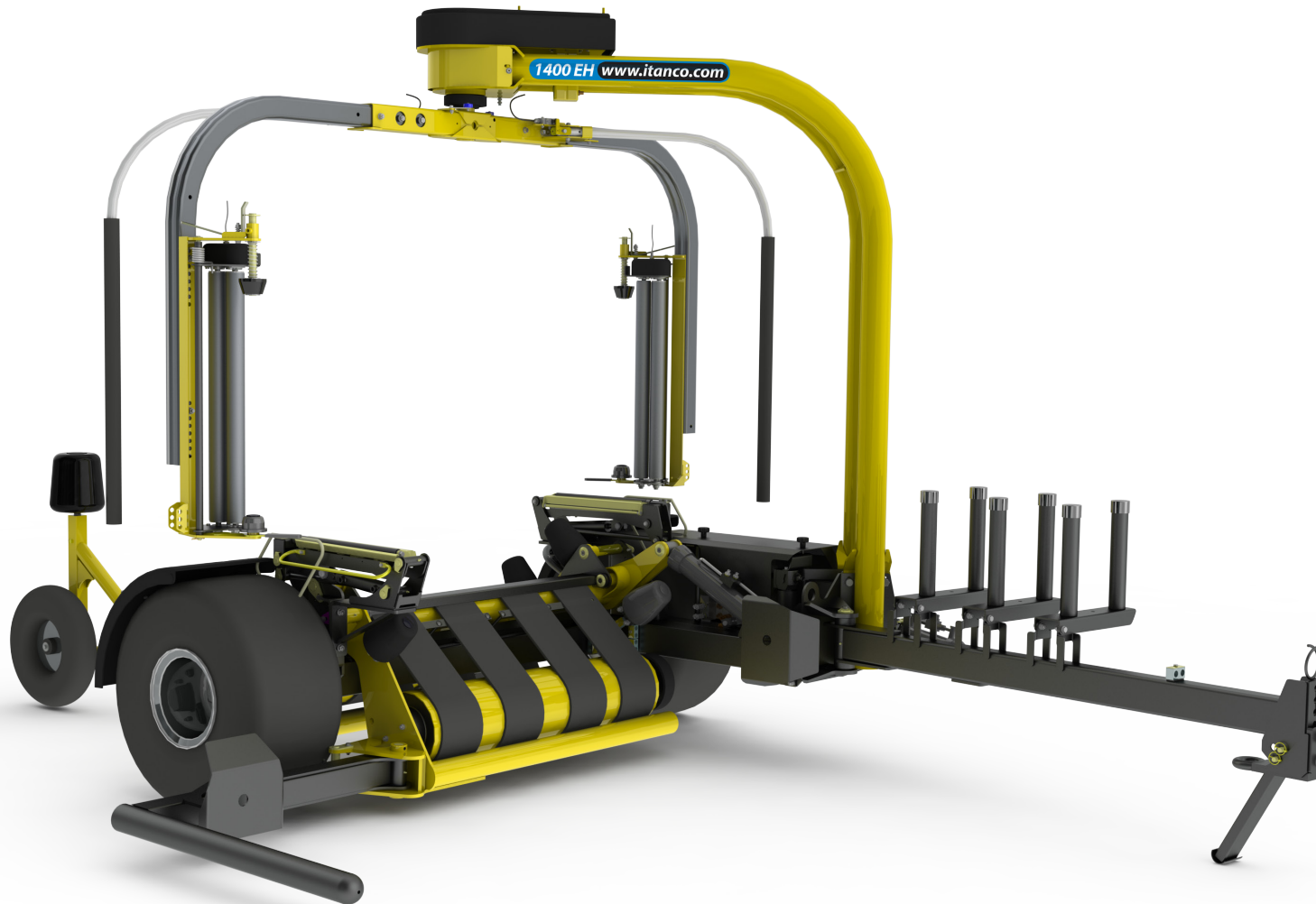


# 1400 EH - Autowrap



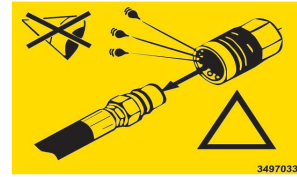
## OPERATOR'S handbook

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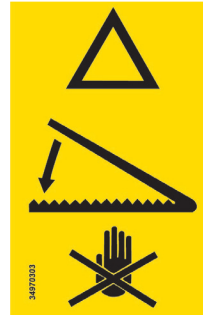
Read Operators Manual  
Prior to using machine



Warning, all hoses are  
constantly under pressure



Ensure wrapping arms  
do not exceed 30 RPM



Danger keep hands  
clear of sharp blades



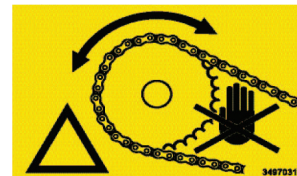
Ensure all nuts & bolts have  
been tightened prior to  
operating the machine



Danger stay at a safe distance  
whilst machine is in operation



Danger from rotating  
Prestretcher



Do not open or remove  
Safety Guards while the machine  
is connected to the tractor

Tanco Autowrap Ltd congratulates you on your choice of the TANCO AUTOWRAP 1400 bale wrapping machine. We are certain you will be satisfied with the machine, and that you will have the pleasure of your investment for many years.

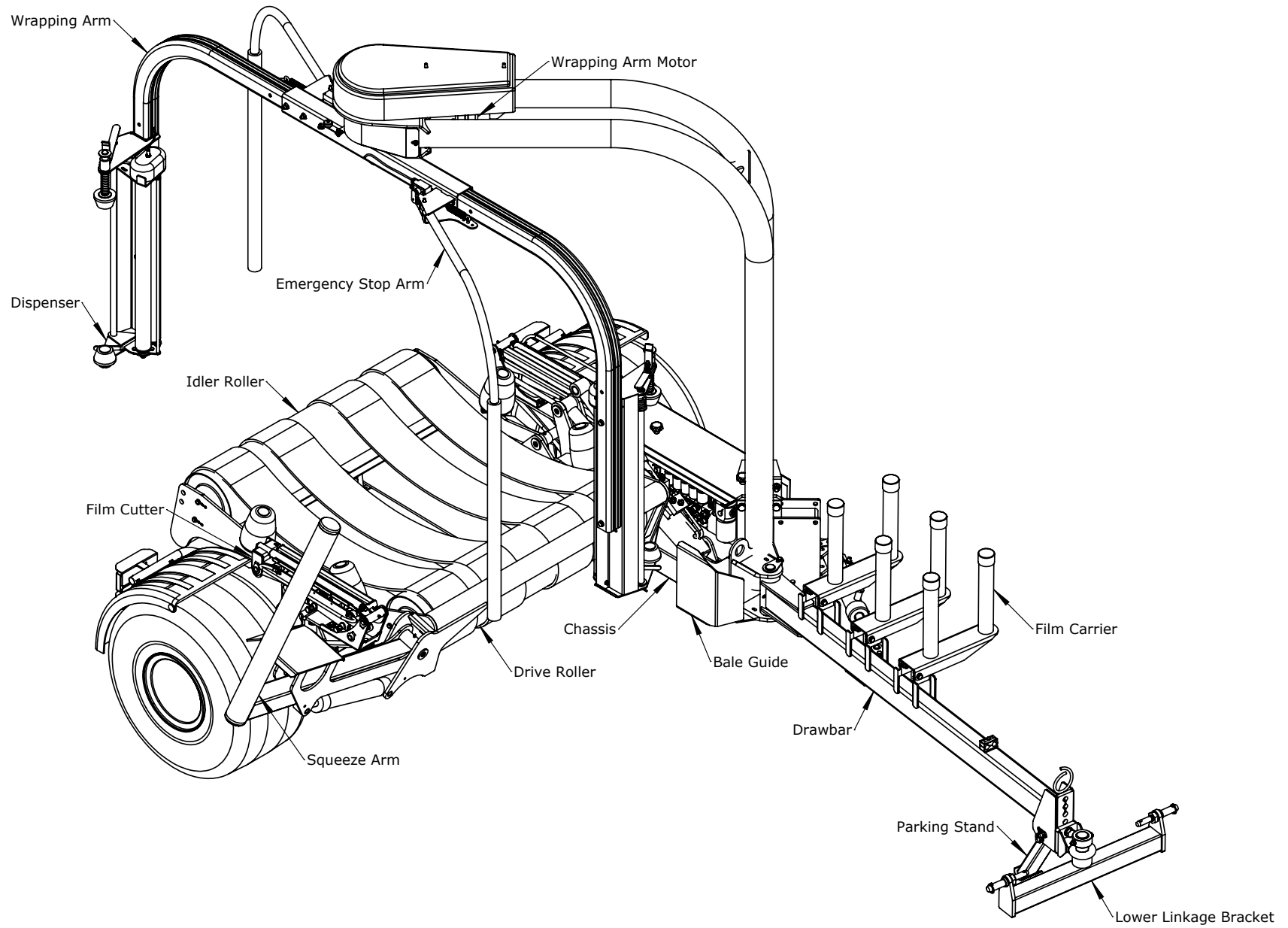
The TANCO AUTOWRAP 1400 is an efficient, high capacity bale wrapping machine. Its low centre of gravity and unique split table design ensures that power consumption is kept to a minimum without compromising output; this is a patented system.

This machine is hydraulically driven by the tractor's hydraulic system and is controlled from the tractor cab by an automatic control unit. The machine is trailed directly behind the tractor for transport and offset to the right for working in the field. It loads the bale on the wrapping table in the same direction as it is discharged from the baler. The wrapped bale can be either dropped conventionally to the ground or with the fitting of an optional 'End Tip Ramp' the bale can be dropped on its end.

TANCO AUTOWRAP 1400 is designed to wrap bales of grass, hay or straw, with nominal diameter of 1.1 - 1.5m, and weights up to (1400kg). The machine was developed and has been improved since its beginning in 2008, and is now a very reliable and safe machine with high security built in.

This manual is meant to explain how TANCO AUTOWRAP 1400 is setup, attached to tractor, used and how it works, and shall together with the spare part's list be a reference for maintenance and troubleshooting. So take good care of this book; it is a part of the machine.

Read carefully through this manual, and especially the safety instructions, before starting the machine. Follow the instructions thoroughly, if problems should occur, check the troubleshooting guide to try to establish the problem. Ask your dealer for advice before you attempt anything that may make the problem worse.



| Technical Specifications         | 1400 Autowrap                     |
|----------------------------------|-----------------------------------|
| Height                           | 2710mm                            |
| Width                            | 2660mm                            |
| Length (min.)                    | 3940mm                            |
| Weight                           | 1250 kg                           |
| Wrapping Arm Speed (Recommended) | 30 R.P.M                          |
| Wrapping Arm Speed (max)         | 35 R.P.M.                         |
| Maximum Bale Diameter            | 1500mm                            |
| Maximum Bale Weight              | 1400 kg                           |
| Pre-Stretchers                   | 750mm                             |
| Hydraulic Connection             | 1pcs Single Working + Free Return |
| Oil Pressure                     | 180 bar                           |
| Oil Amount (Max / Min)           | 60 lts/min / 30 lts/min)          |
| Maximum Counter Pressure         | 10 bar                            |
| Electrical Connection            | 12 V DC                           |

NB: Tanco Autowrap Ltd. reserves the right to modify the construction and/or technical specifications without warning and without rights to changes on already delivered products

Tanco Autowrap Ltd does not take responsibility for damages that may occur to machine, persons or other equipment, because of the machine NOT being used as described in this manual, or because of the safety precautions NOT being followed.

#### Emergency Stop

The Tanco Autowrap 1400 is equipped with a so-called emergency stop on the wrapping arm. This device stops all functions momentarily, but is per definition not an emergency stop, because it does not shut down the inputs. But it has the same function, so we have decided to call it an emergency stop in this manual.

#### Safety Equipment

Before using the machine, make sure that all guards and covers are securely fitted. The machine must not be operated if a function does not work as described later in this manual.

#### Become Familiar with the Operations of the Machine

If you are unsure how to operate the machine properly, either use of or maintenance to your Tanco Autowrap, please contact your Tanco Autowrap dealer.

#### Adjustments / Maintenance

Turn off the tractor and discharge the oil pressure before performing any adjustment or maintenance on the machine. Remember that a well maintained machine is a safe machine.



#### IMPORTANT!

Always make sure nobody is in the hazard area of the wrapping arm when the machine is in-use.

The machine must not be operated by persons who do not know enough about how to safely operate the machine, or by persons under the age of 16 years.

#### Dangerous Areas

Tanco Autowrap Ltd. has given the safety to the operator the highest priority, but it is still impossible to secure oneself of every danger area on the machine. Therefore we have highlighted below some of the dangers that can occur when using the 1400 Tanco Autowrap Bale Wrapper.

#### Impact of the Wrapping Arm

During the wrapping process the arm rotates with a speed of 30-35 revolutions per minute around the bale. On the arm is mounted a Film dispenser unit with a plastic roll. The speed on this can give a person serious injuries if one enters the working area of the wrapping arm. To reduce this danger we have mounted an emergency stop device on the wrapping arm; this stops all movement when something comes in the way of it. It is very important that this protection always works and that it should not under any circumstances be disconnected.

#### Squeeze Danger Between the Main Frame & Wrapping Arm

As explained earlier, we have a wrapping arm with a Dispenser and a plastic roll. During every revolution the wrapping arm passes the main frame. Here there may occur a squeeze danger if a person stands too close to the main frame when the wrapping arm passes. The distance between the main frame and the wrapping arm is not large enough to give place for a person. Between the pre-stretcher and the bottom frame there can also be a squeeze danger.



#### Squeeze Danger Between the Stationary Arm & Wrapping Arm

During the main wrapping process the wrapping arm moves around a stationary arm. Every time the wrapping arm passes the stationary arm there is a squeeze danger that can be dangerous for the fingers. The distance between the stationary and the wrapping arm is between 25-40 mm. (See Fig. 4.1).

#### Impact of Bale Squeeze Arm

During the bale loading process the bale squeeze arm moves both vertically and horizontally, beware of the danger and keep clear of this area whilst the machine is running.

#### Impact Danger when Machine is being changed from Transport to Working Position at the Drawbar

When the machine is being changed from transport to the working position it rotates out to the right and when it is being put back into transport it rotates back to the left, beware of the danger and keep clear of this area whilst the machine is running; especially if the squeeze arm is in the open position.

#### Squeeze Danger Caused by Plastic Automation

At the end of the wrapping process the plastic is cut and held tight until the start of the next wrapping process. When the cutter arm moves down to lock the plastic, there can occur a squeeze danger between the cutter arm and the cutter holder. The cutter blade that cuts the plastic is very sharp; ensure to keep hands away from the cutter. (See Fig 4.2).

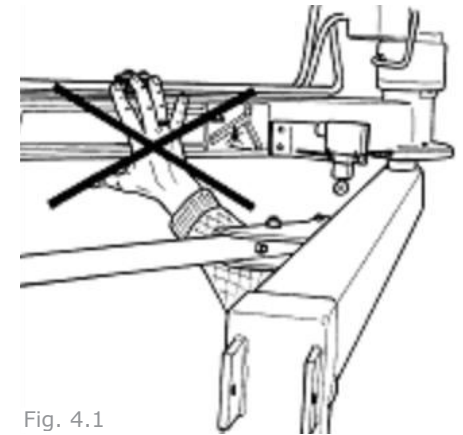


Fig. 4.1

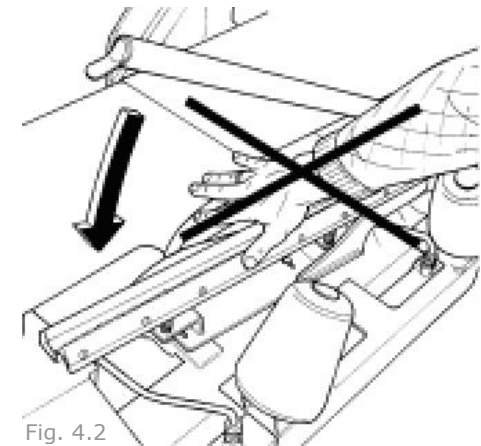



Fig. 4.2

 Connecting heavy working implements often has an overall negative effect on the tractor's driving and braking capacity.

#### Transporting

When transporting on a public road there are certain safety measures that must be taken:

1. Ensure the machine is in the transport position.
2. Ensure the squeeze arm is fully closed.
3. Ensure that the wrapping arm is not parked overhanging the sides of the machine.
4. Ensure that the lights are connected and functioning correctly
5. It is recommended that the film rolls be taken off the dispensers for road transport and put on the film carriers on the drawbar. This reduces stress on the machine and reduces the danger of the rolls being accidentally falling off on the public road.
6. The machine is wide (2660mm) even in transport position, be aware of this especially on narrow roads.



### Bale Wrapping Principles

The advantages of round bale silage are many, and include fewer feed units, a flexible harvesting system, large capacity and the possibility of selling feed units.

In principle, the same fermentation processes occur whether the fodder is placed in a silo or pressed into bales and packed in plastic, i.e. lactic acid fermentation in anaerobic conditions. The oxygen in the bale must be exhausted before fermentation begins. The grass should be dried to approximately 30-40% solid content. The solid content can be determined by twisting the grass by hand. If drops of liquid are forced out of the grass, the solid content is less than 25%. Low solid content (wet grass) can lead to increased butyric acid fermentation if preservatives are not added to the grass. If the solid content is too high, (over 50%), normal fermentation will not take place and there will be enough oxygen in the bale to produce mould fungus.

### The Baler

It is vital that the baler produces compact, well-formed bales, as misshapen bales can be difficult to wrap. Wrapping will also often take longer, thereby increasing the amount of plastic used.

### Difficult Bales

When a misshapen bale is wrapped, it will have a tendency to move outwards or inwards on the roller. If the bale begins to move outwards, the machine must be lifted slightly at the rear edge to get the bale to rest against the support roller on the main frame. It can therefore be useful to use a hydraulic top link to make this adjustment easier. (See Chapter 5; 'Hitch Height').

If the bale to be wrapped is conical you must ensure that the sharp end is pointed at the tractor. It will then be easier to get the bale to lie correctly during packing. It is easy for such a bale to "turn" forward in the direction in which it is pointing, and therefore lie against the support rollers. If the bale is lying on a slope it must be picked up from the lower side. A hydraulic top link will again be advantageous.

### Types of Plastic

A good type of plastic with good adhesive properties, and which is recommended for bale wrapping, must be used. The thickness of the plastic foil should be at least 25  $\mu$ . (25/1,000 mm). In order that the plastic tightens sufficiently around the bale, it is stretched before being wrapped, so it is somewhat thinner when it is put on the bale. With short-term storage (up to eight weeks) it is recommended that bales have a minimum of four layers of plastic at the thinnest points, with at least 52-53% overlap.

For long-term storage, or when the grass is wet when it is wrapped, the bale should have 90-100  $\mu$  plastic (six layers) and the same amount of overlap. If thinner plastic is used, more layers should be applied. If it is very hot the plastic will be stretched further, and more layers should be applied. It is better to have slightly too much than too little plastic on the bale. From experience, light colored plastic produces slightly lower temperatures within the bale, and tends to improve feed quality.

### Storage Location

Care should be taken in finding a suitable location for the storage of bales. The storage location should preferably be prepared before the bales are laid out. An elevation close to well-drained roads is recommended. If the wrapped bales are simply placed on stubble there is a danger of the plastic being pierced. A tarpaulin or a thin layer of sand should therefore be laid where the bales are to be stored over the winter.

Bales should be stored in the shade as far as possible. This reduces the danger of air leakage in the bales. A bale which is stored in sunlight and which therefore undergoes greater swings in temperature "pumps in" a great deal of air in comparison to a bale stored in the shade. According to "Teknik for Lantbruket" [Technology for Agriculture] in Sweden, a bale stored in the shade has only 40% of the air leakage of a bale which is stored in sunlight.

### Stacking / Protection

If bales are hard and well formed, they can be stacked vertically, but loose and misshapen bales with low solid content should not be stacked higher than one layer, as this could easily cause deformity and the danger of runoff will be increased.

Bales can also be stored on their sides. The layer of plastic is thicker here, providing greater protection against piercing.


Bales should be covered with a tarpaulin or a fine-mesh net to protect against birds and small rodents. If the plastic is pierced, it must be sealed with weatherproof, hard-wearing tape, preferably under the outermost layer of plastic. Ensure that the hole is adequately sealed.

### For Best Wrapping Results...

1. Harvest the grass early.
2. Ensure the grass is dried out to 30-40% solid content. If there is a danger of rain, bale and wrap the grass anyway.
3. Take care not to mix any earth in with the grass.
4. Use a baler that produces even, firm bales. Bales 1.2mtrs in width and with a diameter of 1.2-1.5mtrs are preferred sizes.
5. Wrap the bales as soon after baling as possible; never more than two hours afterwards.
6. Use a good plastic type, applying six layers of plastic. This removes the need to use preservatives.
7. Store bales in the shade to reduce the danger of air leakage.



## Mounting of the Machine

 Be careful! There is a danger of being crushed when working implements are fitted and connected. Carry out the fitting procedures slowly and carefully, and use separate and approved lifting equipment to make the work easier. Note the section on safety precautions and pay attention to the various safety decals displayed on different parts of the bale wrapper.


### Attaching to the Tractor

The 1400 can be either connected to the tractor lower links using Linkage Attachment or by removing this it can be attached to the tractor hitch using the Hitch Eye. If the lower link bracket is used the Hitch Eye should be attached in the lowest position; this will allow greater movement.

If attached to the tractor hitch it is recommended that the machine is attached to the Clevis Hitch rather than the Pick-Up Hitch. This gives more clearance between the Drawbar and the tractor's back wheels. The Drawbar does not run directly behind the tractor. In transport the Drawbar runs nearer the left wheel so the minimum turning circle to the left is reduced. In the working position this is the case for turning to the right. When the machine is attached to the tractor the Drawbar Leg must be folded up to the Drawbar by removing the Drawbar Pin; swing the Drawbar Leg upwards and fit the Drawbar Leg Pin to Position B. (See Fig. 6.1).

When attached to the tractor the machine should sit level, at this the squeeze arm will have 10cm approximate clearance with the ground when in the fully lowered position. Set linkage height to achieve this.

Adjust the linkage stabilizers to limit the lateral movement.

 If attached to the hitch change the hitch eye mounting position to set the correct height.

Ensure the Hitch Eye Fixing Bolts are securely tightened.

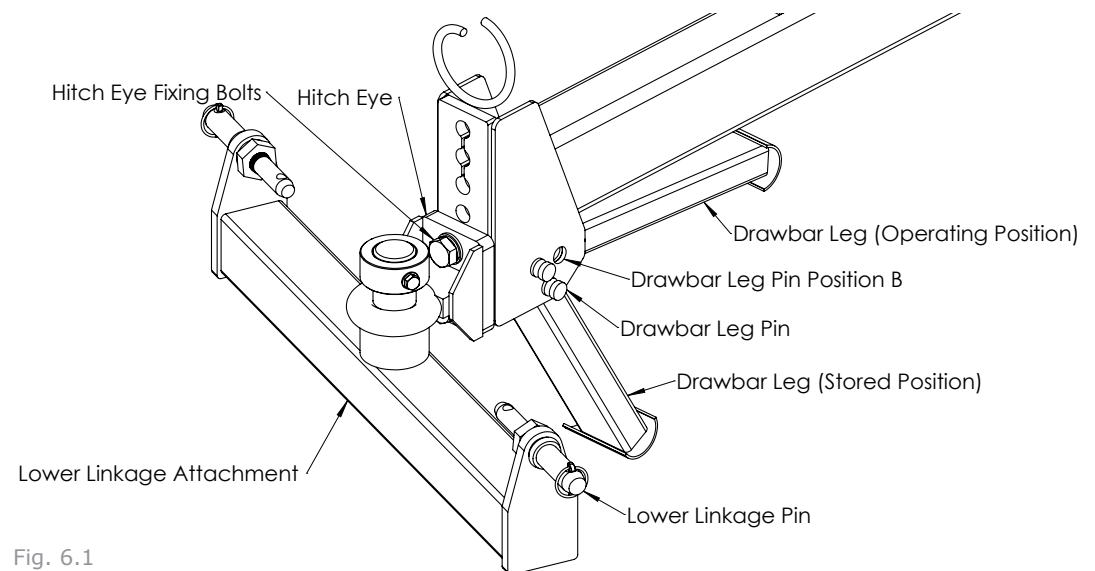


Fig. 6.1

### 1400 Control Box



The control unit consists of the emergency stop button, a control cable, a fuse and a battery cable. The control unit should be attached to a suitable place in the tractor cab using the suction pad provided.

The Remote Control Unit is not Shock Proof, make sure that is fastened to a soft pad that secures a non-vibrating foundation.

#### Electrical Connection

The electric supply for the machine's remote control and electro-hydraulic components must come directly from the tractors' 12 volt battery.

The electric wires from the battery must have an area measurement of min. 2,5 mm<sup>2</sup>. Connection to other contacts on the tractor can cause risk of malfunction and is not recommended.

#### Note:

Brown leader goes to the Battery's Positive Pole

Blue leader goes to the Battery's Negative Pole

### Hydraulic Connection

The hydraulic hoses between machine and tractor are equipped with 1/2" ISO Male Quick-Couplers. Ensure the oil pressure has been discharged before you connect the oil hoses using the tractor's hydraulic lever.

To make sure that the bale wrapper works properly, the tractors' oil pressure has to be at least 180 bar. The oil flow should be 15 - 25 liters per minute. The return pressure on the return must be as low as possible, and not exceed 10 bar. This should be measured with a gauge. It is recommended to use one single-working hydraulic outlet and arrange a free return circuit to the oil tank.

If you are unsure of what oil pressure the tractor gives, or what oil pressure the bale wrapper receives, please contact your machinery dealer. Generally all tractors have got some counter-pressure in their hydraulic return systems. Some tractors have more than others.

#### Note:

The Hose with the Red Cap shall be connected to pressure 'P' and Hose with Blue Cap to the return 'T'.

### Open & Closed Center Hydraulics

The 1400 hydraulic system can be set up for tractors with Open or Closed Center Hydraulics.

#### Open Centre Hydraulics

Most tractors have a hydraulic system that gives a continuous output which flows through the valve on the machine and back to tank when no function is operating (Open center).

#### Note:

The TANCO AUTOWRAP 1400 is set-up for open centre on leaving the factory.

#### Close Centre Hydraulics

Some tractors (John Deere) have a hydraulic system that require the valve on the machine to allow no flow when no function is operating (Closed Center).

The hydraulic valve can easily be configured to operate in this way.

Simply push and twist the Manual Override on the Master Valve. (See Fig. 6.2)

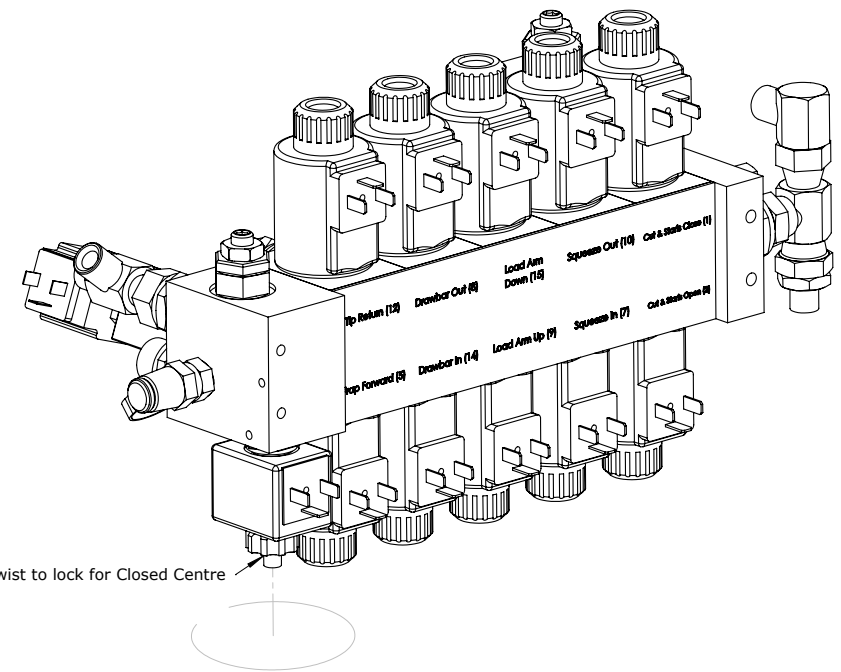


Fig. 6.2

### LS Hydraulics

Many modern tractors have a "Load Sensing" (LS) Hydraulic System. This is most efficient as the pump remains on standby, pumping no oil until it gets a signal from the machine. It is possible to run this machine on a load sensing tractor with the standard valve.

Configure the valve for open centers and if possible adjust the flow from the tractor to give ~30 lts/min. This however means that the tractor is constantly pumping and you do not get the benefit of the efficiency of your load-sensing pump.

Tanco Autowrap strongly recommend that if you are running the machine on tractor with LS Hydraulics you fit the optional Load-Sensing Block (see Hydraulic Circuit). With this block fitted a Load sensing signal is transmitted in the form of hydraulic pressure via a hose for the LS Port on the LS Entry Block to the LS Connection on the tractor.

#### Note:

The LS Entry Block can be configured also to run on any other hydraulic system, open or closed center.

#### Check List:

Before using the machine it is recommended to follow this check list:

1. Make it a habit to discharge the oil-pressure before connection or disconnection of the hydraulic hoses. (By operating the hydraulic control lever inside the tractor). (Use the tractors hydraulic control lever).
2. Return-oil should be led directly to tank. Beware that if the counter pressure is too high, the security valve on the main block will release some oil. (See Chapter 9).
3. Hose with BLUE CAP = RETURN OIL.
4. Hose with RED CAP = PRESSURE.
5. Tie up loose hoses and Connection Cables so that no squeeze damages occur.
6. Remove the locking bolt that holds the wrapping arm to the frame during transport.
7. Start the tractor and try out the functions. A bale is not required for this test.
8. Check all connections, hoses and couplings. If there is any oil-leakage, it should be rectified immediately.

If any problems should occur, it is most likely that the failure is in the quick-couplers on the tractors pressure and return-connections.

Make sure that both the male and female-couplers opens properly for the oil flow, check these carefully. The best thing to do is to exchange the quick-coupling on the return side and arrange a "free return".

Your Tanco Autowrap Bale Wrapper has been tested in practical operation in approximately 2 hours at the factory.

### Emergency Stop (See Fig. 6.3)

This machine is equipped with safety guards on the Wrapping Arms, and its operation must be tested before work itself is started.

The Emergency Stop is to prevent the Wrapping Arm from damaging people and objects, when the machine is started and during the wrapping process. It consists of two safety arms that run in front of the film dispensers. When tripped they activate an electric switch, which gives a signal to the control box to activate the emergency stop.

When testing this function, start the Wrapping Arm, hold out an arm or any obstacle. The wrapping arm shall now stop before it hits the arm. Great care must be taken when testing this function.

To restart the machine the obstacle must be removed and the arm must be returned to its original position. The Auto Switch on the control box must be activated again. The wrapping may start again.



### IMPORTANT!

GIVEN THE VELOCITY AND MOMENTUM OF THE ARM IT IS IMPOSSIBLE TO STOP THE WRAP ARM IMMEDIATELY. THE EMERGENCY STOP ARM IS PROVIDED TO HELP REDUCE THE RISK OF SERIOUS INJURY AND GREAT CARE MUST BE TAKEN WHEN OPERATING THIS MACHINE.

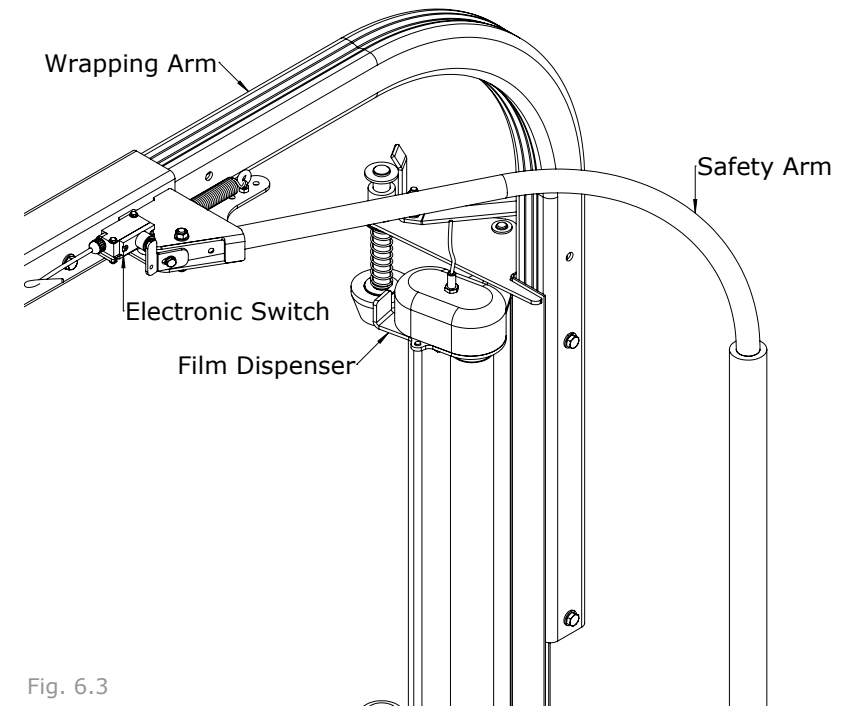


Fig. 6.3



### Mounting of Plastic Film (See Fig. 6.4 & 6.5)

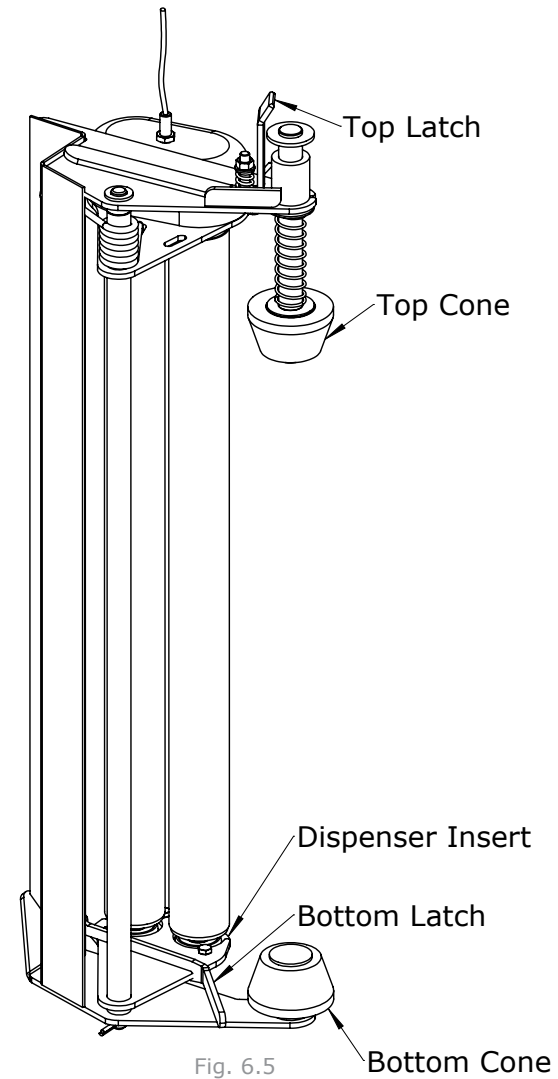
When loading a plastic roll, first ensure the Top Cone is pushed up to the latched position, then push back the Dispenser Insert until held in position by the Bottom Latch.

Place the Roll on the Bottom Cone and release the Top Latch.

 BEWARE OF FINGERS!

Pull the film between the rollers on the Dispenser Insert in the direction of the arrow, as shown below. (See also the sticker on the dispenser).

Release the Bottom Latch and allow the rollers to lie against the roll of film. Pull the film from the roll and tie it to the bale.





### Adjusting the Height of the Dispenser

The standard film dispenser is designed for 750mm film. If using 500 mm film an adaptor is required which must be ordered separately. See parts book and contact your dealer.

The plastic film should hit at the middle of the bale wrapped (Fig. 6.6), and therefore it can be necessary to adjust the height of the pre-stretcher (See Fig. 6.7).

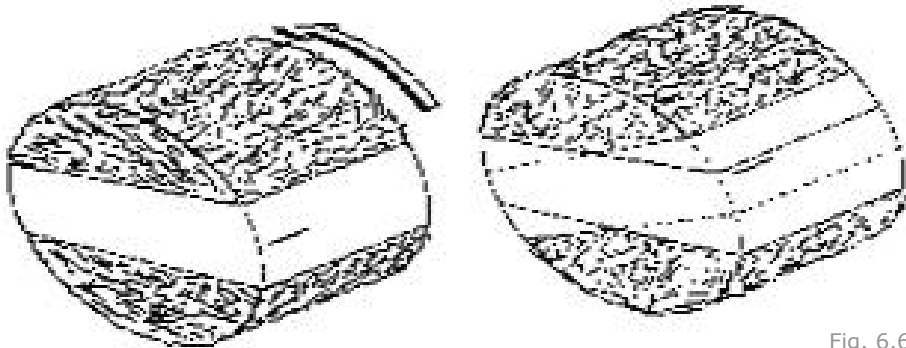


Fig. 6.6

Height Adjustment

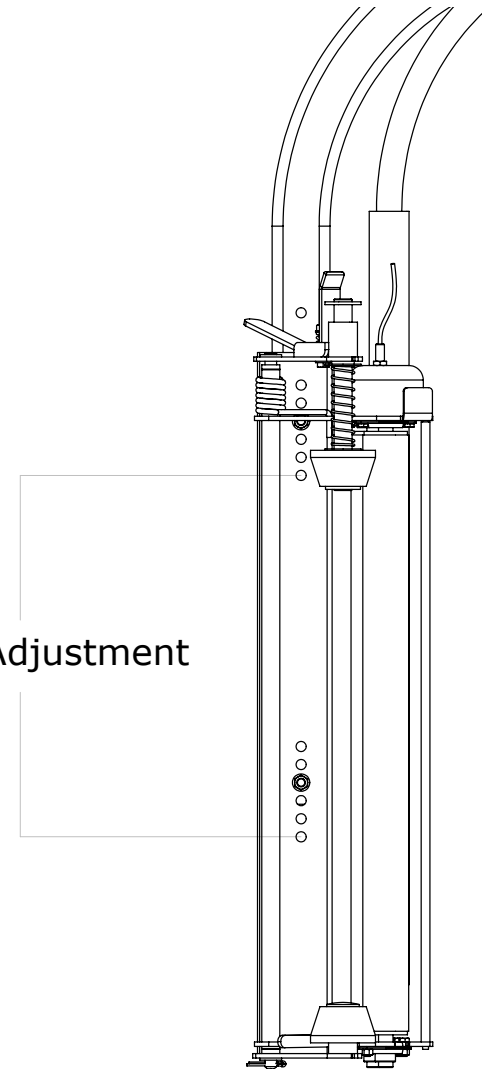


Fig. 6.7

### Tanco Dual Stretch Dispenser

All Tanco Autowrap machines are supplied with a patented dual stretch gear system. This system enables a quick change of stretch levels on the Film Dispenser.

