

Operating Instructions



Front loader **implements**
for professional use

Band 1

Top loading grip
Timber tongs with top-loading grip
Bucket with grab
Disposal bucket
Bucket with grab UNI
Bucket with grapple
Fork with grapple
Silage cutting grapple
Round bale divider
Wrapped bale handler
Wrapped bale handler Pro H
Maxi bale claw
Rotating bale handler
Bale fork lift
Big bale fork
Side shift carriage
Bigbag lifter
Bag-Lift H
Tenias adapter
Load hook



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1 About this manual

1.1 Documentation Overview

There are various instruction manuals and technical documentation for the front loader, installation kit and accessories. Most documents are available in multiple languages.

If you are missing an instruction manual or you need an instruction manual in another language, you can order these from your dealer. Many instruction manuals can be downloaded for free on the Internet at <http://www.stoll-germany.com>.

Installation instructions

The installation instructions describe how to install the front loader installation kit and the hydraulic and electrical equipment up to the first start-up of the front loader. They are intended for the workshop.

The installation instructions have been specially compiled for this tractor model.

They do not contain any information that is already included in the operating instructions.

The installation instructions contain information on spare parts for the tractor-specific attachment components and equipment.

Operating instructions of the front loader

The operating instructions describe the safe use of the front loader from the initial start-up to its disposal. They are intended for the operator and the user of the front loader.

The operating instructions are compiled specifically for the front loader series, they can therefore only take tractor-specific equipment into account to a limited extent.

Spare parts lists

The spare parts list of the front loader lists all the information required for ordering spare parts of the front loader series and their options. Specific adjustments for the tractor are not taken into account.

In addition, spare parts lists are available for front loader implements.

Operating instructions for front loader implements (this document)

These operating instructions describe the implements with hydraulic functions that are available for the front loader.

Other documents

In addition to the above instruction manuals, there may be installation and operating instructions as well as other *Technical Information* that deal with special additional equipment and extensions, which are not included in the other documentation.



When you pass on the front loader or the tractor with a front loader attached, please also hand over all the relevant documents! The next owner needs the information!



1.2 What to do with these operating instructions

These operating instructions and the operating instructions for the front loader are designed to help you to learn how to use a front loader and the implements safely.

- First you must read the safety chapter, for your own protection and for the protection of those around you!
- Then familiarize yourself with the features and operation of the front loader and the implement. In doing so, be sure to observe the operating instructions of the front loader!

Information about the layout of this manual:

To help you find the information you need in this manual quickly, we have used the following “tools”:

Contents at the beginning of the manual

Differently styled texts:

The plain text without special labelling explains situations and contexts.

- Text with a dot: here you can or have to do something.
- ➔ This symbol indicates the conditions that must be fulfilled before you start the following operations.
- ✕ This symbol indicates the tools you need.

(1) Text with a number: as the point, but there are several steps.



Text with a pointing finger: here you will find information that is particularly important!

1 **Caption:** specifies the names of the item numbers in the images.

Bold numbers in brackets (**1**) also refer to the item numbers in the pictures.

Warnings are marked off with a line underneath, above which there is a signal word on a coloured background:

DANGER

These notes warn against hazards that result in serious injury or death.

- ▶ The dot indicates the necessary safety measures.

WARNING

These notes warn against hazards that may cause serious injury or death.

- ▶ The point here too identifies the necessary safety measures.

CAUTION

These notes warn against hazards that could result in minor and moderate injury.

- ▶ The point here too identifies the necessary safety measures.

NOTICE

These notes warn against hazards that may cause damage to the implement or the surrounding area.

- ▶ The dot indicates the necessary safety measures.

2 Safety

2.1 Proper use

The front loader implements described in these instructions are only intended to be used on agricultural or forestry tractors with a front loader, not on wheeled loaders or farm loaders!

The front loader implements may only be used for their normal, intended purpose (see below).

Information for *Intended use* in the operating instructions for the front loader also apply to the implement!

Any other use is considered as being incorrect.

Intended purpose of the top loading grip

The top loading grip (ID no. 3548990) is an accessory of the STOLL pallet fork HD and HS1500 (ID numbers 3583680, 3583700, 3583710 and 3430830, 3434900) and may only be used in conjunction with one of these pallet forks.

The top loading grip is designed for picking up, loading and transporting logs, and wood cuttings from shrubs and bushes.

The maximum permissible load of the pallet tines must not be exceeded!

When the top loading grip is mounted to the pallet fork, its intended use changes therefore it is no longer possible to transport pallets.

Purpose of the timber tongs with top loading grip

The timber tongs with top loading grips is designed for picking up, loading and transporting logs, and wood cuttings from shrubs and bushes.

Permissible loading capacity: 1000 kg

Purpose of the grabbing bucket

The grabbing bucket is designed to remove grass and corn silage out of the silage bed.

When the top loading grip is open, the bucket can also be conditionally used as a universal shovel.

Width of the bucket	Permissible loading capacity
1.6 m	1720 kg
1.8 m	2000 kg
2 m	2200 kg
2.2 m	2420 kg
2.5 m	2680 kg
2.8 m	2980 kg



Purpose of the disposal bucket

The disposal bucket is designed for picking up, loading and transporting logs, and wood cuttings from shrubs and bushes.

When the top loading grip is open, the bucket with inserted side panels can also be conditionally used as a universal shovel.

Width of the bucket	Permissible loading capacity
1.6 m	1720 kg
1.8 m	2000 kg
2 m	2200 kg
2.2 m	2420 kg
2.5 m	2680 kg
2.8 m	2980 kg

Purpose of the grabbing bucket UNI (Maxi Grapple Fork)

The grabbing bucket is designed as a universal implement for levelling, gripping, loading and transporting loose material. In addition to this, it can grip and load bales and similar objects that are of an appropriate size.

Width of the bucket	Permissible loading capacity
2.05 m	1460 kg
2.4 m	1690 kg
2.6 m	1810 kg

Intended use of the bucket with grapple and fork with grapple

The bucket with grapple and the fork with grapple are designed for picking up, loading and transporting manure, compost, shrubbery, silage, and similar items/material.

Bucket with grapple Standard		Bucket with grapple Heavy		Fork with grapple	
Width	Permissible loading capacity	Width	Permissible loading capacity	Width	Permissible loading capacity
1.5 m	590 kg	1.5 m	770 kg	1.3 m	540 kg
1.7 m	670 kg	1.7 m	870 kg	1.5 m	630 kg
2.05 m	820 kg	2.05 m	1070 kg	1.7 m	710 kg
2.2 m	880 kg	2.2 m	1140 kg	2.05 m	870 kg
2.4 m	970 kg	2.5 m	1270 kg	2.4 m	1020 kg

Purpose of the silage cutting grapple

The silage cutting grapple is designed for the removal of silo blocks from the silage bed.

Loading capacity with an implement width of 1.28 m 0.65t, 1.52 m 0.79 t, 1.88 m 0.96t

Width of the bucket	Permissible loading capacity
1.28 m	650 kg
1.52 m	790 kg
1.88 m	960 kg

Purpose of the round bale divider

The round bale divider has been specially developed to easily cut through silage, straw and hay bales.

Area of use:

Maximum bale length: 1.3 m

Max. bale diameter: 1.55 m

Max. bale weight: 1400 kg

Purpose of the wrapped bale handler

The wrapped bale handler is designed to load and transport foil-wrapped silage bales and unwrapped high-pressure bales.

Can be adjusted to accommodate the following bale sizes:

Round bales Ø 1.0 m to Ø 1.8 m,
square bales 1.6 m length of edge

Permissible loading capacity: 1200 kg

Purpose of the wrapped bale handler Pro H

The wrapped bale handler is designed to load and transport foil-wrapped silage bales and unwrapped high-pressure bales.

Bale width: 0.8 m to 2 m

Permissible loading capacity: 1000 kg

Purpose of the Maxi bale claw

The Maxi bale claw is designed for loading and transporting high-pressure bales made of hay, straw or similar materials.

Suitable for:

Round bales up to Ø 1.6 m,
square bales up to 1.6 m length of edge

Permissible loading capacity: 500 kg

Purpose of the rotating bale handler

The rotating bale handler is designed for loading and transporting high-pressure bales made of hay, straw or similar materials.

The rotating bale handler is only suitable for round bales, not for square bales!

Bale sizes: Ø 0.8 m up to Ø 1.8 m

Permissible loading capacity: 1200 kg

Purpose of the bale fork lift

The bale fork lift is designed for transporting and stacking individual high-pressure bales made of hay, straw or similar materials.

Permissible loading capacity: 500 kg

Purpose of the big bale fork

The big bale fork is designed for loading and transporting high-pressure bales made of hay, straw or similar materials.

The load must be picked up at the same time with both tines

When loading and transporting stacked bales, at no time may the top bale protrude over the security bars.

The stacked bales must be securely held in place by the security bars, so they cannot be too narrow.

Permissible loading capacity: 1000 kg



Intended use of the side shift carriage

The side shift carriage is a front loader implement which is designed exclusively for the transport and loading of pallets, including the load that is on it.

The shift function is used to improve the positioning during the loading or unloading of the pallets, but it is not to be operated during transport.

During transport (e.g. the transferring of pallets) make sure that the sliding frame is in the central position (cylinder extended half way).

The pallet fork can be loaded up to 2 000 kg in weight.

The maximum permissible loading capacity of the pallet tines must not be exceeded!

Purpose of the Bigbag lifter

The Bigbag lifter is designed for lifting, moving and loading Bigbags with one or two straps.

It is explicitly not suitable for 4-strap Bigbags!

Permissible loading capacity: 1000 kg

Purpose of the Bag-Lift

The Baglift is designed for lifting, moving and bulk bags and Bigbags with 4 straps.

It is explicitly not suitable for Bigbags with one or two straps.

Permissible loading capacity: 1000 kg

Intended purpose of the Tenias adapter

The Tenias adapter is a front loader adapter that is used to connect Tenias front loader implements and standard Euro change frames. The adapter may only be used in work processes that do not require the presence of people close to the load! It may only be used in combination with Stoll front loader and Tenias implements that are mounted on tractors.

When the adapter is being used, it must be ensured at all times that the adapted is engaged in both catch hooks, the self-locking mechanism is engaged and the cotter pin is securing the locking mechanism.

The Tenias adapter is an exchangeable attachment for the tractor and is ready for operation after being fastened to the Euro mount and when the front loader implement frame is locked.

When used as intended, the service life of the Tenias adapter is technically not limited.




Permissible payload: 1,000 kg

Purpose of the load hook

The load hook is designed for lifting and transporting loads that have a suitable load bearing or a suitable suspension attachment and/or sling.

Permissible loading capacity: 2000 kg

2.2 Safety instructions

-
-  Follow the operating instructions for the front loader! Read these instructions before you start working with the front loader and its implements!
 -  The implements are designed to be used with STOLL front loaders from the ProfiLine and ClassicLine series. You are expected to know the safety instructions detailed in the operating instructions of these front loaders!
 -  The operating instructions can be downloaded for free on the Internet at <http://www.stoll-germany.com>
-

DANGER

Inappropriate handling of the front loader or the front loader implements may result in serious injury or death!

- ▶ It is forbidden for anybody to remain in the area where the loader is working. Never stand under a suspended load!
 - ▶ When the tractor is parked, lower the lifting arms.
 - ▶ It is strictly prohibited to transport or lift people in the implement!
 - ▶ Never carry out any repair, cleaning or lubrication work when the lifting arms are raised! Lower and/or dismantle the lifting arms.
 - ▶ Before starting any work familiarize yourself with all the equipment and controls as well as their functions! Once you have started work, it is too late!
 - ▶ Before each time you use the front loader or the implement, put the hydraulic control units on the tractor in the neutral position!
 - ▶ Do not drive faster than 25 km/h, and no faster than 10 km/h when loading. Ensure that the air pressure in the front wheels is at the specified level when performing loading work!
 - ▶ Do not jolt the tractor when driving with a full load and at the maximum loading position. Push together and collect downhill, if possible, load the implement in the hollow part of the ground (dip, valley or trench); never drive across the slope with raised lifting arms, under certain circumstances increase the axle track of the tractor, do not work with standard gauge at the front even with the adjustment axle.
 - ▶ When driving into the load to be carried/lifted, do not hit the steering of the tractor!
 - ▶ Never drive on public roads with a loaded implement!
 - ▶ Only carry out loader work when visibility is good (clean cab windows, no risk of glare, work area sufficiently lit up if working in the dark).
 - ▶ Watch out for electric wires, can be a fatal hazard if you come into contact with them!
 - ▶ Hydraulic oil escaping under high pressure can penetrate the skin and cause serious injuries. If injured see a doctor immediately! Risk of infection!
 - ▶ Check hydraulic lines regularly and replace them if they are damaged or worn! The new hoses must fulfil the technical requirements as specified by the manufacturer of the equipment.
 - ▶ When looking for leaks, use the appropriate aids to avoid getting injured.
 - ▶ Excavation work: Before starting any work, make sure that there are not any wires or pipes installed in the area you are going to dig in. There is the risk of irreparable damage! The damage of underground electrical lines can be fatal! If gas pipes are damaged, there is the risk they may explode
 - ▶ Note the respective accident prevention regulations and labour laws, and the applicable rules for road use.
-



3 Description of functions

3.1 Top loading grip

3.1.1 Description

The top loading grip is used as an accessory for the STOLL pallet forks (models with 1600 kg or 2500 kg carrying capacity).

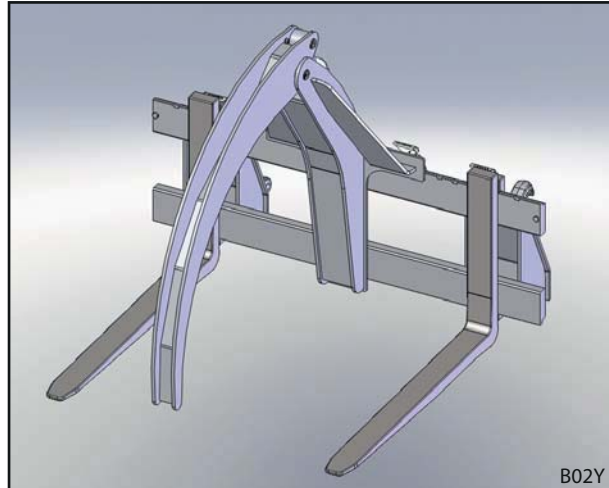
It has a frame that is screwed to the pallet fork and a top-loading grip that is put under pressure by a double-acting hydraulic cylinder.

To operate the double-acting hydraulic cylinder, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor and/or front loader.

The top loading grip is used for retrieving and loading logs. It can also handle and transfer wood cuttings from shrubs and bushes, and clamp together bulky items on the fork arms.

The top loading grip cannot be used when transporting pallets, because it projects into the work area of the fork arms.

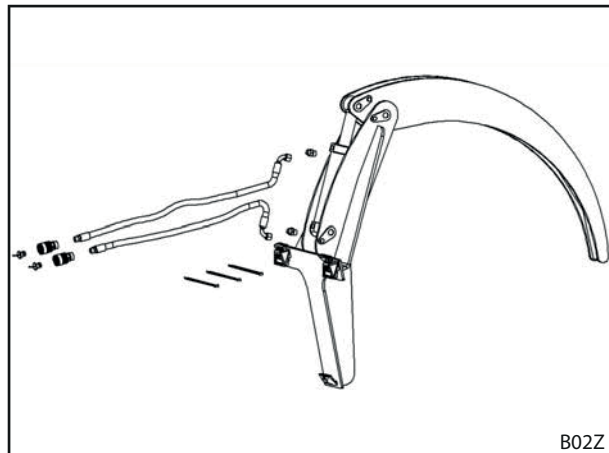
Thanks to the long tines of the top-loading grip, you can easily pick up, transport and unload a large volume of material in batches.



3.1.2 Before the first use

The top loading grip is fully assembled at the factory. Only the supply lines have to be mounted before the first use.

- (1) Screw on the two hydraulic hoses as shown in the picture with the male stud connectors.
- (2) Attach hydraulic couplings on the other end of the hoses.
- (3) Bundle the hoses using the cable ties.



3.1.3 Start-up



The tines of the top-loading grip must not be bent!
To ensure a smooth operation, replace or straighten bent tines.



It may only be used if the top-loading grip is firmly bolted to the pallet fork frame!

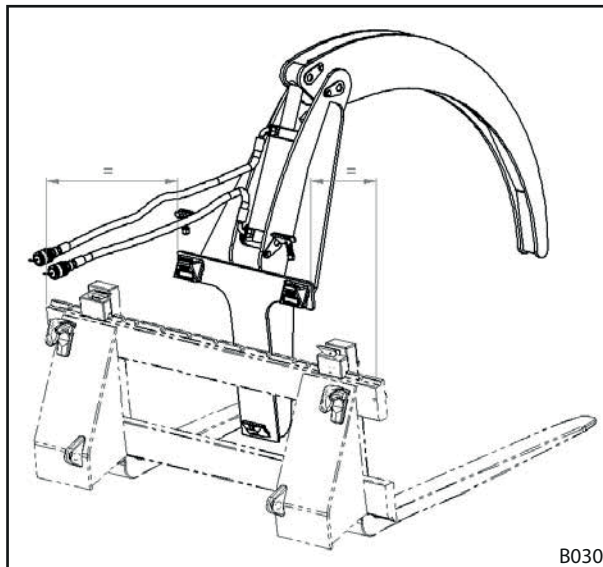
Installing on the pallet fork frame

- (1) Slide the top loading grip on the pallet fork frame from the side.



Make sure that you put the top loading grip exactly centred on the pallet fork frame and that the cut-outs for the locking device on the top loading grip are lined up!

- (2) Lock the top loading grip in place.
To disassemble, follow the procedure in reverse order.



Attaching to the lifting arms of the front loader

The mounting onto the lifting arms of the front loader is not significantly altered by the top-loading grip. When doing this, please refer to the operating instructions for the front loader!

Hydraulic connection

Using the plug-in couplings and/or multiple couplings, connect the hydraulic hoses to the connections of the 3rd control circuit.



Use

- (1) Position the pallet forks horizontally and open the gripping tines fully.
- (2) Insert the pallet fork into the material you want to pick up with the gripping tines open.
- (3) With the tractor engine running at about mid-speed swivel the gripping tines down as far as possible.

Note that the tines of the top-loading grip can swivel round lower than the underside of the fork arms!

This may damage the tines or the subsurface.

You can lift or tilt the implement slightly before closing of the gripping tine fully.

- (4) After lifting the load with the front loader, close and/or press down the tines of the top-loading grip again to securely clamp any remaining loose material that has been loaded up before transporting it.

