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Table of contents

| 1 EC conformity declaration | 1 |
|---|---|
| 2 Conditions | 2 |
| Explanation of symbols | 2 |
| 3 Personal Safety | 3 |
| 4 Use and function | 5 |
| Bale size | 5 |
| Worth knowing | 6 |
| 5 Transport | 7 |
| Lashing | 7 |
| Centre of gravity | 8 |
| The baler should not be put down on its side | 9 |
| Transport when using a fork-lift truck, etc. | 9 |
| Transport when using a crane | 0 |
| Moving an installed baler 10 | 0 |
| 6 Installation | 1 |
| Indoor or outdoor location | 1 |
| Clearances and working area12 | 2 |
| Connection1 | 3 |
| Single phase motor with socket | 3 |
| Three phase motor with socket | 3 |
| Three phase motor without phase inverter / socket | 4 |
| 7 Cords, straps, or steel wire | 5 |
| 8 Operating principles | 6 |
| Power interruption 10 | 6 |
| Emergency stop | 6 |
| The start button | 6 |
| Two-hand control | 6 |
| The bale ejection is blocked | 6 |
| Additional functions | 7 |
| 9 The Operating Panel | 8 |
| Description | 8 |
| Push buttons with light signal | 8 |
| The function of the push buttons19 | 9 |



| 10 Mounting cords, straps, or steel wire | 20 |
|---|----|
| Models with cords and straps in front of the machine, principle 1 | 20 |
| Models with cords and straps in front of the machine, principle 2 | 22 |
| Models with cords or straps behind the machine | 24 |
| Steel wire | 26 |
| 11 Filling and compression | 27 |
| Distribution of waste | 27 |
| Compression | 27 |
| Finishing the bale prematurely | 28 |
| Cancelling of finishing the bale prematurely | 28 |
| 12 Binding | 29 |
| Cords or straps | 29 |
| Steel wire with a diameter of up to 2.5 mm | 31 |
| Steel wire with a diameter of 3 mm | 33 |
| 13 Ejecting the bale | 36 |
| 14 Maintenance | 38 |
| Daily check | 38 |
| Weekly check | 38 |
| Biannual check | 39 |
| Annual check | 39 |
| Damage to paintwork | 39 |
| Cleaning | 40 |
| Ordering spare parts | 40 |
| Disposal | 40 |
| 15 Troubleshooting | 41 |
| The baler cannot start | 41 |
| The baler cannot start and the start button is flashing | 42 |
| The baler is very noisy | 42 |
| The baler cannot eject the bale | 42 |
| Leakage | 42 |
| 16 Checklist for safety check | 43 |
| 17 Spare parts | 46 |
| 18 Electrical diagram (located in switch box) | |
| 19 Hydraulic diagram (located in switch box) | |

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EC Declaration of Conformity R205-F

Hereby declares that

Machine: Bale press belonging to B-series

| Model | B20 | B20 VD | B30 | B30 VD | B30 W | |
|-------|-----|--------|-----|--------|-------|------|
| Туре | PVM | PVM | PVF | PVF | PBA | |
| | | | | | | |
| Model | | | | | | |
| Туре | | | | | | |

was manufactured in conformity with:

- The provisions in the Machinery Directive 2006/42/EC as amended, with special reference to Annex II, A and Annex I on essential safety and health requirements in relation to the construction and manufacture of machines.
- The provisions in the EMC Directive 2004/108/EC as amended.
- The following standards:

EN 16500 Vertical baling presses, safety requirements

EN 61000-6-2 EMC

EN 61000-6-3 EMC

EN 60204-1 Electric equipment on machines

Note

Bramidan bale presses are designed to be set up as stand-alone machines, and must not be connected with other machinery without a new risk assessment and CE marking.

The baler must not be used for compressing wet or oily material, foam rubber, and other strong expanding materials.

The baler must not be used for explosive or inflammable waste.

| COLUITION | uic | above | formation |
|-----------|-----|-------|---------------|

01.07.2015

Date

Einer Christensen

Technical manager Ejnar C. Christensen





2 Conditions

It is important to read through the operating instructions before the work begins. Pay particular attention to the safety instructions, which are intended to protect the operator. The operating instructions are well illustrated, so you can quickly become familiar with the baler.

No special training is required. The company that uses the baler, (Hereafter called "the company"), shall ensure that the operator has read and understood the operating instructions and can operate the baler safely.

The quality of the baler is constantly controlled during production, and the baler will not be supplied to a consumer until a final inspection has been carried out. If, contrary to expectation, the product should be in any way faulty or missing any part, we request that you contact the dealer so that the problem can be resolved immediately.

The terms of the warranty will not apply to wear and tear of the baler, or if the parts are deemed to have been subject to negligence or incorrect use.