If the Gear Bolt is fitted in Position 1 (See Fig. 6.8), the top set of gears provide the stretch @ 70%. By removing the Gear Bolt from Position 1 and fitting it in Position 2, the bottom set of gears become the stretch gears giving 32% (for prestretched film) or optionally 55% (for use in hotter climates or with square bales).

### Tanco Dispenser Gear Combinations

| Inner Gear | Outer Gear | % Stretch |
|------------|------------|-----------|
| 60 Tooth   | 35 Tooth   | 70%       |
| 58 Tooth   | 37 Tooth   | 55%       |
| 54 Tooth   | 41 Tooth   | 32%       |

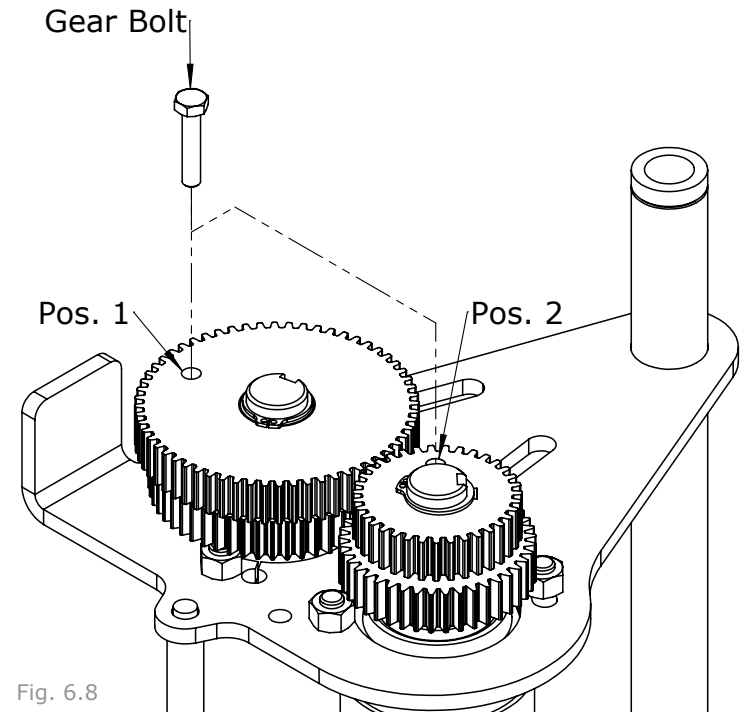


Fig. 6.8

## Introduction

The Tanco Autowrap Bale Wrap Controller enables the operator to monitor and control the operation of the bale wrapper at any stage of the wrapping cycle. The controller is designed for models: 1400 and 1814 table type wrappers.

There are 2 operating modes – Automatic and Manual. The Automatic Mode permits 'one-touch wrapping' to ease the workload on the operator. The controller is fully programmable to optimise wrapping performance. Bale counts are automatically logged in any one of 10 selectable memory stores, in addition to a grand total memory store.



### IMPORTANT SAFETY INFORMATION!

Please read and understand the instructions for using this controller before operating the machine.

This controller is fitted with a push-button type On/Off Emergency Stop switch. Always ensure the controller is switched OFF via this switch before attempting any adjustment or maintenance to the machine.

Please follow ALL other safety instructions given in the manufacturers' Operator's Manual for this machine.

### Controller Main Operating Functions & Display

The principal instrument features and operating functions of the Controller are shown in Fig. 7.1 overleaf.



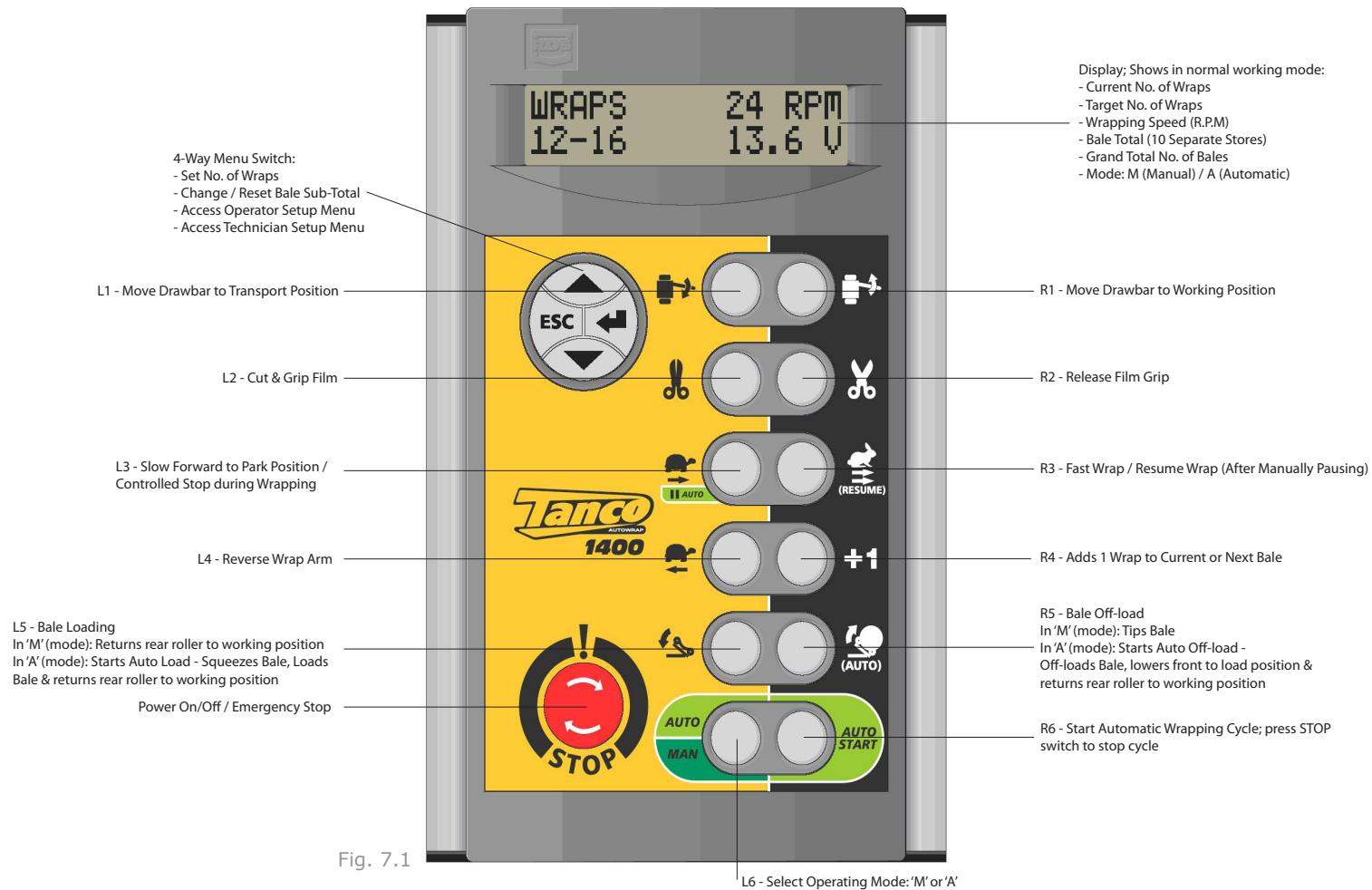


Fig. 7.1

## Operation

### Operation in Automatic mode

The automatic sequence is made up of three sections: Loading, Wrapping and Off-loading.

The controller comes initially set so one press of a button automatically loads the bale, a second press runs the complete wrapping cycle and a third press automatically off-loads the bale.

It is possible to set the controller so one button press runs the complete cycle, see 'Changing Default Automatic Sequence'.

As initially set three buttons on the controller are used to start each section of the sequence, see points, 3, 5, and 7 below.

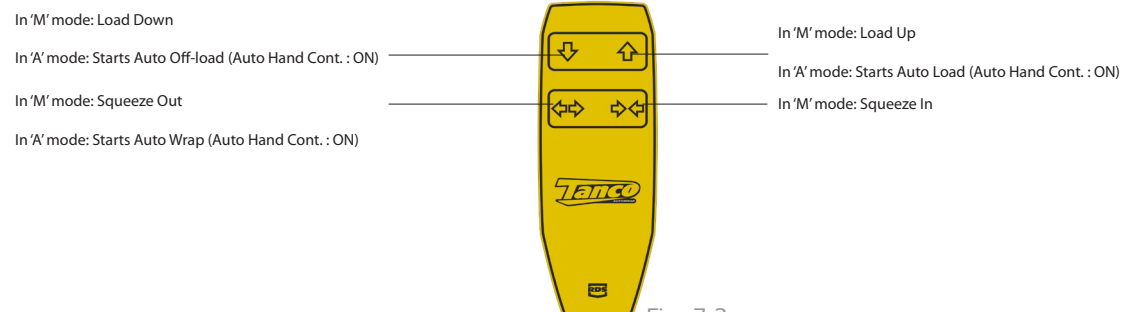


Fig. 7.2

## Operation

### Operation in Automatic mode

The automatic sequence is made up of three sections: Loading, Wrapping and Off-loading.

The controller comes initially set so one press of a button automatically loads the bale, a second press runs the complete wrapping cycle and a third press automatically off-loads the bale.

It is possible to set the controller so one button press runs the complete cycle, see 'Changing Default Automatic Sequence'.

As initially set three buttons on the controller are used to start each section of the sequence, see points, 3, 5, and 7 below.

1. 'A' on the display indicates that the controller is set in Automatic mode. If not press (L6) to select.
2. The automatic starts with the wrap arm in the park position, that is with the wrap arm magnet parked under the sensor, the load arm down and squeeze arm in the fully open position.
3. Press (L5) to start the Auto Load sequence as follows:
  - The squeeze arm comes in for a set time, bringing it in under the bale.
  - The load arm raises for a set time, lifting the bale on to the table.
  - The squeeze arm opens fully to a sensor.

4. If the wrapping arm is not parked in the Park Position then the controller will give an error message 'DISPENSER POSN' and it will not start loading. Correct the arm position and repeat.
5. Press (R6) to commence the Automatic Wrapping Cycle as follows:
  - The wrap arm will start in slow speed and ramp up to full speed.
  - The Cut and Starts open twice to release the plastic.
  - On the last turn the wrap arm ramps down to slow speed.
  - The Cut and Starts open.
  - The wrap arm stops.
  - The Cut and Start closes.
  - The wrap arm reverses to the park position.
6. The squeeze arm must be in the fully out position for auto wrapping to start, if it is not the controller will give an error message 'SQUEEZE OUT' and not start wrapping. Correct the squeeze arm position and repeat.
7. Press (R5) to start the Auto Off-Load
8. If the wrapping arm is not stopped in the park position then the controller will give an error message 'DISPENSER POSN' and IT will not start Auto Off-load. Correct the arm position and repeat.


#### Changing Default Automatic Sequence

In the default automatic sequence the controller waits for a start signal before wrapping and again before off-loading. It is possible to change this:

In the Operator Setup if Autostart Wrap setting is changed from Off to On, then wrapping will automatically start when the load sequence has finished. Likewise if Auto Off-Load is change to On then the bale will automatically be off-loaded when the wrapping sequence has finished. Great care should be taken when auto off-loading especially in hilly conditions. In the interest of safety if the above settings are set to On, the controller will prompt you to confirm the On setting if the controller is switched off and on again.

### Manually Interrupting an Automatic Wrapping Cycle

Press (L3) to bring the wrapper to a controlled stop. Pressing (R3) will resume the auto-wrap cycle from where it stopped.

 For safety reasons; if it is necessary to work on the machine (e.g. in the event of a film break or the film running out), then it is strongly recommended that you then switch the controller off via the red stop button and disengage the machine power source. Pressing the (R3) switch after switching the controller back on will resume the auto-wrap cycle from where it stopped. Unless it is an emergency situation, do not bring the machine to a stop by pressing the red stop button as this will impose unnecessary strain on the machine.

### Manual Options in Automatic Mode

With the controller in Automatic Mode, the following manual functions are possible;

#### - Slow Wrap (not during the wrapping sequence)

If (L3) is held down the arm will stop when it comes to the park position, releasing and pressing again will move the arm to the next park position.

Press (R3) to resume the normal fast wrap.

#### - Reverse Wrap Arm (only enabled outside of the wrapping sequence)

Press (L4) to shift the wrap arm backwards to the desired position. As with the slow wrap if this button is held down the arm will stop at the park position.

#### - Load Arm Up (on Hand Held Controller)

Pressing the Upwards arrow on the Hand Held Controller raises the Load Arm.

#### - Load Arm Down (on Hand Held Controller)

Pressing the Downwards button on the Hand Held Controller lowers the Load Arm.

#### - Squeeze Arm In (on Hand Held Controller)

Pressing the button with both arrows facing one another closes the Load Arm in.

#### - Squeeze Arm Out (on Hand Held Controller)

Pressing the button with both arrows facing away from one another opens the Load Arm.

#### - Add 1 Wrap

Each time you press (R4) an additional wrap will be put on the current bale if the wrapping sequence is in progress, or onto the next bale if the automatic cycle has not yet been started. You can add as many wraps as required.

### Operation in Manual Mode

'M' on the display indicates that the controller is set in manual mode. If not, press (L6) to select.

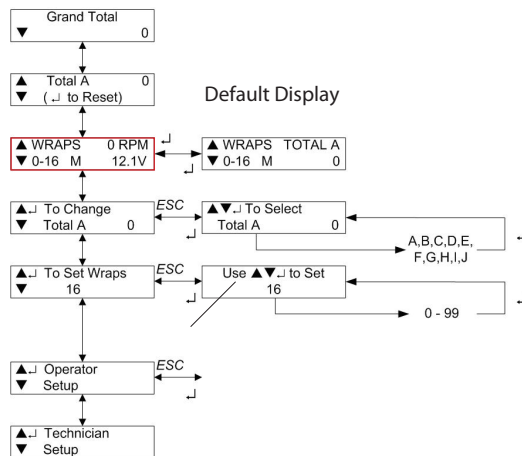
In Manual Mode you have total control of every stage of the wrapping cycle. The software logic determines which manual functions can be activated at any point in the wrapping cycle. Should the operator incorrectly select a function at a certain stage during the wrapping cycle, then that operation will not be performed.

### The Display Menu

The Display menu is divided into 3 sections. At the top level are the settings used during the daily work with the machine – i.e. Store totals and No. of Wraps. The Operator Setup section enables the operator to perform adjustments to the machine operation – e.g. time duration and time delay settings during the automatic cycle.

The 'Technician Setup' menu is not normally accessible to the operator without a PIN access code. 'Technician Setup' is not covered by this manual.

Use the 4-way switch to navigate the menu. Each menu screen indicates which keys to press to make the settings. The instrument will default back to the main operating display after 30 seconds if no other key is pressed.



(Note: See Programming Factors on 36 & 37)

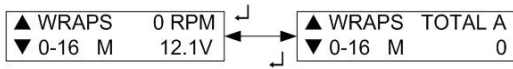


NOTE: There are additional sequences selectable in the Operator Setup menu but not shown in the table. These sequences are for wrapper models to which this manual does not apply. Please refer to the Operator Setup Menu for further explanation of the Operator Setup functions given in the table above.

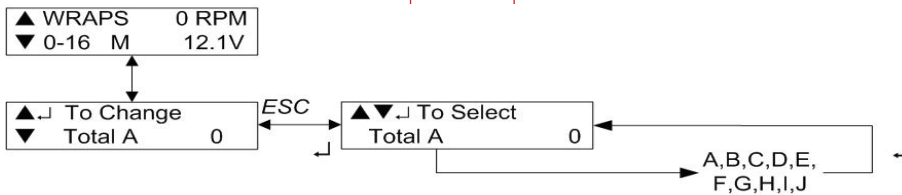
### Selecting a Store Total

There are 10 individual memory registers labeled 'Store A' to 'Store J' for bale totals. Each time a bale cycle is completed, the currently selected store total and the grand total increments by 1.

The currently selected store is displayed on one of the two screens selectable in the normal operating mode.



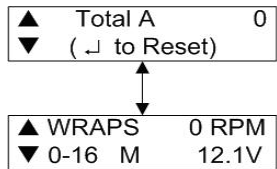
The default setting is Store A. To select a particular store, navigate the display menu using the 4-way switch.



Press the Up/Down arrow keys to select the store, then press the ENTER key to confirm the selection.

### Resetting a Store Total to Zero

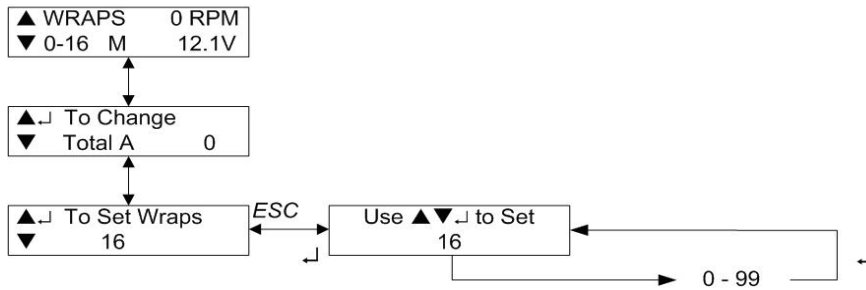
Stores A to J can be individually reset to zero at any time. The Grand Total store cannot be reset. First select the store to be zeroed, and then navigate the display menu as shown below.



Press the ENTER key to reset.

### Setting the Number of Wraps

The default number of wraps is 16. You can set the target number from 0 to 99 by navigating the display menu as shown below.



1400 Programmable Factors - Operator Level

| Menu No. | Operator Level      | Default | Units   | Notes  |
|----------|---------------------|---------|---------|--|
| N/A      | Target No. of Wraps | 16      |         |  |
| 4.01     | Contrast            | 6       |         |  |
| 4.02     | Film Break          | OFF     |         | Switches On or Off - Film Break Sensor       |
| 4.41     | Remote Type         | IR      |         | Optional Extra Remote Control                |
| 4.4      | Auto Hand Cont.     | Off     |         | Always Set to Off                            |
| 4.47     | Autostart Wrap      | Off     |         | Switches On or Off Automatic Wrapping Start. |
| 4.03     | Auto Off -Load      | Off     |         | Switches On or Off Automatic Off-loading.    |
| 4.07     | Squeeze In          | 3.0     | Seconds | Squeeze Arm in Time                          |
| 4.08     | Load Up             | 4.0     | Seconds | Load Up Time                                 |
| 4.09     | Squeeze Out         | 2.0     |         | Squeeze Arm Out Time                         |
| 4.45     | Pause to Release    | 1.0     | Seconds | Pause at when Load Up before Squeeze Release |
| 4.46     | Tip to Load Down    | 1.0     | Seconds | Time from Tip to Front Down                  |
| 4.23     | Wraps to Release    | *3      | Pulses  | No. of Wraps to First Film Release.          |
| 4.24     | Release 2           | *8      | Pulses  | No of Wraps to Second Film Release           |
| 4.25     | Release Delay       | 0.0     | Seconds | Delay from Passing Sensor to Cutter Opening  |
| 4.44     | Del. to C&S Open    | *0.2    | Seconds | Time from Slow to Cutter Open                |
| 4.26     | Delay To Slow       | *0.3    | Seconds | Time from Passing Sensor to Going Slow       |
| 4.27     | Delay To Stop       | 0.2     | Seconds | Time Past Sensor                             |
| 4.49     | Arm adjust          | 0.5     | Seconds | Time Load Arm Raises for Ground Clearance    |
| 4.5      | In line             | Off     |         | Switches On or Off In line Sensor Operation  |
| 4.35     | Language            | English |         |  |

1400 Programmable Factors - Technician Level (Pin 1,2,3,4)

| Menu No. | Technician Level | Default | Units   | Notes  |
|----------|------------------|---------|---------|--|
| 5.01     | Sequence         | 1400    |         |  |
| 5.39     | Slow Arm PWM     | *33     | %PWM    | Sets Wrapping Slow Speed                                     |
| 5.4      | Fast Arm PWM     | *49     | %PWM    | Sets Wrapping Max. Speed                                     |
| 5.41     | Rev Arm PWM      | *30     | %PWM    | Sets Reverse Speed   |
| 5.51     | 1-D Fast Speed   | *49     | %PWM    | Sets Speed with 1 Plastic                                    |
| 5.15     | Slow Start Time  | *2      | Seconds | Slow Time Duration at Start                                  |
| 5.16     | C&S Open Time    | 0.3     | Seconds | Cutter Opening Time  |
| 5.17     | C&S Close time 1 | 0.3     | Seconds | Cutter Closing Time During Wrapping                          |
| 5.18     | C&S Close time 2 | 2.0     | Seconds | Cutter Closing Time at End of Wrapping                       |
| 5.53     | 1-D Rolls Stop   | 1.0     | Seconds | Table Rollers Intermittent Stop Time for 1 Film Wrapping     |
| 5.58     | 1-D Rolls Rot.   | 1.3     | Seconds | Table Rollers Intermittent Rotation Time for 1 Film Wrapping |
| 5.48     | Tip Return Delay | *0      | Seconds | Delay from Tip to Tip Return                                 |
| 5.5      | Load Arm Down    | 3.0     | Seconds | Load Arm Down Time   |
| 5.49     | Tip Return Time  | *2      | Seconds | Tip Return Time  |
| 5.57     | Door Open        | 5.0     | Seconds | Minimum Time Accepted for Bailer Door Opening.               |
| 5.25     | RPM Alarm        | *35     | Seconds | Maximum Wrapping Arm Speed                                   |
| 5.28     | Set Default      |         |         | Sets Controller Back to its' Default Settings                |

Operator Setup Menu

The default settings for the machine are developed by Tanco for optimal operation of the machine. However, the operator can change certain parameters in the 'Operator Setup' menu to take account of operational conditions.

### Transport & Working Positions

Working in the field the 1400 is off-set to the right hand side of the tractor, for road transport the draw bar is moved in so the machine runs directly behind the tractor.

#### Changing from Working to Transport Position (See Fig. 8.1)

- Swing Drawbar in fully.
- Raise the Load Frame Fully Up.
- Rotate Wrap Arm in slow speed too so it is running in line with the centre of the machine, it is recommended for safety that the rolls of film be removed from the dispensers and placed on the carriers on the drawbar.
- Rotate the Squeeze Arm to its' inner position taking care that the not strike the parked wrap arm.

To move from transport to working position carry out the above in reverse order.

Note: If Wrap Arm Reverse button (L4) is held down the wrap arm will reverse to the park position and stop automatically in the correct position.

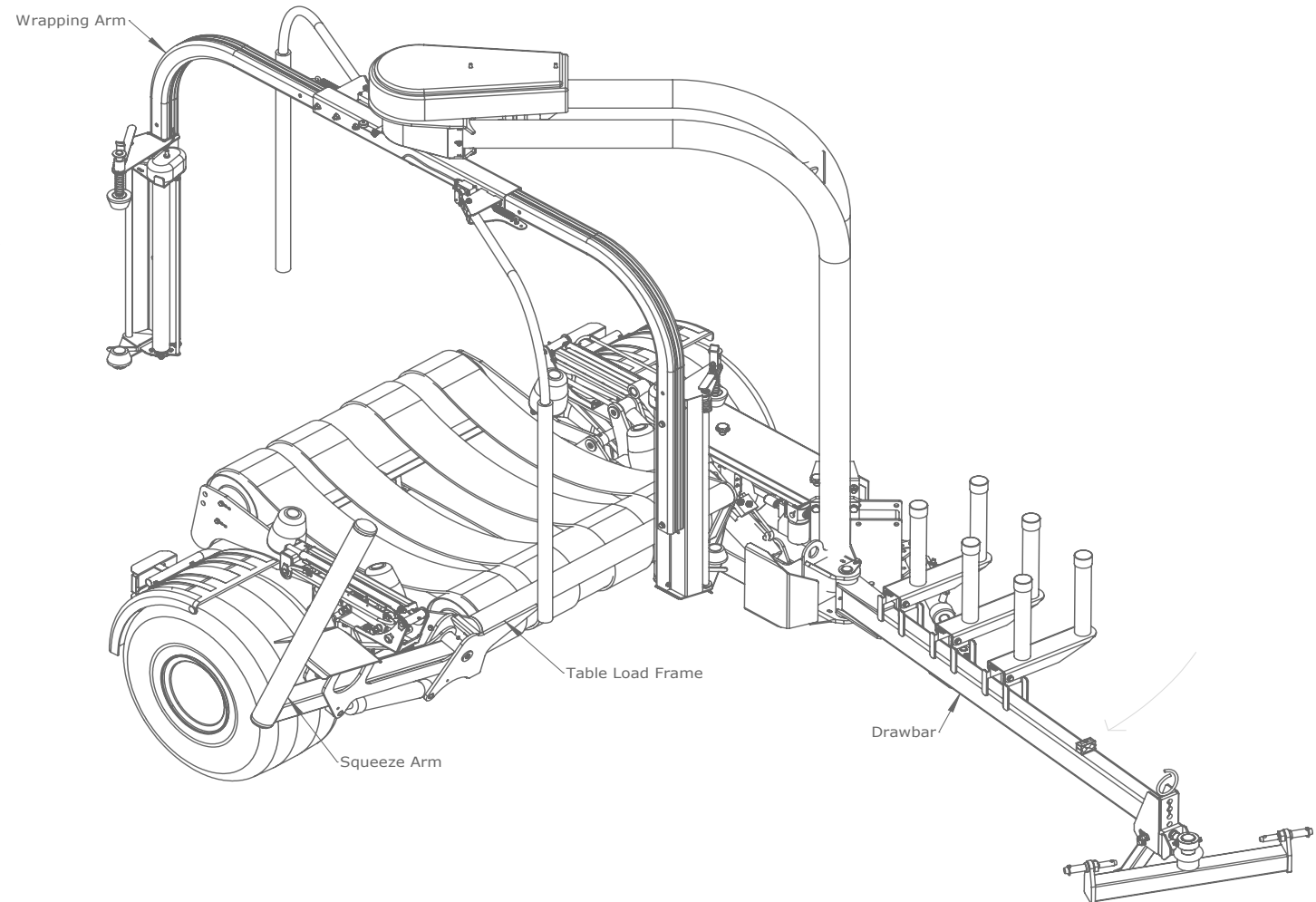


Fig. 8.1

### Setting the Speed of the Wrapping Arm

The wrapping arm speed is controlled by a proportional hydraulic valve. When running in automatic mode the arm starts at slow speed, then ramps to full speed and on the last revolution ramps down to slow and stop. The machine is set as standard to run at approximately 30 RPM.

Adjustment of arm speed is done in the Technician Level of the controller and it is therefore recommended that it be altered by an experienced technician. Menu No.5.4 Fast Arm PWM, sets the maximum arm speed. Note the setting valve here is not the actual RPM but the proportion the valve is open. A setting of 50 equates to 30 RPM approximately. Note setting changes should only be made in increments of 1 as the maximum allowable speed is 32 RPM.

Slow speed and ramping up and down settings are also done in the technician Level of the controller.

NOTE: Max. allowed wrapping arm speed is 32 revolutions per minute.

### REMEMBER!

Increased speed of tractor engine does not increase the wrapping speed, it only increases the oil flow into the system, this may increase the temperature in the hydraulic system.

### 3 Operational Principles

The controller allows for varying degrees of operator intervention in the control of the machine. It is possible to set the controller so one press of a button will run a full automatic sequence from loading to wrapping and unloading. When operating in less than ideal conditions for example when wrapping badly shaped bales or if wrapping in hilly areas it is advisable to break the sequence into the three sections;

Loading  
Wrapping  
Unloading

See below the correct way to perform these tasks;

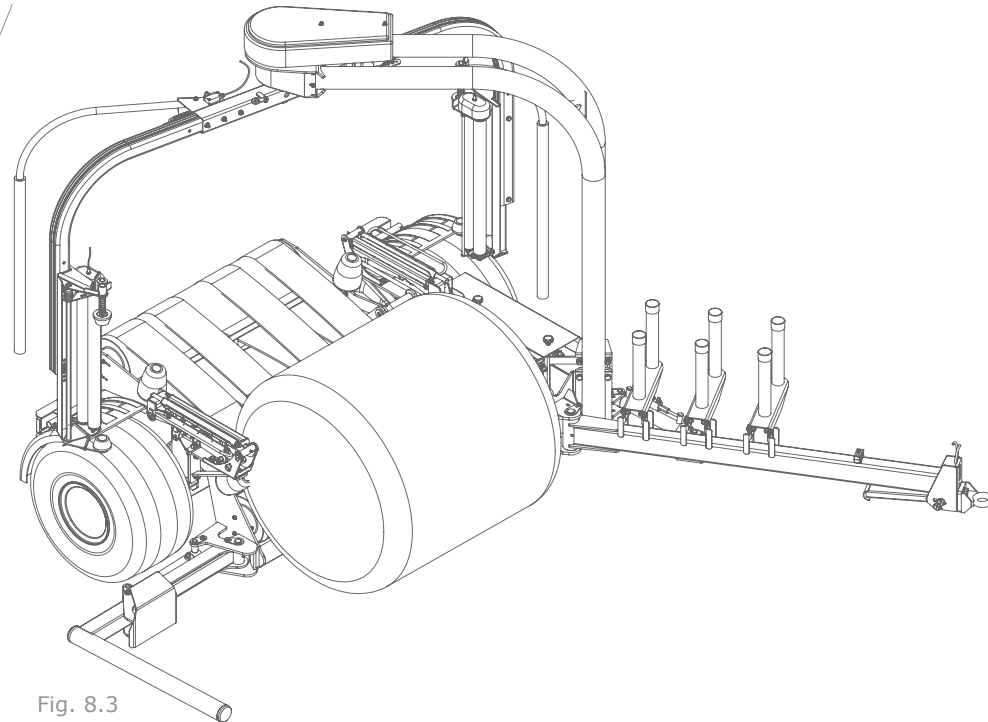
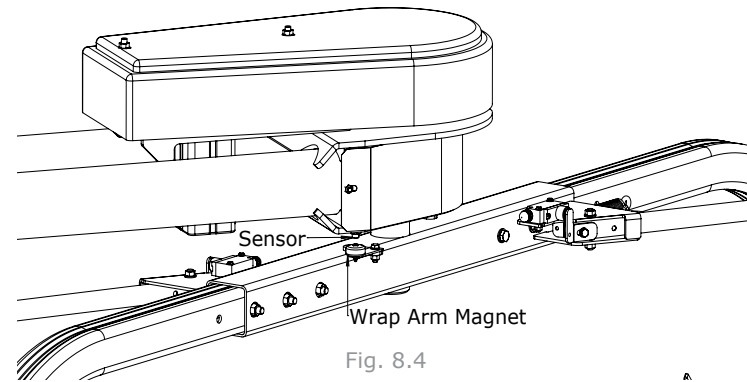
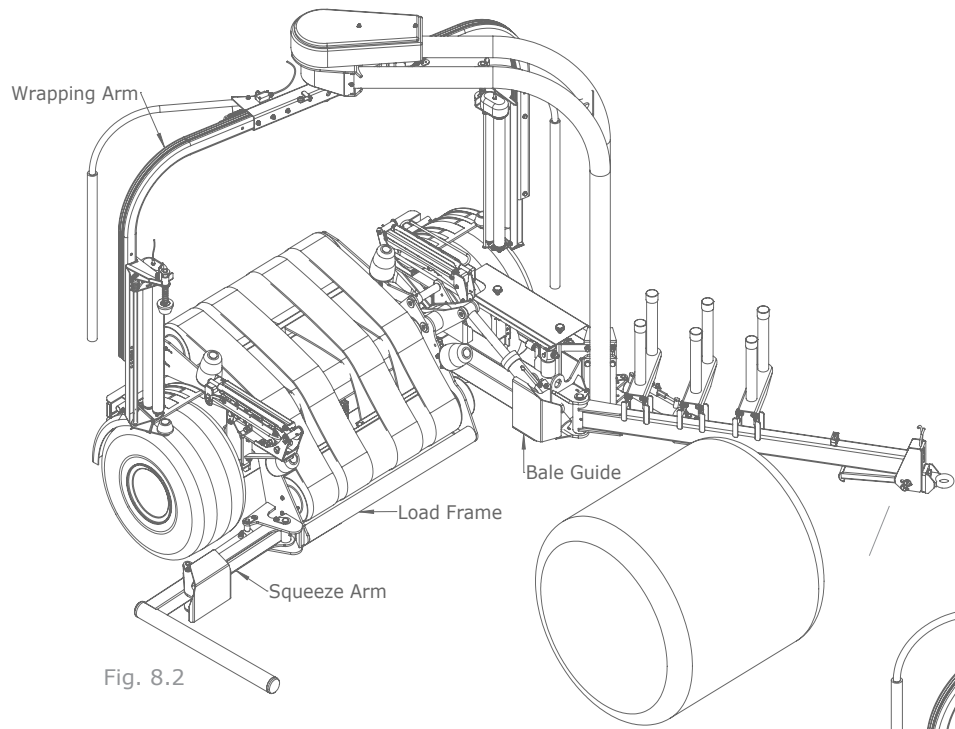
#### - Loading

Set the machine into the loading position: (See Fig. 8.2)

- Move the Drawbar to the full out position.
- Lower the Load Frame to the ground.
- Open the Squeeze Arm fully.
- Ensure the Wrapping Arm is in the park position; ie the Wrap Arm Magnet is positioned under the Sensor, (See Fig. 8.4)

Note: The controller will not allow loading if the wrap arm is not in this position.

- Drive up to bale, keeping the Bale Guide close to the end of the bale, commence loading when Load Frame cross tube is in contact with the bale (See Fig. 8.3).



### - Wrapping

The Squeeze Arm must be in the full out position for wrapping to commence. Make sure that the bale is sitting correctly on the table before starting wrapping. Pressing (R6) starts the automatic wrapping cycle.

### Adjusting the Overlap

The 1400 is fitted as standard with the 2 x 2 x 50% film overlap system when using 2 rolls of 750 film. This is achieved by means of the gear ratio of the drive, ensure that the correct number of film layers are applied to the bale after a specific number of revolutions of the wrap arm. The number of turns required to wrap a bale depends on bale size .

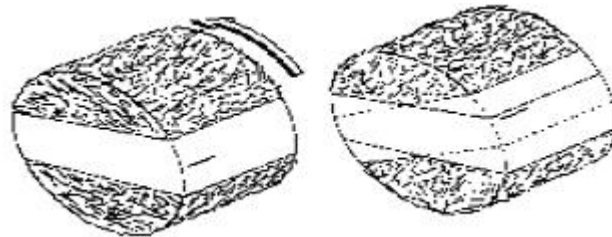
To calculate the number of turns required:

Count the number of turns to just cover the bale, add 1 to this. This applies two layers, multiply by 2 for 4 layers, 3 for 6 layers and so on.

The table below give an indication of the number of wraps to achieve the desired number of layers on different size bales.

Best practice suggests a minimum of 6 layers and more on high dry matter and stemmy material.

| Bale Diameter | 4 Layers | 6 Layers |
|---------------|----------|----------|
| 120cm         | 16 wraps | 24 wraps |
| 150cm         | 20 wraps | 30 wraps |



### - Unloading

In 'A' (Auto Mode) the machine will run through a full automatic wrapping sequence. One round before the required number of revolutions is obtained; the speed of the wrapping arm is reduced and the cutter opens. The wrapping arm passes the open cutter and stops. The cutter closes and the wrapping arm reverses to the park position. (See Section 7 for making alterations to controller settings).

The Bale is now ready to be Unloaded this can be done in one of two ways; Standard Off-loading or End Tipping

### Standard Off-loading

The rear roller drops down to off-load the bale. Beware of the danger of the bales rolling when working in hilly conditions, always off load the bale across the hill. The controller allows a number of methods of triggering off-loading:

If Auto Off-Load is set to ON (Operator Setup) then the bale will be automatically off-loaded at the end of wrapping. If Auto Off-Load is set to OFF, then press (R5) must be pressed to start off-loading.

### End Tipping

The 1400 can be fitted with an optional bale End Tipping attachment (See Fig. 8.5) which turns the bale on to its end as it is being off-loaded (see Fig. 8.6 & 8.7). It is attached to the Table Tip Frame with bolts and rubber buffers and can be adjusted to ensure that wheel is clear of the ground during transport.