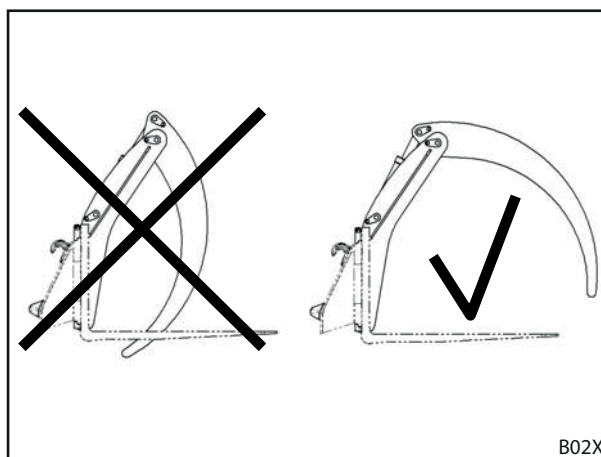
Caution: Drive with care!

3.1.4 Setting the implement down

When the hydraulic cylinder is fully extended (closed top loading grip), the tines of the upper gripper are about 10 cm lower than the fork arms (pictured left).

In this position, the implement may not be removed from the front loader or set down, as it can tilt in an uncontrolled manner!

To set down the implement, position the top loading grip so that the point of the tine is about the same height as the underside of the fork arms (pictured right).



3.2 Timber tongs with top-loading grip

3.2.1 Description

The timber tongs have a frame with 2 tines and a top-loading grip that is put under pressure by a double-acting hydraulic cylinder.

To operate the double-acting hydraulic cylinder, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor and/or front loader.

The timber tongs are used for retrieving and loading timber logs and small logs.

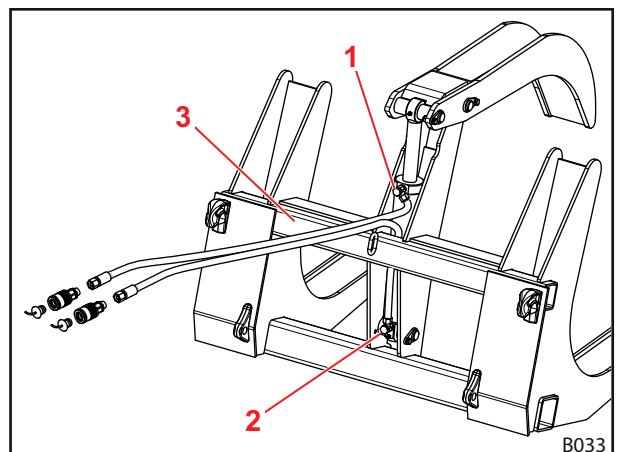


B032

3.2.2 Before the first use

The timber tongs are fully assembled at the factory. Only the supply lines of the top-loading grip have to be mounted before the first use.

- (1) Install the longer hydraulic hose with the 45° end behind the traverse **(3)** and connect on the elbow swivel sockets **(2)**.
- (2) Connect the hydraulic hose with the 90° on the elbow swivel sockets **(1)**.
- (3) Attach the hydraulic couplings on the other end of the hoses.
- (4) Bundle the hoses with the cable ties.



B033



3.2.3 Start-up



The tines of the top-loading grip must not be bent!
To ensure a smooth operation, replace or straighten bent tines.

Attaching to the lifting arms of the front loader

The timber tongs are designed to be mounted on the Euro change frame.

When doing this, please refer to the operating instructions for the front loader!

Hydraulic connection

Using the plug-in couplings and/or multiple couplings, connect the hydraulic hoses to the connections of the 3rd control circuit.

Use

- (1) Position the timber tongs horizontally and open the gripping tines fully.
- (2) Insert the timber tongs into the material you want to pick up with the gripping tines open.
- (3) With the tractor engine running at about mid-speed swivel the gripping tines down as far as possible.
- (4) After lifting the load with the front loader, close and/or press down the tines of the top-loading grip again to securely clamp any remaining loose material that has been loaded up before transporting it.

Caution: Drive with care!

3.3 Grabbing bucket

3.3.1 Description

Structure of the grabbing bucket:

- 1 Tines of the top grapple
- 2 2 double-acting hydraulic cylinders
- 3 Bucket body
- 4 Support hooks for Euro change frames

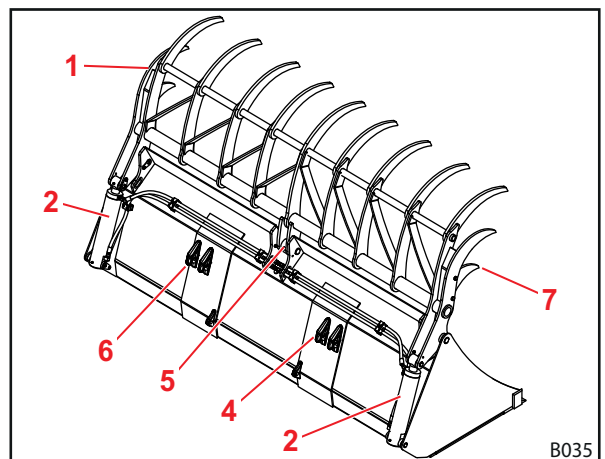
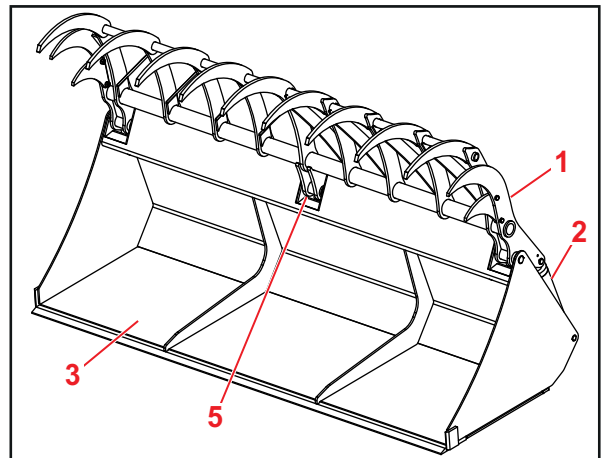
Special features with a shovel width from 2.5 m:

- 5 3rd bearing point in the middle
- 6 Additional hooks for FZ100 change frames

Option

- 7 2 additional "corn cutters"

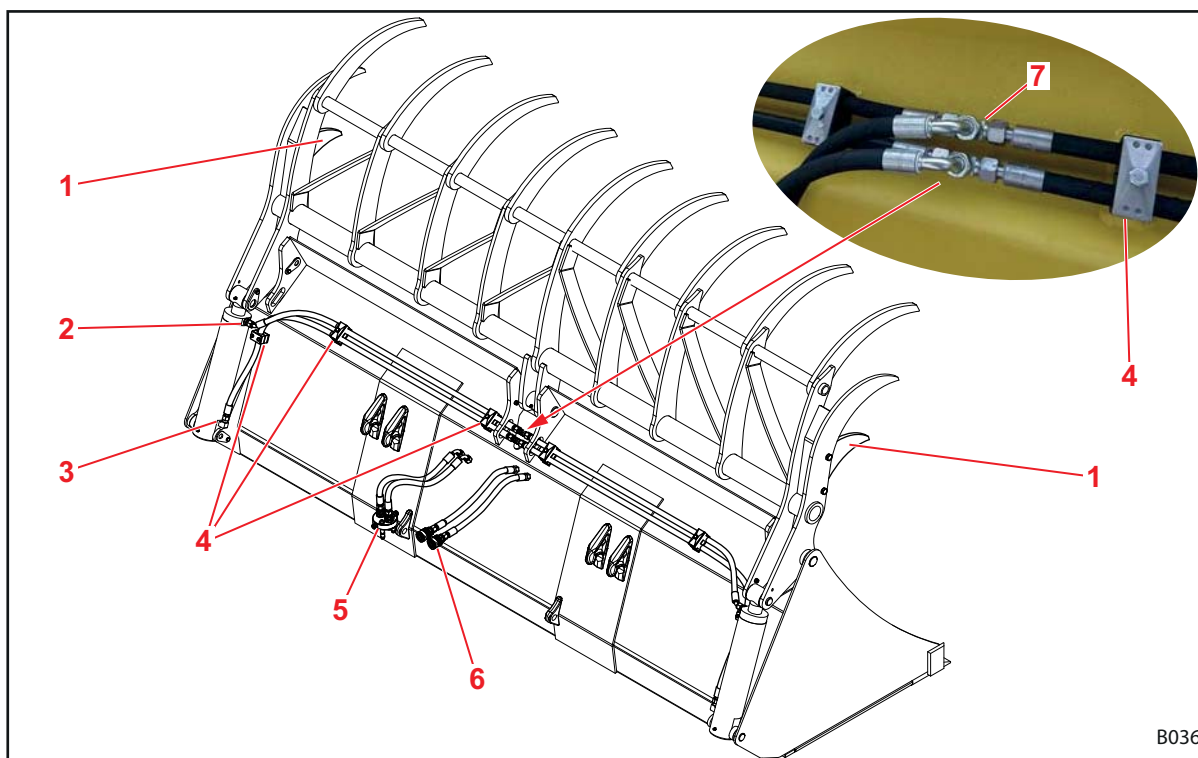
To operate the double-acting hydraulic cylinders, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor and/or front loader.



B035



3.3.2 Before the first use



The grabbing bucket is fully assembled at the factory. The hydraulic lines and the “corn cutters” (optional) must be mounted before the first start-up.

Install the hydraulic lines on both sides of the bucket

- (1) Screw in the male stud connector on the top connection **(2)** of the hydraulic cylinder.
- (2) Connect the shorter hydraulic hose with the 45° to the male stud connector **(2)**.
- (3) Connect the longer hydraulic hose to the bottom connection **(3)**.
- (4) Connect the hydraulic lines with the T-pieces **(7)**.
Make sure the hose lines are correctly assigned:
Both the top ends of the cylinder must be connected together.
Both the lower ends of the cylinder must be connected together.
- (5) Secure the hydraulic hoses with the pipe clamps **(4)**.
The number of pipe clamps may vary depending on the width of the bucket.

Connect the supply lines:

- (6) Connect 2 supply lines to the T-pieces.
When using supply lines with a 90° end: pay attention to the alignment, see photo!
- (7) Attach the hydraulic couplings **(5, 6)** on the other end of the hose lines.
- (8) Bundle the hoses with the cable ties.

Option: Attach corn cutters

- (9) Secure the “corn cutters” **(1)** with 2 screws M14 each with nut and lock washer on the inner side of the top-loading grip.



Do not put the “corn cutters” on the top loading grip from the outside. Otherwise they will collide with the side wall!

3.3.3 Start-up



The tines of the top grapple must not be bent!
To ensure a smooth operation, straighten bent tines.

Attaching to the lifting arms of the front loader

The grabbing bucket is designed to be mounted on the Euro change frame.

Construction sizes of with shovel widths from 2.5 m can also be used on the reinforced change frame of the front loader FZ100.

When doing this, please refer to the operating instructions for the front loader!

Hydraulic connection

Using the plug-in couplings and/or multiple couplings, connect the hydraulic hoses to the connections of the 3rd control circuit.

Use

With material that is not heavily compacted (e.g. corn silage)

- (1) Position the grabbing bucket horizontally and fully open the top grapple.
- (2) Pierce the stack with the grabbing bucket with some momentum, with its top grapple open.
- (3) Tilt the grabbing bucket slightly.
- (4) With the tractor engine running at about mid-speed, swivel the top grapple until it is in the lower end position.

With material that is heavily compacted (e.g. uncut grass silage)

- (1) Tip out the grabbing bucket about 45° and fully open the top grapple.
- (2) Drag the block out of the silage bed with the top grapple.

Caution: Drive with care!



Clean the area behind the hydraulic cylinders on a regular basis!



Otherwise the dirt that accumulates here will become more and more compacted by the movement of the hydraulic cylinder and eventually this will damage the hydraulic cylinder.



3.4 Disposal bucket

3.4.1 Description

Structure of the disposal bucket:

- 1 Disposal top grapple
- 2 2 double-acting hydraulic cylinders
- 3 Bucket body
- 4 Support hooks for Euro change frame

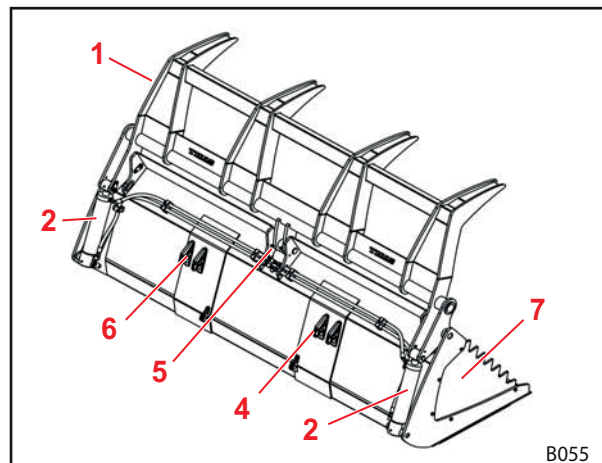
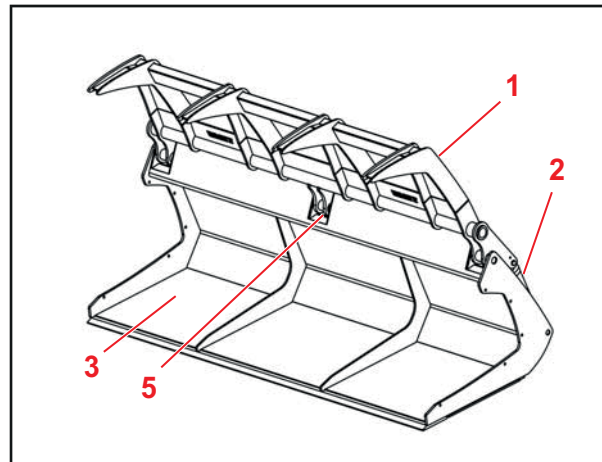
Special features for bucket widths greater than 2.5 m:

- 5 3rd bearing position in the middle
- 6 Additional hooks for the FZ100 change frame

Option

- 7 2 additional "side plates"

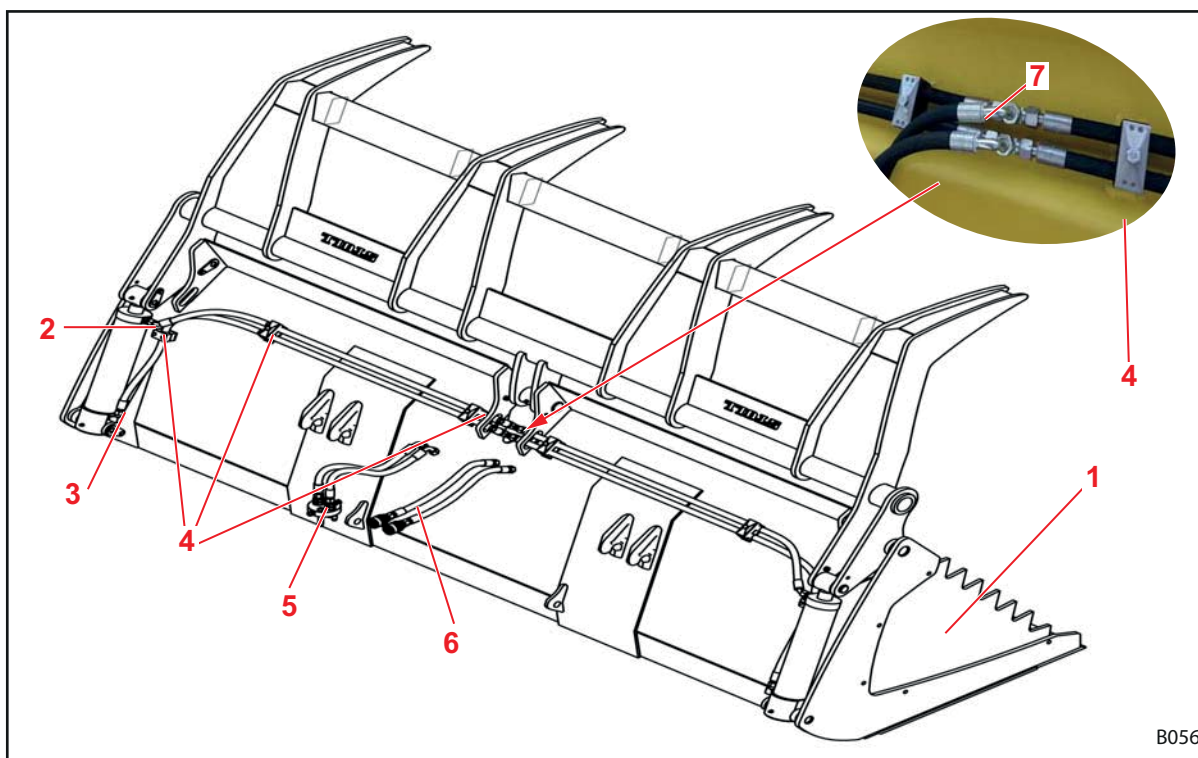
To operate the double-acting hydraulic cylinders, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor or front loader.



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3.4.2 Before using for the first time



The disposal bucket is fully assembled at the factory. The hydraulic lines and the "side plates" (optional) still need to be mounted prior to the first use.

Install the hydraulic lines - on both sides of the bucket

- (1) Screw in the screw-in fitting on the top connection **(2)** of the hydraulic cylinder.
- (2) Connect the shorter hydraulic hose with the 45° end on the the screw-in fitting **(2)**.
- (3) Connect the longer hydraulic hose on the bottom connection **(3)**.
- (4) Connect the hydraulic lines with the T-pieces **(7)**.
Pay attention to the correct assignment of the hose lines:
the two top ends of the cylinders must be connected to each other.
The two bottom ends of the cylinders must be connected to each other.
- (5) Fasten the hydraulic hoses with the hose clamps **(4)**.
The number of hose clamps differs depending on the bucket width.

Connect the supply lines:

- (6) Connect 2 supply lines to the T-pieces.
For supply lines with 90° end: Pay attention to the orientation, see photo!
- (7) Attach the hydraulic couplings **(5, 6)** on the other end of the hose lines.
- (8) Bundle the hoses with the cable ties.

Option: install the side plates

- (9) Fasten the "side plates" **(1)** each with 2 M12 screws with nut and safety ring on the inside of the bucket body.



Do not put the "side plates" on the bucket body from the outside.



3.4.3 Start-up

NOTICE

Possible destruction of the implement!

The implement is only suitable for transporting bulk goods. Use for demolition work can lead to destruction of the implement.

- ▶ Only use the implement for the transport of bulk goods.



The tines of the top grapple may not be bent!
To ensure a smooth operation, straighten bent tines.

Attaching to the lifting arms of the front loader

The disposal bucket is designed to be mounted on the Euro change frame.