The contents must not be photocopied, reproduced or translated, either wholly or in part, without the prior agreement of the manufacturer.

The manufacturer declines all responsibility with regard to compensation for injury as a result of a person disregarding the safety regulations in these instructions.

Explanation of symbols



Electric current warnings are denoted by warning triangles in the margins of these instructions.



General warnings are denoted by warning triangles in the margins of these instructions.



Topics to which the reader must pay special attention are denoted by a special symbol – "a hand" – in the margins of these instructions.





3 Personal Safety

It is the company's responsibility to ensure that the appropriate laws and regulations of the country are complied with in connection with working with the baler. The company shall ensure that the operator has read and understood the operating instructions, see chapter 2, Conditions.

It is the operator's responsibility to have read and understood the operating instructions so the baler can be safely operated. It is also the operator's responsibility to perform daily inspections of the baler. Thus, the operator must ensure that any defects are repaired, so that neither the operator or others are exposed to danger, see chapter 14, Maintenance, Daily check.

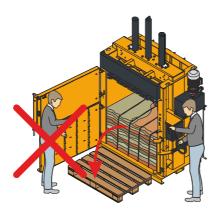
The baler may have a relatively high centre of gravity even if the platen is lowered, and therefore may tip during transport, see chapter 5, Transport.

Repair and servicing must only be performed by authorized personnel who possess the necessary knowledge and understanding of the subject, see chapter 6, Installation and chapter 14, Maintenance.

Installation and connection of the baler must occur in accordance with chapter 6, Installation, Connection.



• The baler must only be operated by one person. Only the operator may remain in the baler's working area when the bale is ejected. See chapter 6, Installation, Clearances and working area.



- The main door must be open to at least 90° before bale-ejection.
- The working area must be orderly and free of waste, etc.
- The baler must not be used if the safety features are incapacitated, defective, or in any way not working anymore.
- Only use cords, straps, or steel wires that are recommended by the dealer of the baler, see chapter 7, Cords, straps, or steel wire.
- Binding with steel wire can pose a risk of tearing hands and clothes. Steel wire may be slightly
 difficult to handle, since it is not so easy to bend. Therefore, exercise extra caution and
 always be aware of both ends of the steel wire at the same time. We therefore recommend
 using eye protection and gloves.





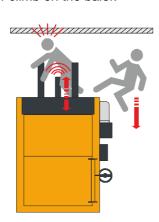


 When handling the bale, it is recommended that you use gloves, as there may be sharp objects concealed in the waste.



- The baler must not be used for compressing wet or oily material, foam rubber, and other strong expanding materials. An example of strong expanding materials could be plastic rolls or the equivalent, which would build up strong spring forces during compression. Another example could be bubble wrap or anything with air trapped inside.
- The baler must not be used with explosive and inflammable materials, see chapter 11, Filling and compression.
- Operation of the baler must always occur in accordance with the local regulations for use of technical equipment (machines), which may vary from country to country.
- It is recommended to use original spare parts.
- Avoid coming in contact with hydraulic oil through inhalation or skin contact.
- The hydraulic oil may be hotter than 70° C, and can therefore cause scalding.
- A jet from a hydraulic hose may cause serious damage to skin and eyes.
- Never climb on the baler.









4 Use and function

The baler is intended for compressing cardboard and plastic or other forms of dry waste with a similar consistency, see the table:

| Waste type | B-series | X-series |
|---|----------|----------|
| Cardboard ¹ | • | • |
| Plastic in soft materials, dry (LDPE) | • | • |
| Plastic bottles, dry (PET) ² | | • |
| Plastic, dry (HDPE, PP, PS) | | • |
| Plastic, dry (PVC) | | • |
| Paper ³ | • | • |
| Plastic cans | | • |



Note 1: Untied, solid lumps, cardboard tubes etc.

Note 2: Only perforated bottles or cans without lids.

Note 3: Only loose sheets, not bundled or solid lumps.

If you want to compress special waste materials, please contact your dealer or the manufacturer directly for advice beforehand to enquire whether the materials you wish to compress might overload the baler.



Important!

The baler must not be used for compressing wet or oily material, foam rubber, and other strong expanding materials.

An example of strong expanding materials could be plastic rolls or the equivalent, which would build up strong spring forces during compression. Another example could be bubble wrap or anything with air trapped inside.

Never place long items upright, place them horizontally, or at least diagonally in the baler.

The baler must not be used for explosive and inflammable waste.

Bale size:

The bale size is set at the factory. The bale size may be permanently changed if necessary. Contact the dealer for more information.

It is possible to change the bale's size individually from time to time with a single press on the finish indicator button. See chapter 11, Filling and compression, Finishing the bale prematurely.





