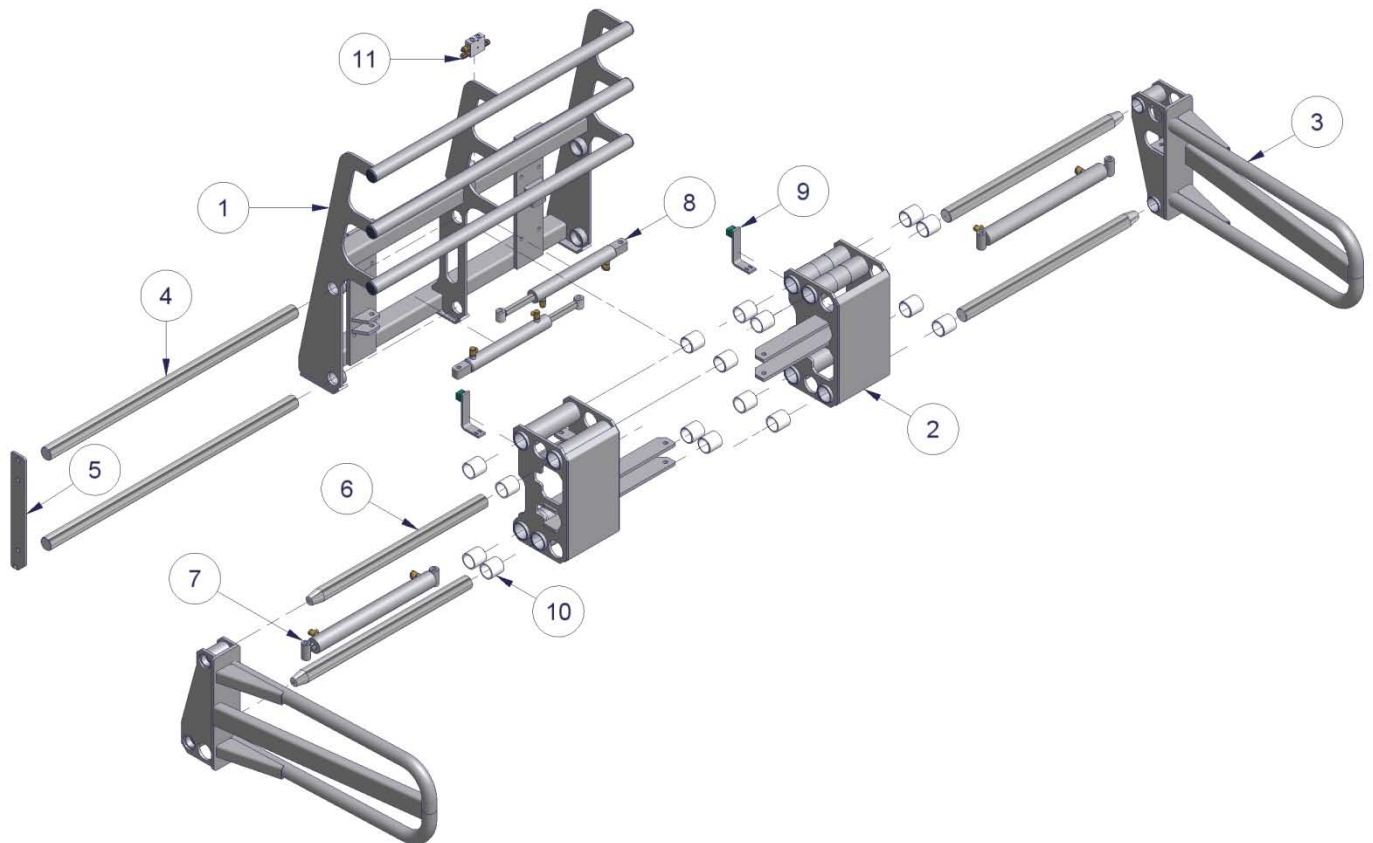
Number	Description
1	BKP-UF main frame
2	Clamping cylinder DW 60-35-665
3	BKP-UF clamp
4	BKP-UF pin
5	BKP-UF locking plate

Table 2.6.1-Parts list for BKP-UF

2.7 BKP-UF1

2.7.1 Parts list

Where the lifting vehicle is not equipped with two double action connections, an electro/hydraulic switching valve or two 3-way valves can be used to operate the width setting cylinders.