The design sizes with a bucket width wider than 2.5 m can also be used on the reinforced change frame of the FZ100 front loader.

When doing this, please refer to the operating instructions for the front loader!

Hydraulic connection

Using the plug-in couplings or multiple couplings, connect the hydraulic hoses to the connections of the 3rd control circuit.

Use

For low-density material (e.g. compost)

- (1) With the disposal bucket in horizontal position, fully open the top grapple.
- (2) With the top grapple opened, drive the disposal bucket into the pile with a bit of momentum.
- (3) Slightly tip the disposal bucket.
- (4) With the tractor engine running around medium speed, lower the top grapple until it reaches the bottom end position.

For loose material (e.g. uncut pruned material)

- (1) Tip the disposal bucket down by about 45° and open the top grapple all the way.
- (2) Drive into the pruned material with the top grapple.
- (3) Close the top grapple.

Caution: drive carefully!



Clean the area behind the hydraulic cylinders regularly!



Dirt that accumulates here is otherwise continuously compacted by the movement of the hydraulic cylinder, until the hydraulic cylinder is damaged.



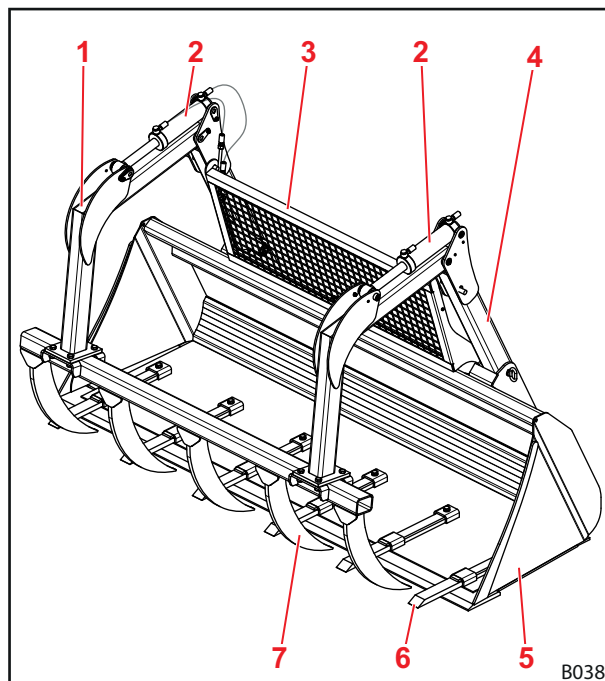
3.5 Bucket with grab UNI (Maxi Grapple Fork)

3.5.1 Description

Construction of the grabbing bucket

- 1 Swivel arm
- 2 2 double-acting hydraulic cylinders
- 3 Grid
- 4 2 holders
- 5 Bucket body
- 6 Fork arms
- 7 Gripping tines (top loading grip)

To operate the double-acting hydraulic cylinders, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor or front loader.



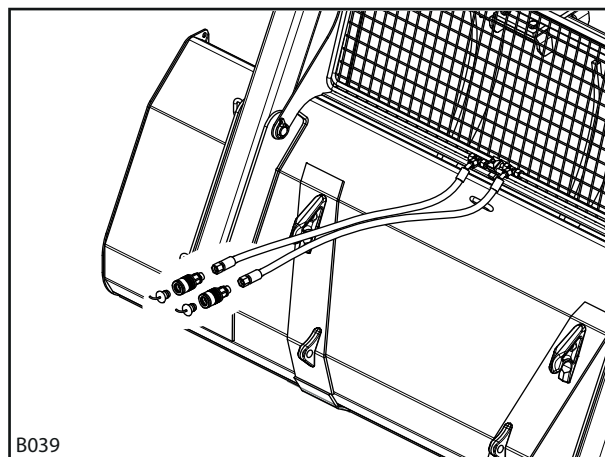
3.5.2 Before the first use

Mount the grabbing bucket

- (1) Mount the grabbing bucket according to the installation instructions A2005.

Connect the supply lines:

- (2) Connect 2 supply lines to the T-pieces.
- (3) Attach the hydraulic couplings on the other end of the hose lines.
- (4) Bundle the hoses with the cable ties.





3.5.3 Start-up



The tines of the top grapple may not be bent!
To ensure a smooth operation, replace or straighten bent tines.

Attaching to the lifting arms of the front loader

The grabbing bucket is designed to be mounted on the Euro change frame.

When doing this, please refer to the operating instructions for the front loader!

Hydraulic connection

Using the plug-in couplings or multiple couplings, connect the hydraulic hoses to the connections of the 3rd control circuit.

Use

- (1) Position the grabbing bucket horizontally and fully open the top loading grip.
- (2) Drive the grabbing bucket into the load to be lifted with some momentum, with the top-loading grip open.
- (3) Tilt the grabbing bucket slightly.
- (4) With the tractor engine running at about mid-speed, swivel the top loading grip down.

Caution: drive carefully!

3.6 Bucket with grapple and fork with grapple

3.6.1 Description

Construction of the bucket and fork with grapple

- 1 2 double-acting hydraulic cylinders
- 2 Top grapple
- 3 Gripping tines
- 4 Bucket body
- 5 2 side plates (optional)

Bucket with grapple (photo above)

Bucket with grapple (middle photo)

- 6 2 side cutters (optional)

Fork with grapple (photo below)

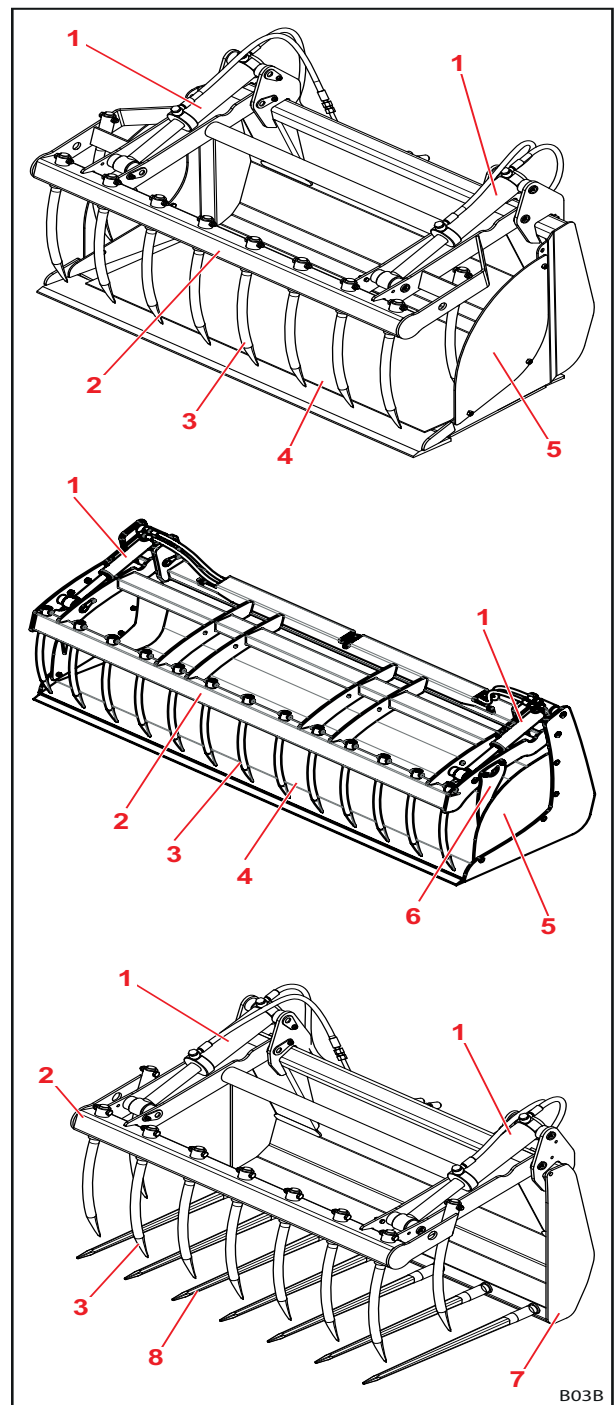
- 7 Basic unit
- 8 Fork arms

To operate the double-acting hydraulic cylinder of the top grapple, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor and/or front loader.

The bucket and fork with grapple are used to pick up and load manure, compost, wood cuttings from shrubberies and silage. The bucket with grapple can also be used to handle and transfer light bulk material.

The bucket and fork with grapple are not suitable for picking up lumpy material e.g. firewood or stones, because the pieces of wood or stones can get stuck or jammed between the tines and bend them.

The number of tines varies depending on the size.





3.6.2 Before the first use

The bucket / fork with grapple are fully assembled at the factory. The hydraulic lines and the optional accessory must be mounted before the first start-up.

Bucket with grapple Standard & fork with grapple:

Mount the hydraulic lines:

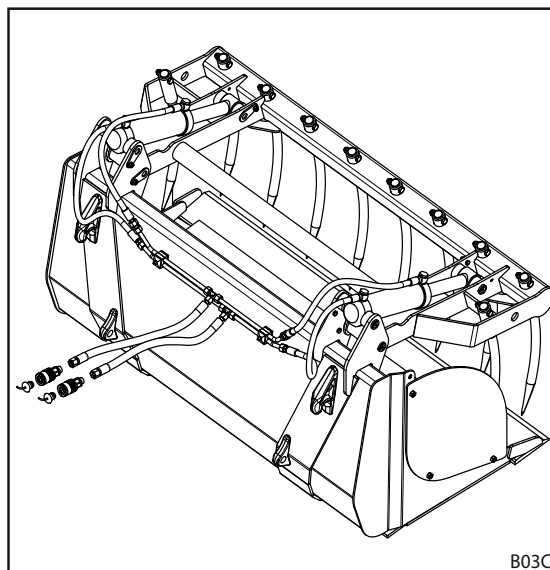
- (1) Mount the hydraulic lines according to the installation instructions A1913.

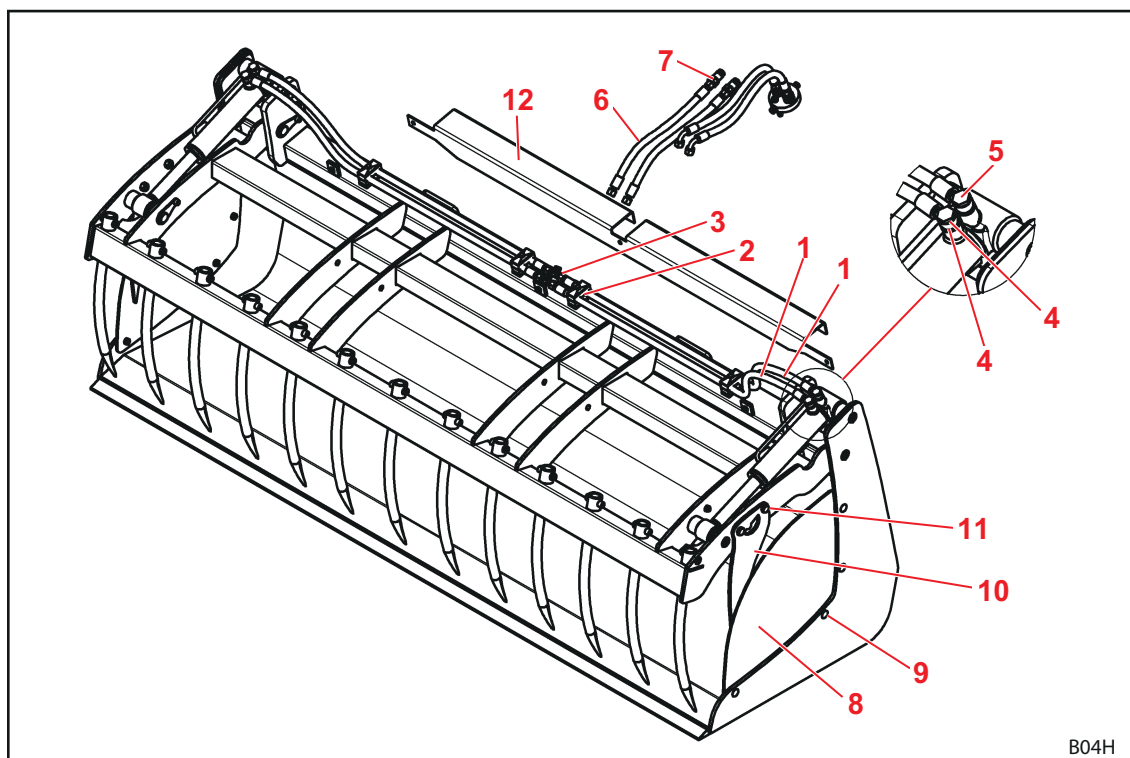
Install the side plates (optional):

- (2) Secure the side plates with 3 screws M10x20 each with nuts.

Connect the supply lines:

- (3) Connect 2 supply lines to the T-pieces.
- (4) Attach the hydraulic couplings on the other end of the hose lines.
- (5) Bundle the hoses with the cable ties.





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Bucket with grapple Heavy:

Install the hydraulic lines on both sides of the bucket

- (1) Remove the cover plate **(12)**.
- (2) Connect the hydraulic hoses **(1)** to the connections of the hydraulic cylinders.
Each connection requires a hollow screw **(5)** and two sealing rings **(4)**. After tightening the hollow screws, it is important to ensure that the hose lines lead away from the hydraulic cylinder at a rough right angle.
- (3) Connect the hydraulic lines with the T-piece **(3)**.
Make sure the hose lines are correctly assigned:
The two front connections of the cylinders must be connected to each other.
The two rear connections of the cylinders must be connected to each other.
- (4) Secure the hydraulic hoses with the pipe clamps **(2)**.
- (5) Attach the cover plate **(12)** again.

Connect the supply lines

- (6) Connect 2 supply lines **(6)** to the T-pieces **(3)**.
When using supply lines with a 90° end: pay attention to the alignment!
- (7) Attach the hydraulic couplings **(7)** on the other end of the hose lines.
- (8) Bundle the hoses with the cable ties.

Option: Install the side panel

- (9) Secure the side panels **(8)** each with 4 screws M10x25 **(9)** with nuts on the inner side of the fixed side wall.

Option: Install the side cutter

- (10) Secure the "side cutters"**(10)** each with 2 screws M14x35 **(11)** with nuts on the external side of the upper grapple.



3.6.3 Start-up



The tines of the top grapple must not be bent!
To ensure a smooth operation, replace or straighten bent tines.

Attaching to the lifting arms of the front loader

The implement is designed to be mounted on the Euro change frame.

When doing this, please refer to the operating instructions for the front loader!

Hydraulic connection

Using the plug-in couplings and/or multiple couplings, connect the hydraulic hoses to the connections of the 3rd control circuit.

Use

- (1) Position the bucket and/or fork with grapple horizontally and fully open the top grapple.
- (2) Insert the bucket and/or fork with grapple into the material you want to pick up with the top grapple open.
- (3) With the tractor engine running at about mid-speed, swivel the top grapple downwards until it is in the lower end position. You can lift or tilt the implement slightly before completely closing the top grapple.
- (4) After lifting the load, close and/or press down the top grapple again to securely clamp any remaining loose material that has been loaded up before transporting it

Caution: Drive with care!

3.6.4 Setting the implement down

WARNING

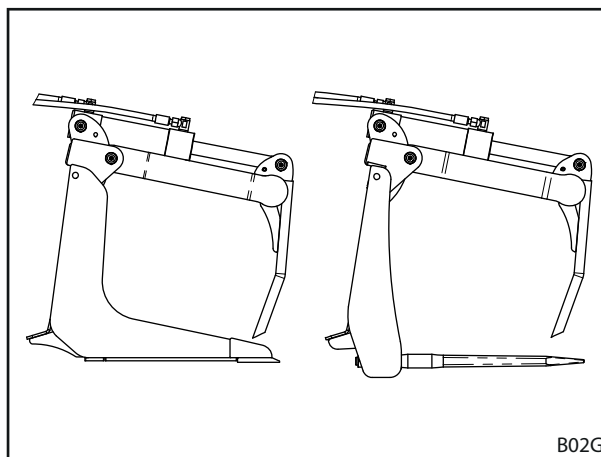
Risk of tipping!

When the top grapple is open the bucket and/or fork with grapple may tip over. People can be injured.

- Only set the bucket and/or fork with grapple down when the top grapple closed and fully tilted downward!

When the hydraulic cylinder is fully extended the top grapple is tilted completely down.

In this position, the bucket with grapple and/or fork with grapple can safely be removed from the front loader and set down.





3.7 Silage cutting grapple

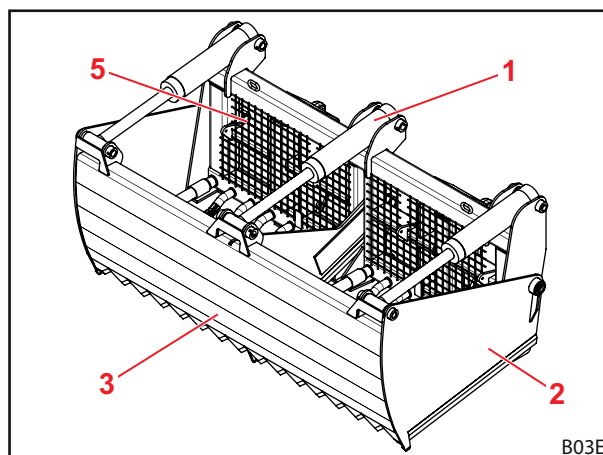
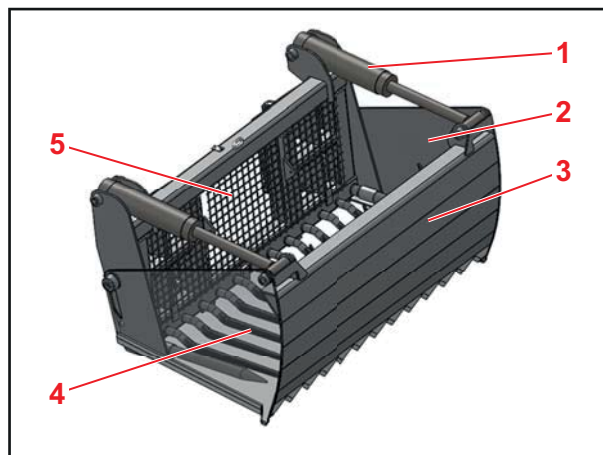
3.7.1 Description

Construction of the silage cutting grapple

- 1 2 or 3 double-acting hydraulic cylinders
- 2 Side wall
- 3 Cutting top grapple
- 4 Fork arms
(side wall shown transparent)
- 5 Grid rear wall

To operate the double-acting hydraulic cylinder of the top grapple, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor and/or front loader.

The number of tines varies depending on the size.