Worth knowing:

The combination of solid construction and thought through safety equipment means that this baler can always be operated safely:

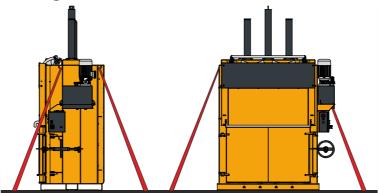
- The baler's operating panel is equipped with an emergency stop, which immediately stops the baler when activated.
- The light in the operating panel's buttons guides the operator through the different phases of the compression, see chapter 9, The Operating Panel.
- In order to activate the start button between each press cycle, the filling door must be opened and closed. This is due to the door switch's monitoring of the baler, and prevents intentional evasion of the safety system.
- The press functions are deactivated when you open the door, and can only be activated when the doors are closed again.
- For models with automatic doors, the closing movement stops immediately and the doors open up by returning to the starting position if something gets stuck.
- For models with ejection systems, the ejection is only operable via a two-handed operation, where there must be a simultaneous constant pressure within a time interval of ½ second. This ensures that the operator is not standing in front of the bale when it is tipped out of the chamber. In addition, the operator or someone else has a view of the baler's working area, and can thus ensure that others are not exposed to danger.
- The baler cannot eject the bale before the doors are open, which prevents accidental use of the baler.
- The baler's moving parts are secured with covers.



5 Transport



Lashing:



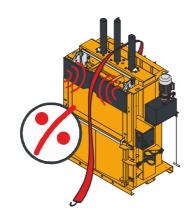
The baler must be securely lashed during transport.





Lashing must only occur in the lashing brackets, or in the oval holes on the top frame of the baler.





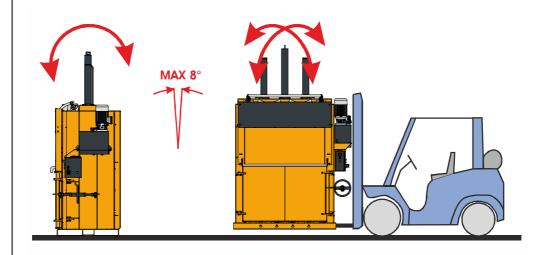
Never lash over "free standing" screens that can be deformed by the load. The screens are marked with a warning label on the packaging.



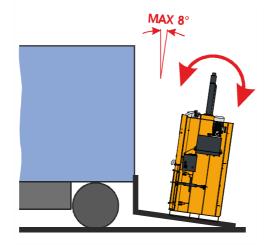


Centre of gravity:

Due to the baler's relatively high centre of gravity, cautious transportation is required. The baler must never lean more than 8° during transport.



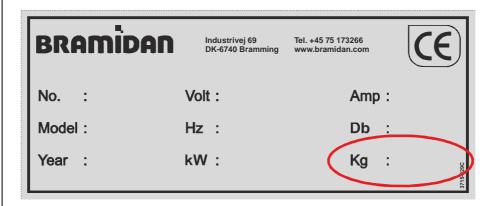




Never lift the baler higher than strictly necessary, and be especially aware when transporting over sloping surfaces, such as loading ramps. The baler must never lean more than 8° during transport.



The lifting equipment must be designed for lifting the weight of the baler. The baler's weight appears on the nameplate on the baler.





Always use the safety equipment required by law in connection with transport. Never lift anything directly above people or animals.



The baler should not be put down on its side:

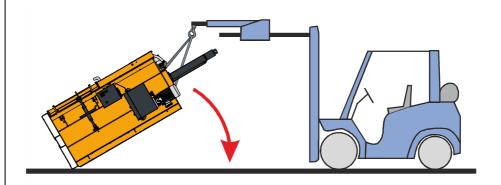
If it is necessary to put the baler on its side, do the following:

The oil tank's original plug must be replaced with an airtight plug, so the oil does not escape. Alternatively, the oil is drained from the system. The oil level in the tank is shown in the table chapter 14 Maintenance, Biannual check.



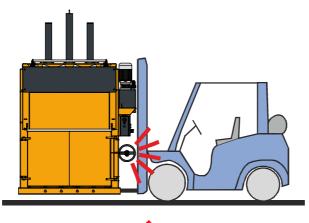
When the baler is in place, it is important to mount the original plug again before the baler is started. The airtight plug causes pressure to build up during operation, so that the oil tank cracks.

When the baler is laid on its side, attach the baler in the same way as when lifting it using a crane. A truck with a crane hook can assist with safe tilting.

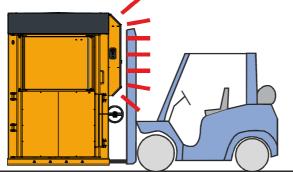


Transport when using a fork-lift truck, etc.:

When using a fork-lift truck, be careful to avoid damaging spindles (handwheel) and screens. Spindles (handwheel) and screens are marked with a warning label on the packaging.