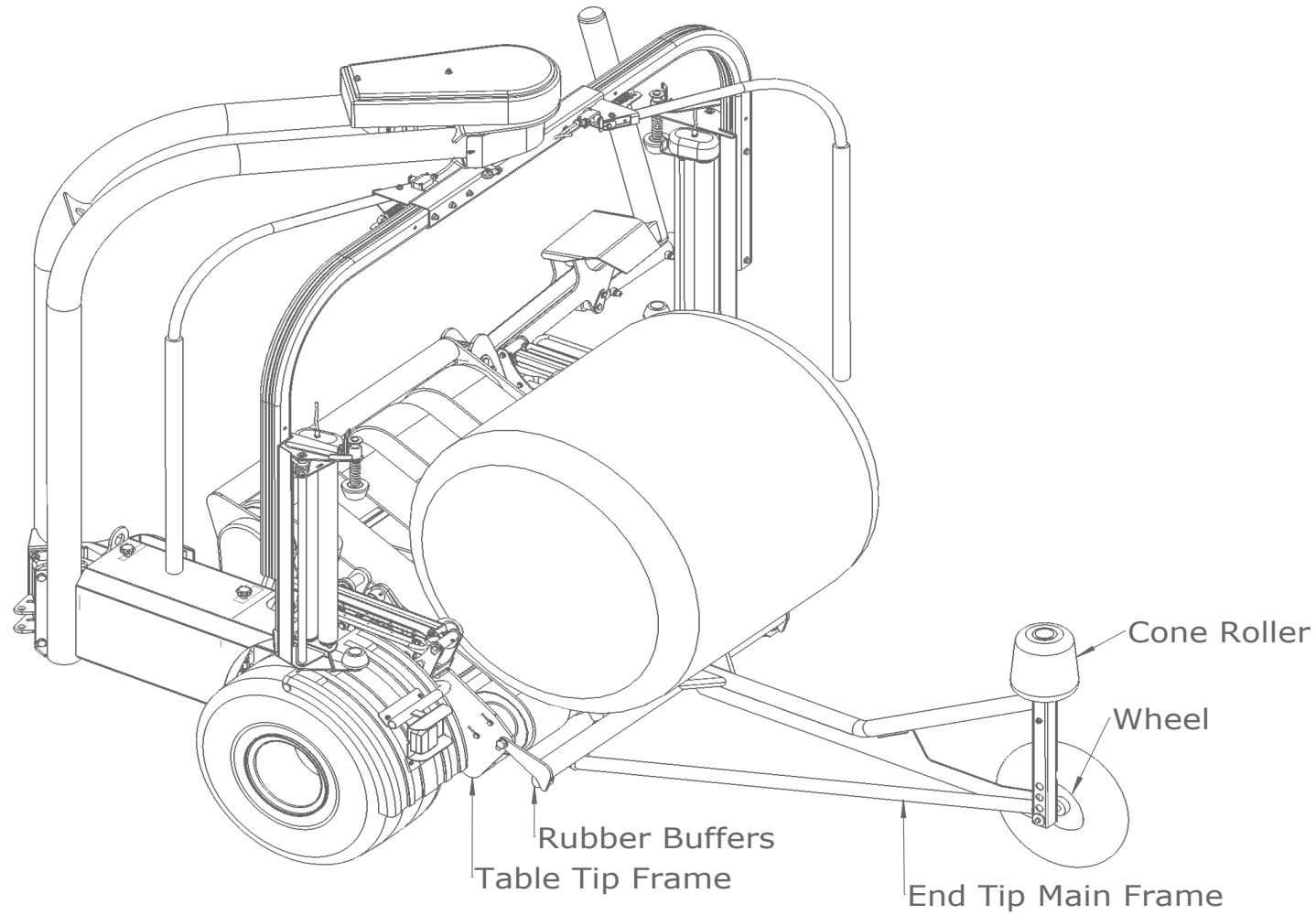


Fig. 8.5



To avoid damage to the bale the 1400 should be stationary when End Tipping.

The operation of the end tip attachment is heavily dependant upon the terrain and the bale shape. The mounting height of the wheel is adjustable to improve operation with different bale sizes and operating conditions.

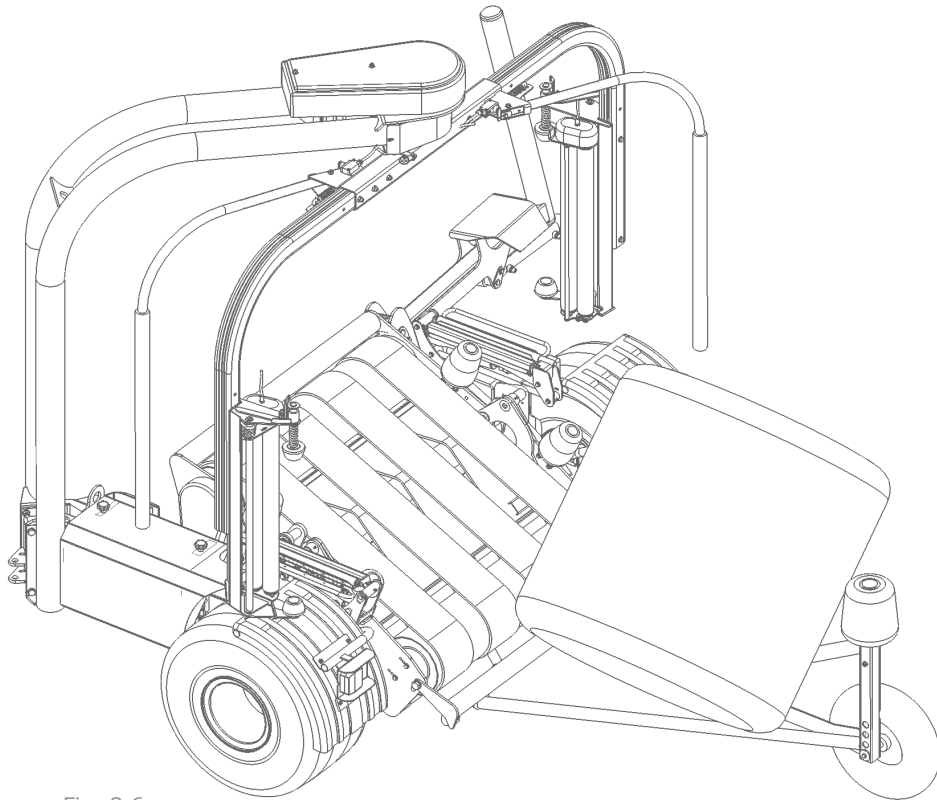


Fig. 8.6

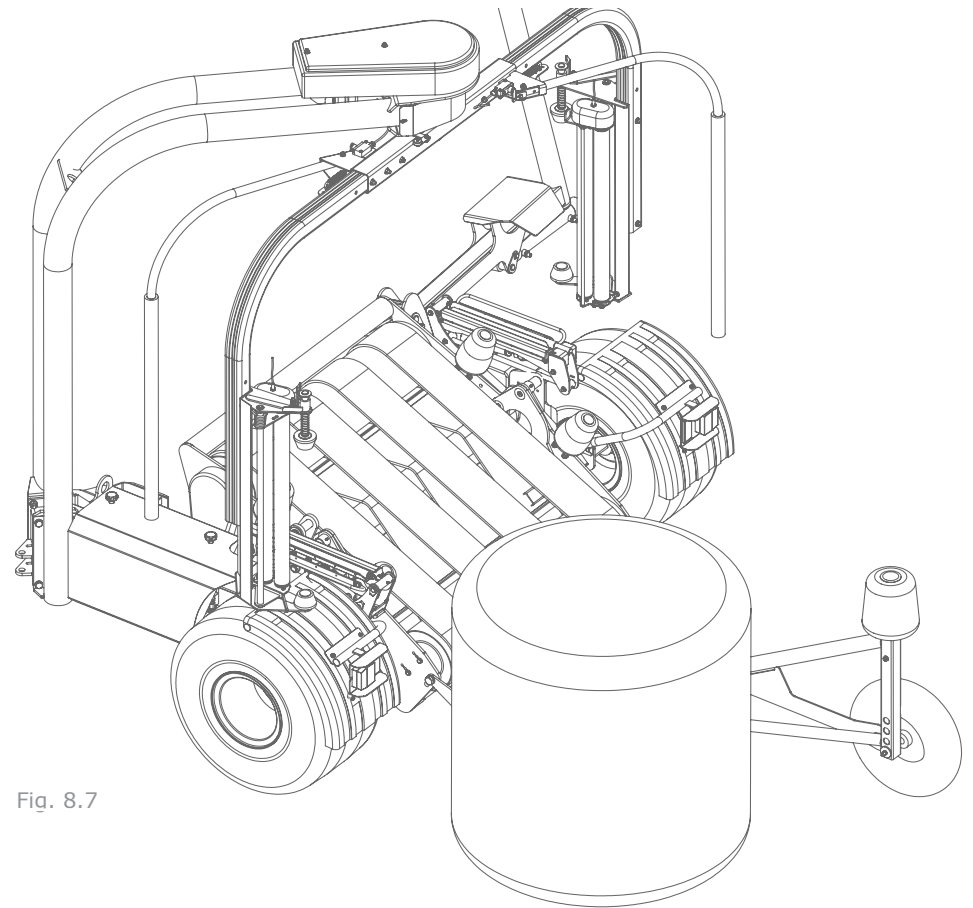
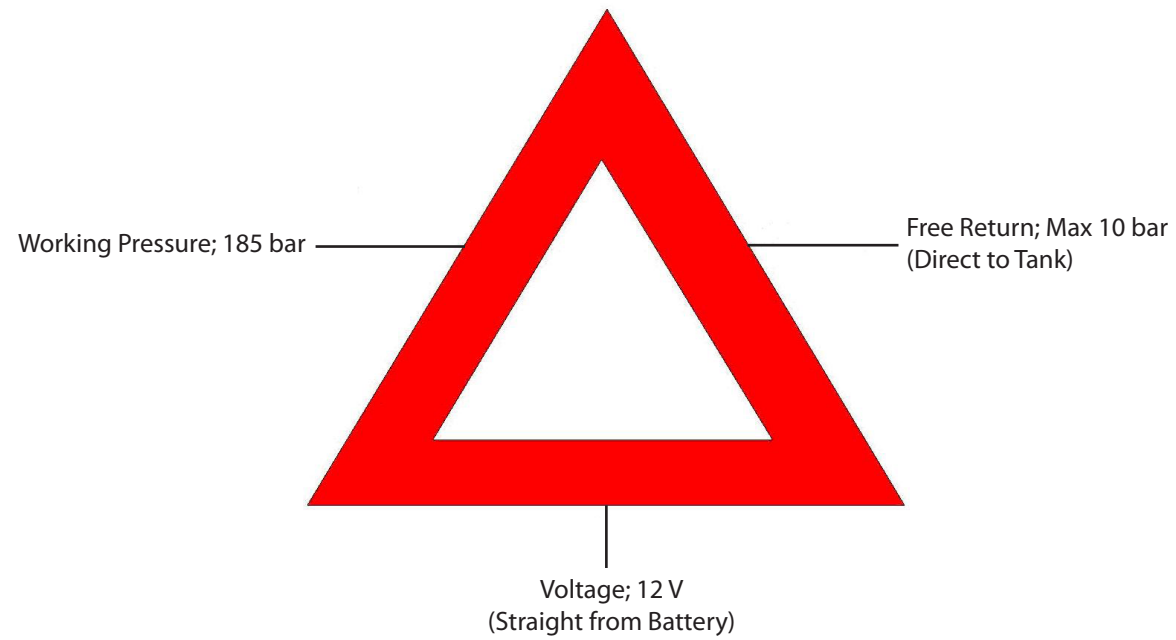
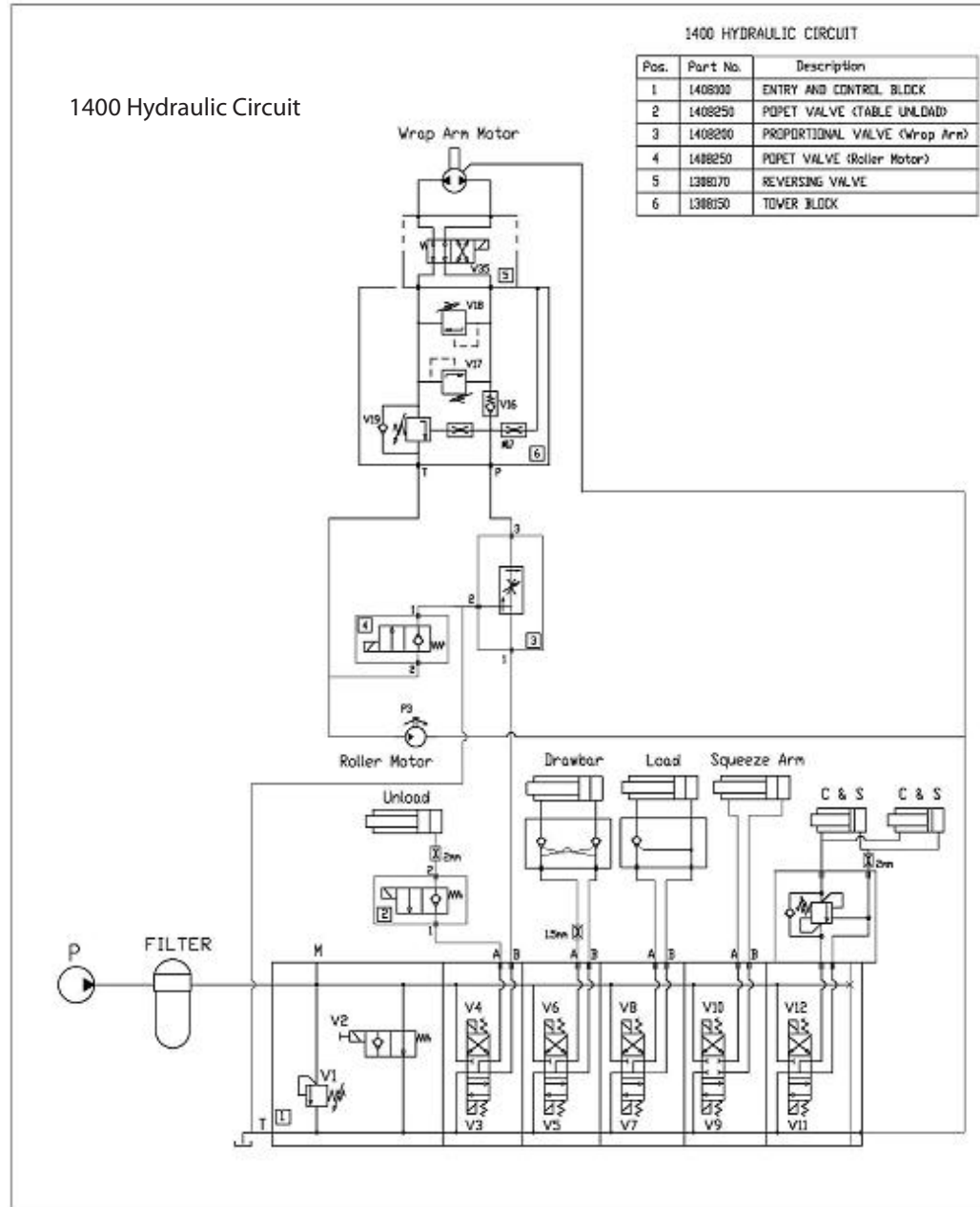


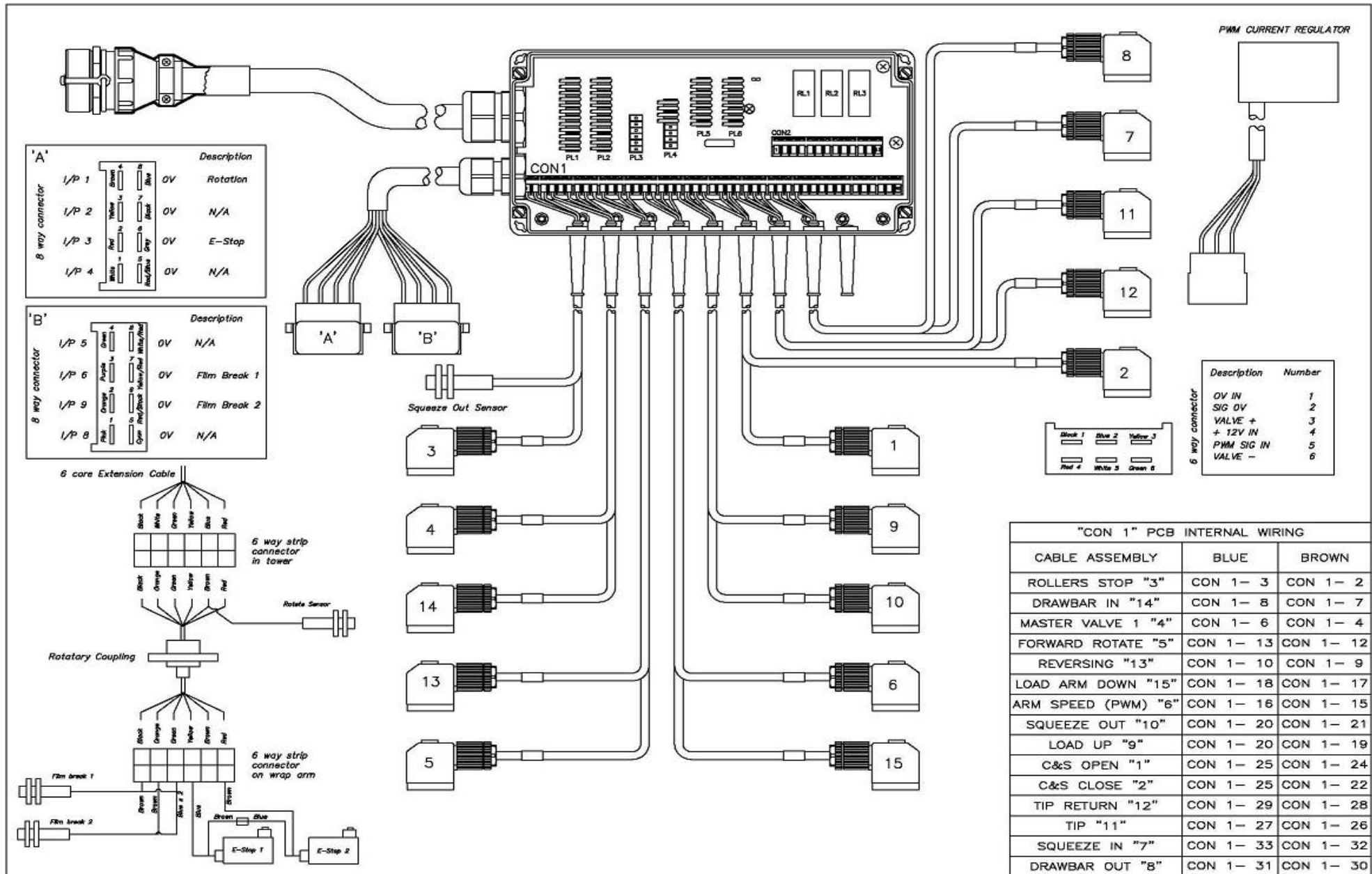
Fig. 8.7

### Electro-Hydraulics

Note: There are 3 basics, which must ALWAYS be followed if the machine is to function correctly







1400 Junction Box Wiring

| Solenoid | Generic Function | Cable Number | AMP Pin | 1400 Function     |
|----------|------------------|--------------|---------|-------------------|
| 1        | OP6              | 18           | 24      | C&S Open          |
| 2        | OP7              | 15           | 6       | C&S Close         |
| 3        | OP1              | 14           | 7       | Roller Speed      |
| 4        | OP2              | 3            | 14      | Master Valve      |
| 5        | OP4              | 31           | 16      | Forward Rotate    |
| 6        | OP3              | 6            | 18      | Arm Speed (Prop.) |
| 7        | OP13             | 30           | 10      | Squeeze In        |
| 8        | OP14             | 11           | 15      | Drawbar Out       |
| 9        | OP8              | 24           | 22      | Load Arm Up       |
| 10       | OP9              | 27           | 2       | Squeeze Out       |
| 11       | OP16             | 1            | 19      | Tip Off           |
| 12       | OP15             | 5            | 12      | Tip Return        |
| 13       | OP11             | 16           | 11      | Reversing         |
| 14       | OP10             | 26           | 3       | Drawbar In        |
| 15       | OP5              | 4            | 13      | Load Arm Down     |
| 16       | OP12             | 25           | 4       | 12 volts          |

1400 Junction Box Wiring (contd.)

| Solenoid | Generic Function | Cable Number | AMP Pin | 1400 Function  |
|----------|------------------|--------------|---------|----------------|
| N/A      | IP1              | 12           | 9       | Rotate Sensor  |
| N/A      | IP2              | 2            | 20      | Not Used       |
| N/A      | IP3              | 20           | 31      | Emergency Stop |
| N/A      | IP4              | 19           | 30      | Not Used       |
| N/A      | IP5              | 22           | 33      | Squeeze Out    |
| N/A      | IP6              | 13           | 8       | Film Break 1   |
| N/A      | IP8              | 29           | 5       | Not Used       |
| N/A      | IP9              | 28           | 1       | Film Break 2   |
| N/A      | AnIP5            | 8            | 26      | Not Used       |
| N/A      | AnIP6            | 7            | 25      | Not Used       |
| N/A      | 0v               | 35           | 35      |                |
| N/A      | 0v               | 34           | 34      |                |
| N/A      | 0v               | 33           | 23      |                |
| N/A      | 0v               | 9            | 27      |                |
| N/A      | An0v             | 21           | 32      |                |
|          | 5v Supply        | 23           | 28      |                |

### Description of Hydraulics

The Control Valve (See Fig. 9.1) uses a 'Master Valve system; so to operate any function the master valve plus the service valve for that function is powered. For troubleshooting purposes it is useful to note on the control valve that, energizing a solenoid on top of the valve gives pressure out the bottom port of that section on valve and vice versa.

### Open & Closed Center Hydraulics

The 1400 hydraulic system can be set up for tractors with Open or Closed Center Hydraulics.

### Open Centre Hydraulics

Most tractors have a hydraulic system that gives a continuous output which flows through the valve on the machine and back to tank when no function is operating (Open center).

### Note:

The TANCO AUTOWRAP 1400 is set-up for open centre on leaving the factory.

### Close Centre Hydraulics

Some tractors (John Deere) have a hydraulic system that require the valve on the machine to allow no flow when no function is operating (Closed Center). The hydraulic valve can easily be configured to operate in this way.

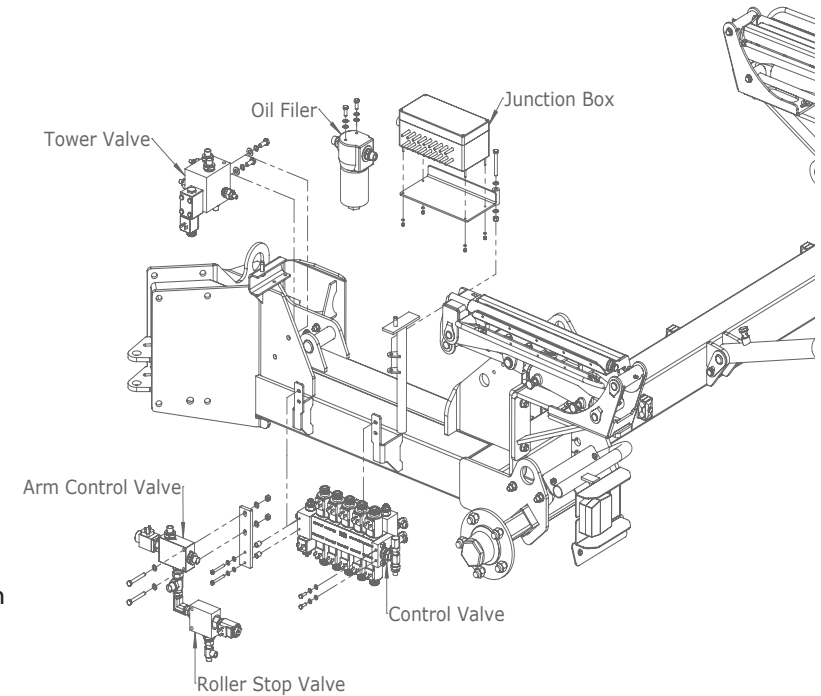


Fig. 9.1

Valve Functions

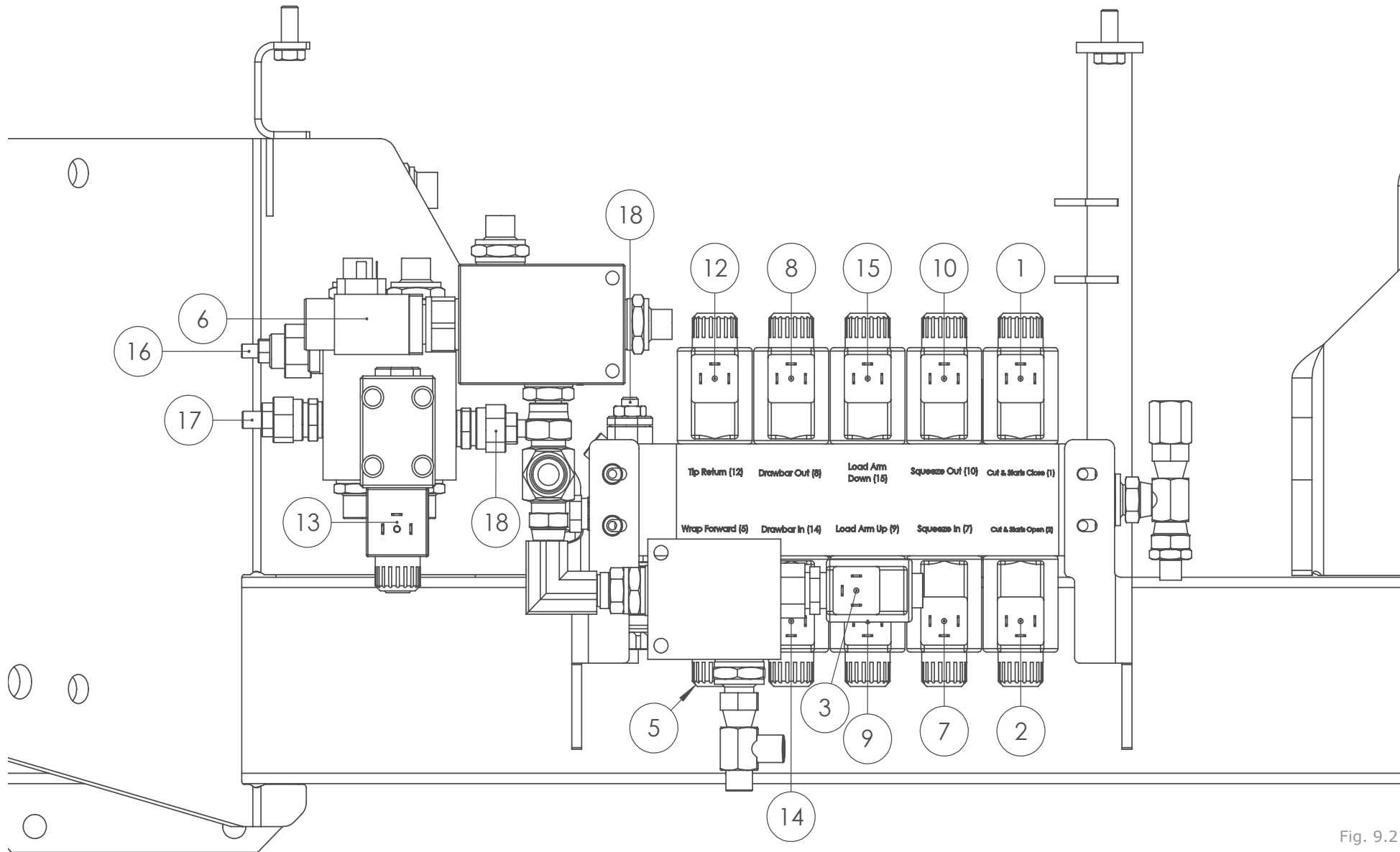


Fig. 9.2



Valves 1 to 15 (See Fig. 9.2) are 12 V Electrical Solenoid Valves, their functions are as follows;

Valve 1 (Cutter Open) & Valve 2 (Cutter Close)

These valves open and close the film cutter. To prevent the Cutter creeping open, there is a load holding valve on top of the cutter section of the control valve. There is a 2mm speed control orifice in the bottom port of the cutter section.

Valve 3 - Roller Stop

This valve is normally closed; it is pulsed open and closed to give half speed on the table rollers when the film break sensor detects that one film has broken.

Valve 4 - Master Valve

This valve is powered for every function.

Valve 5 - Arm Rotate

This valve powers the wrap arm and table rollers. Valve 6 is always operated with this valve.

Valve 6 - Wrap Arm Speed

This valve controls the speed of the wrap arm, it gets a varying PWM (Pulse Wave Modulation) signal from the controller to vary the speed. Its' settings are adjustable in the Technician Setup in the controller.

Valve 7 - Squeeze In

This valve powers squeeze arm in.

Valve 8 - Drawbar Out

This valve moves the drawbar out to the working position.

Valve 9 - Load Up

This valve raises the load arm.

Valve 10 - Squeeze Out

This valve opens the squeeze arm.

Valve 11- Tip Down

This poppet valve mounted on the tip port of the Control Valve lowers the rear roller frame for tipping off bale.



#### Valve 12 - Tip Return

This valve raises rear roller frame after tipping.

#### Valve 13 - Reversing Valve

This valve mounted on the Tower Valve to reverse the direction of the wrap arm. It is always operated with valves 5 and 6.

#### Valve 14 - Drawbar In

This moves the drawbar in to the transport position.

#### Valve 15- Load Arm Down

This valve lowers the load arm.

Valves 16,17,18 are on the Tower Block, their functions are as follows;

#### Valve 16 (VBS) Brake Valve.

This is a pilot operated (8:1 Ratio) Load Holding Valve, it regulates the oil flow on the outlet side of the wrap arm motor. It makes the arm run smoother and holds it in place when parked.

#### Valve 17 - (VMP) Cross Line Relief Valve Forward

This valve limits the max. torque of the wrapping arm. If the inlet pressure exceeds the set value, it relieves the oil across to the outlet side of the motor. It is adjusted so that the pull force on the far end of the arm is approximately 35 KG. If it is set too high acceleration at the beginning of wrapping will be very sharp.

#### Valve 18 - (VMT) Cross Line Relief Valve Reverse

This valve ensures a gradual stop for the wrap arm by limiting the pressure on the outlet side of the motor. If the pressure exceeds the set value, it relieves the oil across to the inlet side of the motor.

#### Valve 19 - Main Relief Valve

The hydraulic system is equipped with a safety relief valve, which is preset to 185 bar. If this pressure is exceeded it opens and allow the oil from the pressure port to the tank port of control valve



#### IMPORTANT:

Valves 16 to 19 have been carefully set in the factory. Incorrect adjustment of these may cause damage to the machine. Always ensure that trained personnel only adjust the settings of these valves.

#### Pressure Test Point

There is a pressure test point on the inlet end of the Control Block.

### Check Points Prior to Troubleshooting

There are some general check points that have to be examined first if something is wrong with the machine. There are three basic assumptions that have to be fulfilled for the machine to function properly;

1. The oil pressure from tractor should be 180 bar.
2. The return flow of oil has to be as free as possible, max. 10 bar counter pressure.
3. Enough electric power to all functions.

### Oil Pressure

To check the oil pressure into the machine is high enough, a gauge may be placed in line on the feed hose or there is a standard test point on the end of the Control Valve.

### Oil Flow

The amount of oil that the tractor delivers should be minimum 20 liters/minute for satisfactory operation of the machine, but it is recommended that it is 30 liters/minute.

Note: (Max. allowed oil amount is 60 liters/minute). Ensure that oil level in tractor's hydraulic system is correct and tractor's oil filter is changed regularly.

### Return Pressure

The return pressure can be too high. With high return pressure the machine's functions will get less power. High return pressure means also that you need more power to operate the valves.

Max. allowed pressure is 10 bar, we recommend "free return" directly to the tank.

### Electric Power

It is important to check that all functions receive enough electric power. If not, some, or all functions may fail. The controller displays a voltage reading.

### Battery Voltage

If the voltage falls below 10 V the valves will not be able to open.

### Electrical Connection

The electric supply for the machine's remote control and electro-hydraulic components must come directly from the tractors' 12 volt battery.

The electric wires from the battery must have an area measurement of min. 2,5 mm<sup>2</sup>. Connection to other contacts on the tractor can cause risk of malfunction and is not recommended.

### Note:

Brown leader goes to the Battery's Positive Pole

Blue leader goes to the Battery's Negative Pole

- Check that the connection between battery cable and control is ok.
- Check that the connection between controller unit and machine is ok.
- Check that fuse on the battery Cable is ok.

### Procedure of Troubleshooting

If the machine fails to operate correctly it must be determined if the problem is Hydraulic, Mechanical or Electrical.

### Solenoid Valves

When checking if the Solenoid valves are receiving electric power, you do this in the following way:

1. Unscrew the nut that holds the solenoid.
2. The solenoid is easy to move without electric power.
3. Push the current function on the remote control. If the solenoid gets power, it will be difficult to move, it "sticks". This is the best and easiest way to check if the solenoid valve is receiving electric power. Another way is to hold a screwdriver up to the magnet. If it "sticks", the solenoid is receiving electric power.

The power supply to the valve can also be measured with a voltmeter, but then the contact must be connected to the solenoid, so it is using power. To have reliable functions, the voltage should not be lower than 11,5 volts, even if the solenoid valve usually works with a little lower voltage.

If the electric supply is in order and one of the functions fails, the reason can be dirt that tightens or prevents the sliding shaft (spool) from moving.

Try to manoeuvre the function manually, by pressing the point of a screwdriver into the end of the valve housing. At the same time the corresponding switch on the control unit has to be operated to get electric power to the master valve. If the function is working again after this, the dirt may have been pushed out in the oil system and the machine can be operated normally again.

 Take care so that the machines moving parts, do not cause damage to persons or objects.

#### The Machine Does not Function

- Even if the gauge shows enough pressure and there is no reaction in the machine. The reason could be that one, (or both), of the quick-couplers does not open for the oil, in this situation you should change the quick-couplers.

- The counter pressure may be too high.  
Max. allowed counter pressure is 10 bar.

Make sure that the open / closed valve is correctly positioned.

Note: Disturbances of this type, a, b or c, are most likely in the first days that the machine is in use.

#### The Cutter will not Hold the Film

Is the cutter closing fully, if not increase the Cutter Close Duration 2.

If the cutter is creeping open, there may be dirt in the load holding, open and close the cutter a number of times to try to clear this. If the problem develops over time then it may be due to seal wear in the cutter arms.

#### The Wrapping Arm will not Rotate

- Check error messages on the controller, 'SQUEEZE OUT', squeeze arm must be in the fully out position for wrapping to start. 'SAFETY' if the safety arm has tripped.

- Check by hand if wrapping when parked that the wrap arm is held firmly in place; if it can be easily moved, check chain drive, drive keys and drive motor.

- Check if the arm is attempting to drive but is under pressure, unscrew adjustment on Valve 16 - Brake Valve on Tower Block. If this does not solve problem return valve to original position.

- Check if the hydraulics are under pressure and the arm is not moving then there may be a problem with the electrical supply to the control valve, this is best dealt with by an experienced technician.

#### The Hand Controller will not Operate the Lift Arm

In the Operator Setup, the Remote Type (Menu no.4.41) may be set to RF, if so, change to IR.

Please contact your dealer if you are in any doubt regarding the above.

## Periodic Maintenance

### Bearings

All ball-bearings are packed with grease, and do not need any more maintenance.

### Pre-Stretchers

If the machine is in daily use, the Gears under the plastic cover on the dispenser should be greased when needed.

### Cutters / Film Holders

The cutter / film holder is pre-adjusted from the factory and does not need further adjustments. When replacing spare parts, it is necessary to adjust it. The springs for the U-shaped slot shall be adjusted so that they are almost completely squeezed together when the cutter-arm is all down.

### Cleaning

The machine should be cleaned and oiled regularly and at the end of the wrapping season.



When using high pressure washing apparatus, care must be taken with the electrical installation.

Also make sure that water is not sprayed directly into the bearings, etc. Keep the control box protected from rain and water. If necessary use compressed air to dry electrical components.

### Hydraulic Cylinders

Make sure that all hydraulic cylinders are closed when storing the machine.

### Quick Couplers

Ensure that the quick couplers are kept clean and apply the dust caps after use.



### Storage

The machine should be parked on a dry place during the closed season.

### Oil Filter

The oil filter must be changed once a year.

### Lubrication (See Fig. 11.1)

The table below outlines the recommended lubrication requirements for components on the 1400;

| No. | Component           | Type   | Intervals |
|-----|---------------------|--------|-----------|
| 1   | Drawbar Ram         | Grease | 50hrs     |
| 2   | Table Up Ram        | Grease | 10hrs     |
| 3   | Table Tip Ram       | Grease | 10hrs     |
| 4   | Squeeze Arm         | Grease | 10hrs     |
| 5   | Cut & Tie Ram       | Grease | 10hrs     |
| 6   | Wrap Arm Drive*     | Oil    | 50hrs     |
| 7   | Table Roller Drive* | Oil    | 50hrs     |
| 8   | Dispenser Gears     | Oil    | 50hrs     |

\* Chain & Sprockets

Note: We recommend that you change the oil in the Tower & Table motors every 500hrs.

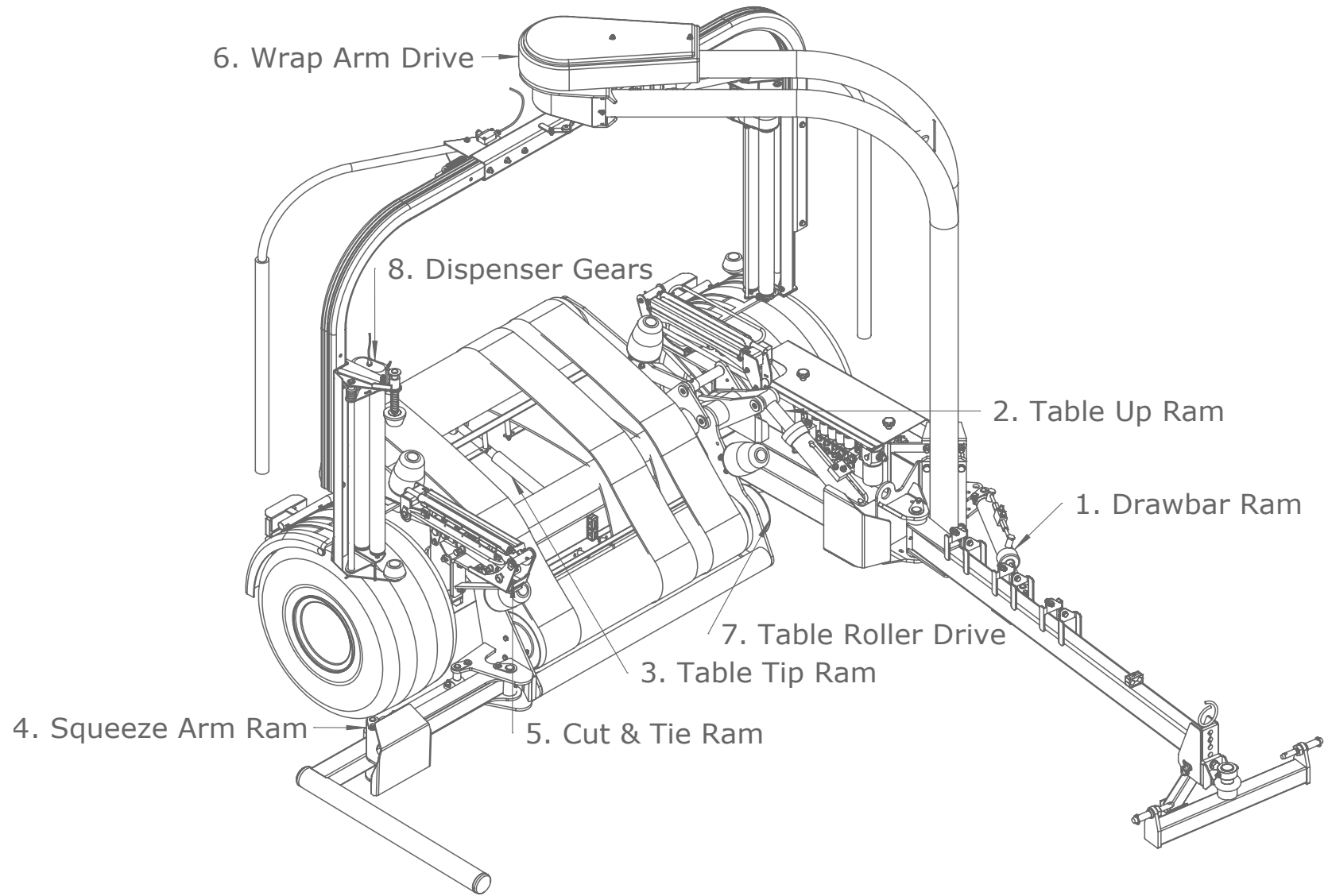


Fig. 11.1



## GUARANTEE

Subject to hereunder provided, the sellers undertake to correct either by repair or at their election by replacement any defect of material or workmanship which occurs in any of its goods within twelve months after delivery of such goods to first user, with the exception of contractors or commercial users when warranty period is six months.