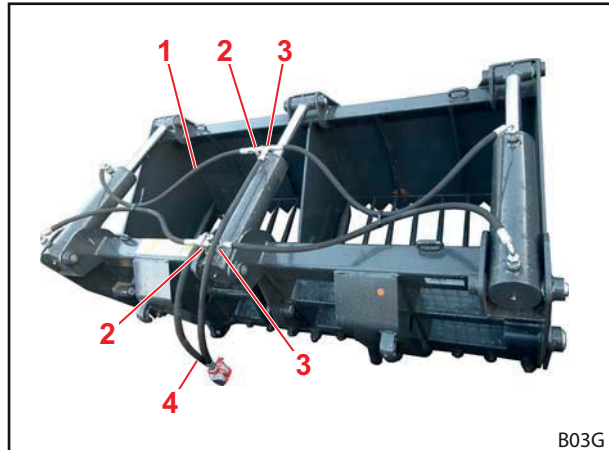




3.7.2 Before the first use

Install hydraulic lines if there are 3 hydraulic cylinders

- (1) Connect 4 hydraulic lines **(1)** with the 90° end with male stud connectors on both of the external hydraulic cylinders.
- (2) Connect 2 T-pieces **(3)** on the middle hydraulic cylinder with male stud connectors.
- (3) Screw 2 T-pieces **(2)** on the T-pieces **(3)**.
- (4) Connect 4 hydraulic lines **(1)** to the T-pieces **(2, 3)**.
- (5) Bundle the hoses with the cable ties.



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Install hydraulic lines if there are 2 hydraulic cylinders

- (1) Connect 4 hydraulic lines with the 90° end with male stud connectors on both of the hydraulic cylinders.
- (2) Connect both upper hydraulic lines with a T-piece.
- (3) Connect both lower hydraulic lines with a T-piece.

Connect the supply lines:

- (4) Connect 2 supply lines **(4)** to the T-pieces **(2)**.
- (5) Attach the hydraulic couplings on the other end of the hose lines.
- (6) Bundle the hoses with the cable ties.

3.7.3 Start-up

Attaching to the lifting arms of the front loader

The implement is designed to be mounted on the Euro change frame.

When doing this, please refer to the operating instructions for the front loader!

Hydraulic connection

Using the plug-in couplings and/or multiple couplings, connect the hydraulic hoses to the connections of the 3rd control circuit.

Information on the cutting top grapple

- Keep the cutting edges of the cutting top grapple clean and sharp to ensure a smooth workflow.
- Sharpen damaged blades with a smoothing file as and when required.
- Take extreme care when working with an angle grinder for resharping the blades. The cutting edges must not burn out!
- If the blades are seriously damaged (e.g. if there are foreign bodies in the silage bed), replace the cutting blade. (Remove the segments that are damaged and insert the individual blades.)

Use

- (1) Position the silage cutting gripper horizontally and fully open the top grapple.
- (2) Insert the silage cutting gripper, with its top grapple open, into the material to be picked up.
- (3) Pull up the parking brake.
- (4) With the tractor engine running at about mid-speed, swivel the top grapple downwards until it is in the lower end position.
The cutting edge will then cut to the lower tine level (overcut) creating a better separation between the silage block and the silage bed.
- (5) Loosen the tractor's parking brake.
- (6) Tilt the silage cutting gripper slightly.

i Because of the overcut of the cutting edge, when the silage cutting gripper is removed out of the silage bed, the silage underneath it can be loosened and the cutting edge can be damaged.

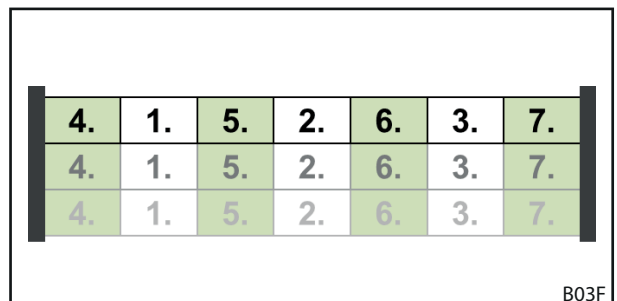
- Before pulling the silage cutting gripper out, tilt it!
- Or swivel the top grapple sufficiently back!

- (7) Drive in reverse out of the silage bed and gently lift the silage block with the front loader.

i Avoid unnecessary transverse loads of the silage cutting gripper and the front loader!

i Make sure that the silage is taken out of the silage bed in such a way that either there is silage on both sides of the silage cutting gripper or there is no silage on both sides.

i The image shows an example of the withdrawal sequence for individual silage blocks.



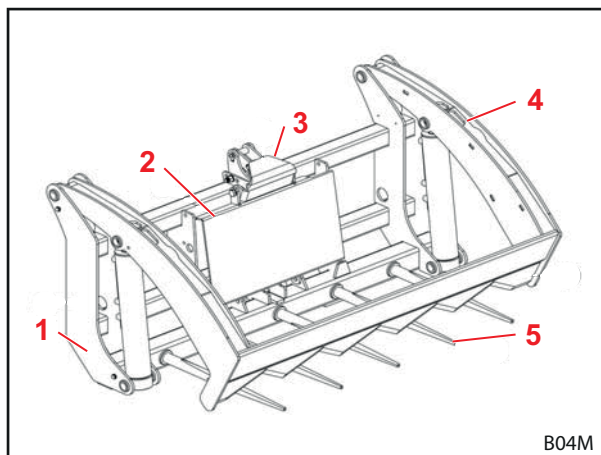
3.8 Round bale divider

3.8.1 Description

Composition of the round bale divider

- 1 Main frame
- 2 Rear panel
- 3 Gripper mechanism
- 4 Cutting frame
- 5 Bale tines

To operate the double-acting hydraulic cylinder of the cutting frame, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor or front loader.

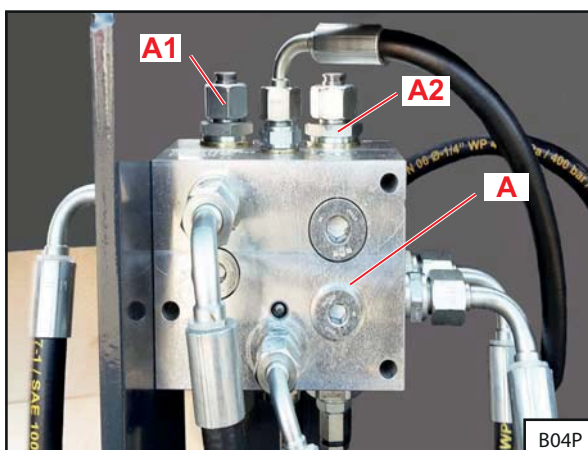
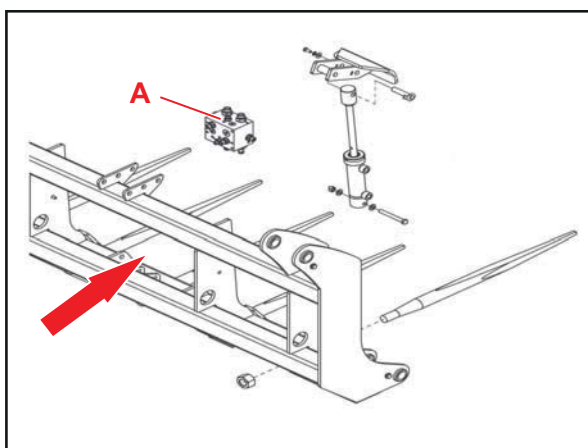


3.8.2 Before the first use

The round bale divider is fully assembled at the factory. Only the supply lines have to be mounted before the first use.

Connect the supply lines:

- (1) Remove the two locking plugs (**A1**) on the installed control valve (**A**) of the round bale divider.
- (2) Connect two hydraulic hoses to the male stud connectors (**A2**).
- (3) Attach the hydraulic couplings on the other end of the hose lines.



3.8.3 Start-up

Attaching to the lifting arms of the front loader

The implements are designed to be mounted on the Euro change frame.

When doing this, please refer to the operating instructions for the front loader!

Hydraulic connection

Using the plug-in couplings or multiple couplings, connect the hydraulic hoses to the connections of the 3rd control circuit.

Instructions for the cutting frame

- The blades of the round bale divider must be sharpened on a regular basis.
- You must always wear protective clothing and safety shoes when working on the blades.
- In a normal operation, the blades must only be sharpened if they are damaged.
- The blades may only be sharpened using a file.
- Do not use portable grinding machines as this will overheat the blades and affect their sharpness.

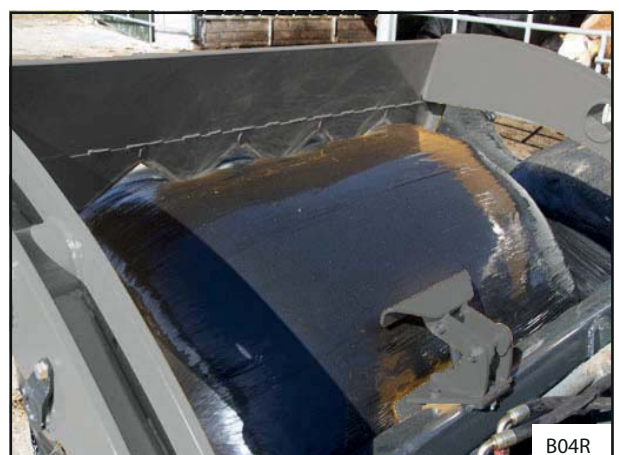
Use

Process round bales with the round bale divider.

- (1) Drive towards the bale with the round bale divider fully open and with tines lowered to the ground until the bale is firmly pressed against the main frame of the gripping device.



- (2) Close the frame with the hydraulic control lever above the bale while the gripper closes at the same time and holds the plastic wrapping in place.





- (3) Transport the bale to the place where it is to be cut and close the bale cutter with the hydraulic control lever to cut the bale through the plastic wrapping.



- (4) Open the round bale divider almost fully with the control levers and raise the loader at the same time to unload the bale halves onto the feed belt or into the feed trolley.



- (5) Raise the loader even further to remove the plastic wrapping, which is still held by the gripping claws, from the bale.



- (6) Unload the plastic wrapping at a suitable collection point to be recycled by fully opening the round bale divider.



3.8.4 Setting the implement down

Place the round bale divider completely onto the ground.

Make sure that the round bale divider is always fully closed when you do not need it.



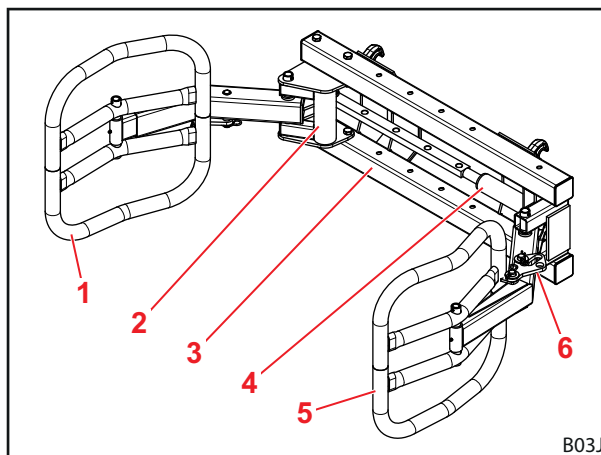
3.9 Wrapped bale handler

3.9.1 Description

Construction of the wrapped bale handler:

- 1 Gripper right
- 2 Adjustable bearing block
- 3 Frame with support hooks for Euro change frames
- 4 Double-acting hydraulic cylinder
- 5 Gripper left
- 6 Connecting link for the gripper setting (for both grippers)

To operate the double-acting hydraulic cylinders, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor and/or front loader.

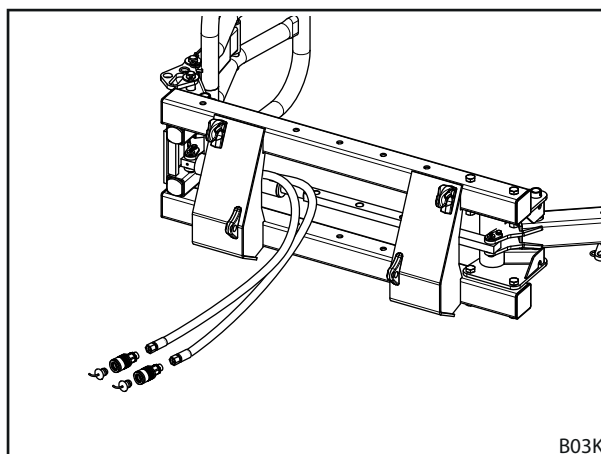


3.9.2 Before the first use

The wrapped bale handler is fully assembled at the factory. The hydraulic lines must be mounted before the first start-up.

Connect the supply lines:

- (1) Connect 2 supply lines to the hydraulic cylinder with male stud connectors.
On supply lines with a 90° end: 90° end on the hydraulic cylinder
- (2) Attach the hydraulic couplings on the other end of the hose lines.
- (3) Bundle the hoses with the cable ties.



3.9.3 Start-up

Attaching to the lifting arms of the front loader

The wrapped bale handler is designed to be mounted on the Euro change frame.

When doing this, please refer to the operating instructions for the front loader!

Hydraulic connection

Using the plug-in couplings and/or multiple couplings, connect the hydraulic hoses to the connections of the 3rd control circuit.

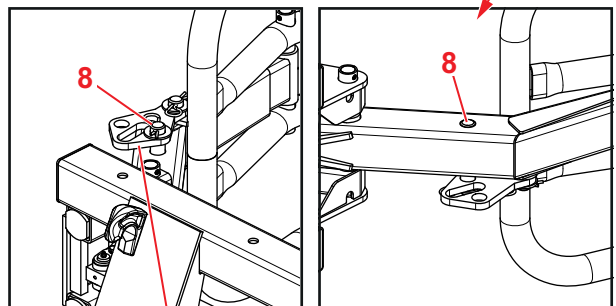
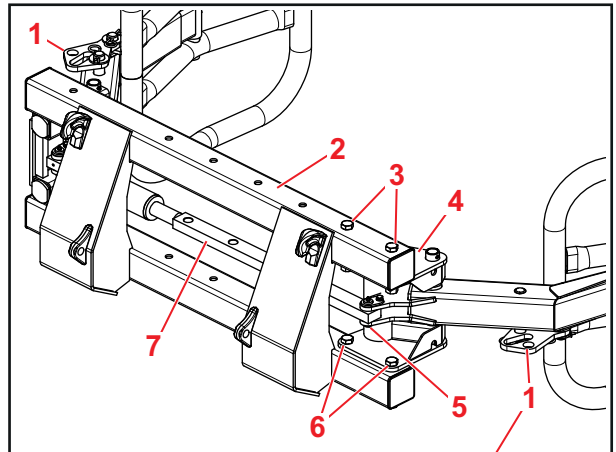
Setting the wrapped bale handler to the size and shape of the bale

Setting the distance of the gripper to the width of the bale and/or the diameter of the bale:

- (1) Loosen and take out bolts (5)
- (2) Unscrew 4 screws (3, 6).
- (3) Slide the bearing block (4) into the desired position.
- (4) Secure the bearing block (4) again with the screws 3, 6.
- (5) Install the bolts (5) again.

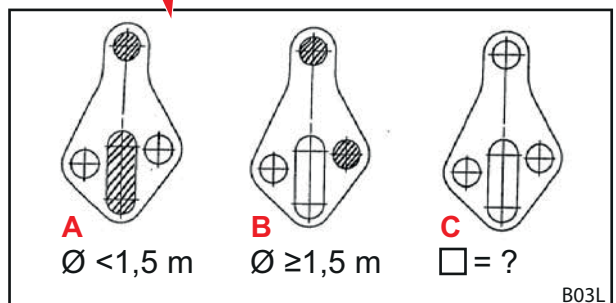


The number of free drill holes on the frame (2) on the right next to the screws (3) and on the control rod (7) on the right next to the bolt (5) must be the same!



Setting the angle of the gripper on the connecting links (on both sides)

- Insert the bolt (8) for round bales measuring less than 1.5 m in diameter through the slot. (Slot pattern A)
- Insert the bolt for round bales measuring more than 1.5 m in diameter through the drill hole with a short distance. (Slot pattern B)
- With square bales or round lying bales, different settings can be best depending on the nature of the bales (proportions, density). You will find best possible setting through trial and error.



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Use



Notes

- Press the silage bales as close together as possible to make them easier to load.
- Press the bales that have fermented again and are very soft, several times with the tongs before transporting them, because these bales come apart too easily, which means that under certain circumstances they may slip off the tongs if the journey is uneven.
- Do not grip very long square silage bales (longer than 1.50 m) at the front ends, as they tend to sag under their own weight and thereby slip off.
- Make sure that when gripping and transporting the bales they are on the inner side of the support frame, as this will ensure a safe and secure handling of the bale.
- If possible, only wrap the bales in the final storage area. The sensitive foil-wrapped bales can be damaged on longer trips.
- You can pick up, transport and put down and/or stack the foil-wrapped bales with the wrapped bale handler either when they are standing up or lying down.

- (1) Position the wrapped bale handler horizontally and fully open.
- (2) Drive towards the bale until it rests on the frame of the wrapped bale handler.
- (3) Close the wrapped bale handler until it securely grips the bale.
- (4) After lifting the bale with the front loader, you can press a little more if necessary, in order to securely clamp the bale before transporting it.

Caution: Drive with care!



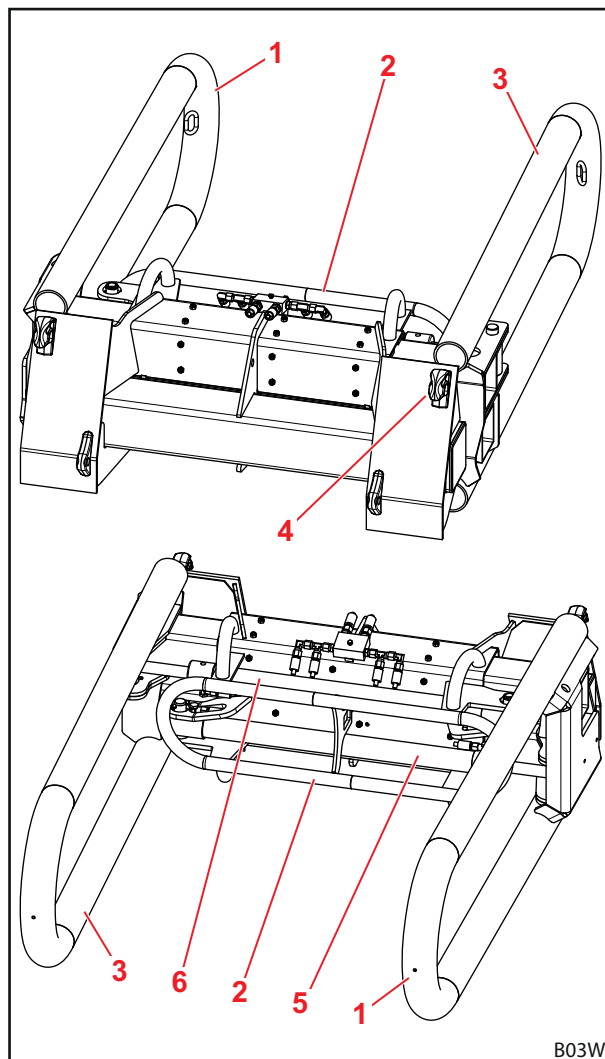
3.10 Wrapped bale handler Pro H

3.10.1 Description

Construction of the wrapped bale handler:

- 1 Gripper left
- 2 Stop frame
- 3 Gripper right
- 4 Support hooks for Euro change frames
- 5 Double-acting hydraulic cylinder for left gripper
- 6 Double-acting hydraulic cylinder for right gripper

To operate the double-acting hydraulic cylinders, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor and/or front loader.