Number	Description
1	BKP-UF1 main frame
2	Bearing section
3	BKP-UF1 clamp
4	Main frame guide shaft
5	Main frame guide shaft locking plate
6	Clamp arm guide shaft
7	Clamping cylinder DW 60-35-550
8	Adjusting cylinder DW 50-30-330
9	Guide strip
10	Plastic bushes
11	Electro/hydraulic switching valve

Table 2.7.1-Parts list for BKP-UF1

2.7.2 Commissioning the BKP-UF/BKP-UF1 bale clamps

1. The method of attaching the film-wrapped rectangular bale clamp depends on the format of the clamp. Descriptions of the methods for the different formats are provided below:
 - a) **Three point (cat. II) linkage**

Check that the drawbars of the power lift of the tractor are at the same level. Couple the clamp to the category II three point linkage. Use the appropriate pins and retaining clips. Adjust the top link so that the bale clamp is horizontal. Only a very small amount of lateral play of the bale clamp in the power lift is permissible. Make the adjustments via the stabilizers of the power lift.
 - b) **Front loader, reach truck and shovel linkage**

Unlock the quick attachment frame. Tilt the frame forward using the tilting cylinders. Hook the bale clamp onto the front loader, reach truck or shovel. The hooks must engage between the quick attachment system guide strips. Now tilt the frame to the rear using the tilting cylinders and lock the quick attachment frame so that the clamp is firmly attached.
 - c) **Lifting mast**

Remove the pins. Hook the bale clamp onto the lifting mast so that the clamp sits centrally behind the mast. Replace the pins so that the clamp is firmly attached.
2. Connect the hydraulic hoses, ensuring that the quick connectors are clean to prevent contamination entering the machine's hydraulic system. Where the lifting vehicle is not equipped with two double action connections, an electrically operated switching valve or two 3-way valves can be used to operate the width setting cylinders. The following hydraulic hoses may be connected, depending on the format of the clamp:
 - a) **Two-four hose connection**

Connect the two pairs of hydraulic supply/offtake hoses to the two double action connections on the fork carrier.
 - b) **Electrically operated switching valve**

Connect the hydraulic supply/discharge hoses to the dual-action connection on the fork carrier. Install the supplied switch so that the machine driver is able to operate it from his driving position and cannot confuse it with other controls.
For a safe working environment, avoid situations such as inadvertently starting the machine or not being able to control it.
Keep an eye on the correct voltage of the lifting device and the valve. The voltage is shown on the coil. Connect a twin core cable in accordance with the circuit diagram. Include a warning light, fuse and/or plug socket in the circuit if required.
3. Check that the hydraulic hoses and electrical cables are able to move freely throughout, and check the system for oil leaks.
4. Check the operation of the bale clamp using the hydraulic controls.

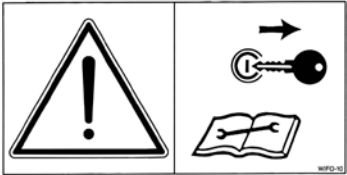
The WIFO bale clamp is now ready for use.