When driving, the fork-lift truck must never exceed 0.5 meters above the ground. The baler's base is designed so that it can't tip off the fork of a fork-lift truck.



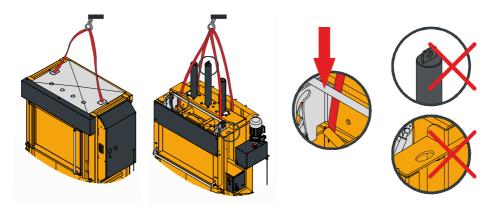




Transport when using a crane:

When using a crane, the lifting gear must be hooked through the two holes at the top of the baler's top. Do not use the eye on the top of the steering rod or the oval holes on the top frame of the baler for gripping!

In models where this is not available, place a round sling around the sidepieces at the top of the baler. Make sure that the sling does not deform the brackets on the vertical door.



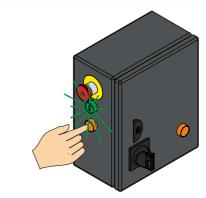


Moving an installed baler:

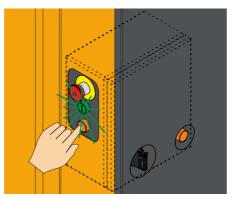
All parts must be removed, and the chamber must be empty of material and other loose items.

The platen must be brought all the way down to the bottom position, so the centre of gravity is moved as far down as possible. This is done by pressing the orange finish indicator button.

B-series



X-series



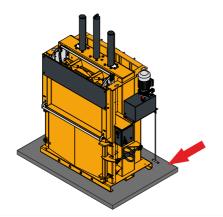


6 Installation

The baler fulfils the applicable EU requirements on electromagnetic interference, and may be installed in both residential and industrial environments.

The baler's noise level is initially less than 70dBA. If the baler's noise level exceeds 70dBA, this will appear on the nameplate on the baler.

The noise level is measured based on an operator's position during the baler's operation, about 1 metre from the operation and at a height of 1.6 metres.



In order to reduce vibrations that may occur during operation, the baler can be placed on a thick, soft rubber mat.

The baler is designed for temperatures between 0-35° and a humidity of between 10-90%.

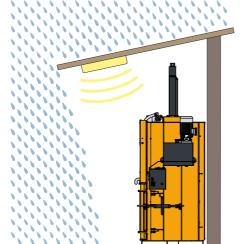
- When installing in colder environments, a special artic oil should be used (optional equipment).
- When installing in warmer environments, a cooling system should be mounted on the hydraulic system (optional equipment).

Indoor or outdoor location:

The baler is designed to be indoors in a dry room on a flat, stable floor.

If the baler is placed on, for example, wood flooring, horizontal divisions, etc., the baler's own weight, plus the weight of the compressed waste must be taken into account.





If the baler is placed outdoors, the baler must at least be placed under a canopy. The canopy should be able to protect the baler from all types of precipation, such as rain squalls.

With outdoor placement, you must expect a reduction of the baler's lifespan as well as the need for more frequent servicing.

Make sure that there is suitable lighting, so that the baler can be operated without risk.

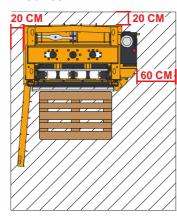




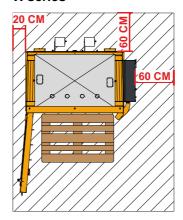
Clearances and working area:

The baler is placed so that it is possible to replace the binding material behind the chamber on certain models. The baler's left side should be placed at least 20 cm from the wall, so the doors can be opened the necessary 90°.

B-series

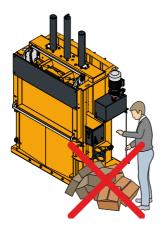


X-series





The working area must be orderly and free of waste, etc.



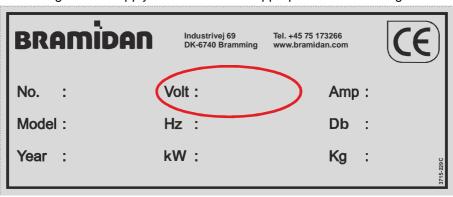




Connection:

Before the baler is connected to the supply network, check whether the electric motor is single or three phase. This appears on the nameplate on the baler. If the motor is single phase, it will say, for example 1x230 Volt under "Supply", and if the motor is three phase, it will say, for example, 3x400 Volt.

The voltage of the supply network must be appropriate for the configuration of the baler.



Single phase motor with socket:

Before connecting the baler, you must visually ensure that the supply network looks secure, and that there are no defects, loose parts, etc.

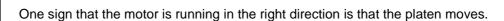


The socket replaces the repair switch in accordance with applicable rules. Therefore, there must always be easy access to the socket, so the power can be interrupted again.