3.10.2 Before the first use

The wrapped bale handler is fully assembled at the factory. The hydraulic lines (yellow in the image) must be mounted before the first start-up.

Install the hydraulic lines:

- (1) Attach 4 elbow swivel sockets **(7)** to the hydraulic cylinders.
- (2) Secure the locking block **(6)** with a screw M6x45 with lock washer.
- (3) Attach 2 T-pieces **(5)** with male stud connectors to the locking block **(6)**
- (4) Attach 2 elbow connectors **(4)** to the T-pieces.
- (5) Connect 2 hydraulic lines 8x400 **(8)** to the elbow connectors **(4)** and the top hydraulic cylinder.

Do not cross the lines **(8)**: Right connector to the right cylinder end, left connector to the left cylinder end!

- (6) Connect 2 hydraulic lines 8x600 **(9)** to the T-pieces **(5)** and the lower hydraulic cylinder.

Install the lines **(9)** crosswise: Left connector to the right cylinder end and vice versa!

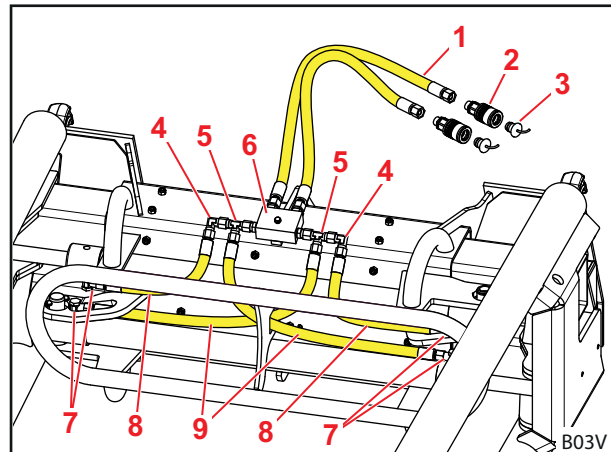
Connect the supply lines:

- (7) Attach 2 supply lines 10x1300 **(1)** with male stud connectors to the locking block **(6)**.
- (8) Attach coupling sleeves on the other end of the hose lines **(2)**.

The coupling sleeve that supplies the *openside* of the cylinder gets the red cap **(3)**, the other side gets the black.

Alternatively, you can also attach a multiple coupling here that is suitable for the equipment of the front loader.

- (9) Bundle the hoses with the cable ties.



3.10.3 Start-up

Attaching to the lifting arms of the front loader

The wrapped bale handler is designed to be mounted on the Euro change frame.

When doing this, please refer to the operating instructions for the front loader!

Hydraulic connection

Using the plug-in couplings and/or multiple couplings, connect the hydraulic hoses to the connections of the 3rd control circuit.

Use



Notes

- Press the silage bales as close together as possible to make them easier to load.
 - Press the bales that have fermented again and are very soft, several times with the tongs before transporting them, because these bales come apart too easily, which means that under certain circumstances they may slip off the tongs if the journey is uneven.
 - Do not grip very long square silage bales (longer than 1.50 m) at the front ends, as they tend to sag under their own weight and thereby slip off.
 - Make sure that when gripping and transporting the bales they are on the stop frame, as this will ensure a safe and secure handling of the bale.
 - If possible, only wrap the bales in the final storage area. The sensitive foil-wrapped bales can be damaged on longer trips.
 - You can pick up, transport and put down and/or stack the foil-wrapped bales with the wrapped bale handler either when they are standing up or lying down.
-

- (1) Position the wrapped bale handler horizontally and fully open.
- (2) Drive towards the bale until it rests on the stop frame of the wrapped bale handler.
- (3) Close the wrapped bale handler until it securely grips the bale.
- (4) After lifting the bale with the front loader, you can press a little more if necessary, in order to securely clamp the bale before transporting it.

Caution: Drive with care!



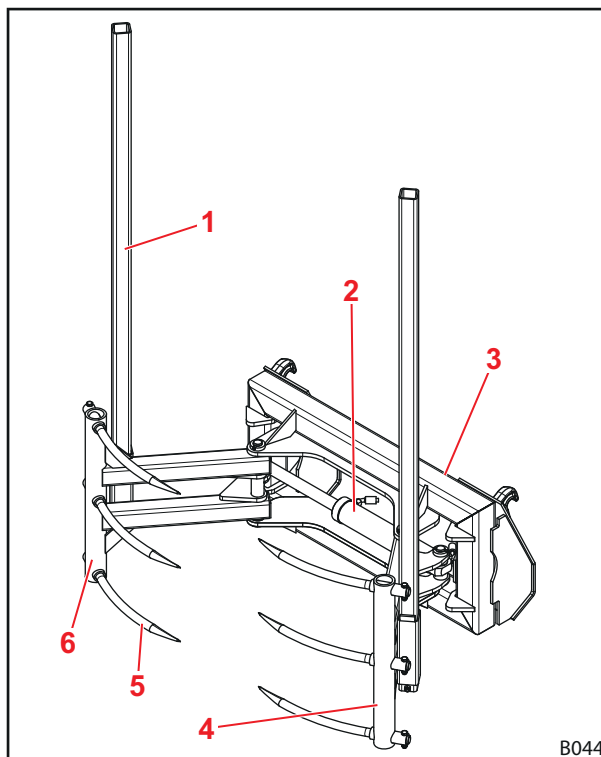
3.11 Maxi bale claw

3.11.1 Description

Construction of the Maxi bale claw:

- 1 2 security bars
- 2 Double-acting hydraulic cylinder
- 3 Frame with support hooks for Euro change frames
- 4 Left gripper
- 5 Tines
- 6 Right gripper

To operate the double-acting hydraulic cylinders, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor and/or front loader.

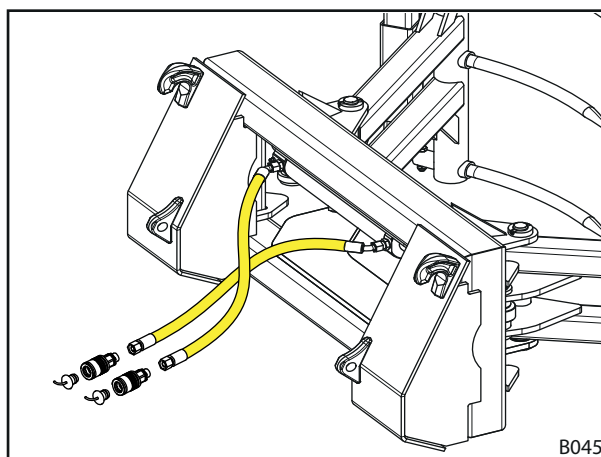


3.11.2 Before the first use

The Maxi bale claw is fully assembled at the factory. The hydraulic lines (yellow in the image) must be mounted before the first start-up.

Connect the supply lines:

- (1) Connect the 2 supply lines with the 45° end to the hydraulic cylinder with male stud connectors.
- (2) Attach the hydraulic couplings on the other end of the hose lines.
- (3) Bundle the hoses with the cable ties.



3.11.3 Start-up

Attaching to the lifting arms of the front loader

The Maxi bale claw is designed to be mounted on the Euro change frame.

When doing this, please refer to the operating instructions for the front loader!

Hydraulic connection

Using the plug-in couplings and/or multiple couplings, connect the hydraulic hoses to the connections of the 3rd control circuit.

Use

WARNING

Falling bales!

Stacked bales can easily fall down from the raised ball claw and then fall, roll or slip onto the driver of the front loader.

The driver may be seriously injured as a result.

- ▶ Mount the security bars before working with stacked bales!
- ▶ Close the ball claw enough so that the security bars are behind the bales!
- ▶ Only lift bale stacks when the top bale does not protrude over the security bars!

-
- (1) Position the Maxi bale claw horizontally and fully open.
 - (2) Drive towards the bale until it rests on the frame of the Maxi bale claw.
 - (3) Close the Maxi bale claw until the tines have pierced fully into the material.

If the tines only pierce partially into the material, transverse forces can arise that may damage the tines!

-
- (4) After lifting the bale with the front loader, you can press a little more if necessary, in order to securely clamp the bale before transporting it.

Caution: Drive with care!



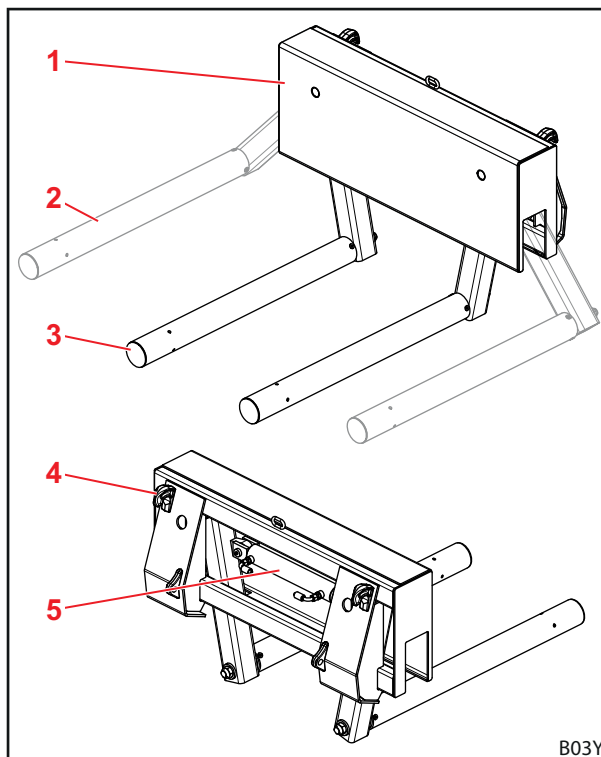
3.12 Rotating bale-handler

3.12.1 Description

Construction of the rotating bale handler:

- 1 Base frame
- 2 Rotating fork, fully swung out
- 3 Rotating fork, fully swung in
- 4 Support hooks for Euro change frames
- 5 Double-acting hydraulic cylinder

To operate the double-acting hydraulic cylinders, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor and/or front loader.

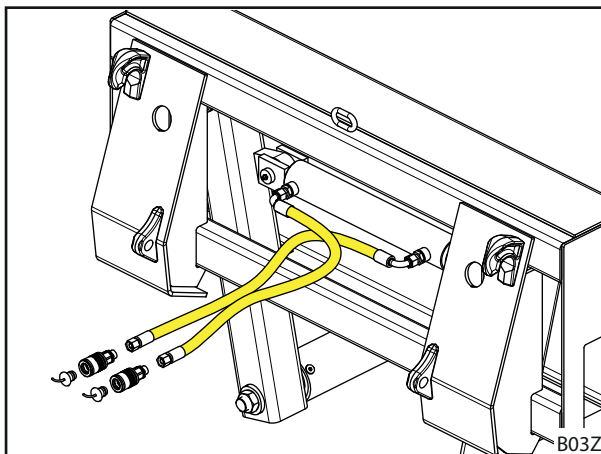


3.12.2 Before the first use

The rotating bale handler is fully assembled at the factory. The hydraulic lines (yellow in the image) must be mounted before the first start-up.

Connect the supply lines:

- (1) Connect the 2 supply lines with the 90° end to the hydraulic cylinder with male stud connectors.
- (2) Attach the hydraulic couplings on the other end of the hose lines.
- (3) Bundle the hoses with the cable ties.



3.12.3 Start-up

Attaching to the lifting arms of the front loader

The rotating bale handler is designed to be mounted on the Euro change frame.

When doing this, please refer to the operating instructions for the front loader!

Hydraulic connection

Using the plug-in couplings and/or multiple couplings, connect the hydraulic hoses to the connections of the 3rd control circuit.

Use



Notes

- The bale lies only loosely on the rotating bale handler. It is therefore less suitable for loading work that involves longer or particularly uneven transport routes.
 - Make sure that when gripping and transporting the bales they are on the base frame, as this will ensure a safe and secure handling of the bale.
-

Picking up a bale:

- (1) Position the rotating bale handler horizontally and pivot the two rotating forks outwards.
- (2) Lower the rotating bale handler until it is just above the ground, adjust the rotating forks so they are approximately parallel to the ground.
- (3) Drive towards the bale until the bale is on the base frame.
- (4) Push the rotating forks on the bales.
- (5) Lift the rotating bale handler and the clamped bales a little with the front loader.

Caution: Drive with care!

Setting the bales down:

- (6) Lower the front loader beam so far until the bale rests on the ground and/or a stack.
- (7) Pivot the bale forks slightly outwards.
- (8) Slowly drive backwards!



3.13 Bale fork lift

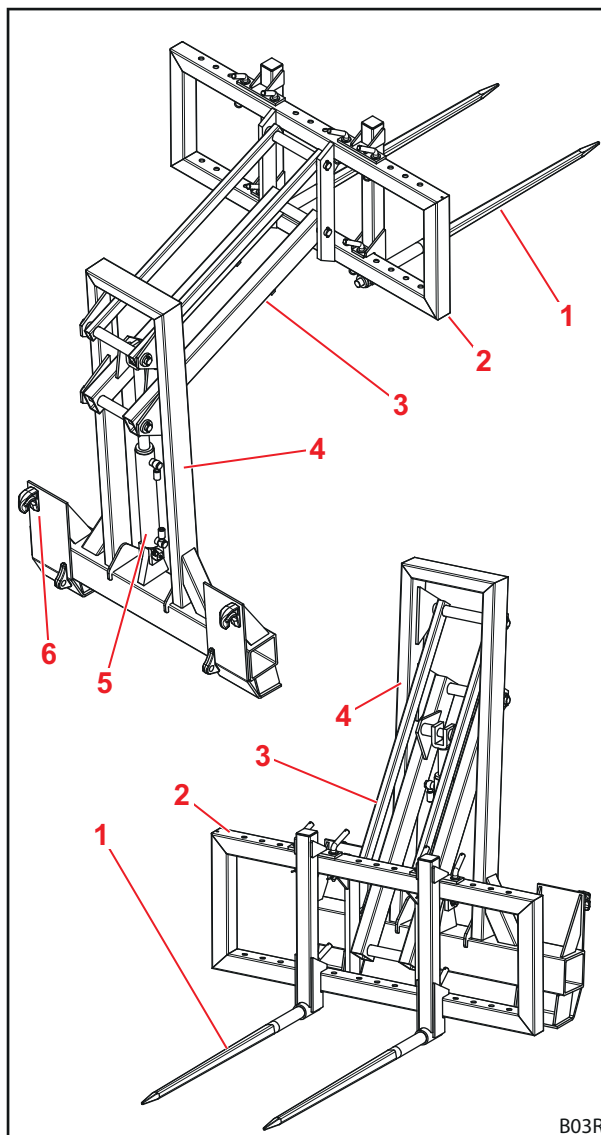
3.13.1 Description

Construction of the bale fork lift:

- 1 2 bale skewers, can be adjusted on the side
- 2 Lifting frame
- 3 Lifting mechanism
- 4 Base frame
- 5 Double-acting hydraulic cylinder
- 6 Support hooks for Euro change frames

To operate the double-acting hydraulic cylinders, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor and/or front loader.

Using the lifting function of the bale fork lift, the bales can be raised over and above the lifting height of the front loader by a further 1.4 m.

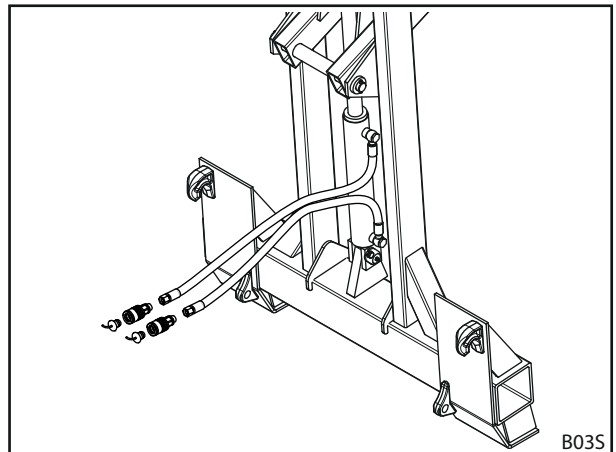


3.13.2 Before the first use

The bale fork lift is fully assembled at the factory. The hydraulic lines must be mounted before the first start-up.

Connect the supply lines:

- (1) Connect the 2 supply lines to the hydraulic cylinder with male stud connectors.
Depending on the design of the hydraulic line: 90° end or solder ring piece with banjo bolt on the hydraulic cylinder.
- (2) Attach the hydraulic couplings on the other end of the hose lines.
- (3) Bundle the hoses with the cable ties.



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3.13.3 Start-up

Installing and removing on the change frame of the front loader

The bale fork lift is designed to be mounted on the Euro change frame.

When doing this, please refer to the operating instructions for the front loader!



Always set your bale fork lift down in its lower end position before storing it!

Hydraulic connection

Using the plug-in couplings and/or multiple couplings, connect the hydraulic hoses to the connections of the 3rd control circuit.

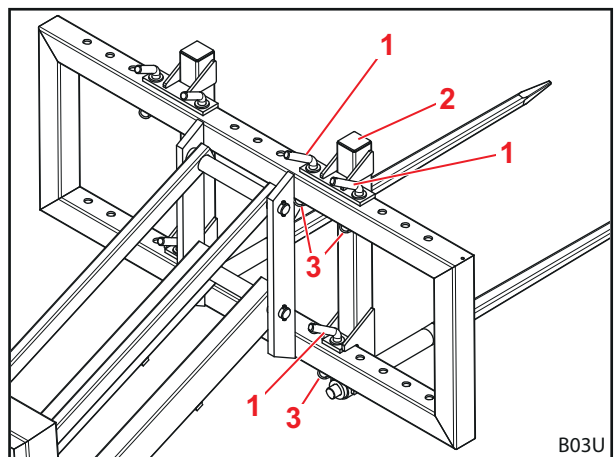
Adjusting the bale fork lift

Set the distance of the bale skewers on each side:

- (1) Pull out 3 pins **(3)**.
- (2) Take out 3 bolts **(1)**.
- (3) Slide the skewer mount **(2)** into the desired position.
- (4) Insert the bolts **(1)** and pins **(3)** again.