In respect of Autowraps the warranty period is for 12 months or 8000 bales, whichever occurs first.

The term goods when used in this document means the article or articles described in invoices as sold by the sellers but does not include equipment or proprietary parts or accessories not manufactured by the sellers. The sellers, however, undertake to pass on so far as they legally can to the first user the benefit of any warranty given to the sellers by the suppliers of such equipment, parts or accessories.

This understanding shall not apply to:-

- (a) Any goods that have been sold by the first user.
- (b) Any goods which have been injured by unfair wear and tear, neglect or improper use.
- (c) Any goods the identification marks of which have been altered or removed.
- (d) Any goods that have not received the basic normal maintenance such as tightening of bolts, nuts, tines, hose connections and fittings and normal lubrication with the recommended lubricant.
- (e) The use of any product on tractors exceeding the recommended horsepower.
- (f) Any goods that have been altered or repaired other than on instruction or with the written approval of the seller or to which any part not manufactured or having written approval by the sellers have been fixed.
- (g) Any second-hand goods or parts thereof.

Any allegedly defective part or parts returned to the seller must be sent carriage paid. No claim for repair or replacement will be entertained unless upon discovery of the alleged defect written notification is sent to the Sellers giving, at the same time, the name of the Buyer from whom the goods were purchased and the date of purchase, together with the full details of the alleged defect and the circumstances involved, also the serial number of the machine etc.

The sellers shall be under no liability to their Buyers and first or subsequent users of their goods or to any other person or persons for loss or damage howsoever arising in respect of either personal injuries or for arising out of, or in any other way connected with or arising from the manufacture, sale, handling, repair, maintenance, replacement or use of its goods or the failure or malfunction of any of its goods.

Representation and/or warranties made by any persons (including Buyers and employees and other representatives of the Seller) which are inconsistent or conflicting with these conditions are not binding upon the sellers unless given in writing and signed by a director of sales.

## CLAIMS

If you wish to make a claim under the guarantee:

1: Immediately, stop using the machine.

2: Consult with your Tanco dealer (supplier). He/She can download a warranty claim form on-line. This should be filled out and e-mailed to distributor and forwarded to relevant contact person in Tanco. Please ensure all relevant information is included on this form

3: Consult with your Tanco dealer (supplier) and have them forward your claim and the damaged item to Tanco.



EC DECLARATION OF CONFORMITY

ACCORDING TO DIRECTIVES 2006/42/EC



Manufacturer:  
Tanco Autowrap Ltd  
Bagenalstown  
Co. Carlow  
IRELAND

CERTIFIES THAT THE FOLLOWING PRODUCT:  
TANCO AUTOWRAP  
MODEL: 1400 EH  
SERIAL NO:

To which this declaration relates, corresponds to the essential requirements of the Directive 2006/42/EC.

To conform to these essential health and safety requirements, the provisions of the following harmonized standards were particularly considered:

ISO 12100, EN 294, prEN 703, EN ISO 13857, EN ISO 4254 - 1, prEN 982.

DATE: 01/11/2011

Signed:

A handwritten signature in black ink, appearing to read 'Con d Le', is written over a horizontal line.

Con Hourihane, Technical Manager



### 1400 Spare Parts List (English)

We recommend that when you require spare parts you use only original parts.  
When ordering spare parts please follow the following steps;

1. Identify the part you require using the detailed drawings.
2. Once you have identified the part you require reference the item number relating to the part on the item list where you will find the part number and description of the part you require. You will be require to give the complete part no and decription when ordering your part(s).
3. When ordering you must give the Serial Number and Model Number of the machine.
4. All orders must go through your local Tanco Dealer, and must be either faxed or e-mailed to Tanco Autowrap.

### 1400 Ersatzteilliste

Wir empfehlen, nur Originalteile als Ersatzteile zu verwenden.  
Befolgen Sie bei der Bestellung von Ersatzteilen bitte die folgenden Schritte:

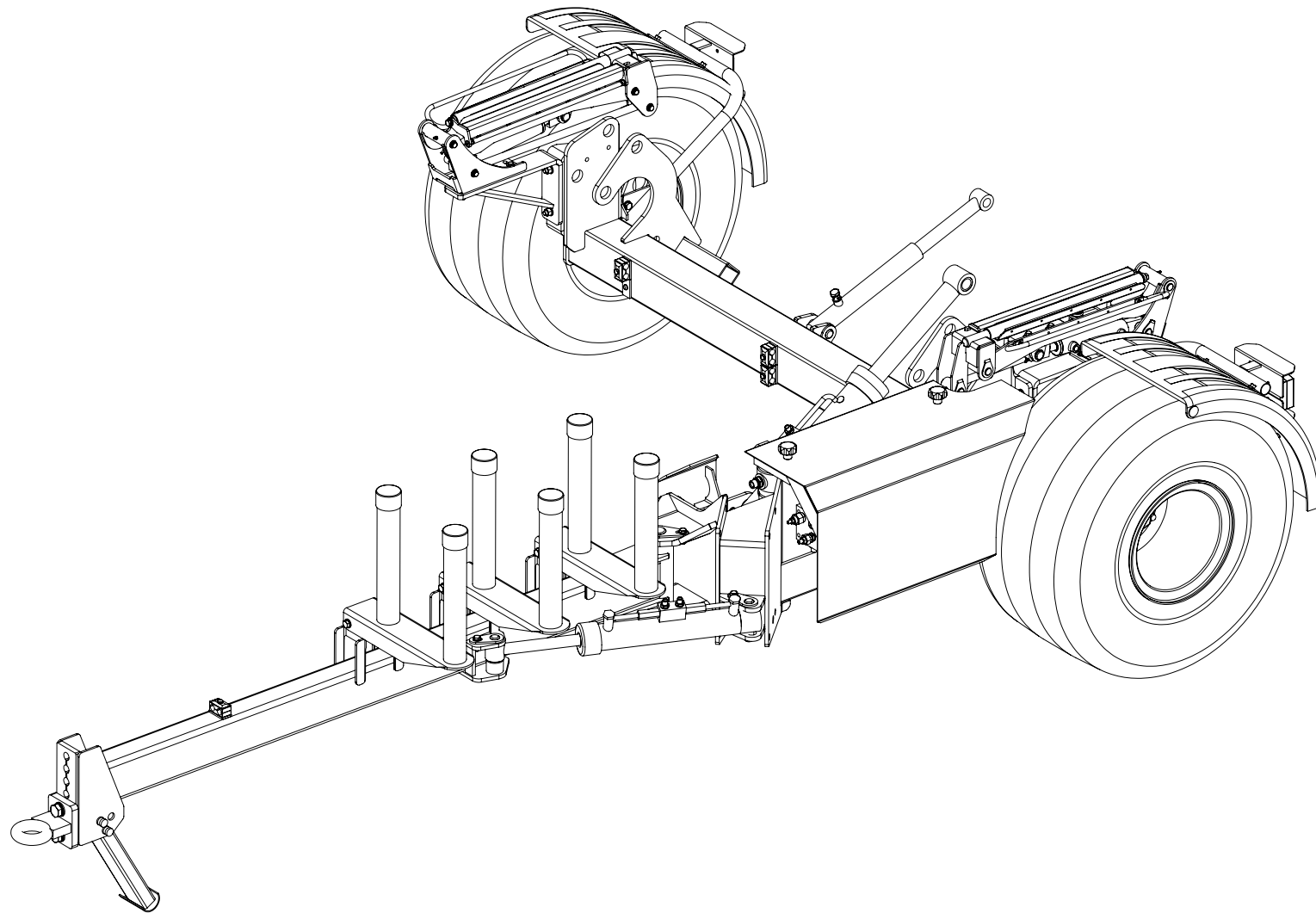
1. Stellen Sie anhand der detaillierten Zeichnungen fest, welches Teil Sie benötigen.
2. Haben Sie das benötigte Teil identifiziert, geben Sie die Teilnummer auf dem Bestellschein an, mit dem Sie das/die Ersatzteil/e bestellen.
3. Geben Sie bei jeder Bestellung die Serien- und die Modellnummer Ihrer Maschine an.
4. Alle Bestellungen müssen über Ihren Tanco-Händler vor Ort erfolgen und müssen Tanco Autowrap als Fax oder E-Mail erreichen.

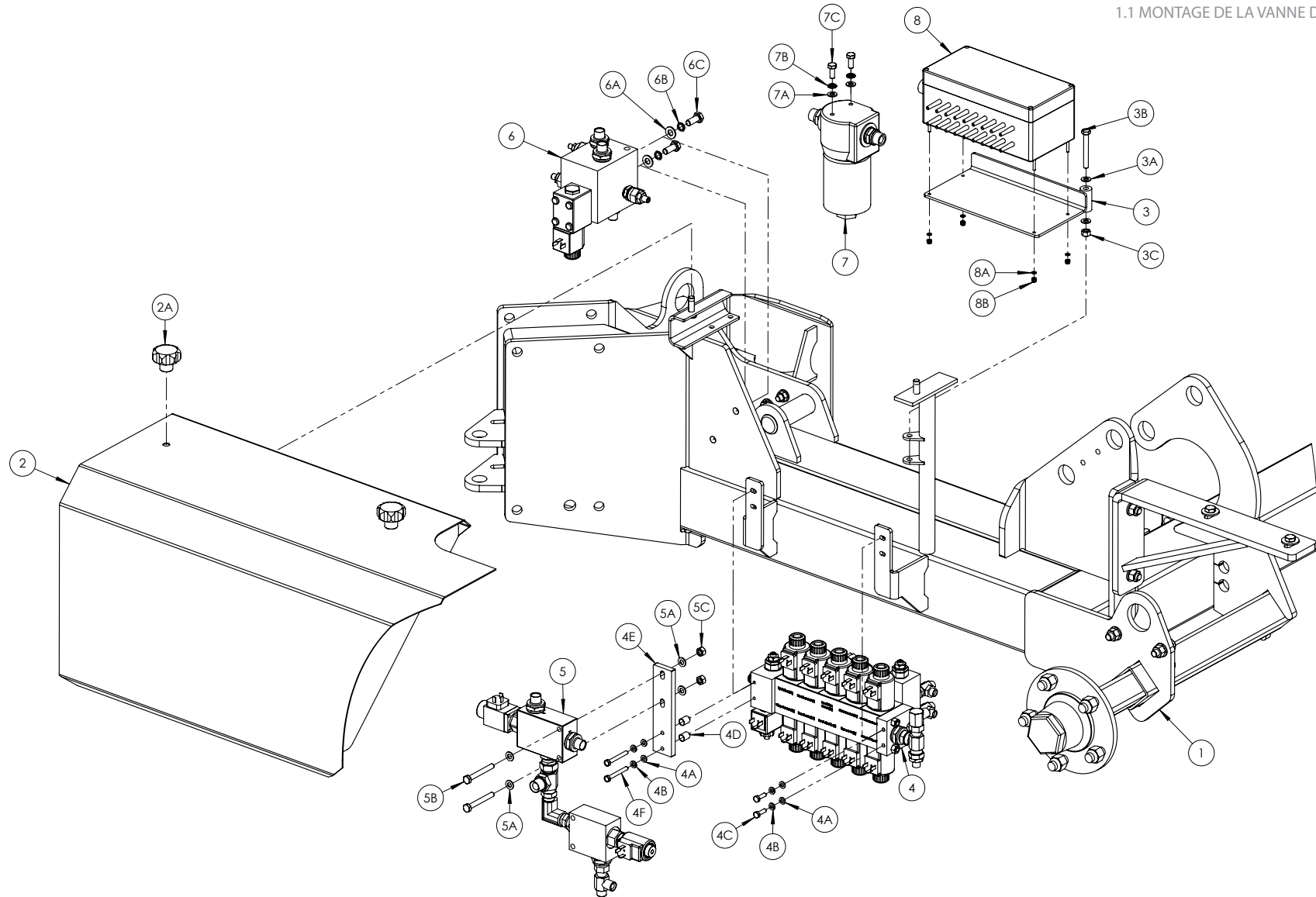
### Liste des pièces de rechange 1400

Si vous avez besoin de pièces de rechange, nous vous recommandons de n'utiliser que des pièces garanties d'origine.  
Pour toute commande de pièces de rechange, veuillez suivre les étapes suivantes :

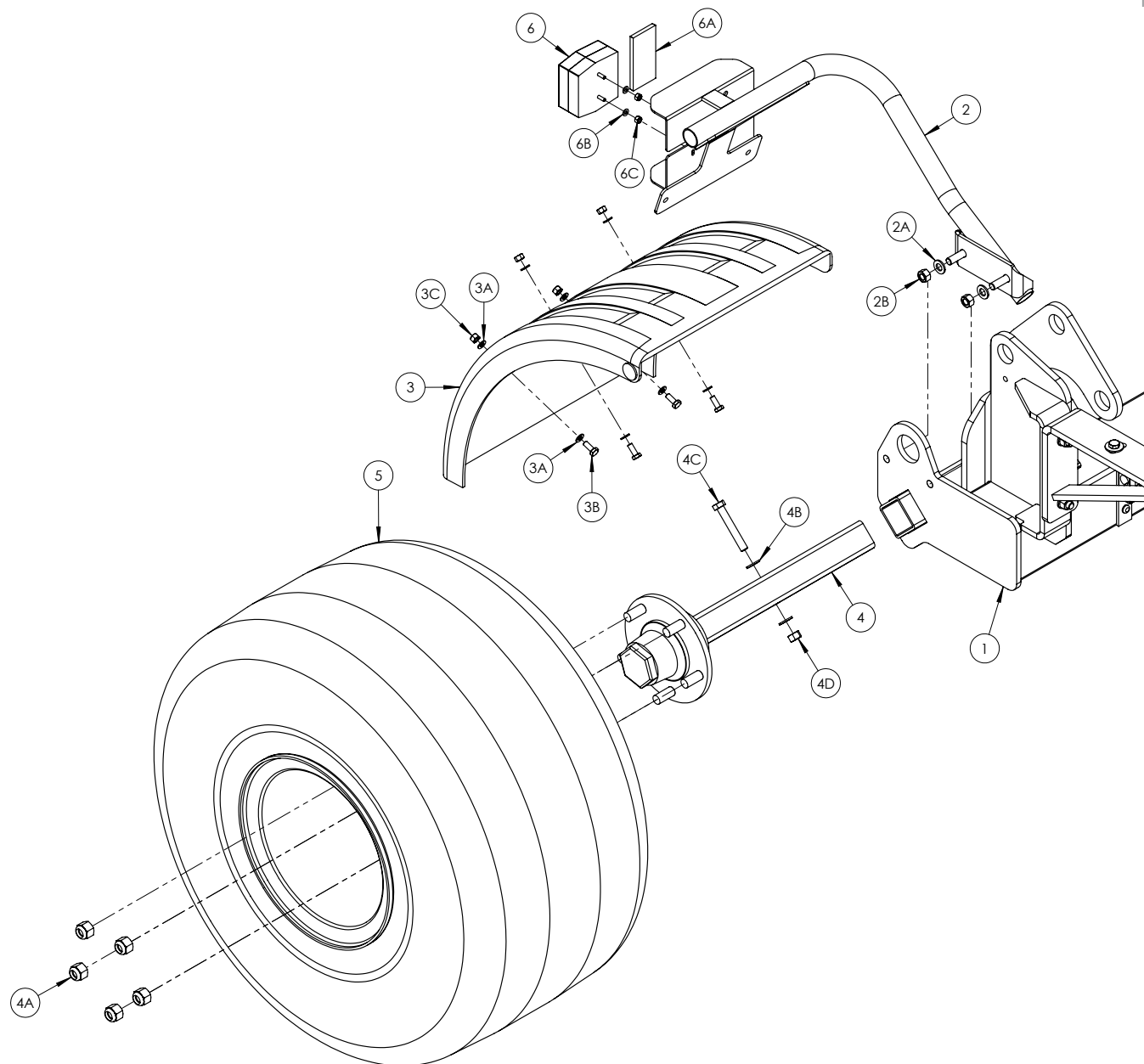
1. Identifiez la pièce dont vous avez besoin à l'aide des schémas détaillés.
2. Après avoir identifié la pièce dont vous avez besoin, relevez son numéro de référence dans la liste des pièces dans laquelle vous trouverez également la description de la pièce requise. Lors de la commande, vous devez indiquer la référence et la description complètes de la pièce.
3. Lors de la commande, vous devrez mentionner le numéro de série et le numéro de modçle de la machine.
4. Vous devez effectuer toutes les commandes auprès de votre revendeur Tanco local et les faxer ou les envoyer par e-mail à Tanco Autowrap.

| KAPITEL<br>CHAPTER<br>CHAPITRE | SEITE<br>PAGE<br>PAGE | BENENNUNG  | DESCRIPTION                     | DESIGNATION   |
|--------------------------------|-----------------------|--|---------------------------------|---|
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|                                |                       | 1.1 STEUVENTILBEFESTIGUNG                                | 1.1 CONTROL VALVE MOUNTING      | 1.1 MONTAGE DE LA VANNE DE RÉGULATION                 |
|                                |                       | 1.2 RÄDER UND KOTFLÜGEL                                  | 1.2 WHEELS & MUDGUARDS          | 1.2 ROUES & GARDE-BOUE                                |
|                                |                       | 1.3 BALLENFÜHRUNG  | 1.3 BALE GUIDE                  | 1.3 GUIDE BALLE                                       |
|                                |                       | 1.4 ZUGSTANGE  | 1.4 DRAWBAR                     | 1.4 BARRE D'ATTELAGE                                  |
|                                |                       | 1.5 SCHWENKACHSE   | 1.5 SWIVEL HITCH                | 1.5 ATTELAGE ARTICULÉ                                 |
|                                |                       | 1.6 BEFESTIGUNG DER SCHNEID- UND BINDEBAUGRUPPE / KOLBEN | 1.6 CUT & TIE / RAM MOUNTINGS   | 1.6 MONTAGES DE VÉRIN / SYSTÈME DE COUPE ET D'ATTACHE |
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|                                |                       | 2.3 BAUGRUPPE OBERER ARM                                 | 2.3 TOP ARM ASSEMBLY            | 2.3 ENSEMBLE DU BRAS SUPÉRIEUR                        |
| 3                              | 25                    | TISCH-BAUGRUPPE  | TABLE ASSEMBLY                  | ENSEMBLE TABLE  |
|                                |                       | 3.1 KETTENANTRIEB  | 3.1 CHAIN DRIVE                 | 3.1 TRANSMISSION PAR CHÂÎNE                           |
|                                |                       | 3.2 WALZEN-/LAGERABDECKUNGEN                             | 3.2 ROLLER / BEARING COVERS     | 3.2 COUVERCLE DE PALIER / ROULEMENT                   |
|                                |                       | 3.3 KEILRIEMENFÜHRUNGSGRUPPE                             | 3.3 BELT GUIDE ASSEMBLY         | 3.3 ENSEMBLE GUIDE-COURROIE                           |
|                                |                       | 3.4 BALLENWALZEN-BAUGRUPPE                               | 3.4 BALE ROLLER ASSEMBLY        | 3.4 ENSEMBLE DE ROULEAU DE BALLE                      |
|                                |                       | 3.5 STIFTE DES WICKELTISCHES (1)                         | 3.5 TABLE PINS (1)              | 3.5 GOUPILLES DE TABLE (1)                            |
|                                |                       | 3.6 STIFTE DES WICKELTISCHES (2)                         | 3.6 TABLE PINS (2)              | 3.6 GOUPILLES DE TABLE (2)                            |
|                                |                       | 3.7 LASTARM  | 3.7 LOADING ARM                 | 3.7 BRAS DE CHARGEMENT                                |
| 4                              | 41                    | TURM-BAUGRUPPE   | TOWER ASSEMBLY                  | ENSEMBLE TOUR   |
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|                                |                       | 4.2 WICKELARM  | 4.2 WRAPPING ARM                | 4.2 BRAS D'ENRUBANNAGE                                |
|                                |                       | 4.3 SICHERHEITSARM                                       | 4.3 SAFETY ARM                  | 4.3 BRAS DE SÉCURITÉ                                  |
|                                |                       | 4.4 TURMMOTORBAUGRUPPE                                   | 4.4 TOWER MOTOR ASSEMBLY        | 4.4 ENSEMBLE MOTEUR TOUR                              |
|                                |                       | 4.5 WICKELARMBEFESTIGUNG                                 | 4.5 WRAP ARM MOUNTING           | 4.5 MONTAGE DU BRAS D'ENRUBANNAGE                     |
|                                |                       | 4.6 WICKELARMANTRIEB                                     | 4.6 WRAP ARM DRIVE              | 4.6 ENTRAÎNEMENT DU BRAS D'ENRUBANNAGE                |
| 5                              | 55                    | VORSTRECKERBAUGRUPPE                                     | DISPENSER ASSEMBLY              | ENSEMBLE DISTRIBUTEUR                                 |
|                                | 56                    | 5.1 VORSTRECKEREINSATZ-BAUGRUPPE                         | 5.1 DISPENSER INSERT ASSEMBLY   | 5.1 ENSEMBLE INSERT DISTRIBUTEUR                      |
|                                | 58                    | 5.2 BAUGRUPPE VORSTRECKER, KOMPLETT                      | 5.2 DISPENSER COMPLETE ASSEMBLY | 5.2 ENSEMBLE DISTRIBUTEUR COMPLET                     |
|                                |                       |  | END TIP ASSEMBLY                |   |
|                                |                       |  | CONTROLLER MOUNTING ASSEMBLY    |   |



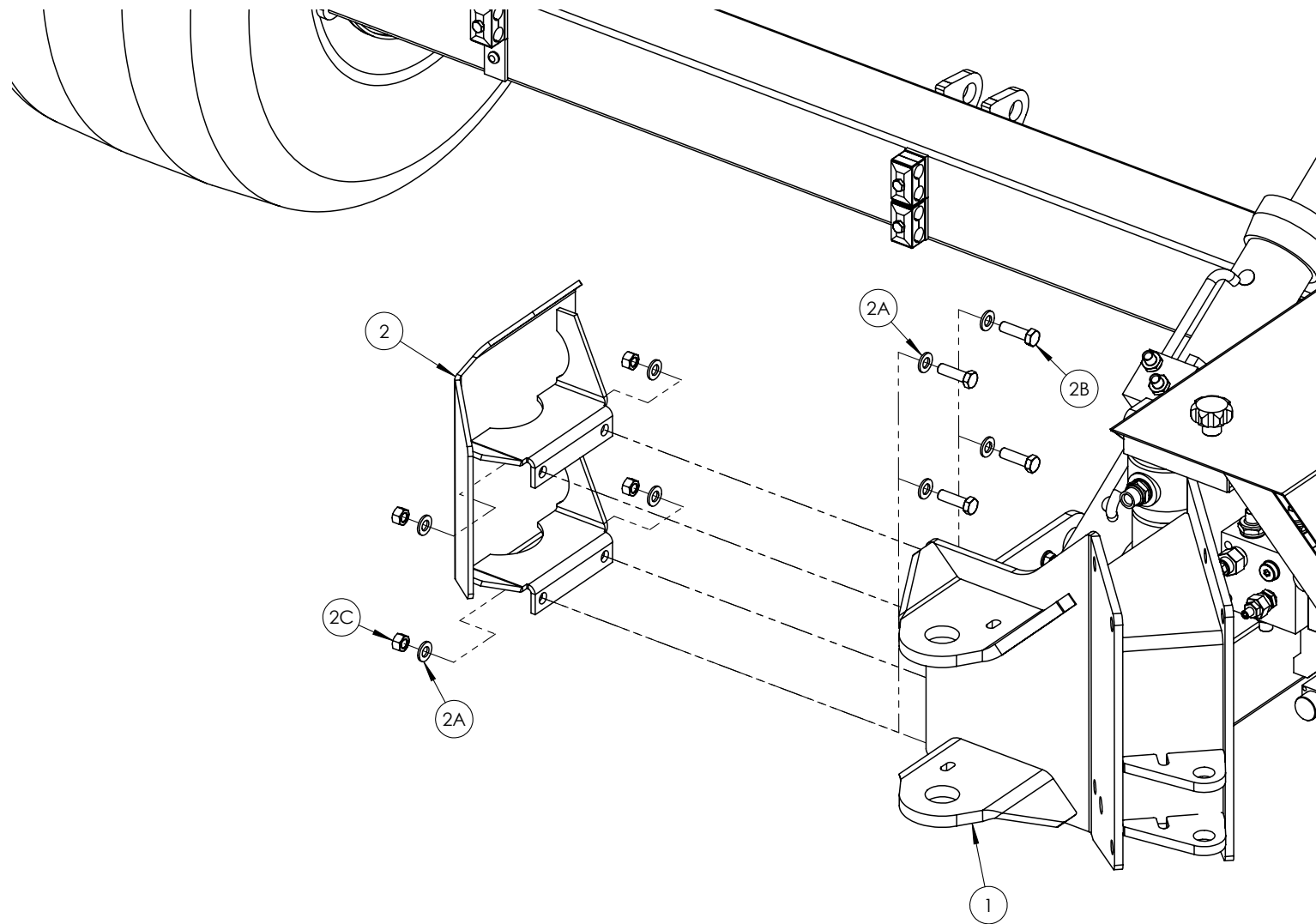


| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG                        | DESCRIPTION                    | DESIGNATION                                    | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|----------------------------------|--------------------------------|--|--|
| 1                                | 1401100                            | 1                              | Fahrgestell                      | Chassis                        | Châssis  |  |
| 2                                | 1401060                            | 1                              | Ventilabdeckung                  | Valve Cover                    | Couvercle de soupape                           |  |
| 2A                               | 34251456                           | 2                              | Handrad                          | Handwheel                      | Volant   | (50 x 10)  |
| 3                                | 1401050                            | 1                              | Verteilerkastenhaltebügel        | Junction Box Mounting Bracket  | Support de montage de la boîte de raccordement |  |
| 3A                               | Z10-02-08                          | 2                              | Unterlegscheibe                  | Flat Washer                    | Rondelle plate                                 | M8   |
| 3B                               | Z26-048B                           | 1                              | Sechskantschraube                | Hex Bolt                       | Boulon Hex                                     | M8 x 65mm  |
| 3C                               | Z23-08                             | 1                              | Feststellmutter                  | Locknut                        | Contre-écrou                                   | M8   |
| 4                                | 1408100                            | 1                              | Steuerventil                     | Control Valve                  | Vanne de régulation                            |  |
| 4A                               | Z10-02-06                          | 4                              | Unterlegscheibe                  | Flat Washer                    | Rondelle plate                                 | M6   |
| 4B                               | Z12-02-06                          | 4                              | Federscheibe                     | Spring Washer                  | Rondelle à ressort                             | M6   |
| 4C                               | Z26-020S                           | 2                              | Sechskant-Set                    | Hex Set                        | Vis de régl. Hex                               | M6 x 20mm  |
| 4D                               | 1403044                            | 2                              | Ventilabstandshalter             | Valve Spacer                   | Entretoise de soupape                          |  |
| 4E                               | 1401066                            | 1                              | Ventilmontagebügel               | Valve Mounting Bracket         | Support de fixation de la soupape              |  |
| 4F                               | Z26-026B                           | 2                              | Sechskantschraube                | Hex Bolt                       | Boulon Hex                                     | M6 x 50mm  |
| 5                                | 1408210                            | 1                              | Proportionalventil               | Proportional Valve             | Vanne proportionnelle                          |  |
| 5A                               | Z10-02-08                          | 4                              | Unterlegscheibe                  | Flat Washer                    | Rondelle plate                                 | M8   |
| 5B                               | Z26-048B                           | 2                              | Sechskantschraube                | Hex Bolt                       | Boulon Hex                                     | M8 x 65mm  |
| 5C                               | Z23-08                             | 2                              | Feststellmutter                  | Locknut                        | Contre-écrou                                   | M8   |
| 6                                | 1308180                            | 1                              | Turm-Block                       | Tower Block                    | Bloc Tour                                      |  |
| 6A                               | Z10-02-10                          | 2                              | Unterlegscheibe                  | Flat Washer                    | Rondelle plate                                 | M10  |
| 6B                               | Z12-02-10                          | 2                              | Federscheibe                     | Spring Washer                  | Rondelle à ressort                             | M10  |
| 6C                               | Z26-0611S                          | 2                              | Sechskant-Set                    | Hex Set                        | Vis de régl. Hex                               | M10 x 25mm   |
| 7                                | 1308070                            | 1                              | Ölfilter                         | Oil Pressure Filter            | Filtre hydraulique                             |  |
| 7A                               | Z10-02-08                          | 2                              | Unterlegscheibe                  | Flat Washer                    | Rondelle plate                                 | M8   |
| 7B                               | Z12-02-08                          | 2                              | Federscheibe                     | Spring Washer                  | Rondelle à ressort                             | M10 x 25mm   |
| 7C                               | Z26-039S                           | 2                              | Sechskant-Set                    | Hex Set                        | Vis de régl. Hex                               | M8 x 20mm  |
| 8                                | 1409100                            | 1                              | RDS-Steuer-Set (Verteilerkasten) | RDS Control Kit (Junction Box) | Kit de commande RDS (boîte de raccordement)    |  |
| 8A                               | Z10-02-04                          | 2                              | Unterlegscheibe                  | Flat Washer                    | Rondelle plate                                 | M4   |
| 8B                               | Z23-04                             | 2                              | Feststellmutter                  | Locknut                        | Contre-écrou                                   | M4   |

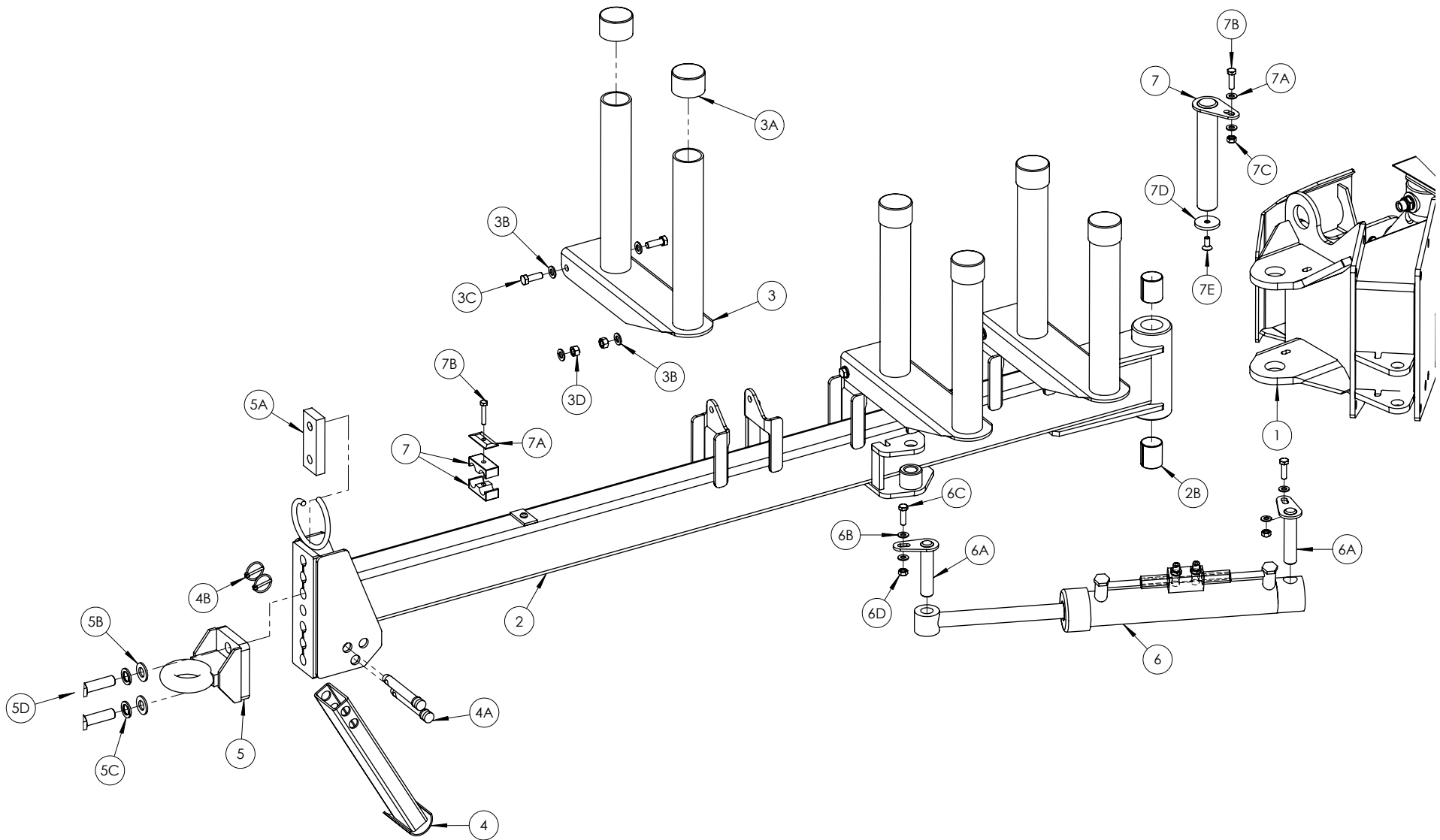


| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STÜCK<br>QUANTITY<br>QUANTITEE | BENENNUNG                   | DESCRIPTION                        | DESIGNATION                             | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|-----------------------------|------------------------------------|---|--|
| 1                                | 1401100                            | 1                              | Fahrgestell                 | Chassis                            | Châssis                                 |  |
| 2                                | 1402100                            | 1                              | Kotflügelabhängung (rechts) | Mud Guard Mounting Bracket (Right) | Support de montage du pare-boue (droit) |  |
| 2A                               | Z10-02-12                          | 4                              | Unterlegscheibe             | Flat Washer                        | Rondelle plate                          | M12  |
| 2B                               | Z26-084S                           | 2                              | Sechskant-Set               | Hex Set                            | Vis de régl. Hex                        | M12 x 40mm   |
| 2C                               | Z23-12                             | 2                              | 12 mm Sicherungsmutter      | 12mm Locknut                       | Contre-écrou 12mm                       |  |
| 3                                | 1401250                            | 1                              | Kotflügel aus Kunststoff    | Plastic Mudguard                   | Pare-boue plastique                     |  |
| 3A                               | Z10-02-08                          | 8                              | Unterlegscheibe             | Flat Washer                        | Rondelle plate                          | M8   |
| 3B                               | Z23-08                             | 4                              | Feststellmutter             | Locknut                            | Contre-écrou                            | M8   |
| 4                                | Z04-032                            | 1                              | Achsschenkel                | Stub Axle                          | Demi-essieu                             |  |
| 4A                               | M22AWNA                            | 5                              | Radmutter                   | Wheel Nut                          | Écrou de roue                           | M16  |
| 4B                               | Z10-02-12                          | 2                              | Unterlegscheibe             | Flat Washer                        | Rondelle plate                          | M12  |
| 4C                               | Z26-0901B                          | 1                              | Sechskantschraube           | Hex Bolt                           | Boulon Hex                              | M12 x 80mm   |
| 4D                               | Z23-12                             | 1                              | Feststellmutter             | Locknut                            | Contre-écrou                            | M12  |
| 5                                | Z04-04-1070                        | 1                              | Straßenrad                  | Road Wheel                         | Roue de transport                       |  |
| 6                                | Z05-32                             | 1                              | Beleuchtungs-Set            | Lighting Set                       | Éclairage                               |  |
| 6A                               | Z04-621                            | 1                              | Reflektor                   | Reflector                          | Réfecteur                               |  |
| 6B                               | Z10-02-05                          | 2                              | Unterlegscheibe             | Flat Washer                        | Rondelle plate                          | M5   |
| 6C                               | Z23-05                             | 2                              | Feststellmutter             | Locknut                            | Contre-écrou                            | M5   |