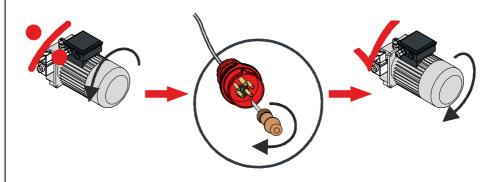
Three phase motor with socket:

Before connecting the baler, you must visually ensure that the supply network looks secure, and that there are no defects, loose parts, etc.

Check the direction of rotation of the electric motor during startup: it must rotate clockwise. The hydraulic pump is generally unable to run in the wrong direction without sustaining damage. Therefore, start the baler for a short time (2–5 seconds) to check this.



If the motor rotates counterclockwise, the phase inverter is rotated in the socket. The phase inverter is pushed into the socket, and rotated with a screwdriver.





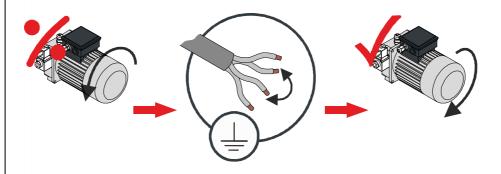




Three phase motor without phase inverter / socket:

If the socket does not contain a phase inverter, the socket must be opened and two phases replaced. This should only be performed by an authorized electrician who possesses the necessary knowledge and understanding. This also applies if the baler is delivered without a socket installed.

Before connecting the baler, the electrician must ensure that the voltage of the supply network is correct for the baler.



Bale press 6 Installation.fm • Page 14





7 Cords, straps, or steel wire

The composition of the bale and the baler's press pressure determine what type of cords, straps, or steel wire can be used.

Choice of cords, straps, or steel wire can be crucial for further handling of the bale. It is therefore advisable to contact the purchaser to hear about any possible benefits.

If you want to use steel wire for binding the bale, some balers must first be readjusted for this, see chapter 10, Mounting cords, straps, or steel wire.

Contact any dealer of the baler or supplier of cords, straps, or steel wire for more information.



8 Operating principles

Power interruption:

If power to the baler has been disconnected, the baler must be reset with a single push of the green start button. If this occurs during ejection of the bale, continue the process by pressing the two orange finish indicator buttons, which together constitute two-hand control. The buttons only light while being pressed.

Emergency stop:

If the emergency stop has been activated, it must be deactivated, after which the baler must be reset with a single push of the green start button.

Start button:



In order to activate the start button between each press cycle, the filling door must be opened and closed. This is due to the door switch's monitoring of the baler, and prevents intentional evasion of the safety system.

Two-hand control:

The two-hand control requires a simultaneous constant pressure within a time interval of ½ second.



The bale ejection is blocked:

There must not be any materials jammed in the ejection system, since this will prevent the baler from ejecting the bale. The ejection mechanism on the platen must be pushed completely forward, if it is pushed back, the jammed material must first be removed.



Additional functions:

The following functions are not installed when the machine leaves the factory, and require an adjustment of the actual control system. Contact the dealer for more information.

Automatic start:

The baler starts when the filling door is closed, and it is therefore unnecessary to start it by activating the green start button.

Multiple press cycles after each start:

When the baler is activated, the platen runs the required number of press cycles.

Pause in the top position:

The platen remains in the top position for the required length of time. There is no reason for this except when running with more than one cycle or for testing.

Pause in the lowest position:

The platen remains in the lowest position on the bale for the required length of time. This function can be used when it is known how frequently the baler is used, and an alternative is required to parking the platen on top of the bale (occasionally or permanently).

Parking the platen on the bale (permanent solution):

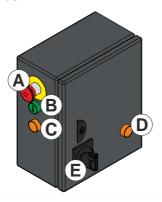
If you want a permanent solution where the platen parks on top of the bale every time in order to hold the pressure, for instance on expanding materials, the baler can be run with half press cycles.

To park the platen on the bale (occasionally) see chapter 9 The Operating Panel.



9 The Operating Panel Description:

B-series



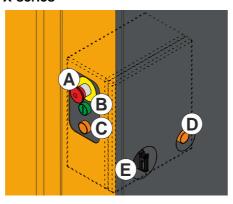
- D) Finish indicator button (orange)
- E) Repair switches (for padlock)



- A) Emergency stop (top)
- B) Start button (green)
- C) Finish indicator button (orange)

The two orange finish indicator buttons (C and D) together constitute the two-hand control.

X-series



- D) Finish indicator button (orange)
- E) Repair switches (for padlock)



- A) Emergency stop (top)
- B) Start button (green)
- C) Finish indicator button (orange)

The two orange finish indicator buttons (C and D) together constitute the two-hand control.