2.8 Replacement components

Type	Accessories	Component number
BKP	Clamping cylinder supply and offtake hoses	HYLR180031WW90
	Overpressure/non-return valve	419058
	Clamping cylinder seal kit	779288
BKP + K-90	Clamping cylinder supply and offtake hoses	HYLR180031WW90
	Supply/discharge hoses to rotating cylinder	HYLR100031WW90
	Overpressure/non-return valve	419058
	Clamping cylinder seal kit	779288
	Rotating cylinder seal kit	7792862
BKP + D-180	Clamping cylinder supply/offtake hose	HYLR180031WW90
	Rotating cylinder supply/offtake hose	HYLR130031WW90
	Hose	HYLR040031WW90
	Electro/hydraulic switching valve	429052
	Overpressure/non-return valve	419058
	Clamping cylinder seal kit	779288
	Rotating cylinder seal set	779187A
	Single-acting balancing valve	4290057
	Sleeve bearing	429027
BKP-2	Clamping cylinder supply and offtake hoses	HYLR250031WW90
	Volume control valve	HYVENTREGEL
	Electro/hydraulic switching valve	429052
	Overpressure/non-return valve	419058
	Clamping cylinder seal set	779288
BKP-UF	Supply hose	HYLR180031WW90
	Offtake hose	HYLR180041GG90
	Hose	HYLR042031WW
	Hose	HYLR073531WW
	Hose	HYLR100031WW90
	Hose	HYLR080031WW90
	1/2" pressure relief valve, 100-180 bar	419056
	Single action controlled 3/8" non-return valve	419055
Clamping cylinder seal set	779284	
BKP-UF1	Offtake hose	HYLR180041GG90
	Supply hose	HYLR180031WW90
	Hose	HYLR060031WW90
	Hose	HYLR080031WW
	Hose	HYLR080031WW90
	Hose	HYLR100031WW90
	Clamping cylinder seal kit	779283
	Adjusting cylinder seal kit	779283
Plastic bushes	419038	
Overpressure/non-return valve 1/2"	419058	

Table 2.8.1- Replacement components for WIFO bale clamps

3. Faults and maintenance

	<p><u>N.B.:</u> <i>Please read the instruction manual prior to any maintenance to the machine. Turn off the engine and remove the key from the ignition while maintenance on the machine is carried out!</i></p>
---	---

The bale clamp and its grabs must be brought fully together and placed in the lowest position during repairs or maintenance to the bale clamp. Prevent any unintended operation of the cylinder(s) or motion of the bale clamp during maintenance activities by switching off the lifting machine's engine and removing the ignition key. Ensure that the clamp is properly supported.

A further precaution is to disconnect the hydraulic hoses.


3.1 Preventive maintenance and lubrication


After the first 8 working hours:

- Check the connections and turnbuckles of the hydraulic hoses.
- Tighten **locking plate (11)** bolts (100Nm). (BKP + D-180)
- Check the clamping bolts of the piston rod head of the rotating cylinder; these must be firmly secured. (BKP+ D-180)
- Fasten the tap bolts on the **guide block (14)** of the rotating cylinder tight (60 Nm), and secure using the lock nuts. (BKP + D-180)

After every 40 working hours:

- Clean and grease the gear wheel and gear rack of the rotating cylinder (2). Check these for wear. Replace after excessive wear. (BKP + D-180)
- Grease the rotating cylinder at the sliding strip of the **guide block (14)**. (BKP + D-180)
- Check the tension of the guide block on the cylinder, adjust as necessary with the adjusting bolts (60 Nm) and secure with locknuts. (BKP + D-180)


	<p><i>This sticker shows the position of a grease nipple on the machine. Lubricate the machine after every 10 working hours. Recommended lubricants include SAE 30 oil and Grade 2 lithium-based grease.</i></p>
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	<p><i>Regularly check the hydraulic system for any leaks. Never try and search for leaks or stop a leak by hand. Liquid under high pressure can easily penetrate skin and clothing, and may cause serious injuries. Replace any damaged hydraulic hoses to prevent bursting and subsequent injury.</i></p>
	<p><i>Regularly check the oil level of the hydraulic system of your forklift truck / tractor.</i></p>

3.2 Troubleshooting

Bale clamp type	Problem	Solution
BKP + D-180.	The bale clamp is not in its horizontal position when the cylinder piston rod is fully slid in.	Loosen the clamping bolts at the ends of the piston rod and screw/unscrew the piston into or out of the block. Continue with this until the rotary frame (1) is horizontal with reference to the fixed frame (8). Tightly secure the clamping bolts.
	There is some play in the bearing (sleeve bearing) on the shaft of the fork positioner.	The bearing is worn-out and must be replaced by a skilled mechanic. See chapter 3.3.1.