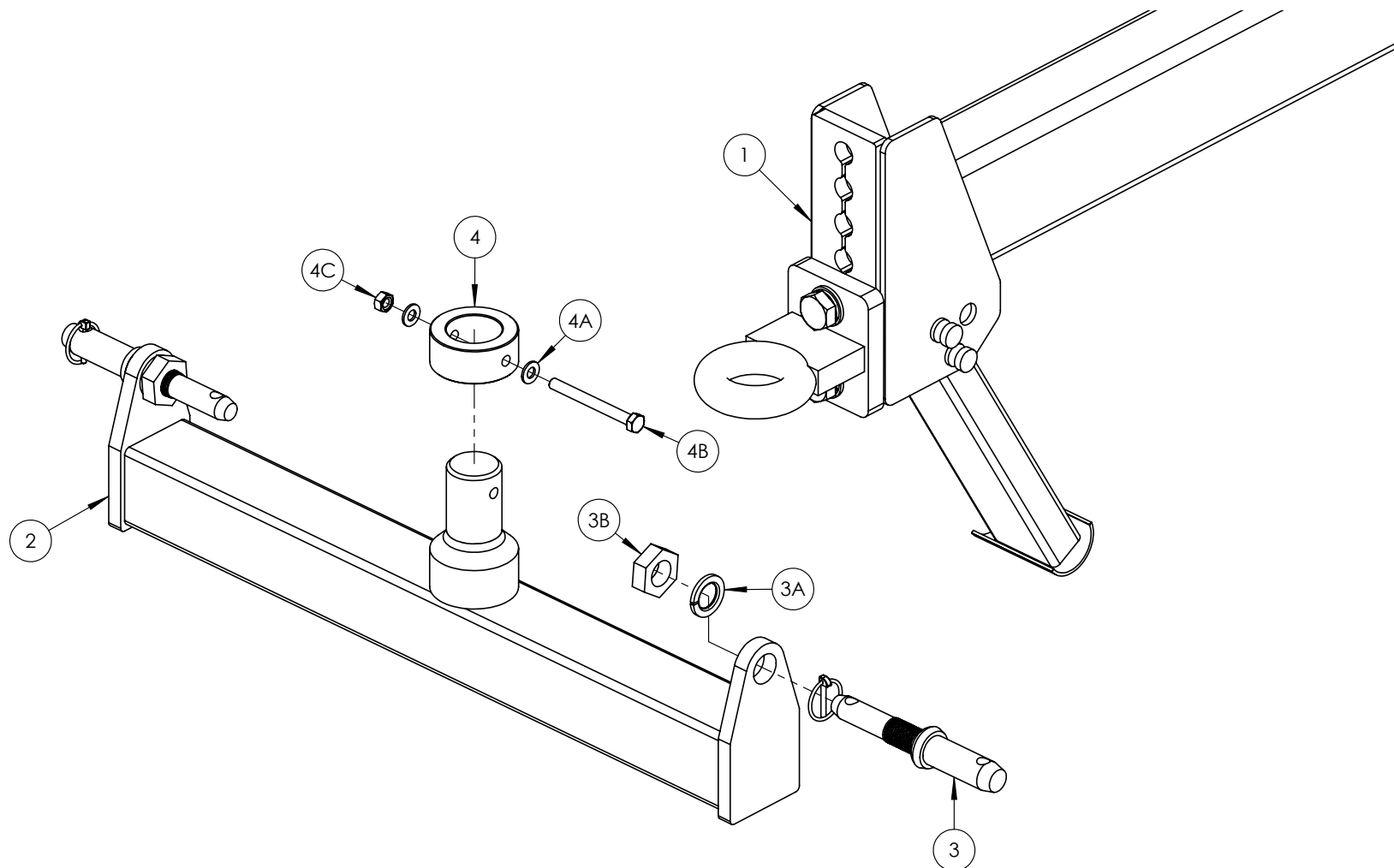




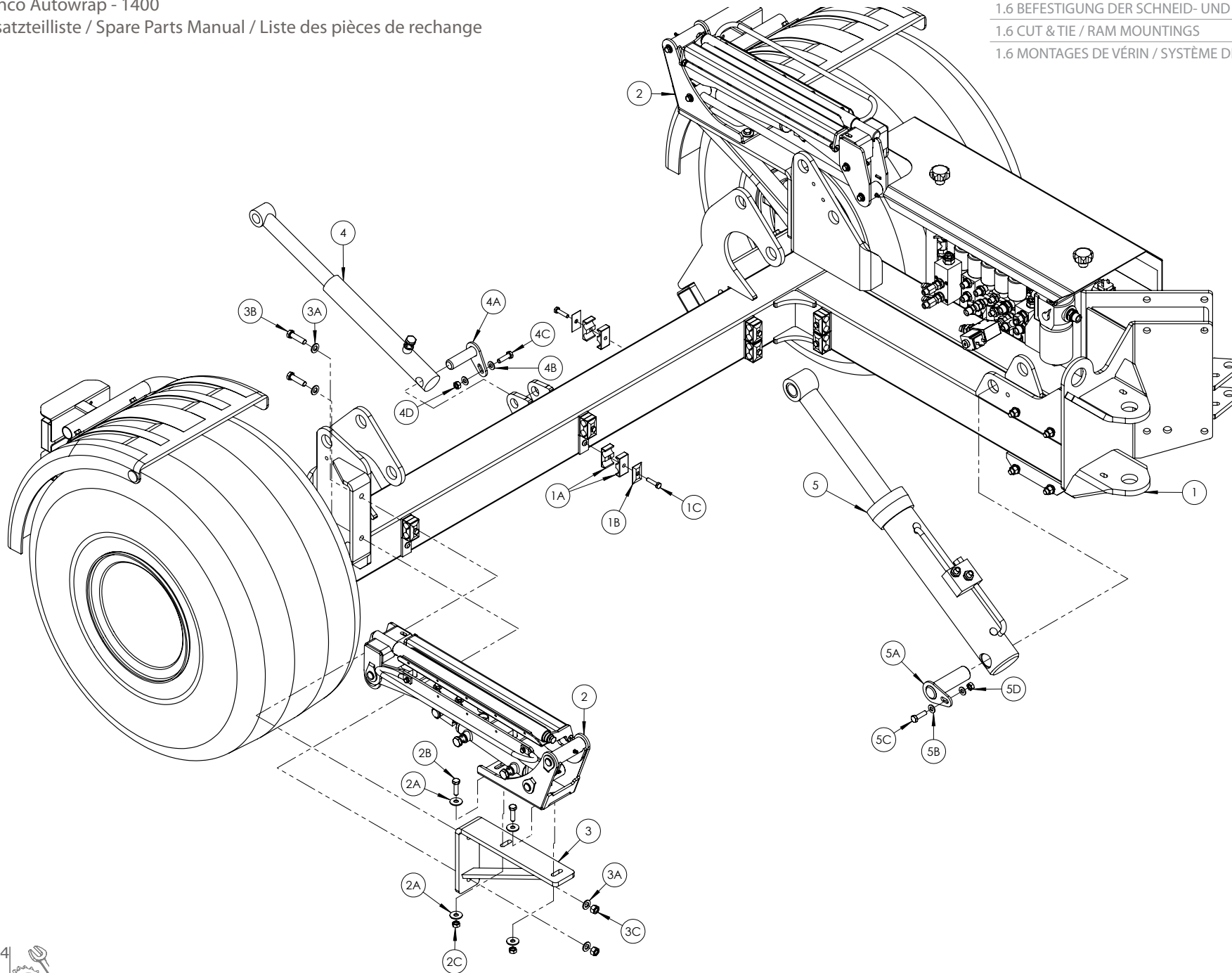
| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG       | DESCRIPTION | DESIGNATION      | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|-----------------|-------------|------------------|--|
| 1                                | 1401100                            | 1                              | Fahrgestell     | Chassis     | Châssis          |  |
| 2                                | 1401070                            | 1                              | Ballenführung   | Bale Guide  | Guide balle      |  |
| 2A                               | Z10-02-10                          | 8                              | Unterlegscheibe | Flat Washer | Rondelle plate   | M12  |
| 2B                               | Z26-084S                           | 4                              | Sechskant-Set   | Hex Set     | Vis de régl. Hex | M12 x 40mm   |
| 2C                               | Z23-12                             | 4                              | Sechskant-Set   | Hex Set     | Vis de régl. Hex | M12  |



| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG                | DESCRIPTION          | DESIGNATION                            | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|--------------------------|----------------------|--|--|
| 1                                | 1401100                            | 1                              | Fahrgestell              | Chassis              | Châssis                                |  |
| 2                                | 1401500                            | 1                              | Zugstange                | Drawbar              | Barre d'attelage                       |  |
| 2A                               | 34060800                           | 1                              | Schmiernippel            | Grease Nipple        | Raccord graisseur                      | M8 x 1.25  |
| 2B                               | 1404056                            | 2                              | DX Buchse                | DX Bush              | Douille DX                             | 40mm ID x 50mm   |
| 3                                | 1408015                            | 3                              | Folientragwalze          | Film Roll Holder     | Support de bobine de film              |  |
| 3A                               | Z32-085                            | 6                              | Kappe                    | Cap                  | Capuchon                               |  |
| 3B                               | Z10-02-12                          | 12                             | Unterlegscheibe          | Flat Washer          | Rondelle plate                         | M12  |
| 3C                               | Z26-038B                           | 6                              | Sechskantschraube        | Hex Bolt             | Boulon Hex                             | M12 x 35mm   |
| 3D                               | Z23-12                             | 6                              | Feststellmutter          | Locknut              | Contre-écrou                           | M12  |
| 4                                | 1401075                            | 1                              | Standfuß der Zugstange   | Drawbar Leg          | Béquille de barre d'attelage           |  |
| 4A                               | Z03-04-74                          | 2                              | Scharnierstift           | Link Pin             | Goupille de liaison                    |  |
| 4B                               | Z03-22-03                          | 2                              | Klappsplint              | Linch Pin            | Clavette d'essieu                      | 1/4"   |
| 5                                | 1401600                            | 1                              | Zugöse                   | Hitch Eye            | Anneau d'attelage                      |  |
| 5A                               | 1403005                            | 1                              | Bolzenplatte             | Bolt Plate           | Plaque boulonnée                       |  |
| 5B                               | Z10-02-20                          | 2                              | Unterlegscheibe          | Flat Washer          | Rondelle plate                         | M20  |
| 5C                               | Z12-02-20                          | 2                              | Federscheibe             | Spring Washer        | Rondelle à ressort                     | M20  |
| 5D                               | Z26-165B                           | 2                              | Sechskantschraube        | Hex Bolt             | Boulon Hex                             | M20 x 70mm   |
| 6                                | 1408166                            | 1                              | Zugstangenkolben         | Drawbar Ram          | Vérin de barre d'attelage              |  |
| 6A                               | 1401716                            | 2                              | Zylindermontagestift     | Ram Mounting Pin     | Goupille de fixation du système        |  |
| 6B                               | Z10-02-10                          | 4                              | Unterlegscheibe          | Flat Washer          | Rondelle plate                         | M10  |
| 6C                               | Z26-063S                           | 2                              | Sechskant-Set            | Hex Set              | Vis de régl. Hex                       | M10 x 35mm   |
| 6D                               | Z23-10                             | 2                              | Feststellmutter          | Locknut              | Contre-écrou                           | M10  |
| 7                                | 34260117M                          | 1                              | Rohrschelle              | Pipe Clamp           | Collier de serrage                     | M22  |
| 7A                               | 34260117                           | 1                              | Obere Rohrschellenplatte | Pipe Clamp Top Plate | Collier de serrage, Plaque supérieure  |  |
| 7B                               | Z26-042B                           | 1                              | Sechskantschraube        | Hex Bolt             | Boulon Hex                             | M8 x 45mm  |
| 8                                | 1401713                            | 1                              | Zugstangendrehstift      | Drawbar Pivot Pin    | Axe d'articulation de barre d'attelage |  |
| 8A                               | Z26-063S                           | 1                              | Sechskant-Set            | Hex Set              | Vis de régl. Hex                       | M10 x 35mm   |
| 8B                               | Z10-02-10                          | 2                              | Unterlegscheibe          | Flat Washer          | Rondelle plate                         | M10  |
| 8C                               | Z23-10                             | 1                              | Feststellmutter          | Locknut              | Contre-écrou                           | M10  |
| 8D                               | 1403033                            | 1                              | Senkstiftkappe           | Countersunk Pin Cap  | Bouton de blocage noyé                 |  |
| 8E                               | Z13-5-10X25                        | 1                              | CSK-Innensechskant-Set   | CSK Allen Set        | Vis six pans creux CSK                 | M10 x 25mm   |



| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG                | DESCRIPTION          | DESIGNATION             | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|--------------------------|----------------------|-------------------------|--|
| 1                                | 1401500                            | 1                              | Zugstange                | Drawbar              | Barre d'attelage        |  |
| 2                                | 1401100                            | 1                              | Schwenkachse             | Swivel Hitch         | Attelage articulé       |  |
| 2A                               | Z03-22-06                          | 2                              | Klappsplint              | Linch Pin            | Clavette d'essieu       | 7/16"  |
| 3                                | 34105716                           | 2                              | Dreipunkt-Gestängestift  | 3pt Pont Linkage Pin | Axe attelage 3 points   |  |
| 3A                               | Z12-02-25                          | 2                              | Unterlegscheibe          | Flat Washer          | Rondelle plate          | M25  |
| 3B                               | 1401109                            | 2                              | Dreipunkt-Gestängemutter | 3pt Pont Linkage Nut | Écrou attelage 3 points |  |
| 4                                | 1401074                            | 1                              | Drehkranz                | Swivel Collar        | Collier pivotant        |  |
| 4A                               | Z10-02-10                          | 2                              | Unterlegscheibe          | Flat Washer          | Rondelle plate          | M10  |



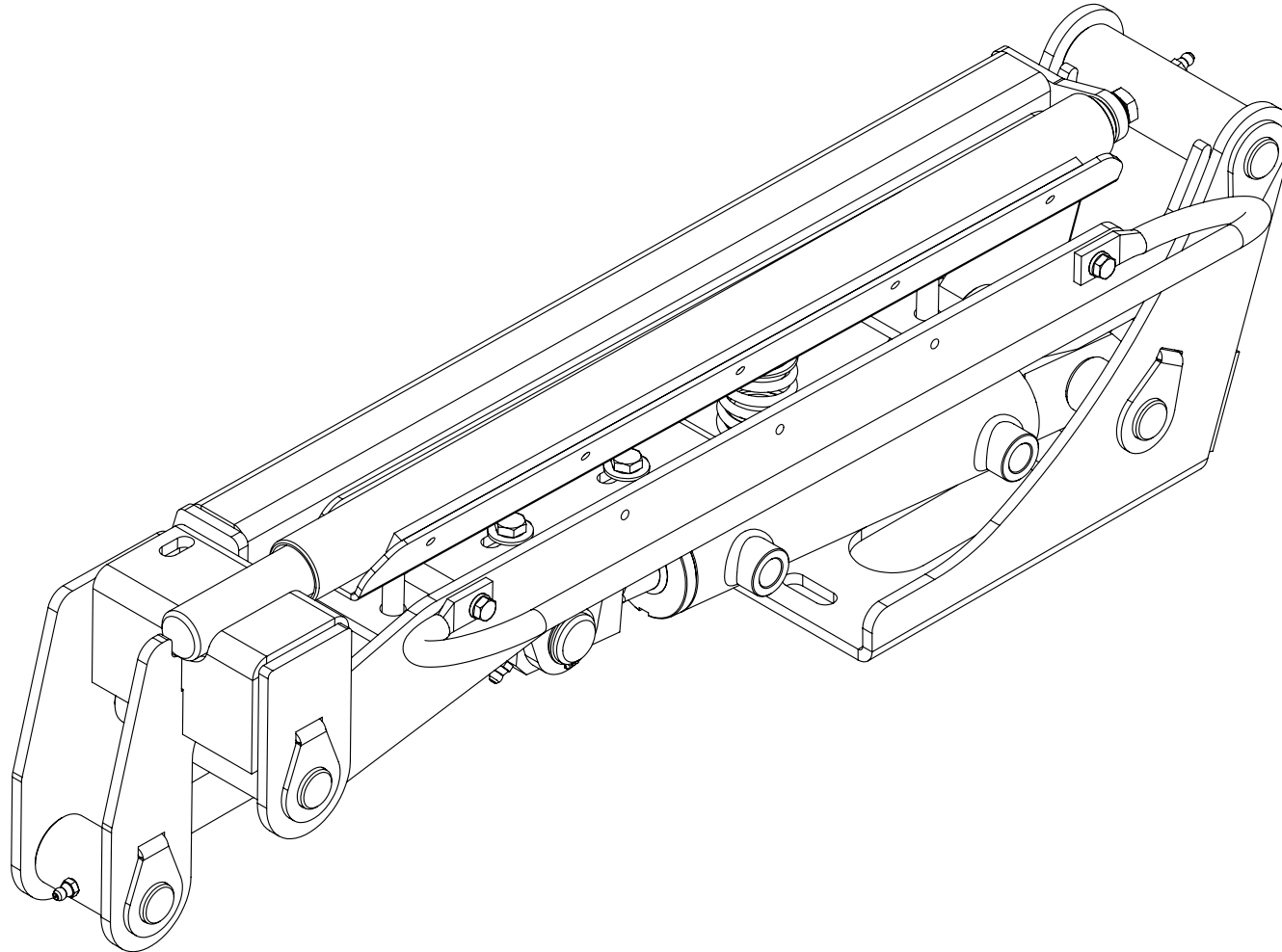
| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG                       | DESCRIPTION                | DESIGNATION                           | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|---------------------------------|----------------------------|---------------------------------------|--|
| 1                                | 1401100                            | 1                              | Fahrgestell                     | Chassis                    | Châssis                               |  |
| 1A                               | Z01-24-2618                        | 7                              | Rohrschelle (Paar)              | Pipe Clamp (Pair)          | Collier de serrage (Paire)            | M18  |
| 1B                               | Z01-24-27                          | 7                              | Obere Rohrschellenplatte        | Pipe Clamp Top Plate       | Collier de serrage, Plaque supérieure |  |
| 1C                               | Z26-042B                           | 7                              | Sechskantschraube               | Hex Bolt                   | Boulon Hex                            | M8 x 35mm  |
| 2                                | 1406100                            | 2                              | Schneiden und Binden            | Cut & Tie                  | Coupe et attache                      |  |
| 2A                               | Z11-02-101                         | 8                              | Schmutzwascher                  | Mudwasher                  | Pare-boue                             | M8   |
| 2B                               | Z26-063S                           | 4                              | Sechskant-Set                   | Hex Set                    | Vis de régl. Hex                      | M10x 35mm  |
| 2C                               | Z23-10                             | 4                              | 10 mm Sicherungsmutter          | 10mm Locknut               | Contre-écrou 10mm                     |  |
| 3                                | 1401086                            | 2                              | Schneiden-und-Binden-Haltebügel | Cut & Tie Mounting Bracket | Support de fixation, Coupe et attache |  |
| 3A                               | Z10-02-12                          | 8                              | Unterlegscheibe                 | Flat Washer                | Rondelle plate                        | M12  |
| 3B                               | Z26-085S                           | 4                              | Sechskant-Set                   | Hex Set                    | Vis de régl. Hex                      | M12 x 45mm   |
| 3C                               | Z23-12                             | 4                              | Feststellmutter                 | Locknut                    | Contre-écrou                          | M12  |
| 4                                | 1408169                            | 1                              | Zylinder entladen               | Unloading Cylinder         | Vérin de déchargement                 |  |
| 4A                               | 1401720                            | 1                              | Zylinderstift                   | Cylinder Pin               | Goupille du vérin                     |  |
| 4B                               | Z10-02-10                          | 1                              | Unterlegscheibe                 | Flat Washer                | Rondelle plate                        | M10  |
| 4C                               | Z26-063S                           | 1                              | Sechskant-Set                   | Hex Set                    | Vis de régl. Hex                      | M10 x 35mm   |
| 4D                               | Z23-08                             | 1                              | Feststellmutter                 | Locknut                    | Contre-écrou                          | M10  |
| 5                                | 1408167                            | 1                              | Ladezylinder                    | Loading Cylinder           | Vérin de chargement                   |  |
| 5A                               | 1401710                            | 1                              | Zylinderstift                   | Cylinder Pin               | Goupille du vérin                     |  |
| 5B                               | Z10-02-10                          | 1                              | Unterlegscheibe                 | Flat Washer                | Rondelle plate                        | M10  |
| 5C                               | Z26-063S                           | 1                              | Sechskant-Set                   | Hex Set                    | Vis de régl. Hex                      | M10 x 35mm   |
| 5D                               | Z23-08                             | 1                              | Feststellmutter                 | Locknut                    | Contre-écrou                          | M10  |

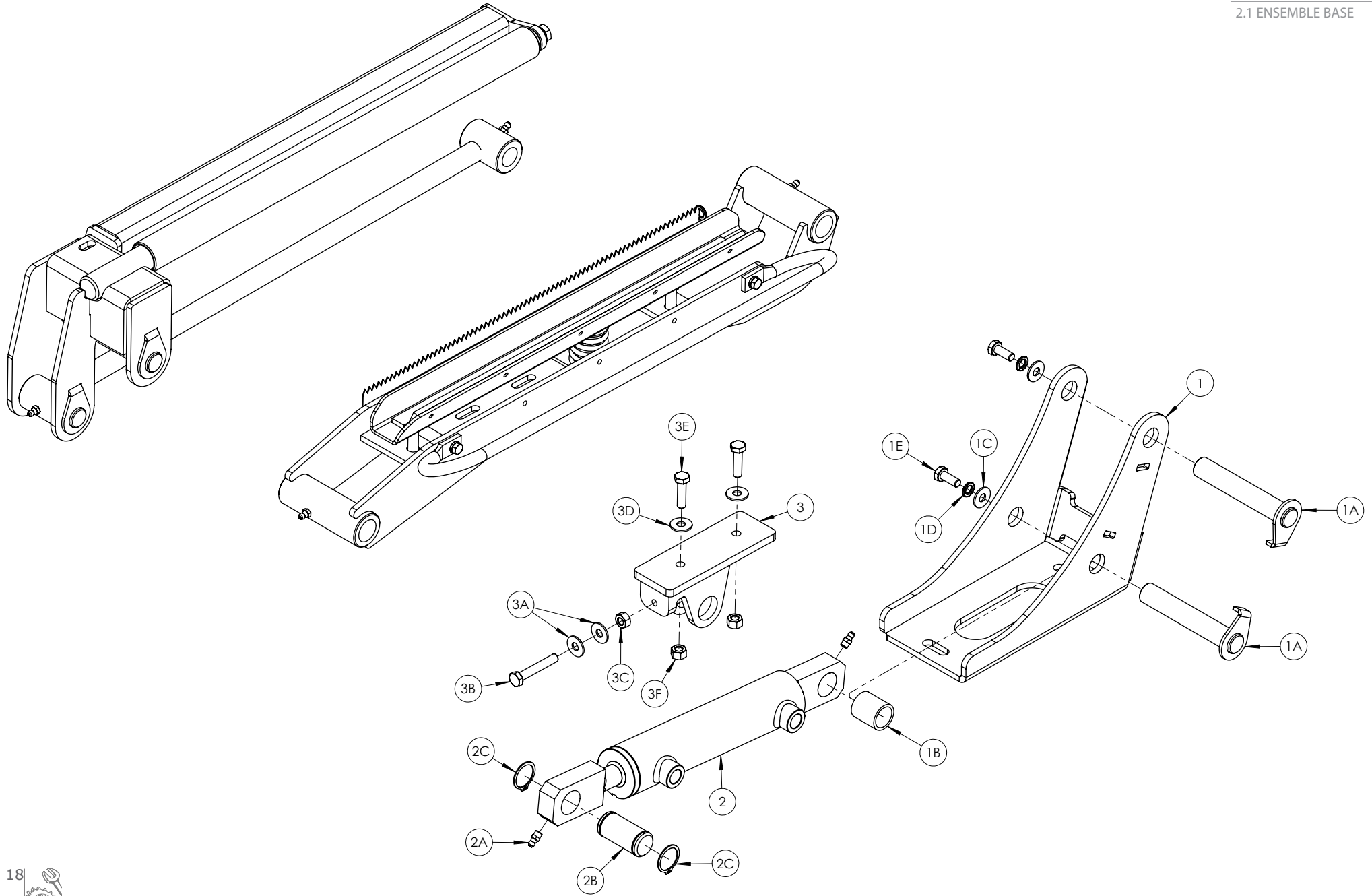


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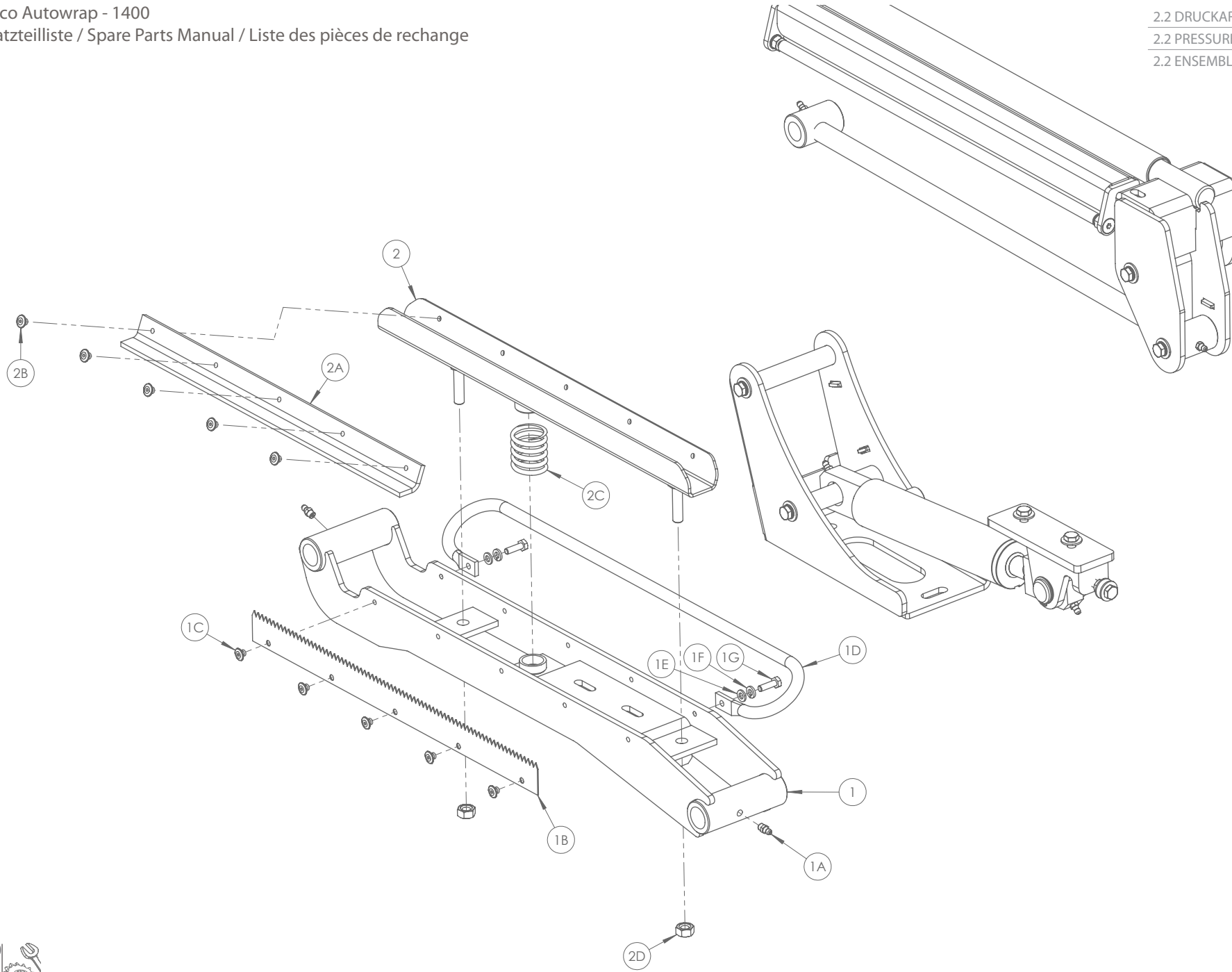
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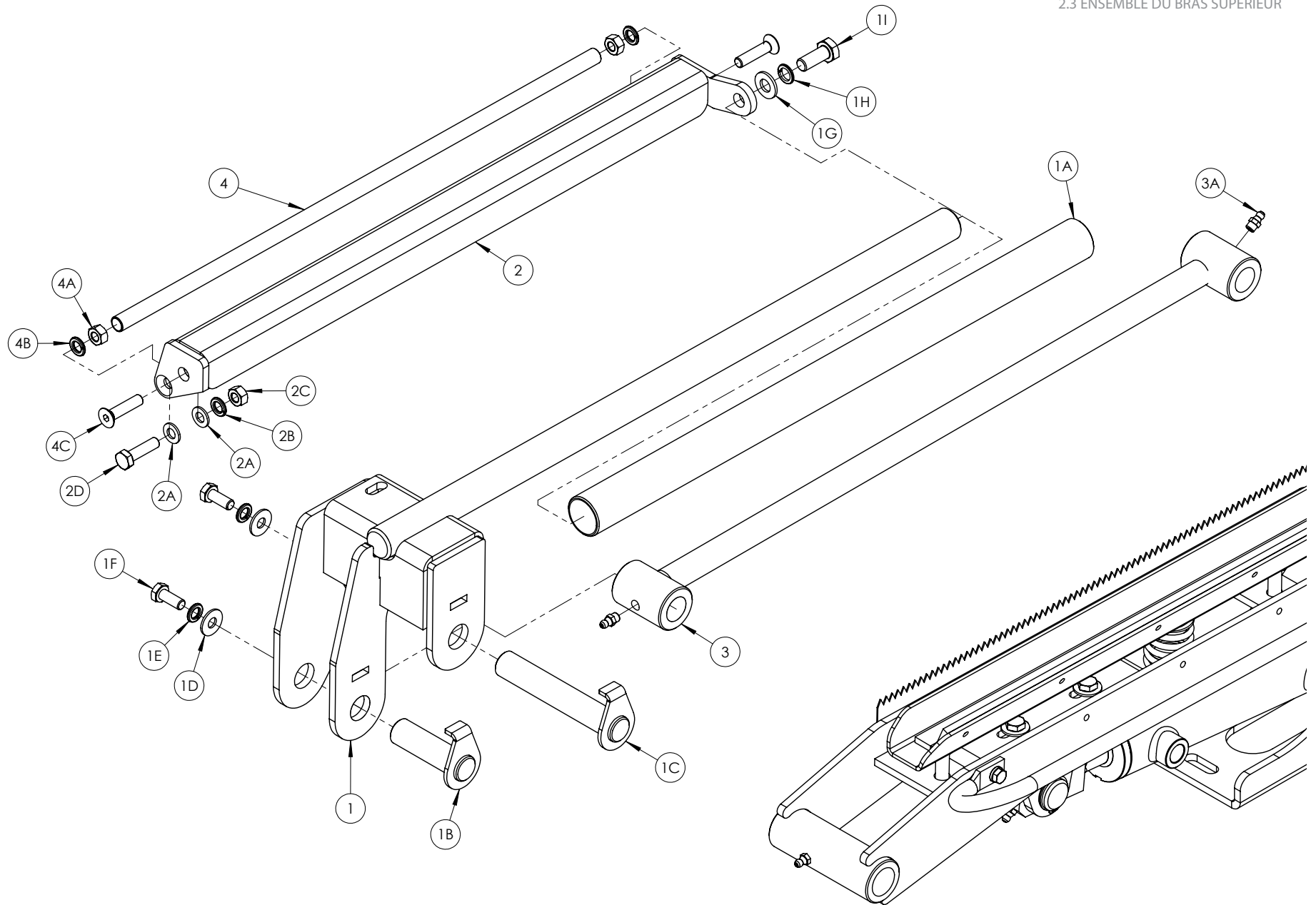




| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG                                 | DESCRIPTION       | DESIGNATION               | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|---|-------------------|---------------------------|--|
| 1                                | 1406060                            | 1                              | Schneid- & Bindebasis („Cut & Tie“-Basis) | Cut & Tie Base    | Base coupe et attache     |  |
| 1A                               | 1406080                            | 2                              | Drehzapfen (lang)                         | Pivot Pin (Long)  | Axe d'articulation (Long) |  |
| 1B                               | 1406035                            | 1                              | Abstandhalter                             | Spacer            | Entretoise                |  |
| 1C                               | Z11-02-081                         | 2                              | Dichtring                                 | Mud Washer        | Rondelle de pare-boue     | M8   |
| 1D                               | Z12-02-08                          | 2                              | Federring                                 | Spring Washer     | Rondelle à ressort        | M8   |
| 1E                               | Z26-039S                           | 2                              | Sechskant-Set                             | Hex Set           | Vis de régl. Hex          | M8 x 20mm  |
| 2                                | 1308151                            | 1                              | Zylinder                                  | Cylinder          | Vérin                     |  |
| 2A                               | 34060800                           | 2                              | Schmiernippel                             | Grease Nipple     | Raccord graisseur         | M8 x 1.25  |
| 2B                               | 34105631                           | 1                              | Zylinderstift                             | Cylinder Pin      | Axe du vérin              |  |
| 2C                               | Z28-525                            | 2                              | Seegerring                                | Circlip           | Circlip                   | M25 Ext.   |
| 3                                | 34920525                           | 1                              | Zylindereinstellvorrichtung               | Cylinder Adjuster | Réglage de vérin          |  |
| 3A                               | Z11-02-081                         | 2                              | Dichtring                                 | Mud Washer        | Rondelle de pare-boue     | M8   |
| 3B                               | Z26-045S                           | 1                              | Sechskant-Set                             | Hex Set           | Vis de régl. Hex          | M8 x 50mm  |
| 3C                               | Z18-08                             | 1                              | Sechskantmutter, glatt                    | Plain Hex Nut     | Écrou plein Hex           | M8   |
| 3D                               | Z11-02-081                         | 2                              | Dichtring                                 | Mud Washer        | Rondelle de pare-boue     | M8   |
| 3E                               | Z26-041S                           | 2                              | Sechskant-Set                             | Hex Set           | Vis de régl. Hex          | M8 x 30mm  |
| 3F                               | Z23-08                             | 2                              | Sechskantmutter                           | Hex Nut           | Écrou hexagonal           | M8   |



| POS. NR. | TEILE NR. | STUCK     | BENENNUNG              | DESCRIPTION        | DESIGNATION               | TECHNISCHE ANGABEN |
|----------|-----------|-----------|------------------------|--------------------|---------------------------|--------------------|
| POS. NR. | PART NR.  | QUANTITY  |                        |                    |                           | TECHNICAL DATA     |
| POS. NO. | PIECE NO. | QUANTITEE |                        |                    |                           | DONNEES TECHNIQUES |
| 1        | 1406112   | 1         | Hubarm                 | Lift Arm           | Bras de relevage          |                    |
| 1A       | 34060800  | 2         | Schmiernippel          | Grease Nipple      | Raccord graisseur         | M8 x 1.25          |
| 1B       | 1406074   | 1         | Schneidklinge          | Blade              | Racleur                   |                    |
| 1C       | Z03-25-05 | 5         | Blindniet              | Pop Rivet          | Rivet Pop                 | 4.8 x 16mm         |
| 1D       | 1406075   | 1         | Foliensammelbalken     | Film Gathering Bar | Barre d'enroulage du film |                    |
| 1E       | Z10-02-06 | 2         | Unterlegscheibe, flach | Flat Washer        | Rondelle plate            | M6                 |
| 1F       | Z12-02-06 | 2         | Federring              | Spring Washer      | Rondelle à ressort        | M6                 |
| 1G       | Z26-020S  | 2         | Sechskant-Set          | Hex Set            | Vis de régl. Hex          | M6 x 20mm          |
| 2        | 1406101   | 1         | Druckplatte            | Pressure Plate     | Cale                      |                    |
| 2A       | 1406706   | 1         | Gummiplatte            | Rubber Strip       | Bande de caoutchouc       |                    |
| 2B       | Z03-25-05 | 5         | Blindniet              | Pop Rivet          | Rivet Pop                 | 4.8 x 16mm         |
| 2C       | 1406078   | 1         | Druckfeder             | Pressure Spring    | Ressort à pression        |                    |
| 2D       | Z23-10    | 2         | Sicherungsmutter       | Locknut            | Contre-écrou              | M10                |