Push buttons with light signal:

The light in the operating panel's buttons guides the operator through the different phases of the compression. This means that the operator should only concentrate on the button(s) that are lit/blinking:

- · A green-lit start button indicates that the baler is ready.
- A green flashing start button indicates that the baler is awaiting action from the operator. See chapter 15, Troubleshooting.
- An orange-lit button indicates that the baler is ready to eject the bale.
- An orange flashing button indicates that the baler is ready to eject the bale, but is awaiting action from the operator.



The function of the push buttons:

Compression:

When the green start button is activated, the platen runs a cycle where the waste is compressed and the platen returns to the top position. For models with automatic doors, the door is automatically closed before the platen begins the cycle.

See chapter 11, Filling and compression.

Binding the bale:

When the orange finish indicator button illuminated/flashes, the bale has reached its maximum and the platen is parked on top of the bale. From this point forward it will not be possible to interrupt the process, which will be completed with binding and bale-ejection.

Bale size is set at the factory. The bale size can be permanently changed if necessary. Contact your dealer for more information.

See chapter 12, Binding.

Finishing the bale prematurely:

If you want to finish the bale before it has reached its maximum (before the finish indicator button is illuminated/flashes), this is done by pressing the orange finish indicator button for more than 3 seconds.

See chapter 11, Filling and compression, Finishing the bale prematurely.

Parking the platen on the bale (occasional):

If you want to occasionally park the platen on the bale in order to hold the pressure, such as for expanding materials, press the start button (B) for at least 3 seconds whilst the platen is on the way down.

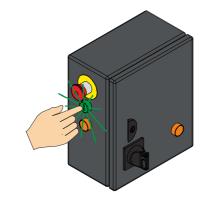
When the platen needs to be driven back to the top position, press the green start button once.

To park the platen on the bale (occasionally) see chapter 8 Operating Principles.



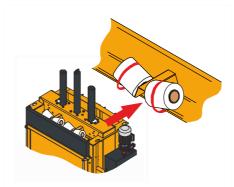
10 Mounting cords, straps, or steel wire Models with cords and straps in front of the machine, principle 1



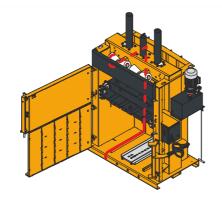


If the green start button is flashing, the baler must be reset by a single press of the green start button.

Press the green start button so the press cycle starts and the platen goes down. After about 5 seconds, the filling door opens and the baler stops.



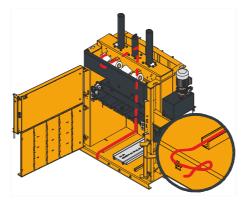
The cord/strap should be placed as shown in the illustration.



Open the doors.

The cord/strap is placed behind the chamber and behind the pin in the chamber's triangular recess.

The cord/strap is moved further down towards the chamber floor while being pressed in place in the corresponding bracket.

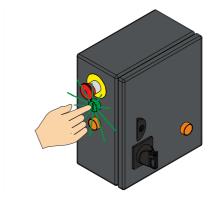


Make a loop at the end of the cord/strap.

The cord/strap is secured in the chamber's slot at a distance from the loop, as shown in the illustration.

Close the doors.





Press the green start button to complete the previously started press cycle.

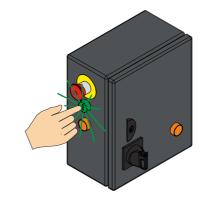
The platen returns to the top position and then runs a cycle.

See chapter 11, Filling and compression for further handling.



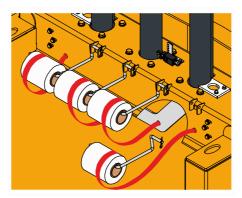
Models with cords and straps in front of the machine, principle 2





If the green start button is flashing, the baler must be reset by a single press of the green start button.

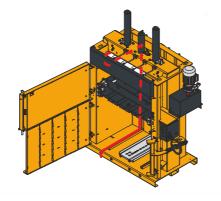
Press the green start button so the press cycle starts and the platen goes down. After about 5 seconds, the filling door opens and the baler stops.



The cord/strap should be placed as shown in the illustration.

The cord/strap on the two innermost rollers is drawn through the holes in the bracket.

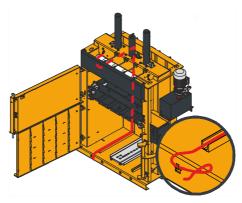
The cord/strap on the two outermost rollers is drawn through the holes in the chamber.



Open the doors.

The cord/strap is placed behind the chamber and behind the pin in the chamber's triangular recess.

The cord/strap is moved further down towards the chamber floor while being pressed in place in the corresponding bracket.

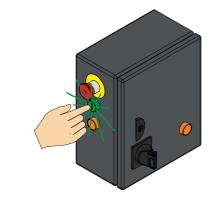


Make a loop at the end of the cord/strap.

The cord/strap is secured in the chamber's slot at a distance from the loop, as shown in the illustration.