Set both bale skewers to the same distance from the centre, in order to avoid a one-sided load and ultimately the premature wear of the bale fork lift!



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Use

WARNING

Tipping hazard

As a result of the one-sided loading of the bale fork lift, the tractor may tip!

The driver and people in the vicinity of the tractor can be seriously injured or even killed!

- ▶ Lift the bales from the middle. The centre of gravity of the load must be in the longitudinal axis of the tractor!

Depending on the desired form of the stack, you can transport the bales horizontally or vertically.



Never transport two or more large bales simultaneously!

-
- (1) Lower the lifting arms of the front loader and set the bale skewers approximately parallel to the ground.
 - (2) Drive the tractor slowly forwards and grab under the big bale with the bale skewers until it rests on the lifting frame.
 - (3) Raise the bale fork lift and/or front loader beam as needed.



Lift the bale a little for the trip.
Only lift the bale up for the stacking process!

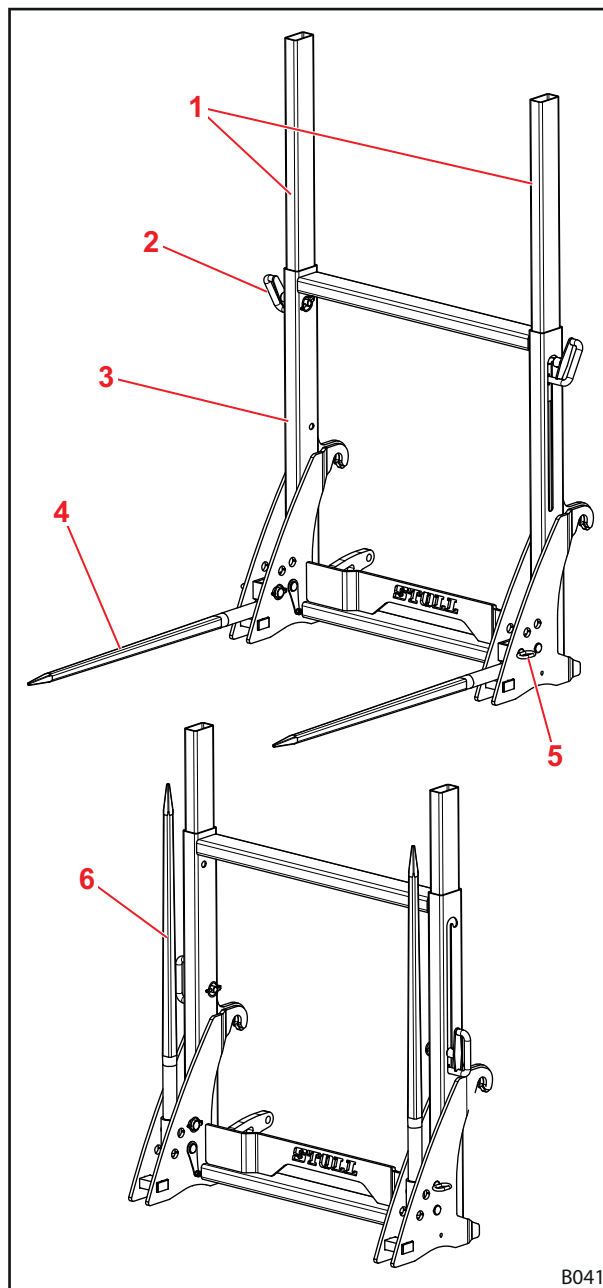
-
- (4) After reaching the stacking position, slowly lower/set down the large bales,
 - (5) Carefully reset the tractor.

3.14 Big bale fork

3.14.1 Description

Construction of the big bale fork

- 1 2 security bars (pulled out)
- 2 Securing bolts for the security bars
- 3 Frame with support hooks for Euro change frames
- 4 2 tines (unfolded in working position)
- 5 Securing bolts for the tines
- 6 Big bale fork is prepared for road transport:
The security bars are inserted and secured.
The tines are folded up and secured.



3.14.2 Start-up

Installing and removing on the change frame of the front loader

The big bale fork is designed to be mounted on the Euro change frame. When doing this, please refer to the operating instructions for the front loader!



Equipping the tractor/front loader for driving on roads

Slide security bars (3) on both sides:

- (1) Pull the safety pin (2) out.
- (2) Pull out the securing bolts (1) on the handle and unhook.
- (3) Push the security bar (3) downwards with the handle of the securing bolt (1).
- (4) Insert the securing bolts (1) and secure with the safety pin (2).

Pivot the tines (4) up on both sides:

- (1) Pull the safety pin (4) out.
- (2) Pull out the securing bolt (5) on the handle.
- (3) Fold up the tines (4).
- (4) Insert securing bolts (5) at the upper drill hole and secure with the safety pin (2).

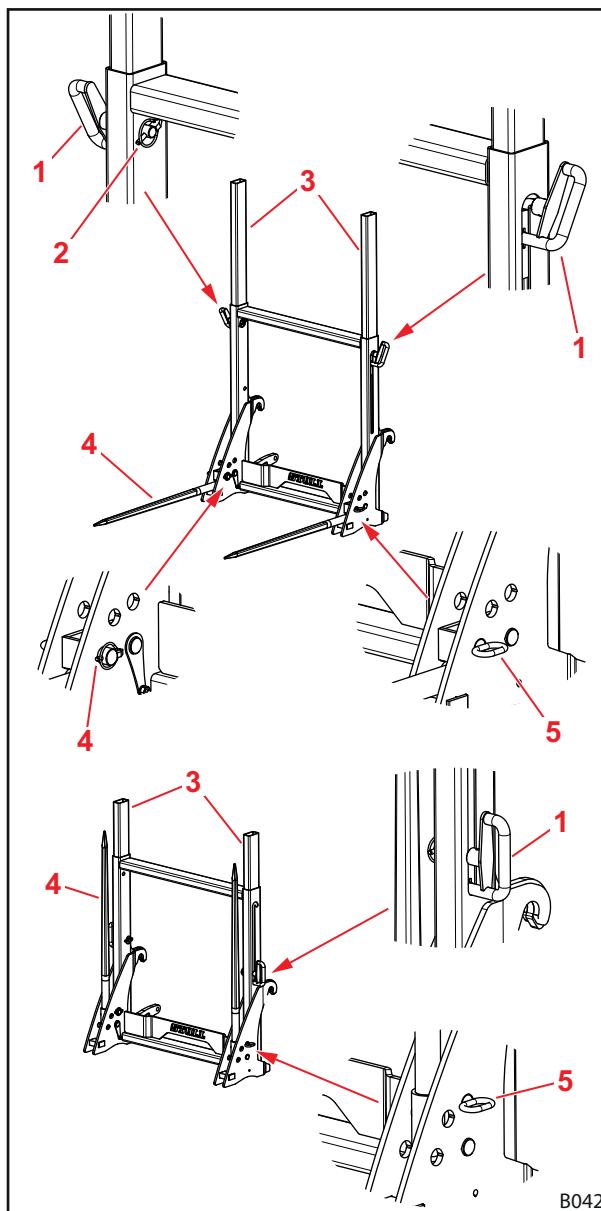
Equipment for working with bales

Pull security bars (3) out on both sides:

- (1) Pull the safety pin (2) out.
- (2) Pull out the securing bolt (1) on the handle.
- (3) Push the security bar (3) upwards with the handle of the securing bolt (1).
- (4) Hook on the securing bolt (1) and secure with the safety pin (2).

Pivot the tines (4) down on both sides:

- (1) Pull the safety pin (4) out.
- (2) Pull out the securing bolt (5) on the handle.
- (3) Fold the tines (4) down.
- (4) Insert securing bolts (5) at the lower drill hole and secure with the safety pin (2).



Use**⚠ WARNING****Falling bales!**

Stacked bales can easily fall down from the raised ball fork and then fall, roll or slip onto the driver of the front loader.

The driver may be seriously injured as a result.

- ▶ Pull out the security bars before working with stacked bales!
- ▶ Only stack bales that are visibly wider than the distance of the security bars!
- ▶ Only lift bale stacks when the top bale does not protrude over the security bars!

Stacking bales

- (1) Lower the lifting arms of the front loader and set the tines approximately parallel to the ground.
- (2) Drive the tractor slowly forwards and grab under the big bale and/or the stack of bales with the tines until it rests on the frame.
- (3) Tilt the big bale fork at least 20° to the back (function *Scooping* of the front loader).
- (4) Lift the lifting arms of the front loader up as needed.



Lift the bales a little for the trip.
Only lift the bales up for the stacking process!

- (5) After reaching the stacking position, slowly lower/set down the bales.
Adjust the tines horizontally again!
- (6) Carefully reset the tractor.

3.14.2.1 Advice for driving on roads**⚠ WARNING****Risk of accidents!**

In road accidents, other road users can be injured by the protruding tines.

Security bars that are positioned too high can lead to collisions with power lines, bridges, trees, etc.

- ▶ Fold the tines up before each road trip.
- ▶ Push the security bars on.
- ▶ Pivot the big bale fork with raised front loader as far back as possible (function *Scooping* of the front loader).

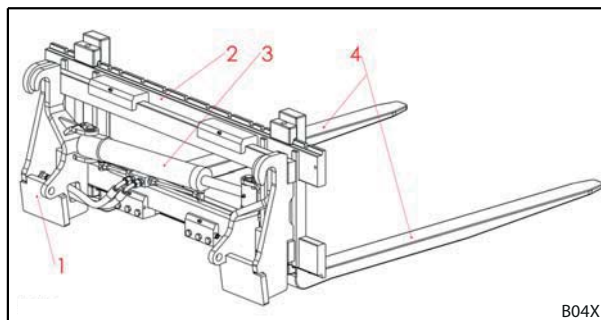


3.15 Side shift carriage

3.15.1 Description

Composition of the side shift carriage

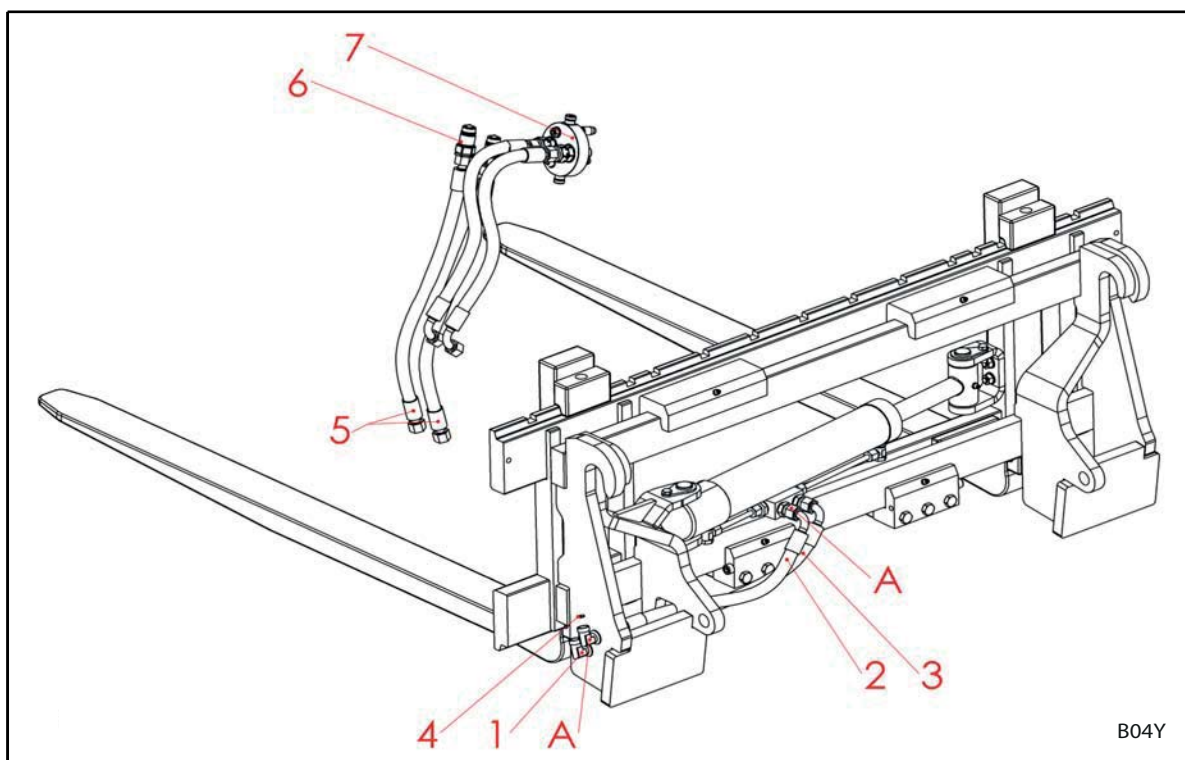
- 1 Base support with support hooks for Euro change frames
- 2 Sliding frame
- 3 Hydraulic cylinder for operating the sliding frame
- 4 Two pallet tines, the size of the gap can be adjusted



To operate the double-acting hydraulic cylinder, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor and/or front loader.

3.15.2 Before the first use

Use on the Profi Line front loader



The side shift carriage is fully assembled at the factory. The hydraulic components must be mounted before the first start-up.

Install the hydraulic lines – elbow socket and hose lines on the implement

- (1) Secure the elbow socket **(1)** in the drill hole on the left side of the side shift carriage.
- (2) Connect the hydraulic hoses **(2, 3)** with the 90° end on the locking block of the cylinder.
- (3) Connect the hydraulic hose with the screwed in elbow sockets **(A on A)**.

Connect the supply lines:

- (4) Place the shutter **(4)** in the elbow socket that is connected with the piston side of the cylinder **(A)**, next connect the hose lines **(5, example provided in the image)** with the elbow socket.
- (5) Attach the hydraulic couplings **(6, 7)** on the other end of the hose lines.
- (6) Bundle the hoses with the cable ties.

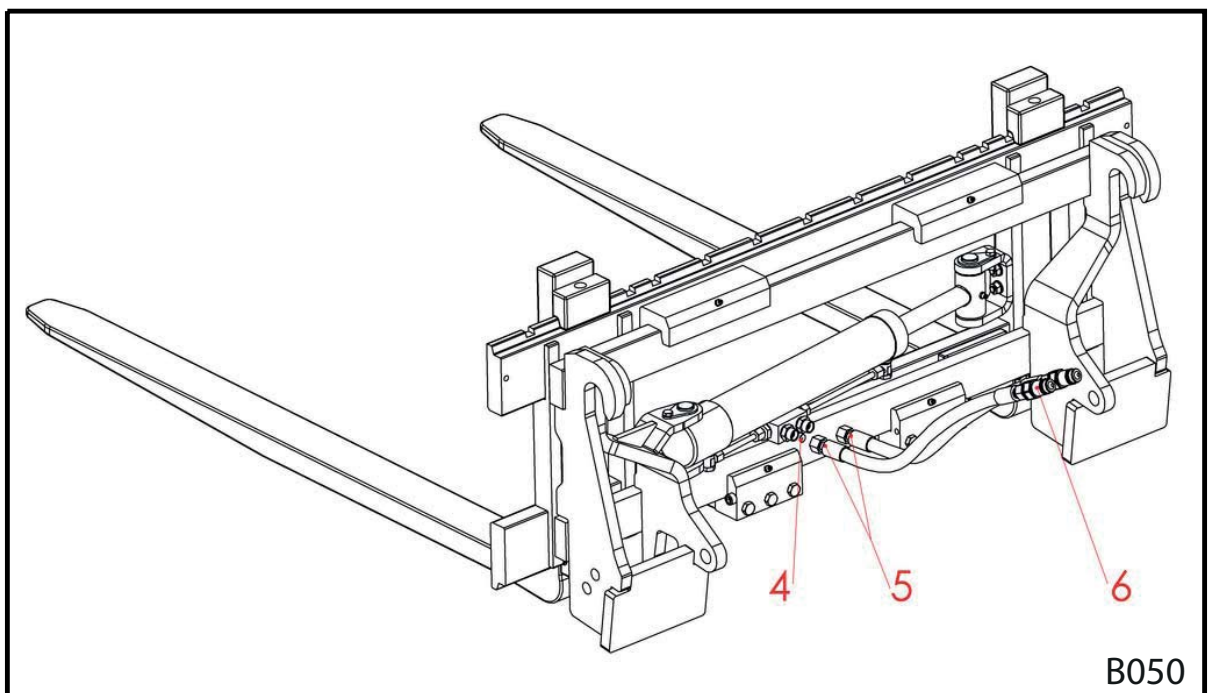
Use on the front loaders ClassicLine, EcoLine and Robust F

⚠ WARNING

Damage to hydraulic components!

The side shift carriage is designed for work with tines that are parallel to the ground.

- ▶ Never use the front loader dumping function to the full extent.
- ▶ This may damage the hydraulic components and impair the function of the side shift carriage. Hydraulic oil can leak out if not controlled.



Connect the supply lines:

- (1) Place the shutter **(4)** in the piston side connection of the locking block on the cylinder.
- (2) Connect the hose lines **(5, example provided in the image)** directly with the cylinder.
- (3) Attach the hydraulic couplings **(6)** on the other end of the hose lines.
- (4) Bundle the hoses with the cable ties.



3.15.3 Start-up

WARNING

Change the centre of gravity!

The shift function also shifts the load centre of your tractor.

People in the work zone can be seriously injured.

- ▶ Only use the shift function in the position for loading and unloading, put the slide frame for the transport in the middle position (cylinder extended halfway)!
 - ▶ Make sure that your tractor is properly ballasted.
 - ▶ Observe the maximum speed limit with the load taken (10 km/h)!
 - ▶ Find out in advance about the permissible axle loads of your tractor!
 - ▶ Only lift the load as far as is necessary!
-

Installing and removing on the change frame of the front loader

The side shifting device is designed to be mounted on the Euro change frame. When doing this, please refer to the operating instructions for the front loader!

Only put the implement down on a level stable surface! Make sure that there is sufficient clearance between the pallet tines to ensure a secure hold.

Loading, transporting and handling pallets

- (1) Lower the front loader accordingly and place the pallet tines horizontally.
- (2) Carefully drive the tines into the pallet and lift the load.
- (3) Move the sliding frame to the middle position (function 3rd control circuit of the front loader).
- (4) Only lift the load for transport as far as is necessary.
- (5) Drive up as closely as possible to the target location for setting down the load.
- (6) If necessary, use the shift functions (function 3rd control circuit of the front loader).
- (7) Set the load down and carefully drive out of the pallet.