Table 3.2.1-Troubleshooting

	<p><i>Please contact your dealer for any further concerns you may have. He will be pleased to assist.</i></p>
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3.3 Work to be carried out by a competent mechanic



Always use original WIFO parts for replacement in order to comply with the warranty terms and conditions.

3.3.1 Replacement instructions, BKP + D-180 sliding bearing

1. Disconnect the hydraulic hoses.
2. Remove the bale clamp from the lifting vehicle and place it on its back on a level and stable substrate.
3. Take the pressure off the **guide block (14)** by loosening the pressure bolts.
4. Support the bale clamp so that it no longer rests on the **rotary frame (1)** gear wheel.
(Use suitable lifting equipment. The minimal lifting capacity must exceed the weight of the bale clamp, see the technical data in Section 2.1)
5. Remove the **locking plate (11)** after unscrewing the six socket bolts. Prevent the rotary frame slipping off the backing plate.
6. Withdraw the rotary frame from the fork positioner shaft, clean the fork positioner shaft on the **fixed frame (8)** and check for wear; *contact the dealer after detecting any wear. Also check the lubrication. The lubricant must be applied to the bearing bush via the grease nipple and the opening on the shaft of the fork positioner. Clean the lubrication duct, if necessary.*
7. Press the old **sleeve bearing (9)** out of the bearing housing from the gear wheel side towards the front of the rotary frame. Clean the bearing housing and the shaft of the fork positioner.
8. Push the new sleeve bearing into the bearing housing. Make sure the sleeve bearing fits well and avoid any damage. The front of the sleeve bearing must be flush with the front of the bearing housing.
9. Replace the rotary frame with its new sliding bearing on the fixed frame. Avoid any damage to the sleeve bearing by means of good support and guidance. Bear in mind that the rotary frame and the cylinder must return to the correct position.
10. Fit the locking plate using the six socket head bolts and tighten to 100Nm.
11. Replace the guide block and put it under pressure using the pressure bolts (60 Nm). Secure the bolts using the lock nuts.
12. Replace the bale clamp on the lifting vehicle.
13. Grease the bearings, connect the hydraulic hoses and check the bale clamp for correct operation.

EG-VERKLARING VAN OVEREENSTEMMING VOOR MACHINES
EC-DECLARATION OF CONFORMITY FOR MACHINERY
EG-MASCHINENÜBEREINSTIMMUNGSERKLÄRUNG
DÉCLARATION DE CONFORMITÉ "CE" POUR MACHINES

Fabrikant/Manufacturer/Fabrikant/Fabricant:

WIFO-Anema B.V.

Adres/Address/Adresse/Adresse:

Hegebeintumerdyk 37
9172 GP Ferwert
The Netherlands

Verklaart hiermede dat /Herwith declares that/Erklärt hiermit, daß/Déclare ci-après que

Serienummer/Serial number/Serienummer/Numéro de série:

Uitvoering/Model/Ausführung/Modèle:

- Voldoet aan de bepalingen van de Machinerichtlijn (Richtlijn 2006/42/EG, zoals laatstelijk gewijzigd) en de nationale wetgeving ter uitvoering van deze richtlijn;
- Is in conformity with the provisions of the Machine Directive (Directive 2006/43/EC, as amended) and with national implementing legislation;
- Konform ist mit den einschlägigen Bestimmungen der EG-Maschinerichtlinie (EG-Richtlinie 2006/42/EG), inklusive deren Änderungen, sowie mit dem entsprechenden Rechtserlaß zur Umsetzung der Richtlinie in nationales Recht;
- Est conforme aux dispositions de la Directive "Machines" (Directive 2006/42/EC telle que dernièrement modifiée) et la législation nationale adoptée en application de ladite directive.

Ferwert, March 2009



Wytze Anema
(Director)