Close the doors.





Press the green start button to complete the previously started press cycle.

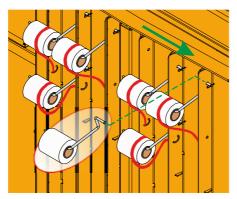
The platen returns to the top position and then runs a cycle.

See chapter 11, Filling and compression for further handling.



Models with cords or straps behind the machine

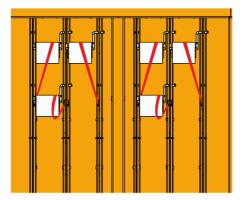




Place the brackets for cord or strap rolls in the holes at the back of the chamber in the triangular profiles and fasten them with a split pin.

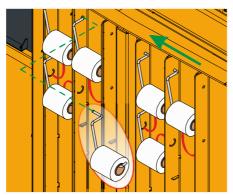
Straps

When strap rolls are used, place the brackets in the holes from left to right. This allows an air space between the chamber and the strap roll.



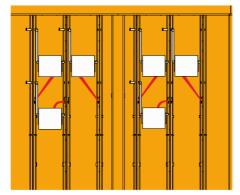
Draw the strap into the chamber through the holes as shown in the illustration.





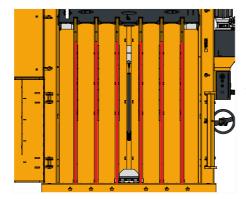
Cords

When cord rolls are used, place the brackets in the holes from right to left. This will lock the roll against the chamber so that the cord does not run off the roll.



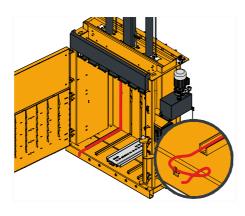
Draw the cord into the chamber through the holes as shown in the illustration.





Open the main door(s)

Pass the cord/strap down towards the chamber floor while pressing it into place in the corresponding bracket.



Make a loop at the end of the cord/strap.

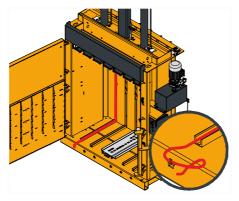
Secure the cord/strap in the chamber's slot at a distance from the loop, as shown in the illustration.

Close the main door(s).

See chapter 11, Filling and compression for further handling.



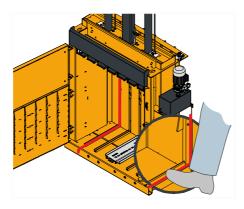
Steel wire



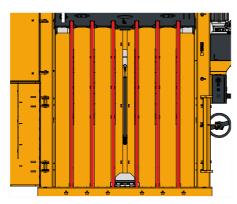
Open the doors.

If the steel wire is delivered without a loop on one end, make one.

Fasten the steel wire in the chamber's slot at a distance from the loop, as shown in the illustration.



Hold the steel wire with one hand while fitting the steel wire to the chamber's floor and back with your foot.



Draw the steel wire up along the triangular profiles and out at the top of the chamber between the back of the chamber and the top frame.

Close the doors.

See chapter 11, Filling and compression for further handling.





11 Filling and compression

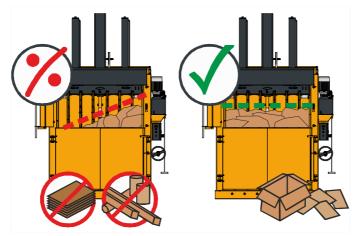
In order to avoid unnecessary damage to the press, we recommended you to read chapter 4, Use and function.

If the press is installed near children's activities, one should make sure before starting that the children are not using the chamber as a hiding place. This is a possibility that must not be overlooked.

Also bear in mind that small animals may be hiding in waste which has not yet been compressed.

Distribution of waste:





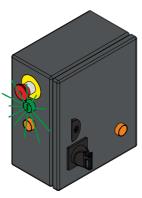
Fill the chamber with material and distribute this evenly.

Standard door: Close the door so the lock mechanism engages.

Vertical door: Slide the door downward until the lock mechanism engages.

Compression:





In order to activate the start button between each press cycle, the filling door must be opened and closed. This is because of the extra monitoring of the press by the door switch, and prevents intentional evasion of the safety system.



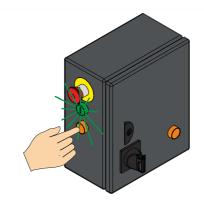
When the orange finish indicator button flashes, the bale has reached its maximum and the platen parks on top of the bale.

See chapter 12, Binding for further handling.



Finishing the bale prematurely:

If you want to finish the bale before it has reached its maximum (before the finish indicator button flashes), this is done as follows:



The platen must be in the top position, and green start button must be lit.

Press the orange finish indicator button for more than three seconds. (Finish indicator button does not light up).