3.15.4 Advice for driving on roads

WARNING

Risk of accidents!

In road accidents, other road users can be injured by the protruding tines.

Front loaders that are raised too high can lead to collisions with power lines, bridges, trees, etc.

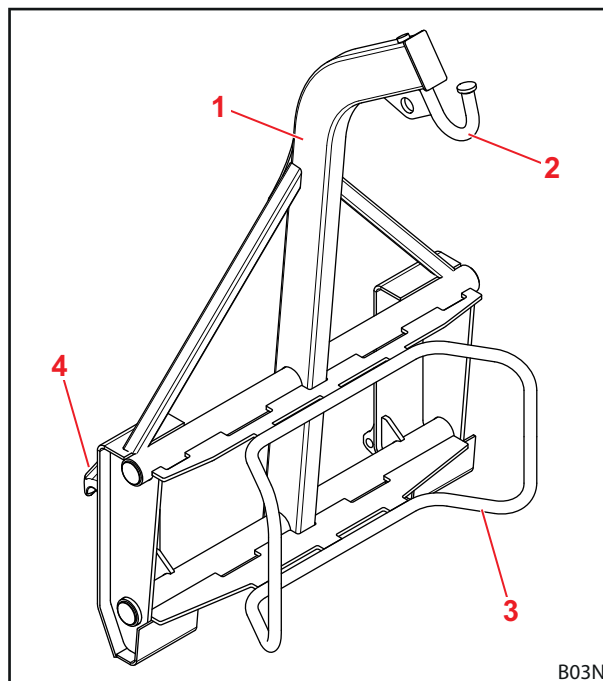
- ▶ Read the instructions for driving on roads in the operating instructions of the front loader.
 - ▶ Before driving on the road, move the tines into a vertical position (function: dumping/scooping of the front loader).
 - ▶ Do not drive on public roads with a loaded implement.
-

3.16 Bigbag lifter

3.16.1 Description

Construction of the Bigbag lifter

- 1 Arm
- 2 Support hooks for the loop(s) of the Bigbag
- 3 Oscillation limiter
- 4 Frame with support hooks for Euro change frames



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3.16.2 Start-up

⚠ WARNING

Unexpected lowering of the front loader!

If the Bigbag lifter, filled with load, is pivoted too far forward, this can trigger the pressure relief valve of the front loader or tractor. The front loader then lowers unexpectedly!

People in the work zone can be seriously injured.

- ▶ Pick up the Bigbag without a helper!
- ▶ Immediately after picking up the Bigbag, swivel the Bigbag lifter upwards (function *Scooping* of the front loader), so that the Bigbag is in the oscillation limit stop.
- ▶ Do not use the Bigbag lifter as a "crane substitute"!

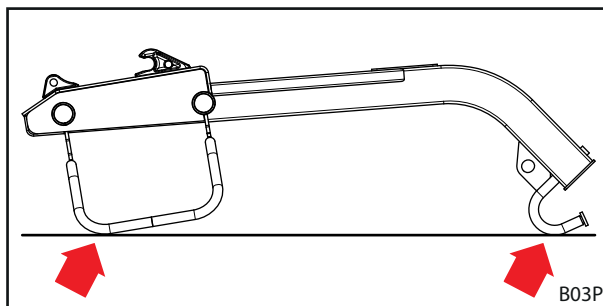
Installing and removing on the change frame of the front loader

The Bigbag lifter is designed to be mounted on the Euro change frame. When doing this, please refer to the operating instructions for the front loader!



Do not attempt to put the Bigbag lifter down in an upright position. It will tip over!

- Always place the Bigbag lifter on the oscillation limit stop and the support hooks, as shown in the diagram.
- To mount it on the front loader, pivot the change frame fully forwards (function *Dumping*).



B03P



Use

Picking up a Bigbag

- (1) Lower the front loader until it is just slightly above the ground.
- (2) Swivel the Bigbag lifter forward so that the support hook is at the same height as the loop(s) of the Bigbag.
- (3) Drive forward, so that the hook engages the loop(s).
- (4) Swivel the Bigbag lifter up a little so that the loop is slightly tensioned.
- (5) Check: Does the loop fit properly in the hook?
- (6) Swivel the Bigbag lifter further up until the Bigbag is on the oscillation limit stop.
- (7) Raise the front loader up slightly for the drive.

⚠ WARNING

Movement of the Bigbag while driving

The Bigbag may oscillate if the Bigbag lifter is in an unsuitable position or if the driver is going too fast. This can lead to unstable driving conditions and the tractor may even overturn!

The driver and people in the vicinity of the tractor can be seriously injured or even killed as a result!

- ▶ Do not drive faster than 6 km/h so that the Bigbag does not start to oscillate!
- ▶ Before driving, push the Bigbag lifter as far back until the Bigbag rests securely at the oscillation limit stop even when driving over rough terrain.
- ▶ Do not pivot the Bigbag lifter forward while driving.



The illustrated pictograms can also be found on the sticker on the Bigbag lifter.

- Replace the sticker if it is damaged!

Storing the Bigbag

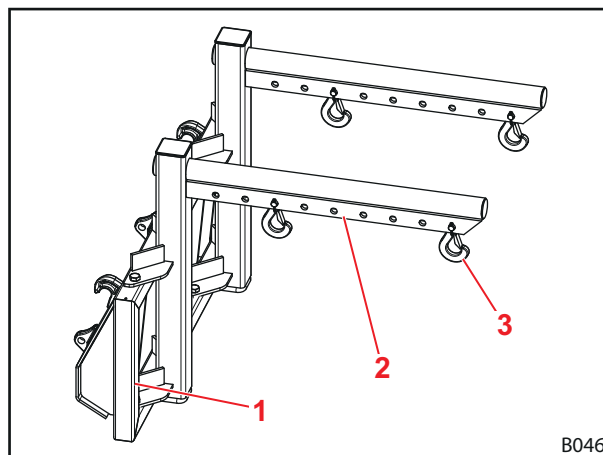
- (8) Lower the front loader until it is just slightly above the ground.
- (9) Swivel the Bigbag lifter forward until the Bigbag stands firmly on the ground and the loop hangs loose.
- (10) Gently drive support hooks backwards out of the loop.
- (11) Swivel the Bigbag lifter upward again.

3.17 Bag-Lift H

3.17.1 Description

Construction of the Bag-Lift

- 1 Frame with support hooks for Euro change frames
- 2 2 arms
- 3 4 support hooks for the 4 loops of the Bigbag



B046

3.17.2 Start-up

⚠ WARNING

Unexpected lowering of the front loader!

If the front loader lowers unexpectedly, people in the work zone can be seriously injured!

- ▶ Pick up the load without a helper!
- ▶ Only hang the load in the hooks when the front loader is fully lowered!
- ▶ When a load is to be suspended on a raised front loader, the front loader must be equipped with an anti-lowering guard.
The anti-lowering guard has to correspond to the European standard EN 12525/A1.
- ▶ Do not use the Bag-Lift as a “crane substitute”!

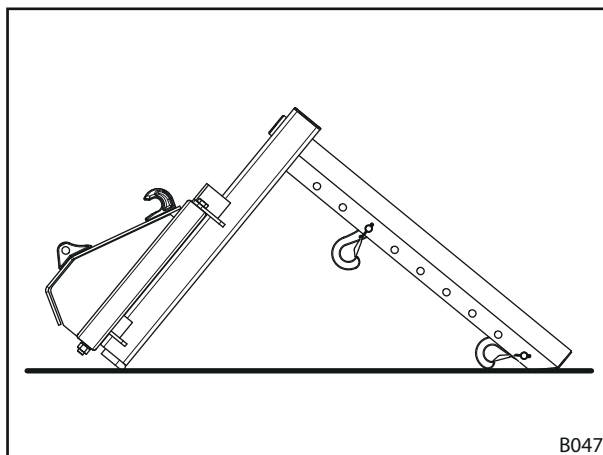
Installing and removing on the change frame of the front loader

The Bag-Lift is designed to be mounted on the Euro change frame. When doing this, please refer to the operating instructions for the front loader!



Do not attempt to put the Bag-Lift down in an upright position. It will tip over!

- Always place the Bag-Lift on the oscillation limit stop and the support hooks, as shown in the diagram.
- To mount it on the front loader, pivot the change frame far forwards (function *Dumping*).



B047



Use

WARNING

Movement of the load while driving

If you drive too quickly the load may oscillate. This can lead to unstable driving conditions and the tractor may even overturn!

The driver and people in the vicinity of the tractor can be seriously injured or even killed as a result!

- ▶ Drive particularly slowly!
 - ▶ Keep an eye on the load. Stop if the load starts to oscillate!
-

Picking up a Bigbag

- (1) Position the Bag-Lift over the Bigbag.
- (2) If there is no anti-lowering guard: Lower the front loader all the way to the ground.
- (3) Hook 4 loops of the Bigbag in 4 hooks of Bag-Lift.
- (4) Raise the Bag-Lift up a little so that the loops are slightly tensioned.
- (5) Check: Do the loops fit properly in the hooks?
- (6) Raise the front loader up slightly for the drive.

Storing the Bigbag

- (7) Lower the Bag-Lift down until the Bigbag stands firmly on the ground and the loops hang loose.
- (8) If there is no anti-lowering guard: Lower the front loader all the way to the ground.
- (9) Take the loops out of the hooks.
- (10) Raise the Bag-Lift up again.

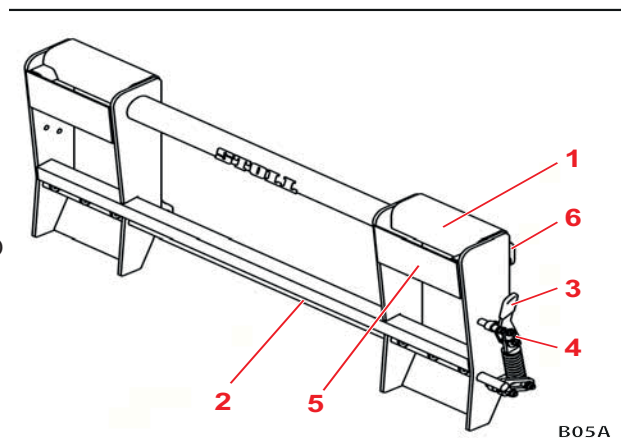


3.18 Tenias adapter

3.18.1 Description

Composition of the Tenias adapter

- 1 Base support with support hooks
- 2 Locking rod
- 3 Self-locking lever
- 4 Safety cotter pin
- 5 Tenias catch hook support
- 6 Euro change frame support according to ISO 23206



The Tenias adapter is pre-assembled at the factory.

3.18.2 Start-up

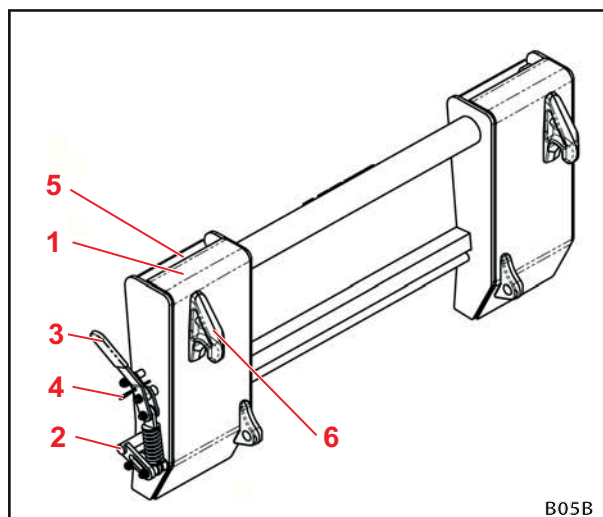
⚠ WARNING

- ▶ Make sure that your tractor has a sufficient ballast!
- ▶ Observe the maximum speed limit with the load taken (10 km/h)!
- ▶ Inform yourself about the permissible axle loads of your tractor in advance!
- ▶ Only lift the load as far as is necessary!

Installing and removing on the change frame of the front loader

The Tenias adapter is designed to be mounted on the Euro change frame. When doing this, please refer to the operating instructions for the front loader!

- (1) Before the front loader together with the adapter can be coupled with the Tenias implement, the safety cotter pin (4) must first be pulled out and the locking lever (3) must be pulled to the rear.
- (2) Then pick up the Tenias implement by the catch hook (5) in the middle.
- (3) Tilt the implement until it is completely resting on the stop of the adapter. Then pull the locking lever (3) to the front and secure the locking mechanism (4) with the cotter pin.



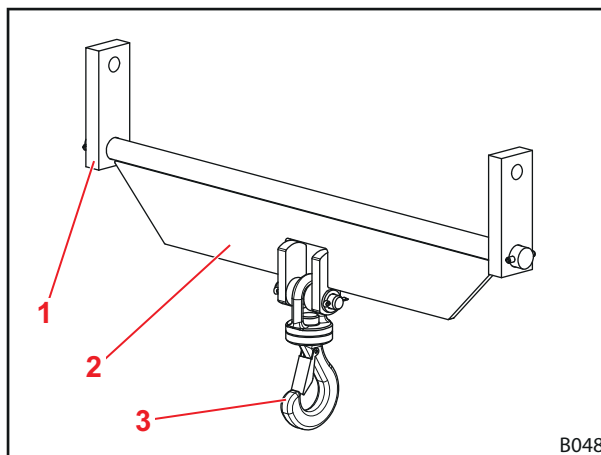
Only put the implement down on a level stable surface! The adapter can only be coupled and uncoupled safely in a laying position.

3.19 Load hook

3.19.1 Description

Construction of the load hooks

- 1 Strap for securing to the implement locking mechanism of the front loader
- 2 Holder
- 3 Hooks



3.19.2 Use

⚠ WARNING

Unexpected lowering of the front loader!

If the front loader lowers unexpectedly, people in the work zone can be seriously injured!

- ▶ Pick up the load without a helper!
- ▶ Only hang the load in the hook when the front loader is fully lowered!
- ▶ When a load is to be suspended on a raised front loader, the front loader must be equipped with an anti-lowering guard.
The anti-lowering guard has to correspond to the European standard EN 12525/A1.
- ▶ Do not use the load hook as a “crane substitute”!

Installing and removing on the change frame of the front loader

The load hook is designed to be mounted on the Euro change frame.

➔ The change frame must be on the ground.

- (1) Open the implement locking mechanism of the front loader.

⚠ CAUTION

Risk of crushing!

The implement locking mechanism can be closed through the spring force, when it is not securely locked in place when opening!

- ▶ Do not put your fingers into the mounting supports!
- (2) Insert the straps of the load hook into the supports on the change frame intended for the locking eyes of other implements.
 - (3) Close the implement locking mechanism.



The locking pins must be securely fitted in the drill holes of the straps!

Use**⚠ WARNING****Movement of the load while driving**

If you drive too quickly the load may oscillate. This can lead to unstable driving conditions and the tractor may even overturn!

The driver and people in the vicinity of the tractor can be seriously injured or even killed as a result!

- ▶ Drive particularly slowly!
- ▶ Keep an eye on the load. Stop if the load starts to oscillate!

-
- (1) If there is no anti-lowering guard: Lower the front loader all the way to the ground.
 - (2) Hook the load on the hook.
 - (3) Lift the front loader until the load hangs freely.
 - (4) Be very careful when driving to the offloading point. The load must not sway.
 - (5) Lower the front loader until the load rests on the ground.
 - (6) If there is no anti-lowering guard: Move back a little and set the front loader down fully.
 - (7) Unhook the load from the hook.



4 Servicing



Incorrect repairs can lead to safety risks. That is why the maintenance work must only be carried out by suitably qualified personnel!

Stoll recommends that the repair work is done at a specialist/authorized workshop.

4.1 Regular maintenance

4.1.1 Lubrication and maintenance schedule

Maintenance position	Job	Interval [operating hours]
Check the screw connections	, tighten if necessary	100 h
Bearing positions	Lubrication (see 4.1.2)	10 h
Hydraulic hose lines	Visual inspection, if necessary, have them replaced by an authorized workshop	100 h
	Replacement by authorized workshop	4 years*

*see notes under 4.2

4.1.2 Lubrication

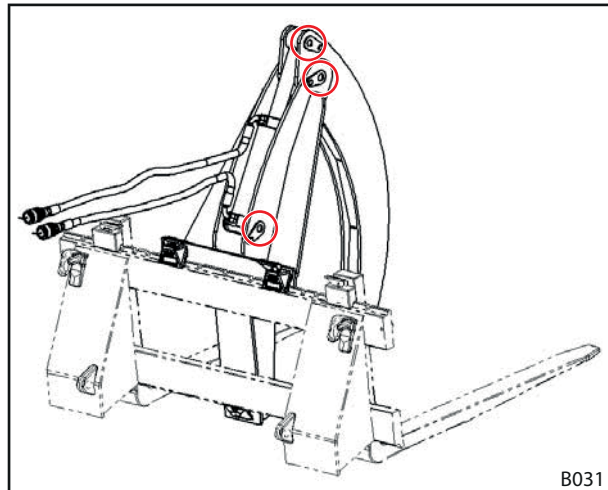
The red circles and arrows in the following Figures highlight the position of the lubrication points on the individual implements.

- Lubricate the bearing points on the grease nipples every 10 hours with a grease gun.