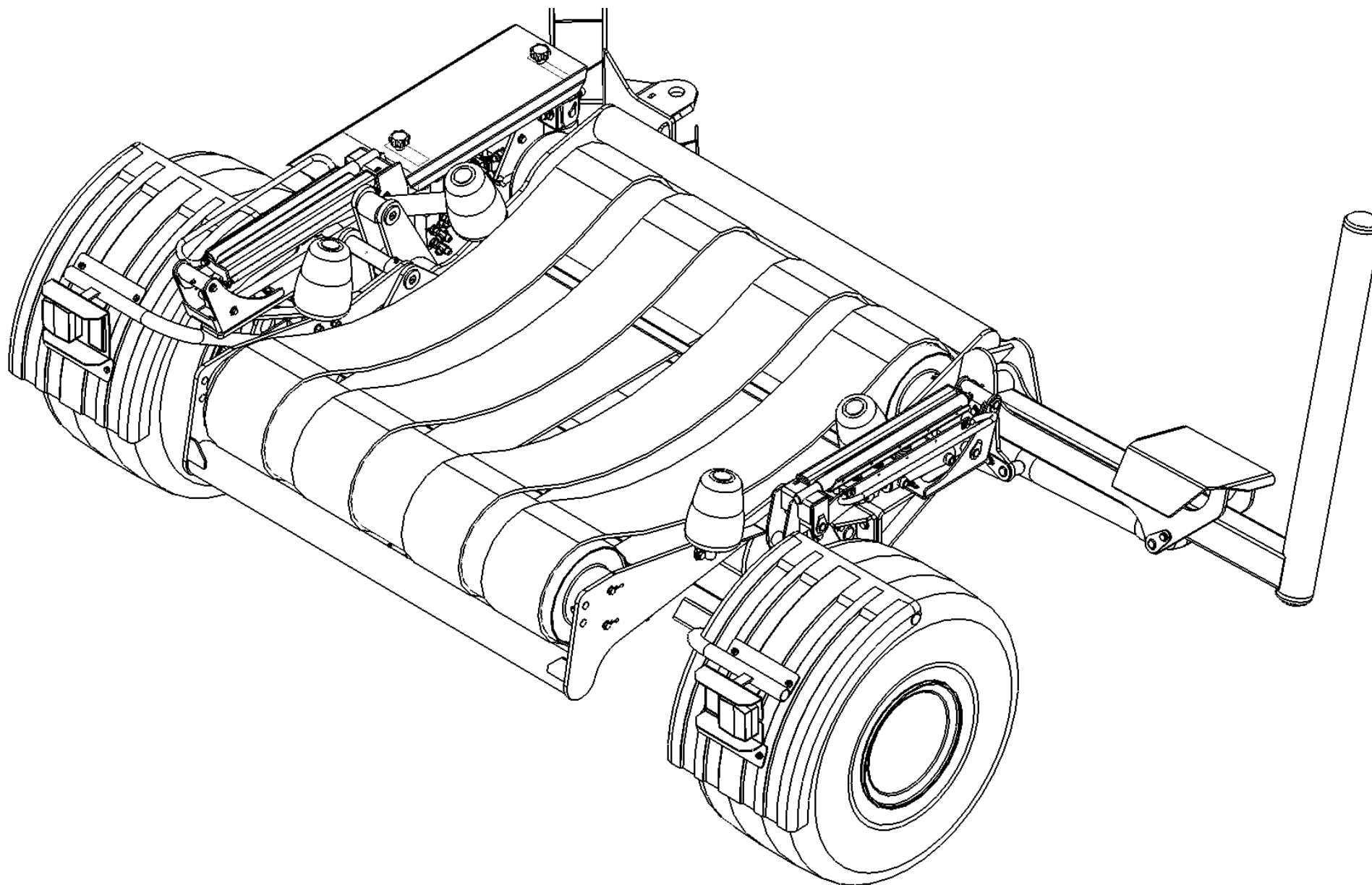
| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG              | DESCRIPTION                | DESIGNATION                       | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|------------------------|----------------------------|-----------------------------------|--|
| 1                                | 1406113                            | 1                              | Pulldown-Arm           | Pull Down Arm              | Bras d'abaissement                |  |
| 1A                               | 1406077                            | 1                              | Rändelwalze            | Knurled Roller             | Rouleau moleté                    |  |
| 1B                               | 1406085                            | 1                              | Drehzapfen (kurz)      | Pivot Pin (Short)          | Axe d'articulation (Court)        |  |
| 1C                               | 1406080                            | 1                              | Drehzapfen (lang)      | Pivot Pin (Long)           | Axe d'articulation (Long)         |  |
| 1D                               | Z11-02-081                         | 2                              | Dichtring              | Mud Washer                 | Rondelle de pare-boue             | M8   |
| 1E                               | Z12-02-08                          | 2                              | Federring              | Spring Washer              | Rondelle à ressort                | M8   |
| 1F                               | Z26-039S                           | 2                              | Sechskant-Set          | Hex Set                    | Vis de régl. Hex                  | M8 x 20mm  |
| 1G                               | Z10-02-10                          | 1                              | Unterlegscheibe, flach | Flat Washer                | Rondelle plate                    | M10  |
| 1H                               | Z12-02-10                          | 1                              | Federring              | Spring Washer              | Rondelle à ressort                | M10  |
| 1I                               | Z26-0611S                          | 1                              | Sechskant-Set          | Hex Set                    | Vis de régl. Hex                  | M10 x 25mm   |
| 2                                | 1406065                            | 1                              | Oberer Arm             | Top Arm                    | Bras supérieur                    |  |
| 2A                               | Z10-02-08                          | 2                              | Unterlegscheibe, flach | Flat Washer                | Rondelle plate                    | M8   |
| 2B                               | Z12-02-08                          | 2                              | Federring              | Spring Washer              | Rondelle à ressort                | M8   |
| 2C                               | Z18-08                             | 1                              | Sechskantmutter, glatt | Plain Hex Nut              | Écrou plein Hex                   | M8   |
| 2D                               | Z26-041S                           | 1                              | Sechskant-Set          | Hex Set                    | Vis de régl. Hex                  | M8 x 30mm  |
| 3                                | 1406102                            | 1                              | Verbindungsarm         | Connecting Arm             | Bras de connexion                 |  |
| 3A                               | 34060800                           | 2                              | Schmiernippel          | Grease Nipple              | Raccord graisseur                 | M8 x 1.25  |
| 4                                | 1406068                            | 1                              | Folienrolle            | Film Roller                | Bobine de film                    |  |
| 4A                               | Z18-08                             | 2                              | Sechskantmutter, glatt | Plain Hex Nut              | Écrou plein Hex                   | M8   |
| 4B                               | Z12-02-08                          | 2                              | Federring              | Spring Washer              | Rondelle à ressort                | M8   |
| 4C                               | Z13-5-08X35                        | 2                              | Inbusenkopf-Set        | Countersunk Allen Head Set | Vis noyée à tête à six pans creux | M8 x 35mm  |

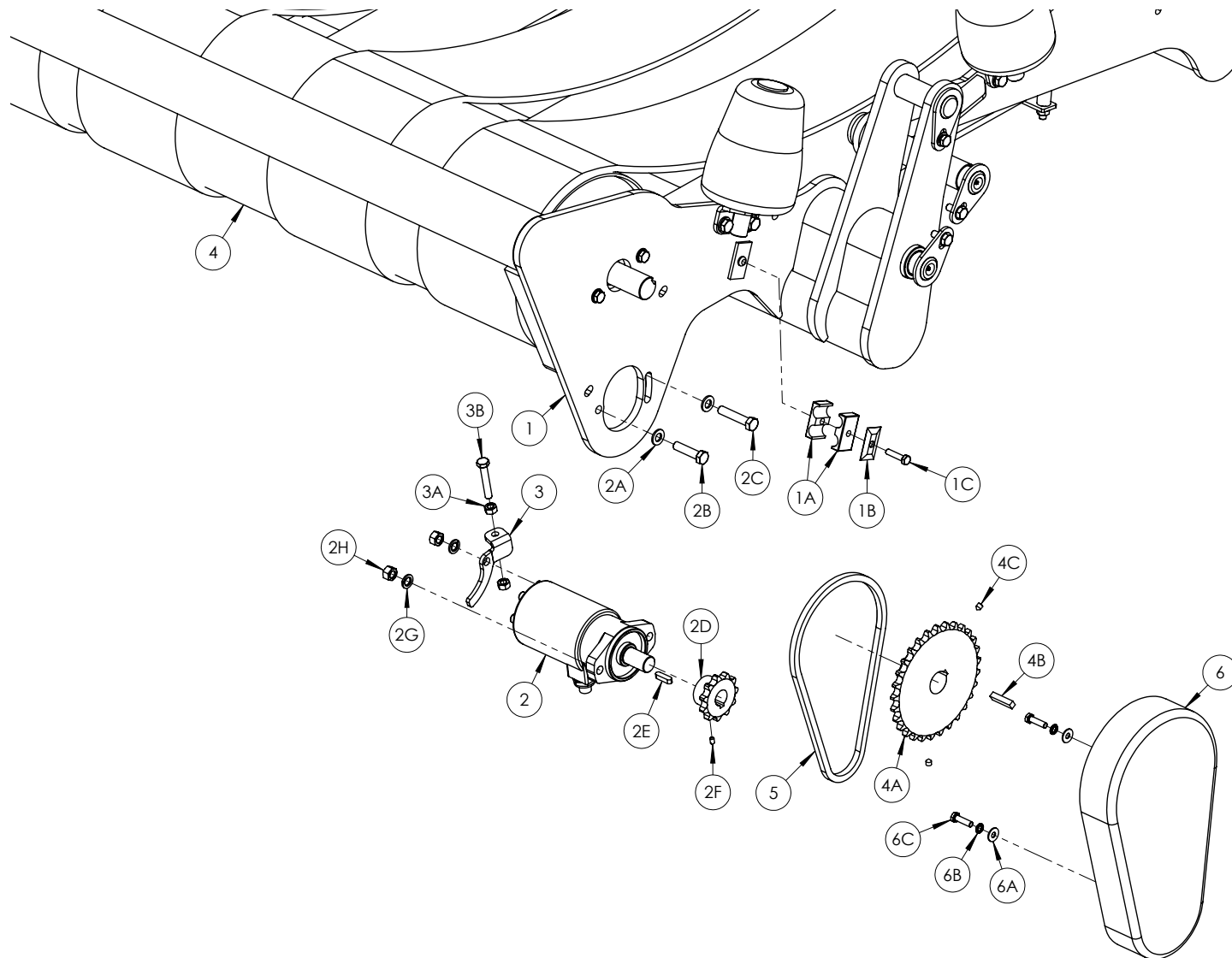


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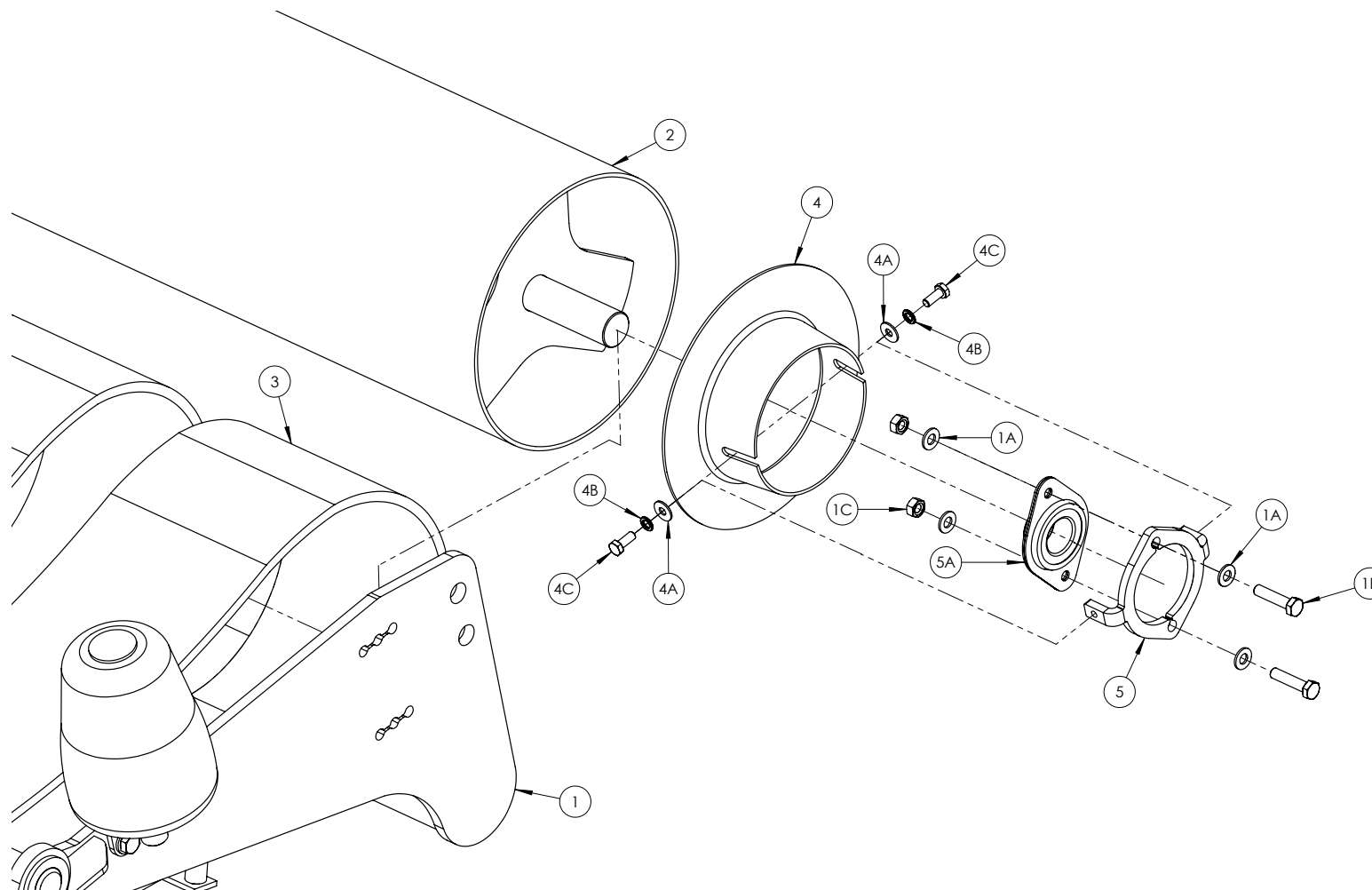
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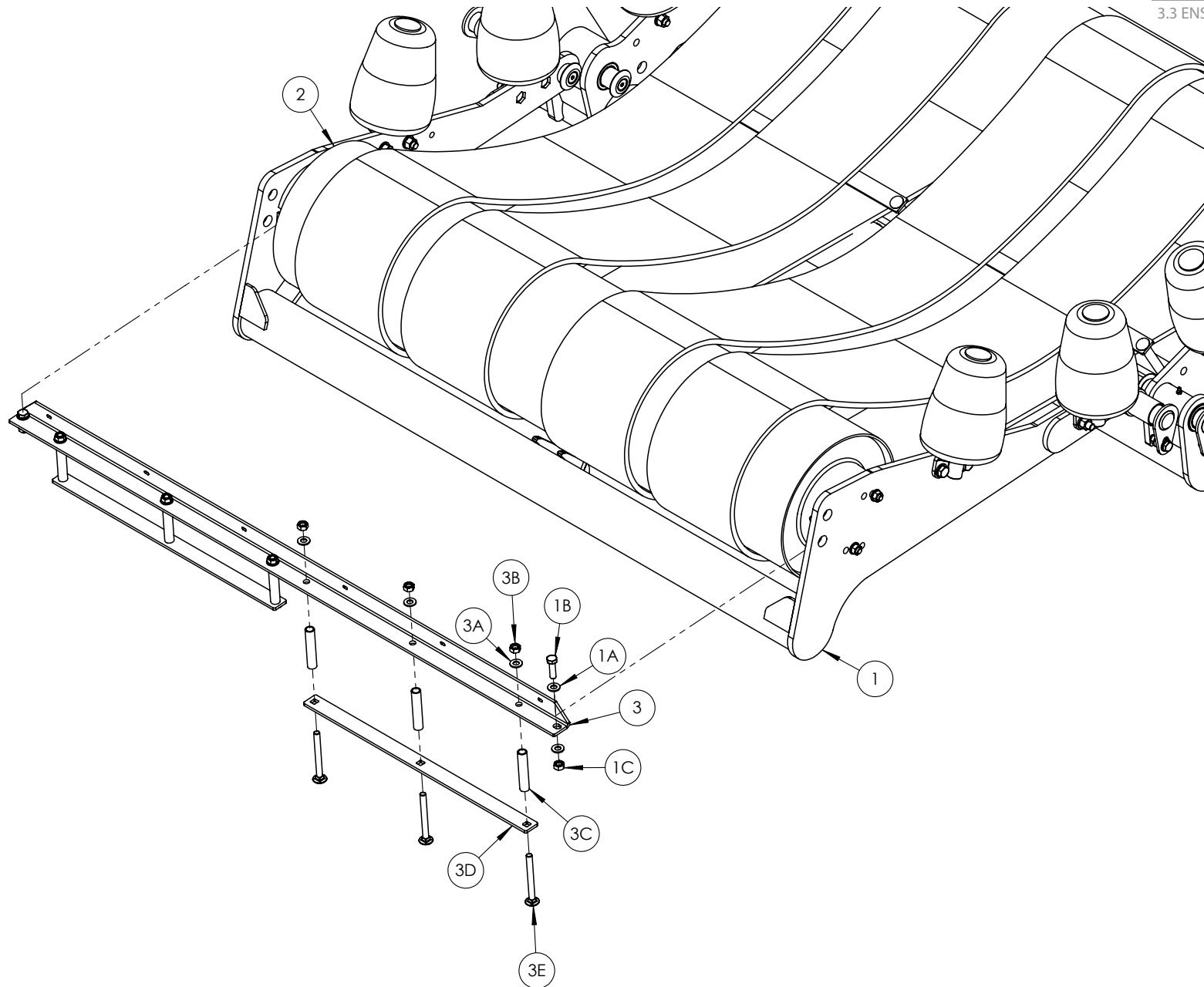




| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STÜCK<br>QUANTITY<br>QUANTITEE | BENENNUNG                | DESCRIPTION          | DESIGNATION                           | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|--------------------------|----------------------|---------------------------------------|--|
| 1                                | 1403300                            | 1                              | Laderahmen               | Load Frame           | Bâti de chargement                    |  |
| 1A                               | Z01-24-2618                        | 1                              | Rohrschelle (Paar)       | Pipe Clamp (Pair)    | Collier de serrage (Paire)            | M18  |
| 1B                               | Z01-24-27                          | 1                              | Obere Rohrschellenplatte | Pipe Clamp Top Plate | Collier de serrage, Plaque supérieure |  |
| 1C                               | Z26-042B                           | 1                              | Sechskantschraube        | Hex Bolt             | Boulon Hex                            | M8 x 35mm  |
| 2                                | 1508800                            | 1                              | Antriebsmotor            | Drive Motor          | Moteur d'entraînement                 |  |
| 2A                               | Z10-02-12                          | 2                              | Unterlegscheibe          | Flat Washer          | Rondelle plate                        | M12  |
| 2B                               | Z26-084S                           | 1                              | Sechskant-Set            | Hex Set              | Vis de régl. Hex                      | M12 x 40mm   |
| 2C                               | Z26-088S                           | 1                              | Sechskant-Set            | Hex Set              | Vis de régl. Hex                      | M12 x 60mm   |
| 2D                               | 1502098                            | 1                              | Kettenrad                | Sprocket             | Pignon                                | 3/4"   |
| 2E                               | 34270111                           | 1                              | Passfeder                | Key Steel            | Clavette acier                        | 8mm x 7mm x 30mm   |
| 2F                               | Z28-008                            | 1                              | Gewindestift             | Grub Screw           | Vis sans tête                         | M8 x 10mm  |
| 2G                               | Z12-02-12                          | 2                              | Federscheibe             | Spring Washer        | Rondelle à ressort                    | M12  |
| 2H                               | Z23-12                             | 2                              | Feststellmutter          | Locknut              | Contre-écrou                          | M12  |
| 3                                | 1403056                            | 1                              | Spannbügel               | Tension Bracket      | Support tendeur                       |  |
| 3A                               | Z26-067S                           | 1                              | Sechskant-Set            | Hex Set              | Vis de régl. Hex                      | M10 x 60mm   |
| 3B                               | Z18-10                             | 2                              | Sechskantmutter, glatt   | Plain Hex Nut        | Écrou plein Hex                       | M10  |
| 4                                | 1403100                            | 1                              | Antriebsrolle            | Drive Roller         | Rouleau moteur                        |  |
| 4A                               | 1403041                            | 1                              | Kettenrad                | Sprocket             | Pignon                                | 3/4"   |
| 4B                               | 1403045                            | 1                              | Passfeder                | Key Steel            | Clavette acier                        | 10mm x 8mm x 40mm  |
| 4C                               | Z28-008                            | 2                              | Gewindestift             | Grub Screw           | Vis sans tête                         | M8 x 10mm  |
| 5                                | 34810834                           | 1                              | Kette (Länge 33 3/4")    | Chain (33 3/4" Long) | Chaîne (33 3/4" de longueur)          | 3/4" (33 3/4" Long)  |
| 6                                | 1403350                            | 1                              | Schutzblech              | Guard                | Protection                            |  |
| 6A                               | Z11-02-081                         | 2                              | Dichtring                | Mud Washer           | Rondelle de pare-boue                 | M8   |
| 6B                               | Z12-02-08                          | 2                              | Federscheibe             | Spring Washer        | Rondelle à ressort                    | M8   |
| 6C                               | Z26-041S                           | 2                              | Sechskant-Set            | Hex Set              | Vis de régl. Hex                      | M8 x 30mm  |

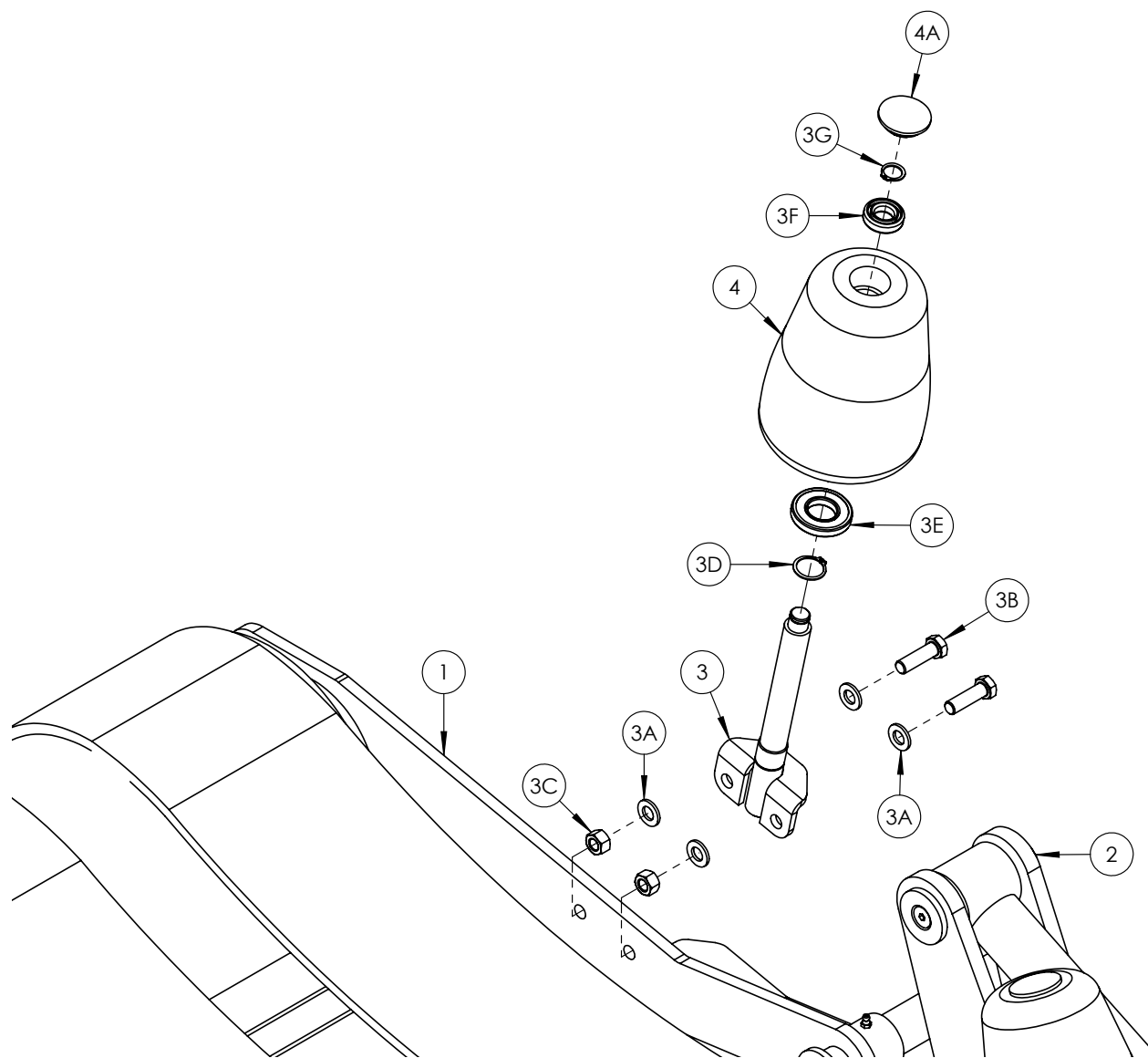


| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG            | DESCRIPTION            | DESIGNATION                     | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|----------------------|------------------------|---------------------------------|--|
| 1                                | 1403450                            | 1                              | Entladerahmen        | Unload Frame           | Bâti Déchargement               |  |
| 1A                               | Z10-02-10                          | 4                              | Unterlegscheibe      | Flat Washer            | Rondelle plate                  | M10  |
| 1B                               | Z26-065S                           | 2                              | Sechskant-Set        | Hex Set                | Vis de régl. Hex                | M10 x 45mm   |
| 1C                               | Z23-10                             | 2                              | Feststellmutter      | Locknut                | Contre-écrou                    | M10  |
| 2                                | 1403108                            | 1                              | Spannrolle           | Idler Roller           | Rouleau-guide                   |  |
| 3                                | Z05-02-ILS                         | 4                              | Lamellenband         | Strip Belt             | Courroie                        |  |
| 4                                | 1403125                            | 1                              | Walze / Lagerschutz  | Roller / Bearing Guard | Protection palier / rouleau     |  |
| 4A                               | Z11-02-081                         | 2                              | Schmutzwascher       | Mudwasher              | Pare-boue                       | M8   |
| 4B                               | M12-02-08                          | 2                              | Federscheibe         | Spring Washer          | Rondelle à ressort              | M8   |
| 4C                               | Z26-039S                           | 2                              | Sechskant-Set        | Hex Set                | Vis de régl. Hex                | M8 X 20mm  |
| 5                                | 1403013                            | 1                              | Abdeckungshaltebügel | Cover Mounting Bracket | Support de montage de couvercle |  |
| 5A                               | 1804101                            | 1                              | Lager                | Bearing                | Palier                          | SA207  |

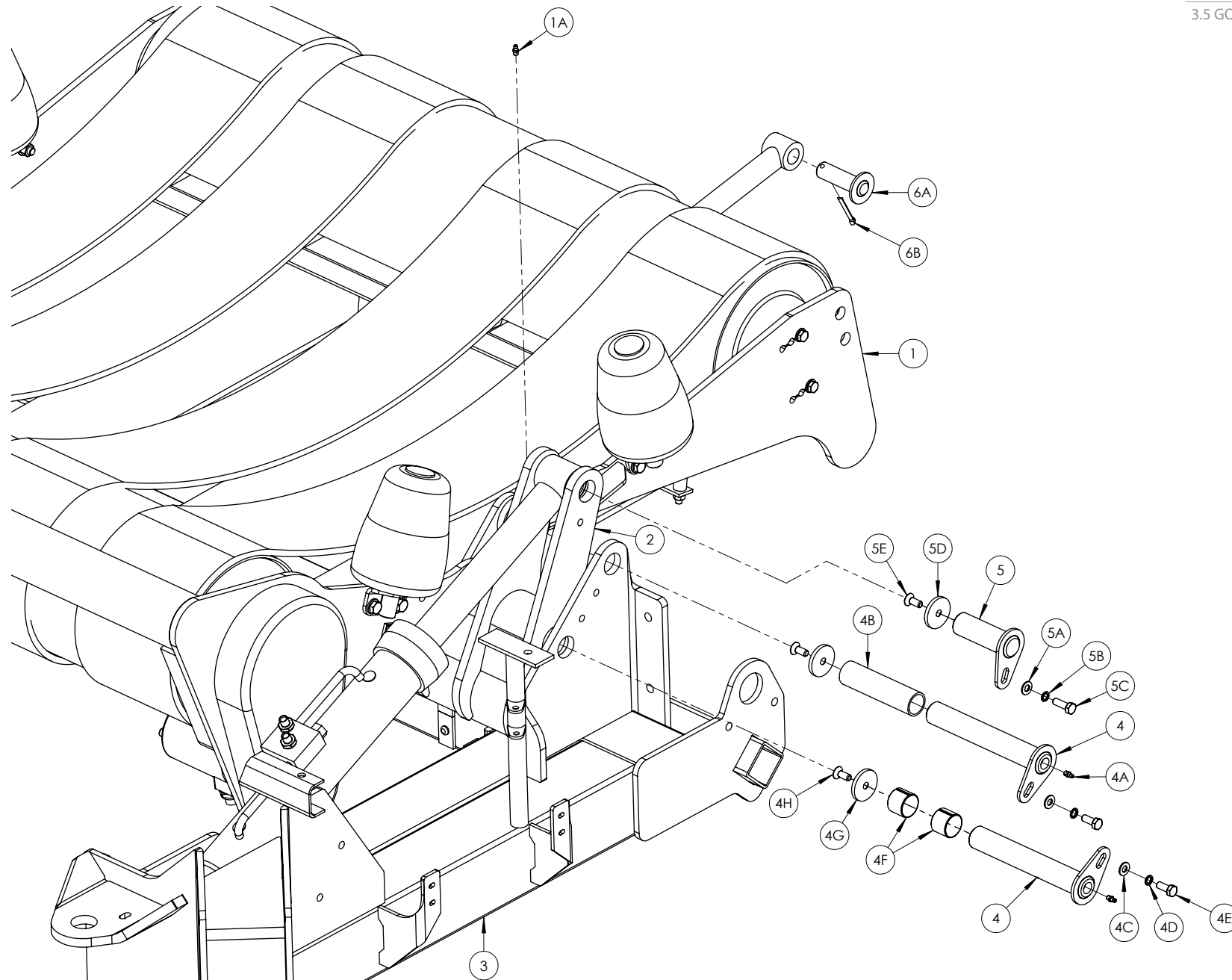


| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG                        | DESCRIPTION               | DESIGNATION                  | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|----------------------------------|---------------------------|------------------------------|--|
| 1                                | 1403450                            | 1                              | Entladerahmen                    | Unload Frame              | Bâti Déchargement            |  |
| 1A                               | Z10-02-10                          | 4                              | Unterlegscheibe                  | Flat Washer               | Rondelle plate               | M10  |
| 1B                               | Z26-063S                           | 2                              | Sechskant-Set                    | Hex Set                   | Vis de régl. Hex             | M10 x 35mm   |
| 1C                               | Z23-10                             | 2                              | Feststellmutter                  | Locknut                   | Contre-écrou                 | M10  |
| 2                                | 1403108                            | 1                              | Spannrolle                       | Idler Roller              | Rouleau-guide                |  |
| 3                                | 1403561                            | 1                              | Oberes Profil Riemenführung      | Belt Guide Top Profile    | Profilé haut guide courroie  |  |
| 3A                               | Z10-02-10                          | 6                              | Unterlegscheibe                  | Flat Washer               | Rondelle plate               | M10  |
| 3B                               | Z23-10                             | 6                              | Feststellmutter                  | Locknut                   | Contre-écrou                 | M10  |
| 3C                               | 1403563                            | 6                              | Riemenführungsdistanzstück       | Belt Guide Spacer         | Entretoise de guide-courroie |  |
| 3D                               | 1403562                            | 2                              | Unteres Profil Riemenführung     | Belt Guide Bottom Profile | Profilé bas guide courroie   |  |
| 3E                               | Z13-114                            | 6                              | Rundschraube mit Sechskantansatz | Cup Hex Bolt              | Boulon Hex                   | M10 x 110mm  |

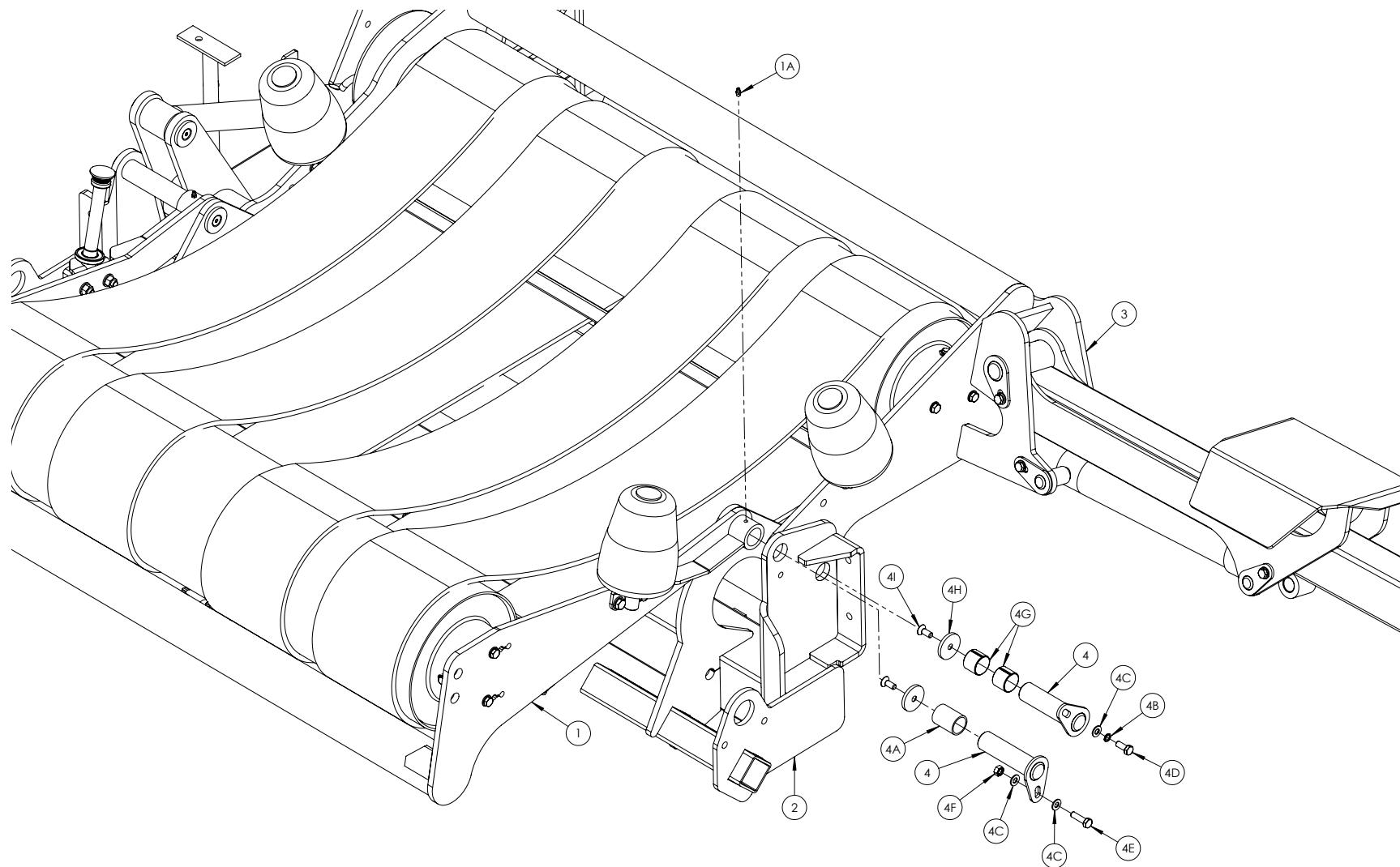




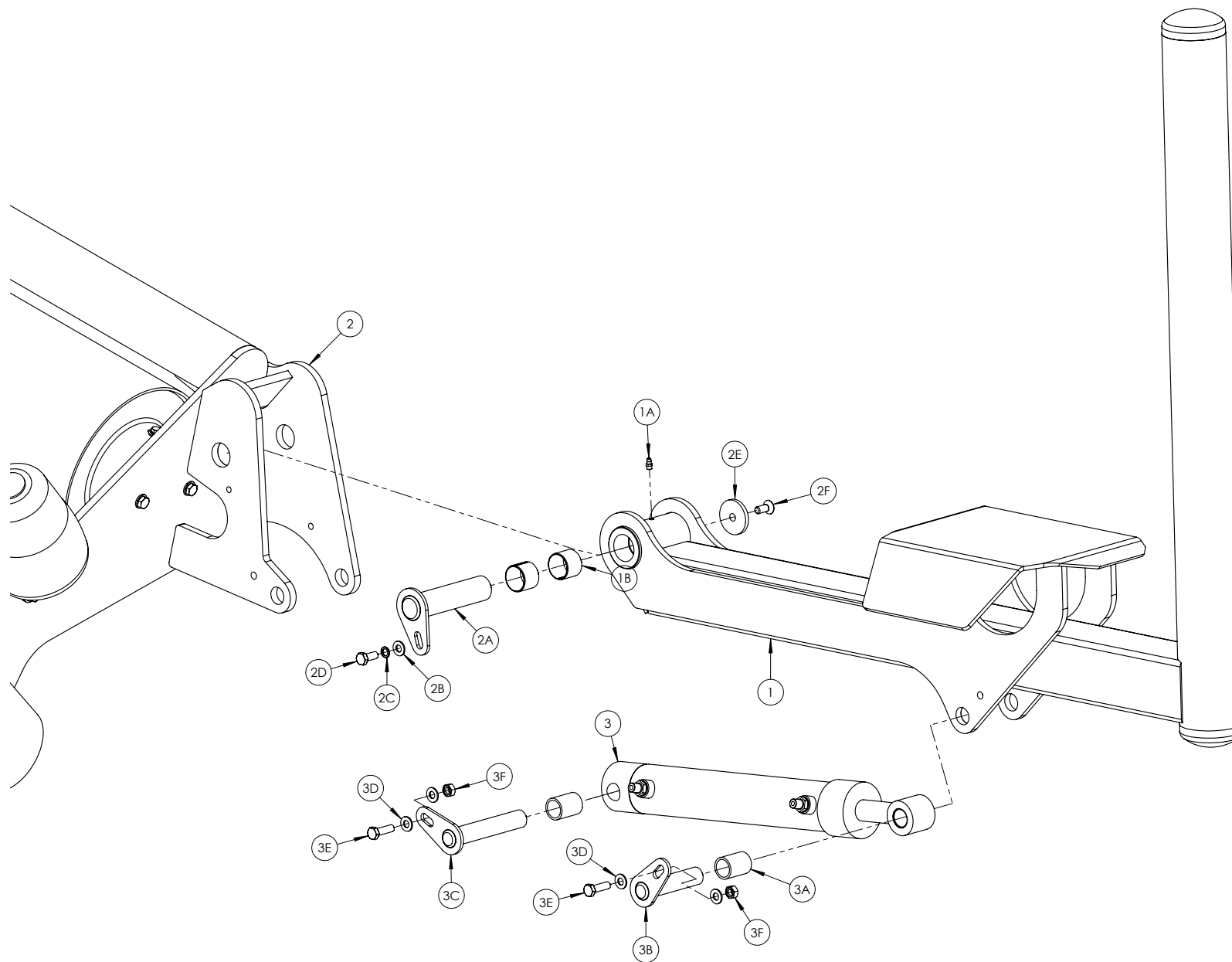
| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG           | DESCRIPTION       | DESIGNATION               | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|---------------------|-------------------|---------------------------|--|
| 1                                | 1403450                            | 1                              | Entladerahmen       | Unload Frame      | Bâti Déchargement         |  |
| 2                                | 1403300                            | 1                              | Laderahmen          | Load Frame        | Bâti de chargement        |  |
| 3                                | 1403055                            | 1                              | Ballenwalzenwelle   | Bale Roller Shaft | Arbre du rouleau de balle |  |
| 3A                               | Z10-02-12                          | 4                              | Unterlegscheibe     | Flat Washer       | Rondelle plate            | M12  |
| 3B                               | Z26-0845                           | 2                              | Sechskant-Set       | Hex Set           | Vis de régl. Hex          | M12 x 40mm   |
| 3C                               | Z23-12                             | 2                              | Feststellmutter     | Locknut           | Contre-écrou              | M12  |
| 3D                               | Z28-525                            | 1                              | Externer Seegerring | External Circlip  | Circlip extérieur         | 25mm   |
| 3E                               | Z06-AWRB                           | 1                              | Kugellager          | Ball Bearing      | Roulement à billes        |  |
| 3F                               | 34320515                           | 1                              | Kugellager          | Ball Bearing      | Roulement à billes        |  |
| 3G                               | 34240713                           | 1                              | Externer Seegerring | External Cir Clip | Circlip extérieur         | 17mm   |
| 4                                | 34340106                           | 1                              | Ballenwalze         | Bale Roller       | Rouleau de balle          |  |
| 4A                               | Z32-15F                            | 1                              | Plastikkappe        | Plastic Cap       | Capuchon plastique        |  |



| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG        | DESCRIPTION     | DESIGNATION               | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|------------------|-----------------|---------------------------|--|
| 1                                | 1403450                            | 1                              | Entladerahmen    | Unload Frame    | Bâti Déchargement         |  |
| 1A                               | 34060800                           | 1                              | Schmiernippel    | Grease Nipple   | Raccord graisseur         | M8 x 1.25  |
| 2                                | 1403300                            | 1                              | Laderahmen       | Load Frame      | Bâti de chargement        |  |
| 3                                | 1401100                            | 1                              | Fahrgestell      | Chassis         | Châssis                   |  |
| 4                                | 1401700                            | 2                              | Gelenkzapfen     | Pivot Pin       | Axe d'articulation        |  |
| 4A                               | 1403052                            | 1                              | Distanzstück     | Spacer          | Entretoise                |  |
| 4B                               | 34060800                           | 2                              | Schmiernippel    | Grease Nipple   | Raccord graisseur         | M8 x 1.25  |
| 4C                               | Z10-02-10                          | 2                              | Unterlegscheibe  | Flat Washer     | Rondelle plate            | M10  |
| 4D                               | Z12-02-10                          | 2                              | Federscheibe     | Spring Washer   | Rondelle à ressort        | M10  |
| 4E                               | Z26-0611S                          | 2                              | Sechskant-Set    | Hex Set         | Vis de régl. Hex          | M10 x 25mm   |
| 4F                               | 1404055                            | 2                              | DX Buchse        | DX Bush         | Douille DX                | 35mm ID x 30mm   |
| 4G                               | 1403033                            | 2                              | Stiftkappe       | Pin Cap         | Bouton de blocage         |  |
| 4H                               | Z13-5-10X25                        | 2                              | Inbus-C.S.K.-Set | C.S.K Set Allen | Ensemble vis Allen C.S.K. | M10 x 25mm   |
| 5                                | 1401706                            | 1                              | Zylinderstift    | Cylinder Pin    | Goupille du vérin         |  |
| 5A                               | Z10-02-10                          | 1                              | Unterlegscheibe  | Flat Washer     | Rondelle plate            | M10  |
| 5B                               | Z12-02-10                          | 1                              | Federscheibe     | Spring Washer   | Rondelle à ressort        | M10  |
| 5C                               | Z26-062S                           | 1                              | Sechskant-Set    | Hex Set         | Vis de régl. Hex          | M10 x 30mm   |
| 5D                               | 1403033                            | 1                              | Stiftkappe       | Pin Cap         | Bouton de blocage         |  |
| 5E                               | Z13-5-10X25                        | 1                              | Inbus-C.S.K.-Set | C.S.K Set Allen | Ensemble vis Allen C.S.K. | M10 x 25mm   |
| 6                                | 1408165                            | 1                              | Zylinderkolben   | Cylinder Ram    | Cylindre de vérin         |  |
| 6A                               | 1401722                            | 1                              | Zylinderkolben   | Cylinder Ram    | Cylindre de vérin         |  |
| 6B                               | Z03-21-29                          | 1                              | Klappsplint      | Linch Pin       | Clavette d'essieu         | 1/4"   |



| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG        | DESCRIPTION     | DESIGNATION               | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|------------------|-----------------|---------------------------|--|
| 1                                | 1403450                            | 1                              | Entladerahmen    | Unload Frame    | Bâti Déchargement         |  |
| 1A                               | 34060800                           | 1                              | Schmiernippel    | Grease Nipple   | Raccord graisseur         | M8 x 1.25  |
| 2                                | 1403300                            | 1                              | Laderahmen       | Load Frame      | Bâti de chargement        |  |
| 2A                               | 34060800                           | 1                              | Schmiernippel    | Grease Nipple   | Raccord graisseur         | M8 x 1.25  |
| 3                                | 1401100                            | 1                              | Fahrgestell      | Chassis         | Châssis                   |  |
| 4                                | 1401704                            | 2                              | Gelenkzapfen     | Pivot Pin       | Axe d'articulation        |  |
| 4A                               | 1403051                            | 1                              | Distanzstück     | Spacer          | Entretoise                |  |
| 4B                               | Z10-02-10                          | 3                              | Unterlegscheibe  | Flat Washer     | Rondelle plate            | M10  |
| 4C                               | Z12-02-10                          | 1                              | Federscheibe     | Spring Washer   | Rondelle à ressort        | M10  |
| 4D                               | Z26-0611S                          | 1                              | Sechskant-Set    | Hex Set         | Vis de régl. Hex          | M10 x 25mm   |
| 4E                               | Z26-063S                           | 1                              | Sechskant-Set    | Hex Set         | Vis de régl. Hex          | M10 x 35mm   |
| 4F                               | Z23-10                             | 1                              | Feststellmutter  | Locknut         | Contre-écrou              | M10  |
| 4G                               | 1404055                            | 2                              | DX Buchse        | DX Bush         | Douille DX                | 35mm ID x 30mm   |
| 4H                               | 1403033                            | 1                              | Stiftkappe       | Pin Cap         | Bouton de blocage         | Counter Sunk   |
| 4I                               | Z13-5-10X25                        | 1                              | Inbus-C.S.K.-Set | C.S.K Set Allen | Ensemble vis Allen C.S.K. | M10 x 25mm   |



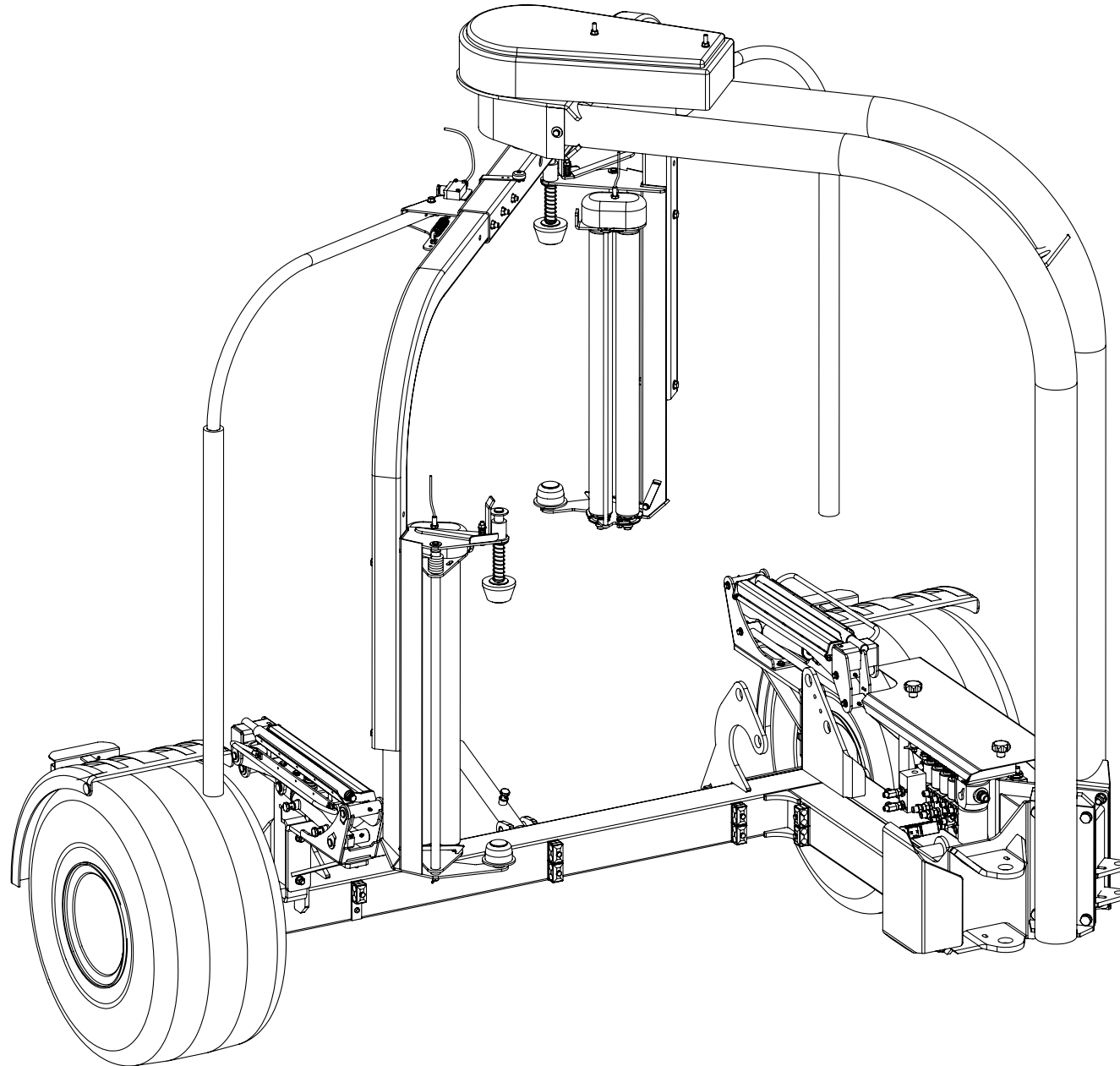
| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG        | DESCRIPTION          | DESIGNATION                 | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|------------------|----------------------|-----------------------------|--|
| 1                                | 1402110                            | 1                              | Ladearm          | Loading Arm          | Bras de chargement          |  |
| 1A                               | 34060800                           | 1                              | Schmiernippel    | Grease Nipple        | Raccord graisseur           | M8 x 1.25  |
| 1B                               | 1404055                            | 2                              | DX Buchse        | DX Bush              | Douille DX                  | 35mm Bore x 30mm   |
| 2                                | 1403300                            | 1                              | Laderahmen       | Load Frame           | Bâti de chargement          |  |
| 2A                               | 1401708                            | 1                              | Gelenkzapfen     | Pivot Pin            | Axe d'articulation          | Loading Arm  |
| 2B                               | Z10-02-10                          | 2                              | Unterlegscheibe  | Flat Washer          | Rondelle plate              | M10  |
| 2C                               | Z12-02-10                          | 2                              | Federscheibe     | Spring Washer        | Rondelle à ressort          | M10  |
| 2D                               | Z26-0611S                          | 2                              | Sechskant-Set    | Hex Set              | Vis de régl. Hex            | M10 x 25mm   |
| 2E                               | 1403033                            | 2                              | Stiftkappe       | Pin Cap              | Bouton de blocage           | Counter Sunk   |
| 2F                               | Z13-5-10X25                        | 2                              | Inbus-C.S.K.-Set | C.S.K Set Allen      | Ensemble vis Allen C.S.K.   | M10 x 25mm   |
| 3                                | 1408168                            | 1                              | Ladearmzylinder  | Loading Arm Cylinder | Vérin du bras de chargement |  |
| 3A                               | 1403053                            | 2                              | Distanzstück     | Spacer               | Entretoise                  |  |
| 3B                               | 1401716                            | 1                              | Zylinderstift A  | Cylinder Pin A       | Goupille de vérin A         |  |
| 3C                               | 1401718                            | 1                              | Zylinderstift B  | Cylinder Pin B       | Goupille du vérin B         |  |
| 3D                               | Z10-02-10                          | 4                              | Unterlegscheibe  | Flat Washer          | Rondelle plate              | M10  |
| 3E                               | Z26-063S                           | 2                              | Sechskant-Set    | Hex Set              | Vis de régl. Hex            | M10 x 35mm   |
| 3F                               | Z23-10                             | 2                              | Feststellmutter  | Locknut              | Contre-écrou                | M10  |

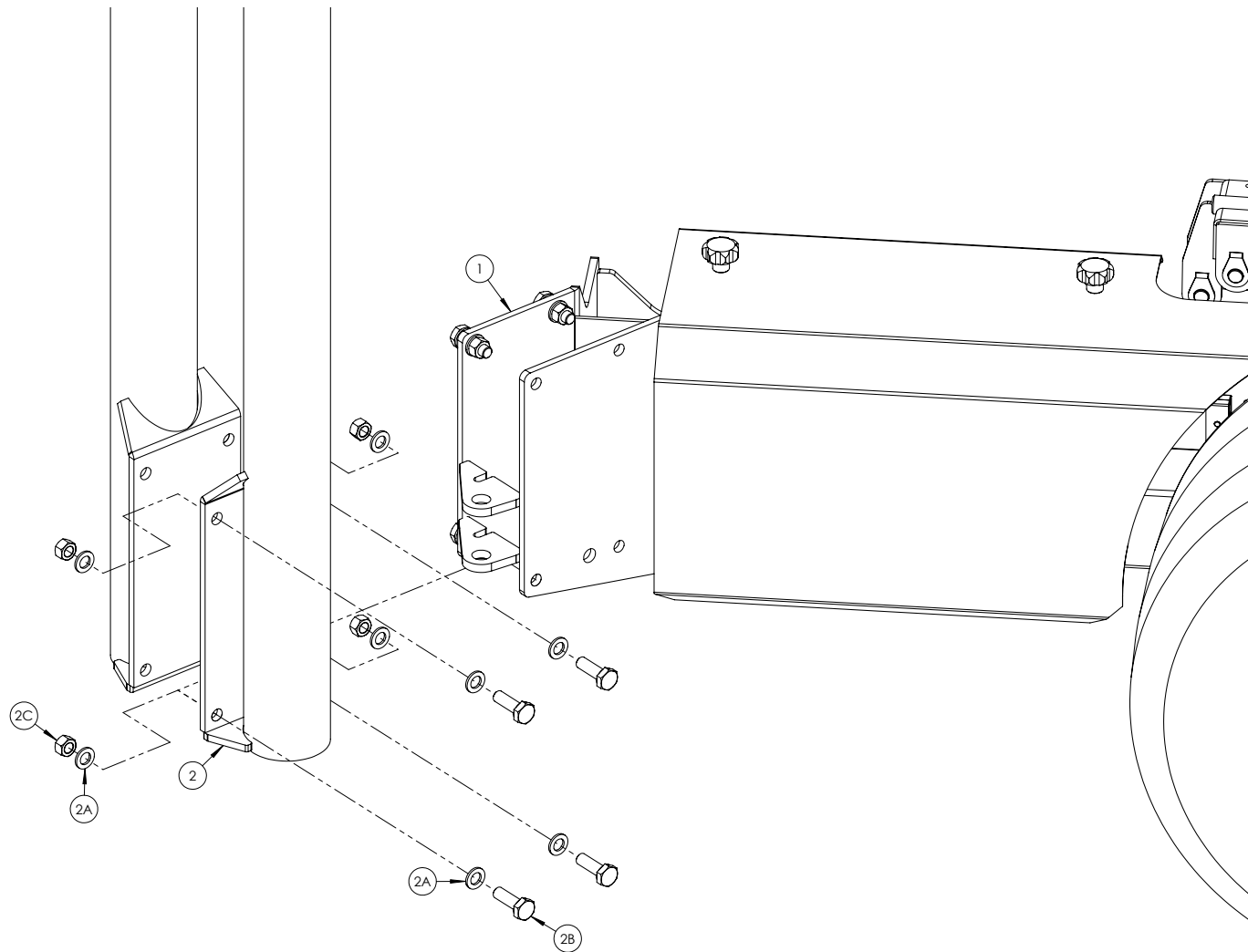


Tanco Autowrap - 1400

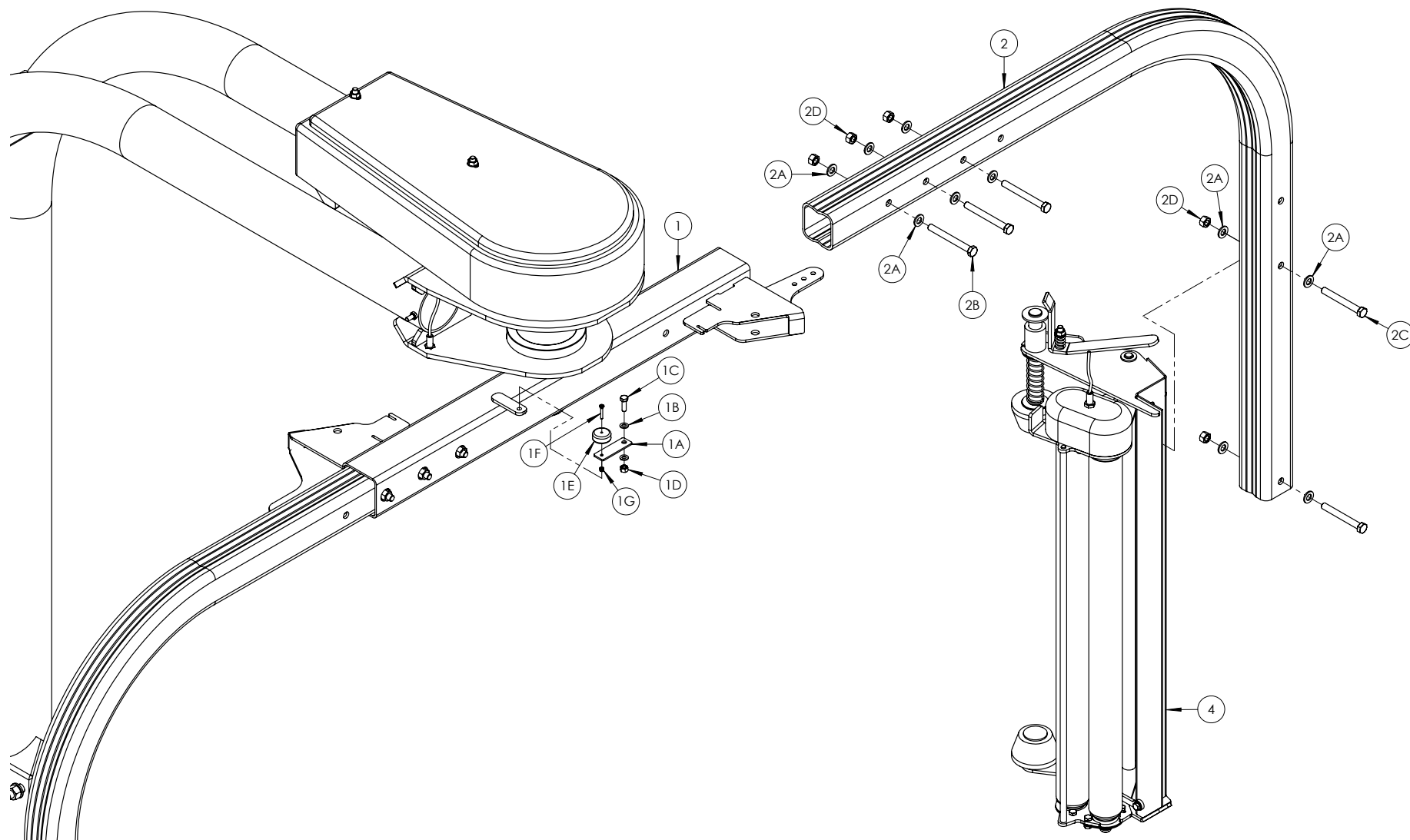
Ersatzteilliste / Spare Parts Manual / Liste des pièces de rechange



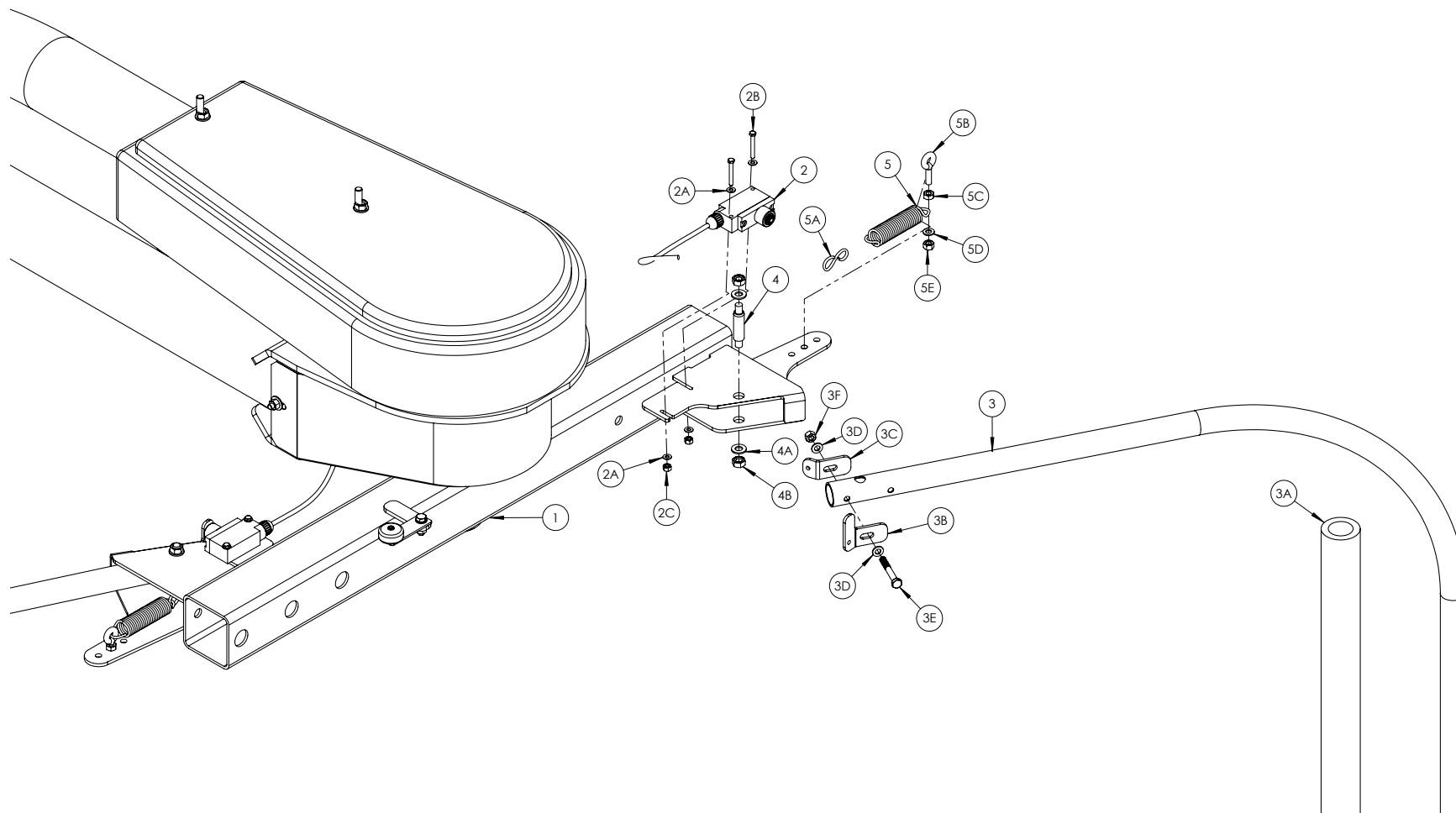




| POS. NR. | TEILE NR. | STUCK     | BENENNUNG                   | DESCRIPTION           | DESIGNATION                                  | TECHNISCHE ANGABEN |
|----------|-----------|-----------|-----------------------------|-----------------------|--|--------------------|
| POS. NR. | PART NR.  | QUANTITY  |                             |                       |  | TECHNICAL DATA     |
| POS. NO. | PIECE NO. | QUANTITEE |                             |                       |  | DONNEES TECHNIQUES |
| 1        | 1401100   | 1         | Fahrgestell                 | Chassis               | Châssis                                      |                    |
| 2        | 1404400   | 1         | Turm                        | Tower                 | Tour   |                    |
| 2A       | Z10-02-16 | 8         | 16-mm-Unterlegscheibe       | 16mm Flat Washer      | Rondelle plate 16mm                          |                    |
| 2B       | Z13B-064  | 4         | 5/8" x 2" UNF Sechskant-Set | 5/8" x 2" UNF Hex Set | Vis de réglage hex. à filetage UNF 2" X 5/8" |                    |

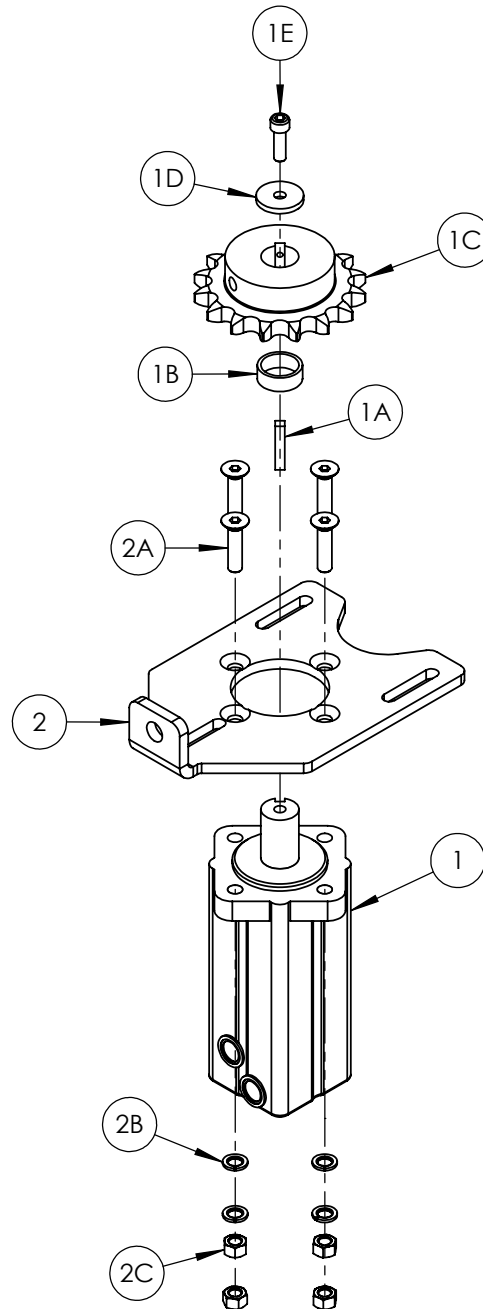


| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG             | DESCRIPTION            | DESIGNATION                       | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|-----------------------|------------------------|-----------------------------------|--|
| 1                                | 1404220                            | 1                              | Wickelarm             | Wrapping Arm           | Bras d'enrubannage                |  |
| 1A                               | 1304003                            | 1                              | Magnetmontagebügel    | Magnet Bracket         | Support de l'aimant               |  |
| 1B                               | Z10-02-08                          | 2                              | Unterlegscheibe       | Flat Washer            | Rondelle plate                    | M8   |
| 1C                               | Z26-040B                           | 1                              | Sechskantschraube     | Hex Bolt               | Boulon Hex                        | M8 x 25mm  |
| 1D                               | Z23-08                             | 1                              | Feststellmutter       | Locknut                | Contre-écrou                      | M8   |
| 1E                               | 1309201                            | 1                              | Sensormagnet          | Sensor Magnet          | Aimant de capteur                 |  |
| 1F                               | Z13-5-04x30                        | 1                              | CSK-Inbuskopf-Set     | CSK Allen Head Set     | Vis noyée à tête à six pans creux | M4 x 30mm  |
| 1G                               | Z23-04                             | 1                              | Feststellmutter       | Locknut                | Contre-écrou                      | M4   |
| 2                                | 1404009                            | 1                              | Anbauarm, Vorstrecker | Dispenser Mounting Arm | Bras de fixation du distributeur  |  |
| 2A                               | Z10-02-12                          | 10                             | Unterlegscheibe       | Flat Washer            | Rondelle plate                    | M12  |
| 2B                               | Z23-093B                           | 3                              | Sechskantschraube     | Hex Bolt               | Boulon Hex                        | M12 x 110mm  |
| 2C                               | Z26-092S                           | 2                              | Sechskant-Set         | Hex Set                | Vis de régl. Hex                  | M12 x 100mm  |
| 2D                               | Z23-12                             | 5                              | Feststellmutter       | Locknut                | Contre-écrou                      | M12  |
| 3                                | 1405150                            | 1                              | Vorstrecker-Baugruppe | Dispenser Assembly     | Ensemble Distributeur             |  |

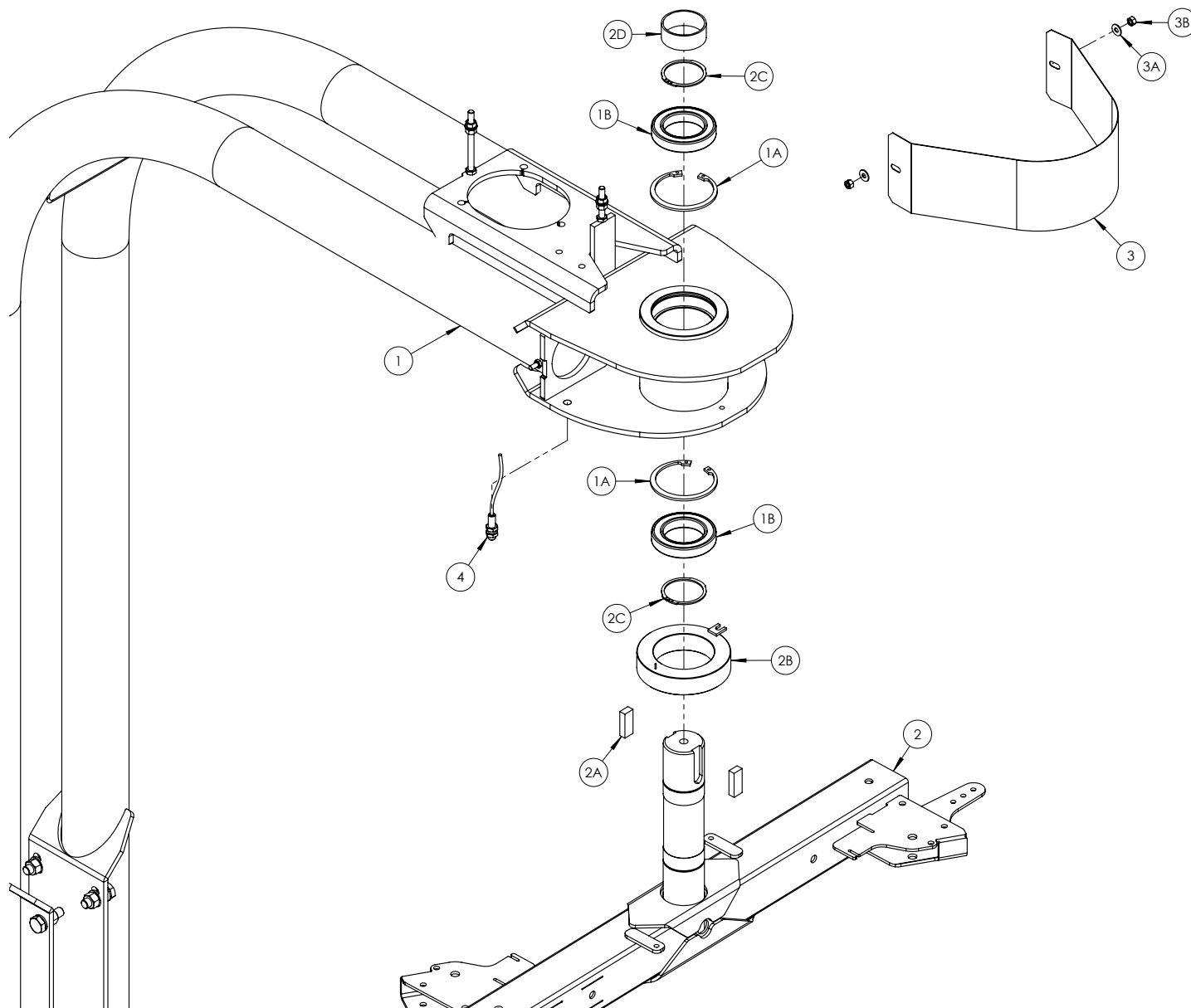


| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG              | DESCRIPTION      | DESIGNATION                  | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|------------------------|------------------|------------------------------|--|
| 1                                | 1404220                            | 1                              | Dreharm                | Rotating Arm     | Bras rotatif                 |  |
| 2                                | 34950179                           | 1                              | Sicherheitsschalter    | Safety Switch    | Interrupteur de sécurité     |  |
| 2A                               | Z10-02-05                          | 4                              | Unterlegscheibe        | Flat Washer      | Rondelle plate               | M5   |
| 2B                               | Z26-01375                          | 2                              | Sechskant-Set          | Hex Set          | Vis de régl. Hex             | M5 X 40mm  |
| 2C                               | Z23-05                             | 2                              | Feststellmutter        | Locknut          | Contre-écrou                 | M5   |
| 3                                | 34611357                           | 1                              | Sicherheitsbügel       | Safety Arm       | Bras de sécurité             |  |
| 3A                               | 34480020                           | 1                              | Armaddeckung           | Arm Cover        | Carter de bras               |  |
| 3B                               | 1404013                            | 1                              | Schalerauslöser        | Switch Activator | Activateur de l'interrupteur |  |
| 3C                               | 34670152                           | 1                              | Armbügel               | Arm Bracket      | Support de bras              |  |
| 3D                               | Z10-02-08                          | 2                              | Unterlegscheibe        | Flat Washer      | Rondelle plate               | M8   |
| 3E                               | Z26-047B                           | 1                              | Sechskantschraube      | Hex Bolt         | Boulon Hex                   | M8 x 60mm  |
| 3F                               | Z23-08                             | 1                              | 8 mm Sicherungsmutter  | 8mm Locknut      | Contre-écrou 8mm             |  |
| 4                                | 34105651                           | 1                              | Armdrehzapfen          | Arm Pivot Bolt   | Vis d'articulation du bras   |  |
| 4A                               | Z10-02-10                          | 2                              | Unterlegscheibe        | Flat Washer      | Rondelle plate               | M10  |
| 4B                               | Z23-10                             | 2                              | Feststellmutter        | Locknut          | Contre-écrou                 | M10  |
| 5                                | 34430300                           | 1                              | Armfeder               | Arm Spring       | Ressort de bras              |  |
| 5A                               | 34660111                           | 1                              | S-Haken                | S Hook           | Crochet S                    |  |
| 5B                               | 34119043                           | 1                              | Augenschraube          | Eye Bolt         | Boulon à oeil                | M8 x 25mm  |
| 5C                               | Z18-08                             | 1                              | Sechskantmutter, glatt | Plain Hex Nut    | Écrou plein Hex              | M8   |
| 5D                               | Z10-02-08                          | 1                              | Unterlegscheibe        | Flat Washer      | Rondelle plate               | M8   |
| 5E                               | Z23-08                             | 1                              | Feststellmutter        | Locknut          | Contre-écrou                 | M8   |

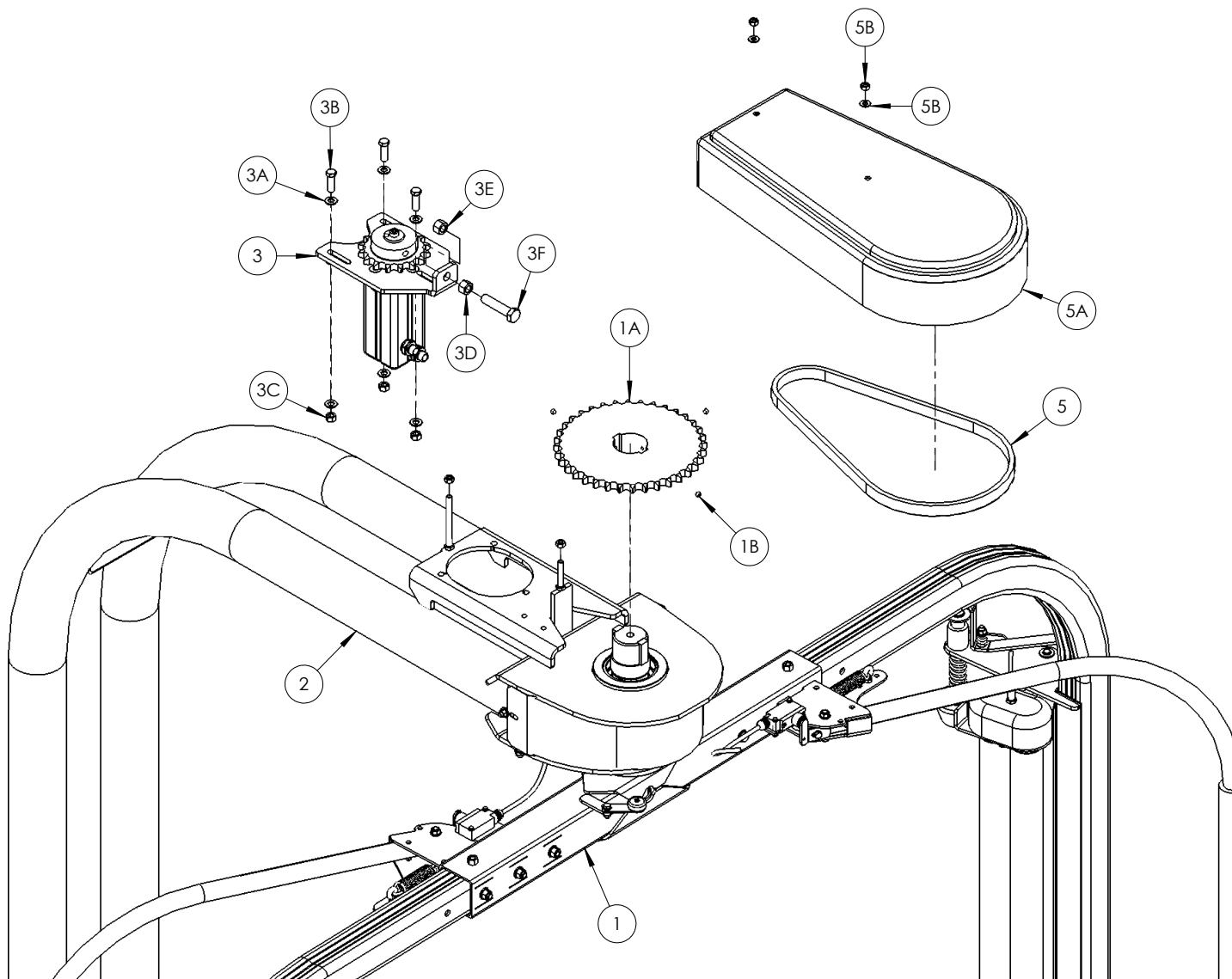




| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG                | DESCRIPTION                | DESIGNATION                       | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|--------------------------|----------------------------|-----------------------------------|--|
| 1                                | Z01-02-RF200                       | 1                              | Turmmotor                | Tower Motor                | Moteur tour                       |  |
| 1A                               | WD64-053                           |                                | Keilstahl                | Key Steel                  | Clavette acier                    | 5/16" x 5/16" x 45mm                                       |
| 1B                               | 1503172                            | 1                              | Motorabstandhalter       | Motor Spacer               | Entretoise moteur                 |  |
| 1C                               | 1404015                            | 1                              | Zahnkranz                | Sprocket                   | Pignon                            | 1" x 16T   |
| 1D                               | WD623-071                          | 1                              | Kragen/Manschette        | Collar                     | Collier                           |  |
| 1E                               | Z13-4-32                           | 1                              | UNC Zylinderkopfschraube | UNC Socket Cap Screw       | Vis six pans creux UNC            | 1 1/4" x 3/8"  |
| 2                                | 1503247                            | 1                              | Motoranbauplatte         | Motor Mounting Plate       | Plaque de fixation du moteur      |  |
| 2A                               | Z13-5-12X50                        | 4                              | Inbussenkopf-Set         | Countersunk Allen Head Set | Vis noyée à tête à six pans creux | M12 x 50mm   |
| 2B                               | Z12-02-12                          | 4                              | Federring                | Spring Washer              | Rondelle à ressort                | M12  |
| 2C                               | Z23-12                             | 4                              | Sicherungsmutter         | Locknut                    | Contre-écrou                      | M12  |



| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG            | DESCRIPTION      | DESIGNATION           | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|----------------------|------------------|-----------------------|--|
| 1                                | 1404400                            | 1                              | Turm                 | Tower            | Tour                  |  |
| 1A                               | 1404051                            | 2                              | Interner Seegerring  | Internal Circlip | Circlip intérieur     | Dia 110mm  |
| 1B                               | 1404052                            | 2                              | Wellenlager          | Shaft Bearing    | Palier d'arbre        |  |
| 2                                | 1404220                            | 1                              | Dreharm              | Rotating Arm     | Bras rotatif          |  |
| 2A                               | 1404024                            | 2                              | Passfeder            | Key Steel        | Clavette acier        | 20 X 12 X 50mm   |
| 2B                               | 1319100                            |                                | Drehkranz            | Slew Ring        | Couronne de rotation  |  |
| 2C                               | 1404053                            | 2                              | Externer Seegerring  | External Circlip | Circlip extérieur     | Dia 67mm   |
| 2D                               | 1403075                            | 1                              | Distanzstück         | Spacer           | Entretoise            |  |
| 3                                | 1404076                            | 1                              | Vorderes Schutzblech | Front Guard      | Protection avant      |  |
| 3A                               | Z11-02-081                         | 2                              | Dichtring            | Mud Washer       | Rondelle de pare-boue | M8   |
| 3B                               | Z23-08                             | 2                              | Feststellmutter      | Locknut          | Contre-écrou          | M8   |
| 4                                | 1309201                            | 1                              | Sensormagnet         | Sensor Magnet    | Aimant de capteur     |  |