Lubricant: Multipurpose grease DIN 51502 K2K, ISO 6743 ISO-L-XCCEA2, or a comparable product

Top loading grip

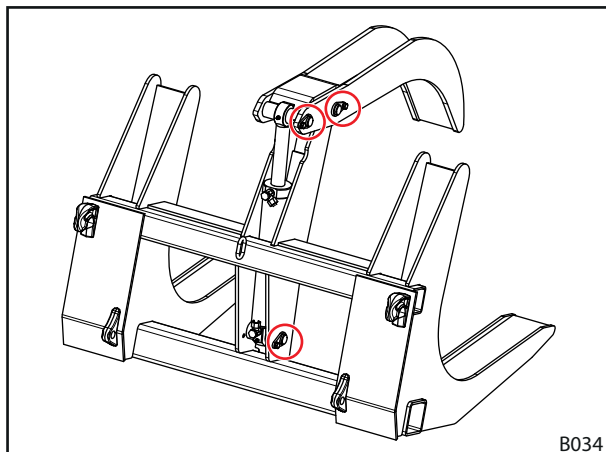
Number of lubrication points: 3





Timber tongs with top loading grip

Number of lubrication points: 3



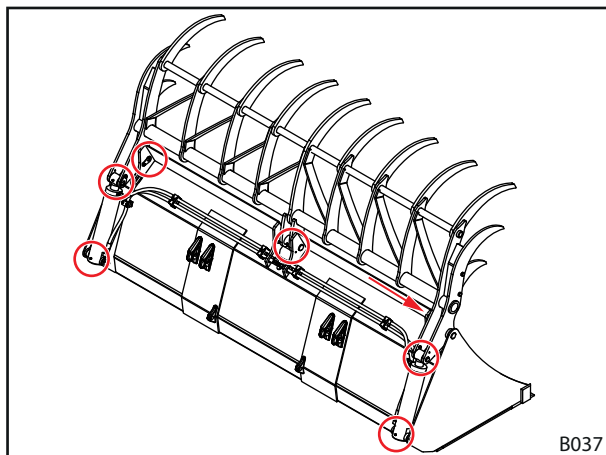
B034

Grabbing bucket

Number of lubrication points:

6 with a shovel width of up to 2.2 m

7 with a shovel width from 2.5 m



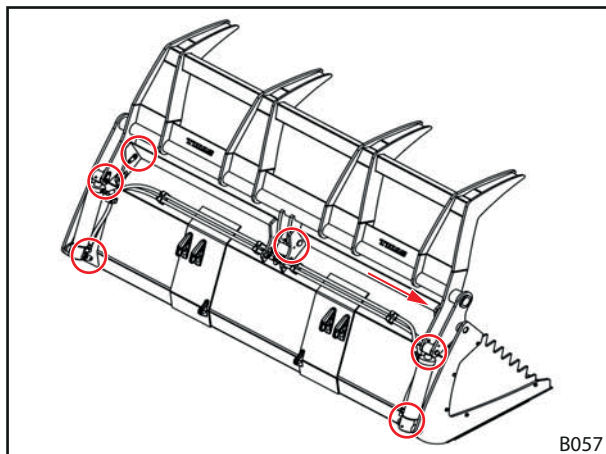
B037

Disposal bucket

Number of lubrication points:

6 with a shovel width of up to 2.2 m

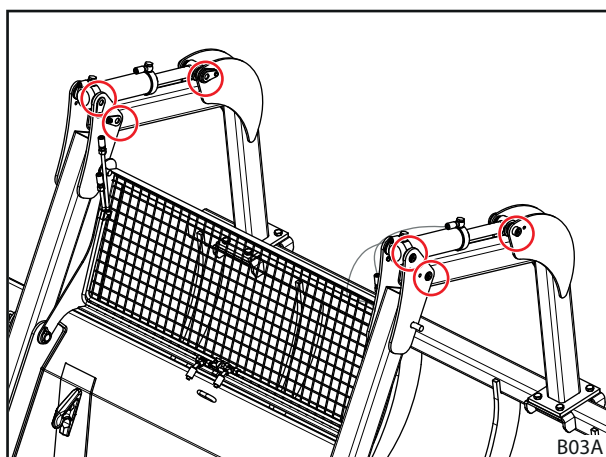
7 with a shovel width from 2.5 m



B057

Grabbing bucket UNI

Number of lubrication points: 6

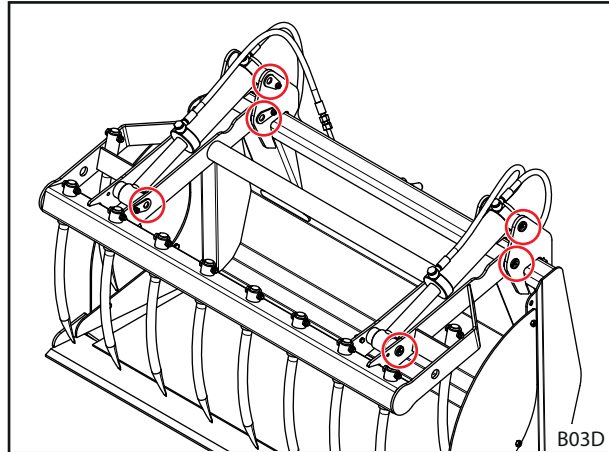


B03A



Bucket with grapple and fork with grapple

Number of lubrication points: 6

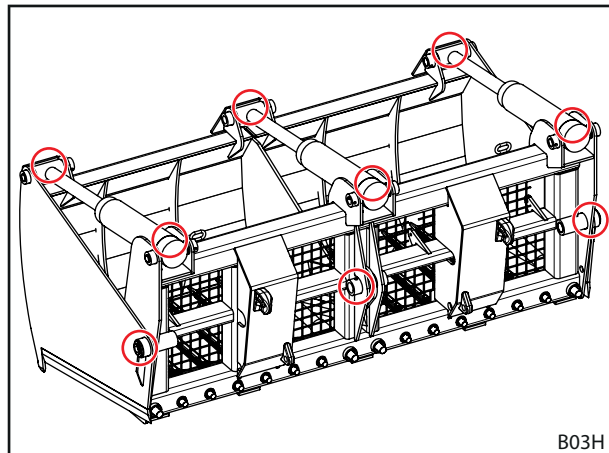


Silage cutting grapple

Number of lubrication points:

6 on models with 2 hydraulic cylinders

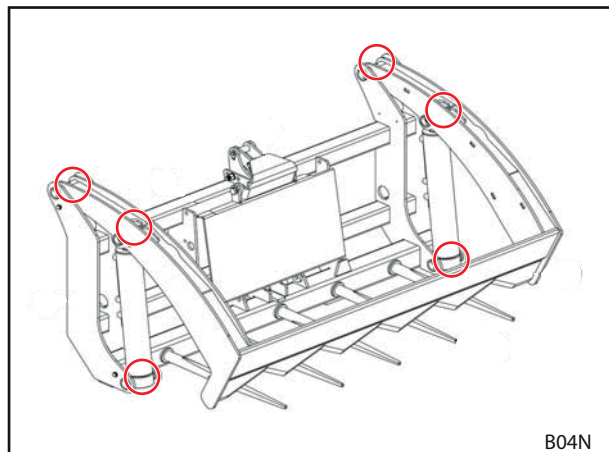
9 on models with 3 hydraulic cylinders



Round bale divider

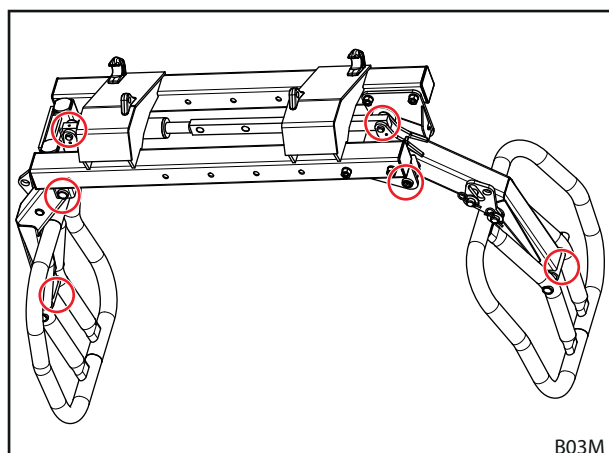
Pivoting points should be lubricated regularly with the help of grease nipples.

Number of lubrication points: 6



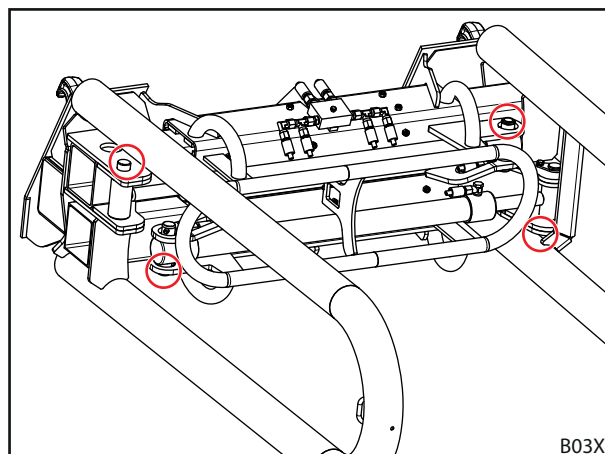
Wrapped bale handler

Number of lubrication points: 6



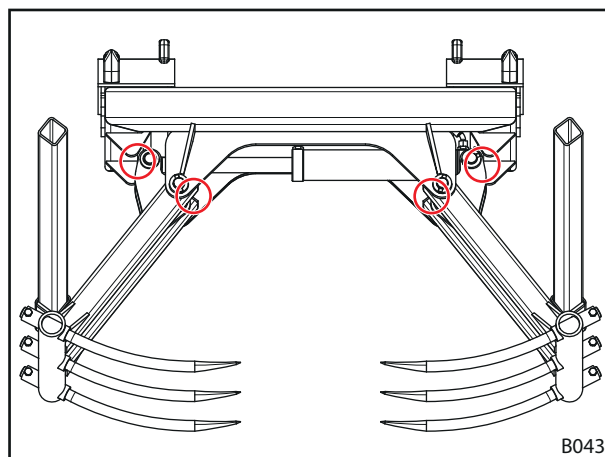
Wrapped bale handler Pro H

Number of lubrication points: 4



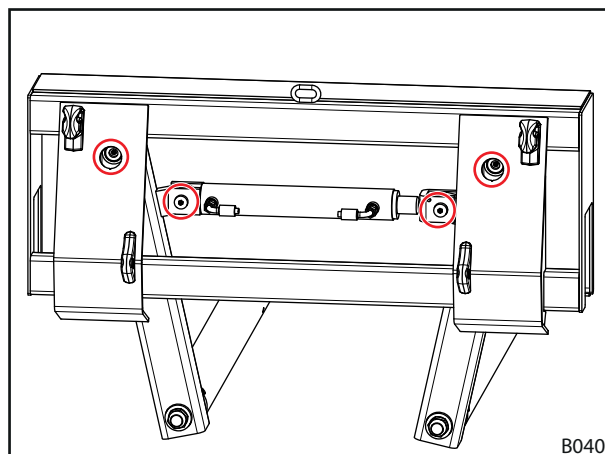
Maxi bale claw

Number of lubrication points: 4



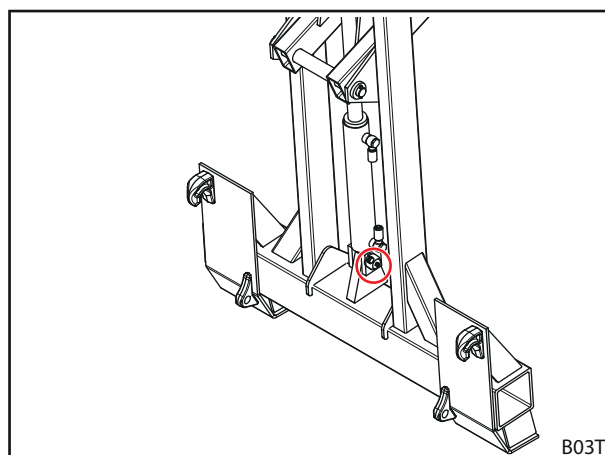
Rotating bale-handler

Number of lubrication points: 4



Bale fork lift

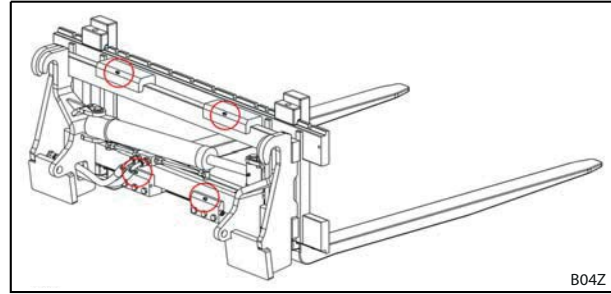
Number of lubrication points: 1





Side shift carriage

Number of lubrication points: 4



4.2 Hydraulic lines

In accordance with DIN 20066, hydraulic hose lines should be stored for a maximum of 2 years and used for a maximum of 6 years from the date of manufacture. This results in a service life of at least 4 years with normal loading.

Hydraulic hose lines are marked with 2 dates:

On the hose material, for example, "1Q15" meaning that the hose was produced the 1st quarter of 2015; on the valve, for example, "0415" or "04/15" to show that the hose line was produced in April 2015.

- Do not use hydraulic hose lines that are more than 6 years old!
- Do not use hydraulic hoses with tubing that is more than 10 years old!
- Shorten the replacement interval when hoses wear out prematurely!
- Have the hydraulic lines replaced if they are porous or cracked!



4.3 Torque moments for screws



Make sure that the thread is clean!

The tightening torques listed are valid for screws and threads that are clean, dry and free of grease!

Torque moments for screws				
Thread	Strength category			
	8.8		10.9	
	Nm	lb-ft	Nm	lb-ft
M8	23	17	33	24
M8x1	25	18	35	26
M10	46	34	65	48
M10x1.25	49	36	69	51
M12	80	59	110	81
M12x1.5	84	62	118	87
M12x1.25	88	65	123	91
M14	130	96	180	133
M14x1.5	138	102	190	140
M16	190	140	270	199
M16x1.5	210	155	290	214
M18	270	199	380	280
M18x2	280	206	400	295
M18x1.5	300	221	420	310
M20	380	280	530	391
M20x2	400	295	560	413
M20x1.5	420	310	590	435
M22	510	376	720	531
M22x2	540	398	750	553
M22x1,5	560	413	790	582
M24	630	464	890	656
M24x2	680	501	950	700
M27	930	686	1310	966
M27x2	995	733	1400	1032
M30	1260	929	1770	1305
M30x2	1370	1010	1930	1423
5/8" UNC (normal)	175	129	245	180
5/8" UNF (fine)	200	147	280	206
3/4" UNC (normal)	380	280	530	391
3/4" UNF (fine)	420	310	590	435

5 Appendix

5.1 Disposal


The front loader implements essentially consist of parts made of steel and hydraulic components, which may include, among other things rubber and plastics.

Authorised dealers or specialised companies must dispose of old front loader implements!

This applies in particular to hydraulic components that still contain oil residues and can therefore cause serious damage to the environment.

For the disposal of hydraulic oil, please note the operating instructions of the tractor and the locally applicable environmental regulations!

5.2 Identification

Designed by STOLL GmbH D 38268 Lengede Germany	
	Type xx 1 xxxxxxxxxxxx
	Item-No. xxxx 2 x
	Weight xx 3 x kg Year x 4 x Hydr.Pres. x 5 x bar
	Serial-No. xx 6 xxx
Made in xx 7 xxx	

B02W

The equipment is marked with a nameplate.

Information on the rating plate:

- 1 Type (equipment description)
- 2 Identification number
- 3 Weight
- 4 Year of manufacture
- 5 Permitted hydraulic pressure (not on all devices)
- 6 Serial number
- 7 Country of manufacture, e.g.:
Germany: Federal Republic of Germany
ROK: Republic of Korea
IE: Ireland
PL: Poland

5.3 Declarations of Conformity

The content of the Declarations of Conformity are reproduced here in compliance with the EC Directive 2006/42 / EC, Appendix I, paragraph 1.7.4.2 c):

5.3.1 Declaration of conformity for implements with hydraulic system

Declaration of Conformity

in accordance with EC Directive 2006/42/EC, Appendix II A.

Wilhelm STOLL Maschinenfabrik GmbH
 Bahnhofstrasse 21
 38268 Lengede, Germany

hereby declares that the following models of front loader implements

Top loading grip, Identification number 3548990
 Timber tongs H with hydr. top loading grip, Identification number 3390260
 Bucket with grab, Identification numbers 3574710, 3574720, 3618550, 3574730, 3574740, 3582960
 Disposal bucket, Identification numbers 3589850, 3591550, 3591560, 3602920, 3603840, 3632970
 Bucket with grab UNI, Identification numbers 3477620, 3477630, 3477640
 Bucket with grapple, Identification numbers 3547610, 3547620, 3547630, 3547650, 3547640
 Fork with grapple, Identification numbers 3429090, 3429100, 3429110, 3429120, 3430650
 Silage cutting grapple, Identification numbers 3334760, 2449320, 3306680
 Round bale divider, Identification numbers 3547290, 3591570
 Wrapped bale handler, Identification number 2364610
 Wrapped bale handler Pro H, Identification number 3395020
 Maxi bale claw, Identification number 2449950
 Rotating bale handler, Identification number 3573240
 Bale fork lift, Identification number 1339660
 Side shift carriage, Identification numbers 3614380, 3666450

(Serial number range 5400000 to 5999999)

comply with all the relevant provisions of the EC Directive.

EC Directives applied:

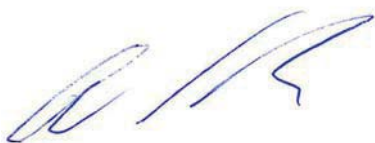
2006/42/EC Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast)

Applicable conforming standards:

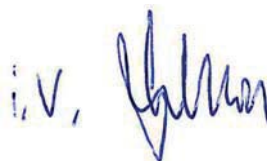
DIN EN ISO 12100:2011-03	Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010); German version EN ISO 12100:2010
DIN EN ISO 12100 Ber 1: 2013-08	
DIN EN ISO 4254-1:2013-10	Agricultural machinery - Safety - Part 1: General requirements (ISO 4254-1:2013); German version EN ISO 4254-1:2013
DIN EN ISO 4413:2011-04	Hydraulic fluid power - General rules and safety requirements for systems and their components (ISO 4413: 2010); German version EN ISO 4413: 2010

The person authorized for compiling the technical documentation available is the Head of Development at STOLL GmbH, for address see above.

Lengede 04.10.2017



Guido Marenbach
 Managing Director



Dr. Rainer Golloch
 Head of development



5.3.2 Declaration of conformity for implements without hydraulic system

Declaration of Conformity

in accordance with EC Directive 2006/42/EC, Appendix II A.

Wilhelm STOLL Maschinenfabrik GmbH
Bahnhofstrasse 21
38268 Lengede, Germany

hereby declares that the following models of front loader implements

Big bale fork, Identification number 3611920
Bigbag lifer, Identification number 3602900
Bag-Lift H, Identification number 2357100
Tenias adapter, Identification number 3664360
Load hook, Identification number 2309670

(Serial number range 5400000 to 5999999)

comply with all the relevant provisions of the EC Directive.

EC Directives applied:

2006/42/EC Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast)

Applicable conforming standards:

DIN EN ISO 12100:2011-03	Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010); German version EN ISO 12100:2010
DIN EN ISO 12100 Ber 1: 2013-08	
DIN EN ISO 4254-1:2013-10	Agricultural machinery - Safety - Part 1: General requirements (ISO 4254-1:2013); German version EN ISO 4254-1:2013

The person authorized for compiling the technical documentation available is the Head of Development at STOLL GmbH, for address see above.

Lengede 04.10.2017

Guido Marenbach
Managing Director

Dr. Rainer Golloch
Head of development



Address of the dealer

Stick or write down the serial number here

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