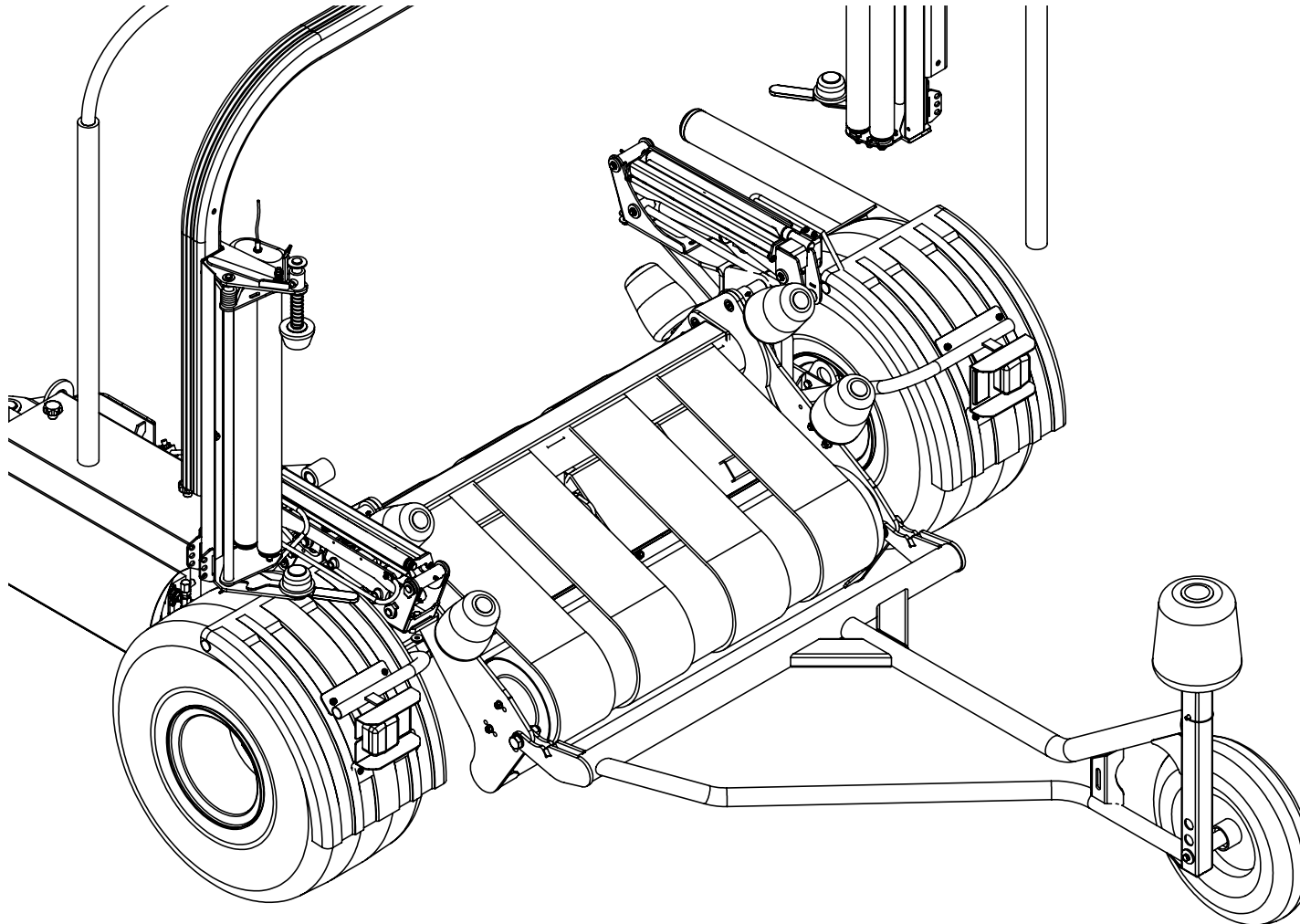


| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG              | DESCRIPTION        | DESIGNATION                       | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|------------------------|--------------------|-----------------------------------|--|
| 1                                | 1404220                            | 1                              | Dreharm                | Rotating Arm       | Bras rotatif                      |  |
| 2                                | 1404400                            | 1                              | Turm                   | Tower              | Tour                              |  |
| 2A                               | Z10-02-12                          | 6                              | Unterlegscheibe        | Flat Washer        | Rondelle plate                    | M12  |
| 2B                               | Z26-084S                           | 3                              | Sechskant-Set          | Hex Set            | Vis de régl. Hex                  | M12 x 40mm   |
| 2C                               | Z23-12                             | 3                              | Feststellmutter        | Locknut            | Contre-écrou                      | M12  |
| 2D                               | Z26-1291S                          | 1                              | Sechskant-Set          | Hex Set            | Vis de régl. Hex                  | M16 x 80mm   |
| 2E                               | Z18-16                             | 1                              | Sechskantmutter, glatt | Plain Hex Nut      | Écrou plein Hex                   | M16  |
| 2F                               | Z23-16                             | 1                              | Feststellmutter        | Locknut            | Contre-écrou                      | M16  |
| 3                                | 1404010                            | 1                              | Kettenrad              | Sprocket           | Pignon                            | 36 T 1" BS   |
| 3A                               | Z28-008                            | 3                              | Gewindestift           | Grub Screw         | Vis sans tête                     | M8 x 10mm  |
| 4                                | 1809010                            | 1                              | 6-Wege-Schleifring     | 6 Way Slip Ring    | Bague collectrice 6 voies         |  |
| 4A                               | Z10-02-05                          | 3                              | Unterlegscheibe        | Flat Washer        | Rondelle plate                    | M5   |
| 4B                               | Z13-022                            | 3                              | CSK-Inbuskopf-Set      | CSK Allen Head Set | Vis noyée à tête à six pans creux | M5 x 20mm  |
| 4C                               | Z23-05                             | 3                              | Feststellmutter        | Locknut            | Contre-écrou                      | M5   |
| 4D                               | 1403119                            | 1                              | Schleifringbügel       | Slip Ring Bracket  | Support de bague collectrice      |  |
| 4E                               | Z10-02-10                          | 1                              | Unterlegscheibe        | Flat Washer        | Rondelle plate                    | M10  |
| 4F                               | Z26-0611S                          | 1                              | Sechskant-Set          | Hex Set            | Vis de régl. Hex                  | M10 x 25mm   |
| 4G                               | Z23-10                             | 1                              | Feststellmutter        | Locknut            | Contre-écrou                      | M10  |
| 5                                | Z09-AW9                            | 1                              | Kette                  | Chain              | Chaîne                            | 1" BS  |
| 5A                               | 1404450                            | 1                              | Kettenschutz           | Chain Guard        | Carter de chaîne                  |  |
| 5B                               | Z10-02-10                          | 2                              | Unterlegscheibe        | Flat Washer        | Rondelle plate                    | M10  |
| 5C                               | Z23-10                             | 2                              | Feststellmutter        | Locknut            | Contre-écrou                      | M10  |
| 5D                               | Z18-10                             | 2                              | Sechskantmutter, glatt | Plain Hex Nut      | Écrou plein Hex                   | M10  |

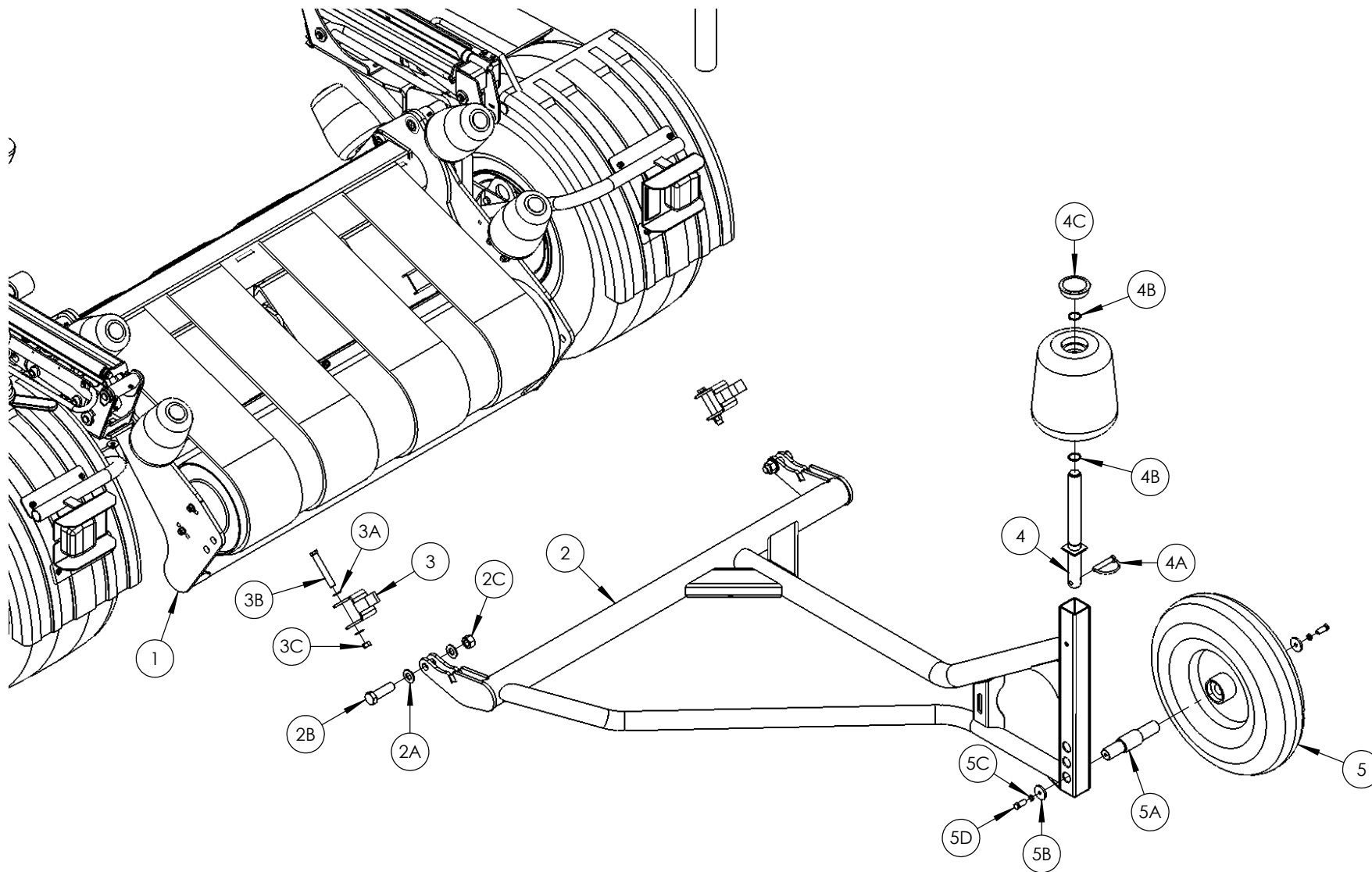
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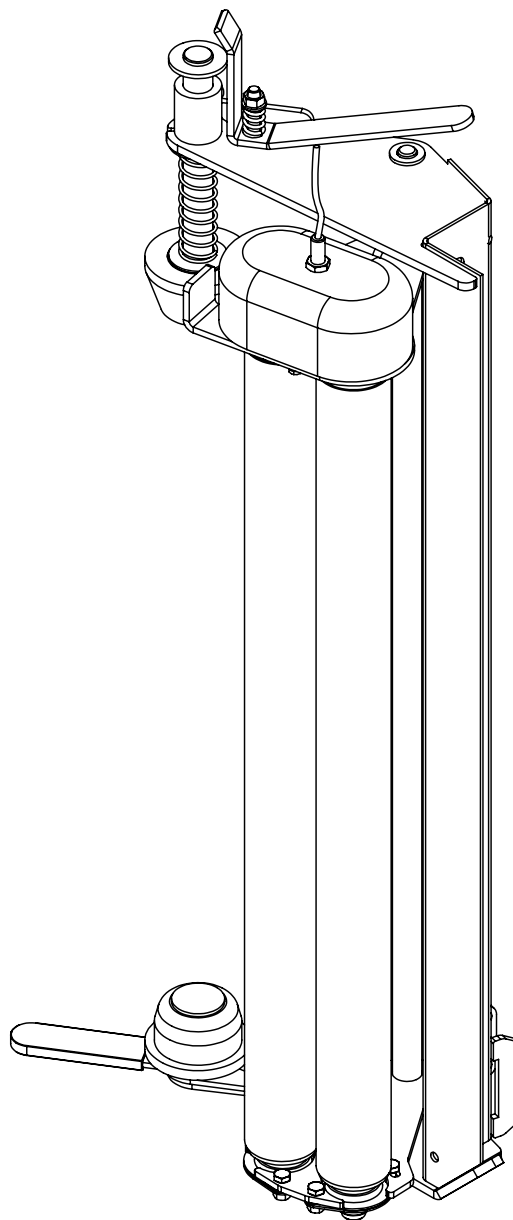


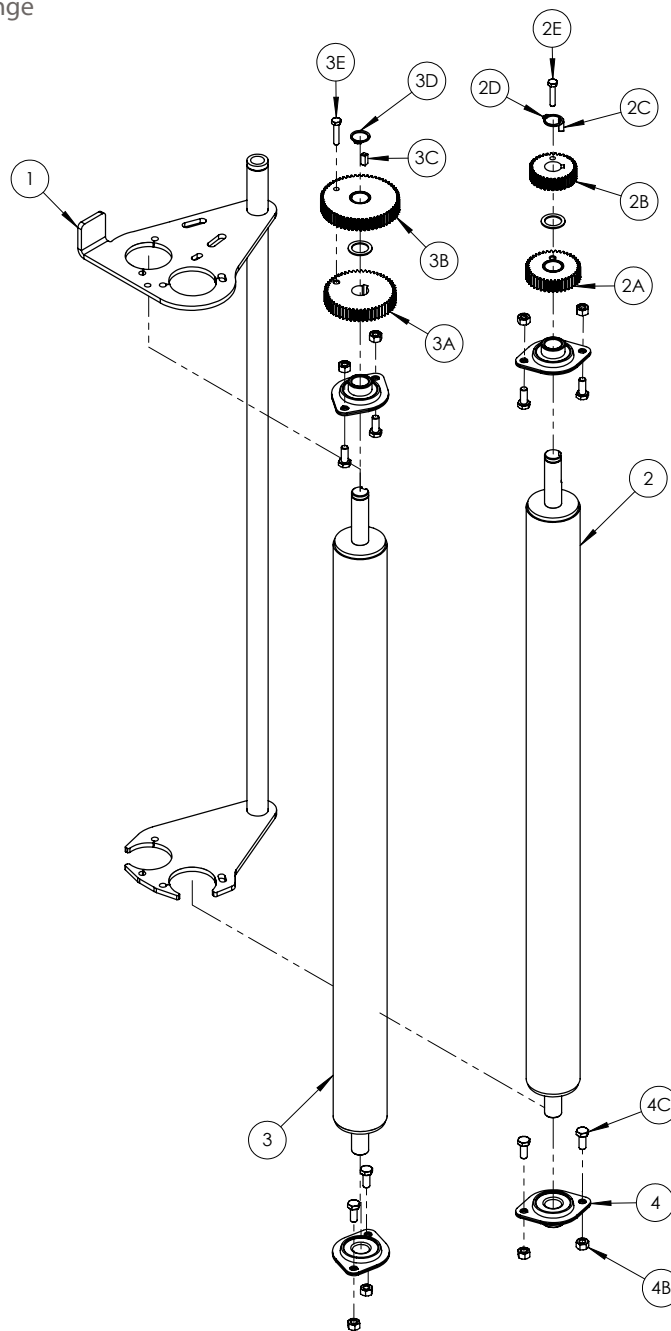
| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG              | DESCRIPTION          | DESIGNATION               | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|------------------------|----------------------|---------------------------|--|
| 1                                | 1403450                            | 1                              | Tisch – Abladerahmen   | Table - Unload Frame | Bâti Déchargement – Table |  |
| 2                                | 1407050                            | 1                              | Ballenaufstellrahmen   | End Tip Frame        | Châssis d'extrémité       |  |
| 2A                               | Z10-02-20                          | 4                              | Unterlegscheibe        | Flat Washer          | Rondelle plate            | M20  |
| 2B                               | Z26-166B                           | 2                              | Sechskant-Set          | Hex Set              | Vis de régl. Hex          | M20 x 75mm   |
| 2C                               | Z23-20                             | 2                              | Feststellmutter        | Locknut              | Contre-écrou              | M20  |
| 3                                | 1407030                            | 2                              | Arretierbügel          | Stop Bracket         | Support de butée          |  |
| 3A                               | Z10-02-12                          | 4                              | Unterlegscheibe        | Flat Washer          | Rondelle plate            | M12  |
| 3B                               | Z26-092B                           | 2                              | Sechskantschraube      | Hex Bolt             | Boulon Hex                | M12 x 100mm  |
| 3C                               | Z23-12                             | 2                              | Feststellmutter        | Locknut              | Contre-écrou              | M12  |
| 4                                | 1407015                            | 1                              | Ballenwalzenwelle      | Bale Roller Shaft    | Arbre du rouleau de balle |  |
| 4A                               | Z03-22-07                          | 1                              | Gebogener Klappstecker | Curved Linch Pin     | Clavette d'essieu courbe  | 3/8"   |
| 4B                               | 34240708                           | 2                              | Seegerring             | Cir Clip             | Circlip                   | 30mm   |
| 4C                               | 34450447                           | 1                              | Plastikkappe           | Plastic Cap          | Capuchon plastique        |  |
| 5                                | 1407025                            | 1                              | Rad                    | Wheel                | Roue                      |  |
| 5A                               | 1407021                            | 1                              | Radwelle               | Wheel Shaft          | Axe de roue               |  |
| 5B                               | WD623-071                          | 2                              | Ring                   | Collar               | Collier                   | 1 1/2"   |
| 5C                               | Z12-02-10                          | 2                              | Federscheibe           | Spring Washer        | Rondelle à ressort        | M10  |
| 5D                               | Z26-062S                           | 2                              | Sechskant-Set          | Hex Set              | Vis de régl. Hex          | M10 x 30mm   |

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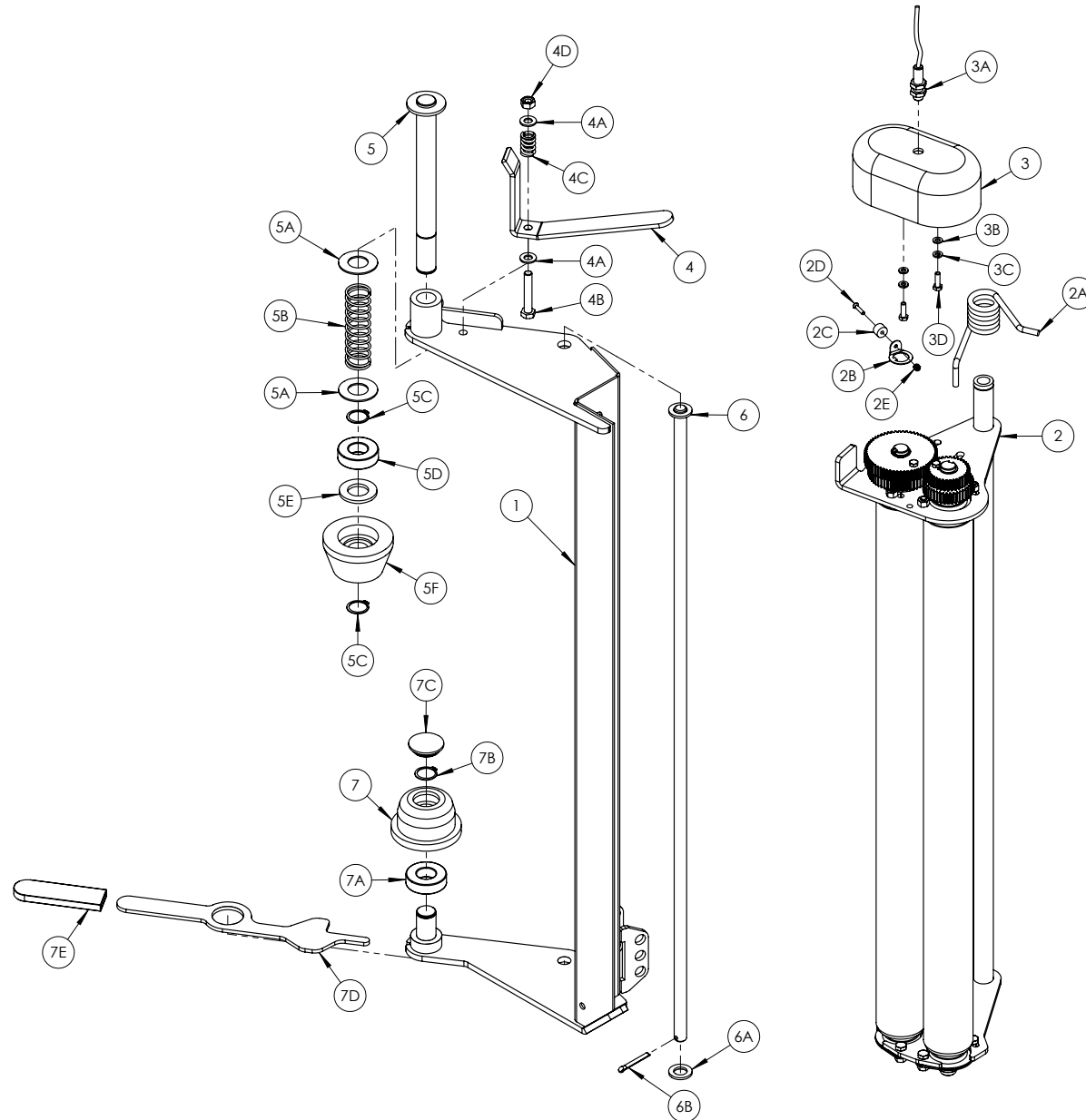
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| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG            | DESCRIPTION              | DESIGNATION                       | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|----------------------|--------------------------|-----------------------------------|--|
| 1                                | 1505001                            | 1                              | RA Walzenanbaurahmen | RA Roller Mounting Frame | Cadre de fixation des rouleaux RA |  |
| 2                                | 1305120                            | 1                              | Walze, innen         | Inner Roller             | Rouleau intérieur                 |  |
| 2A                               | 1305104                            | 1                              | Zahnrad              | Gear                     | Engrenage                         | 37 T   |
| 2B                               | 1305102                            | 1                              | Zahnrad              | Gear                     | Engrenage                         | 35 T   |
| 2C                               | 1305123                            | 1                              | Keilstahl            | Key Steel                | Clavette acier                    | 6 x 6 x 15mm   |
| 2D                               | Z28-520                            | 1                              | Seegerring           | Cir Clip                 | Circlip                           | A20  |
| 2E                               | Z26-022S                           | 1                              | Sechskant-Set        | Hex Set                  | Vis de régl. Hex                  | M6 x 30mm  |
| 3                                | 1305121                            | 1                              | Außenwalze           | Outer Roller             | Rouleau extérieur                 |  |
| 3A                               | 1305101                            | 1                              | Zahnrad              | Gear                     | Engrenage                         | 60 T   |
| 3B                               | 1305103                            | 1                              | Zahnrad              | Gear                     | Engrenage                         | 58 T   |
| 3C                               | 1305123                            | 1                              | Keilstahl            | Key Steel                | Clavette acier                    | 6 x 6 x 15mm   |
| 3D                               | Z28-520                            | 1                              | Seegerring           | Cir Clip                 | Circlip                           | A20  |
| 3E                               | Z26-022S                           | 1                              | Sechskant-Set        | Hex Set                  | Vis de régl. Hex                  | M6 x 30mm  |
| 4                                | 1305122                            | 4                              | Lager                | Bearing                  | Palier                            | SLFL 20A   |
| 4A                               | Z26-039S                           | 8                              | Sechskant-Set        | Hex Set                  | Vis de régl. Hex                  | M8 x 20mm  |
| 4B                               | Z23-08                             | 8                              | Sicherungsmutter     | Locknut                  | Contre-écrou                      | M8   |



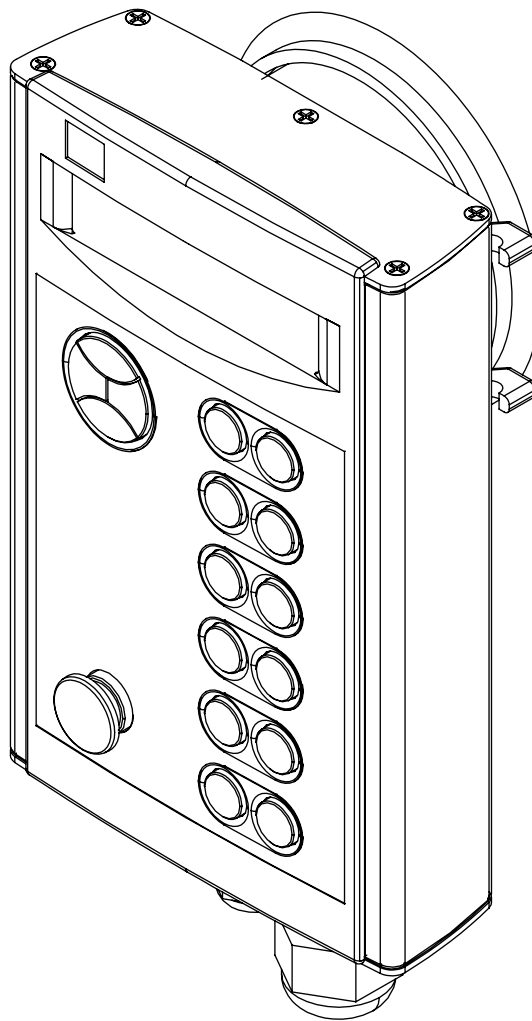
| POS. NR.<br>POS. NR.<br>POS. NO. | TEILE NR.<br>PART NR.<br>PIECE NO. | STUCK<br>QUANTITY<br>QUANTITEE | BENENNUNG   | DESCRIPTION                   | DESIGNATION                          | TECHNISCHE ANGABEN<br>TECHNICAL DATA<br>DONNEES TECHNIQUES |
|----------------------------------|------------------------------------|--------------------------------|---|-------------------------------|--------------------------------------|--|
| 1                                | 1405100                            | 1                              | Vorstrecker Standardrahmen                        | Standard Dispenser Frame      | Cadre distributeur standard          |  |
| 2                                | 1305100B                           | 1                              | Einsatzbaugruppe                                  | Insert Assembly               | Insert                               | 70/55%   |
| 2A                               | 1305034                            | 1                              | Torsionsfeder                                     | Torsion Spring                | Ressort de torsion                   |  |
| 2B                               | WD404-052                          | 1                              | Magnetmontagebügel                                | Magnet Bracket                | Support de l'aimant                  |  |
| 2C                               | D606C-M                            | 1                              | Sensormagnet                                      | Sensor Magnet                 | Aimant de capteur                    |  |
| 2D                               | Z13-5-04X20                        | 1                              | Inbussenkopf-Set                                  | Countersunk Allen Head Set    | Vis noyée à tête à six pans creux    | M4 x 20mm  |
| 2E                               | Z23-04                             | 1                              | M4 Sicherungsmutter                               | M4 Locknut                    | Contre-écrou M4                      |  |
| 3                                | 1305125                            | 1                              | Zahnraddeckel                                     | Gear Cover                    | Carter d'engrenage                   |  |
| 3A                               | 1309203                            | 1                              | Sensorkabel                                       | Sensor Cable                  | Câble capteur                        | 4Mtr   |
| 3B                               | Z10-02-06                          | 2                              | Unterlegscheibe, flach                            | Flat Washer                   | Rondelle plate                       | M6   |
| 3C                               | Z12-02-06                          | 2                              | Federring   | Spring Washer                 | Rondelle à ressort                   | M6   |
| 3D                               | Z26-0205                           | 2                              | Sechskant-Set                                     | Hex Set                       | Vis de régl. Hex                     | M6 x 20mm  |
| 4                                | 1305026                            | 1                              | Arretierung, oben                                 | Top Latch                     | Loquet supérieur                     |  |
| 4A                               | Z10-02-10                          | 2                              | Unterlegscheibe, flach                            | Flat Washer                   | Rondelle plate                       | M10  |
| 4B                               | Z26-067B                           | 1                              | Sechskantschraube                                 | Hex Bolt                      | Boulon Hex                           | M10 x 60mm   |
| 4C                               | 1305027                            | 1                              | Druckfeder  | Compression Spring            | Ressort à compression                |  |
| 4D                               | Z23-10                             | 1                              | Sicherungsmutter                                  | Locknut                       | Contre-écrou                         | M10  |
| 5                                | 1305022                            | 1                              | Obere Welle                                       | Top Shaft                     | Arbre supérieur                      |  |
| 5A                               | Z11-02-25                          | 2                              | Unterlegscheibe, flach (niedrige Beanspruchung)   | Flat Washer (Light Duty)      | Rondelle plate (travail léger)       | M25 L.D.   |
| 5B                               | 1305021                            | 1                              | Druckfeder  | Compression Spring            | Ressort à compression                |  |
| 5C                               | Z28-525                            | 2                              | Seegerring  | Circlip                       | Circlip                              | Ext. M25   |
| 5D                               | Z06-AWRB                           | 1                              | Lager   | Bearing                       | Palier                               | 6205-ZZ LDK  |
| 5E                               | Z10-02-25                          | 1                              | 25 mm Unterlegscheibe, flach (hohe Beanspruchung) | 25mm Flat Washer (Heavy Duty) | Rondelle plate 25 mm (travail lourd) |  |
| 5F                               | 1305019                            | 1                              | Nylonkonus  | Nylon Cone                    | Cône en nylon                        |  |
| 6                                | 1405007                            | 1                              | Einsatz, Montagestift                             | Insert Mounting Pin           | Goupille de fixation de l'insert     |  |
| 6A                               | Z10-02-16                          | 1                              | Unterlegscheibe, flach                            | Flat Washer                   | Rondelle plate                       | M16  |
| 6B                               | Z03-21-14                          | 1                              | Sicherungssplint                                  | Split Pin                     | Goupille fendue                      | 3/16" x 1 1/2"   |
| 7                                | 1405006                            | 1                              | Nylonkonus, unten                                 | Bottom Nylon Cone             | Cône en nylon inférieur              |  |
| 7A                               | Z06-AWRB                           | 1                              | Lager   | Bearing                       | Palier                               | 6205-ZZ LDK  |
| 7B                               | Z28-525                            | 1                              | 25 mm externer Seegerring                         | 25mm External Circlip         | Circlip extérieur 25 mm              | Ext. M25   |
| 7C                               | Z32-15F                            | 1                              | Kunststoffkappe                                   | Plastic Cap                   | Capuchon plastique                   | 37mm   |
| 7D                               | 2005005                            | 1                              | Entriegelungsbügel                                | Release Bracket               | Ergot de dégagement                  |  |
| 7E                               | Z32-165                            | 1                              | Plastikgriff                                      | Plastic Grip                  | Embout plastique                     |  |

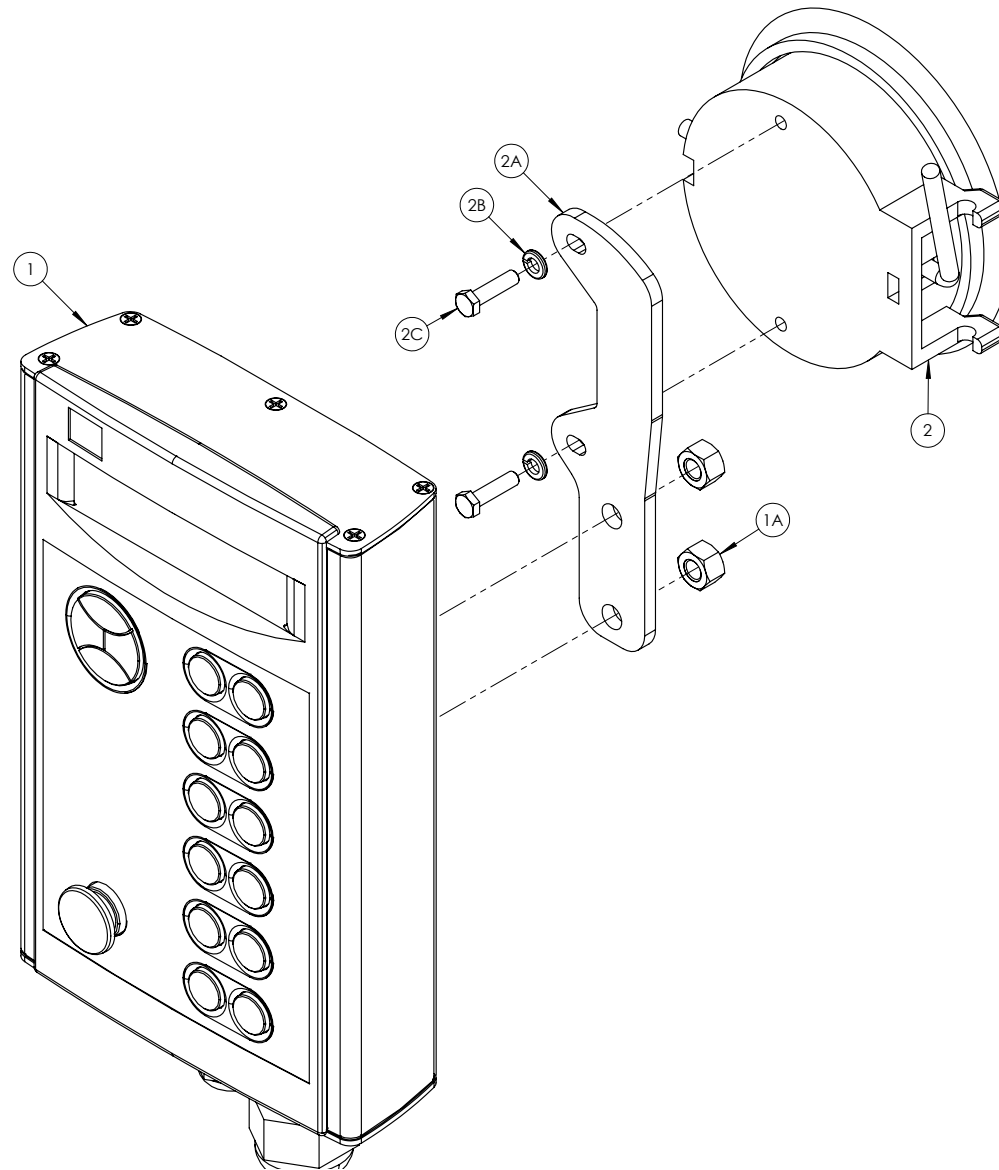


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| POS. NR. | TEILE NR. | STUCK     | BENENNUNG                    | DESCRIPTION                  | DESIGNATION                     | TECHNISCHE ANGABEN |
|----------|-----------|-----------|------------------------------|------------------------------|---------------------------------|--------------------|
| POS. NR. | PART NR.  | QUANTITY  |                              |                              |                                 | TECHNICAL DATA     |
| POS. NO. | PIECE NO. | QUANTITEE |                              |                              |                                 | DONNEES TECHNIQUES |
| 1        | 1309006*  | 1         | RA Expert Steuereinheit      | RA Expert Control Unit       | Contrôleur Expert RA            |                    |
| *        | 1409100   | -         | 1400 EH Steuer-Set, komplett | 1400 EH Complete Control Kit | Kit de commande complet 1400 EH |                    |
| 1A       | Z23-08    | 2         | Sicherungsmutter             | Locknut                      | Contre-écrou                    | M8                 |
| 2        | 1309012   | 1         | Saugnapf                     | Suction Cup                  | Ventouse                        |                    |
| 2A       | 1309011   | 1         | Montagebügel                 | Mounting Bracket             | Support de fixation             |                    |
| 2B       | Z12-02-05 | 2         | Federring                    | Spring Washer                | Rondelle à ressort              | M5                 |
| 2C       | Z26-017S  | 2         | Sechskant-Set                | Hex Set                      | Vis de régl. Hex                | M5 x 20mm          |