The platen will go down and park on top of the bale. The orange finish indicator button now starts to flash.

See chapter 12, Binding for further handling.

Cancelling of finishing the bale prematurely:

If finishing of the bale is initiated, the process can be cancelled. Press the orange finish indicator button and let the platen go up/down until the green start button lights. The baler is now back in normal operation.

NB: If the bale has been completed and the finish signal shows automatically, the process cannot be interrupted.

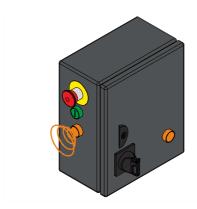




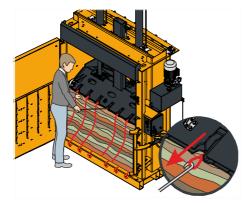
12 Binding

The press must always be operated in accordance with the local regulations for use of technical equipment (machines), which can vary from country to country.

Cords or straps



When the orange finish indicator button starts flashing, it is not possible to interrupt the process, which must be completed by binding and bale-ejection.

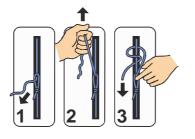


Open the filling door.

Then open the spindle (handwheel) and thus open the lower door.

Draw the cord or strap forward with the strap hook between the tracks of the platen. Cut the cord/straps to an appropriate length.

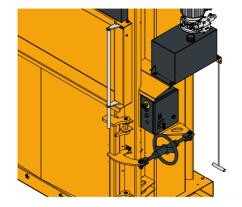
The cord/strap loops are released from the slots in front of the chamber.



Draw the trimmed cords or straps through the loops at the other end of the cord or strap and tighten by pulling upwards. Then finish off by tying a few knots.

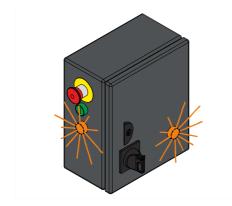
Bale press B-series





When the strap hook is not being used, place it in the hole as shown in the illustration.

The hole is not located in the same place on all presses.



See chapter 13, Ejecting the bale for further handling.

Bale press B-series 12 Afbinding.fm • Page 30



Steel wire

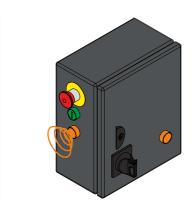
Applies to steel wire with a diameter of up to 2.5 mm



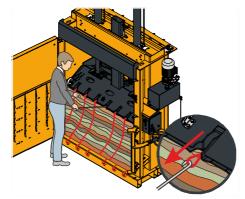




Exercise extra caution when working with steel wire and always be aware of both ends of the steel wire at the same time.



When the orange finish indicator button starts flashing, it is not possible to interrupt the process, which must be completed by binding and bale-ejection.

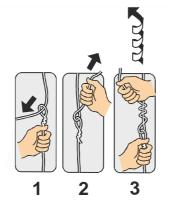


Open the filling door.

Open the spindle (handwheel) and thus open the lower door.

Pull the steel wire forward with the strap hook between the platen's tracks.

Release the steel wire loops from the slots in front of the chamber.

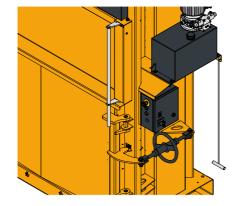


The ends of the steel wire are run through the loops and tightened by pulling upwards. Then, finish by winding the steel wire 3-4 times around the wire that is around the bale.

Avoid making hard bends in the wire, windings should be soft and should not be tightened in a knot.

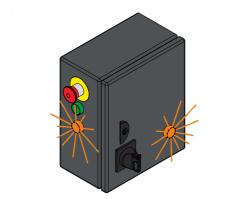






When the strap hook is not being used, place it in the hole as shown in the illustration.

The hole is not located in the same place on all balers.



See chapter 13, Ejecting the bale for further handling.

Bale press B-series 12 Afbinding.fm • Page 32



Steel wire

Applies to steel wire with a diameter of 3 mm

The following binding procedure is not installed as standard when the machine leaves the factory, and requires an adjustment of the actual control system. Contact the dealer for more information.



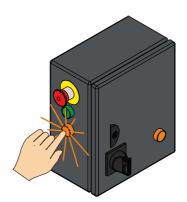




Exercise extra caution when working with steel wire and always be aware of both ends of the steel wire at the same time.



When the orange finish indicator button lights and thus indicates that the bale is ready for binding, do the following:



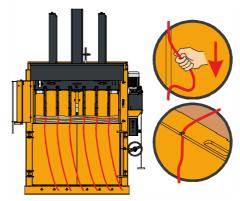
Press the lit orange finish indicator button so the platen goes back to the top position.



When the orange finish indicator button starts flashing, it is not possible to interrupt the process, which must be completed by binding and bale-ejection.

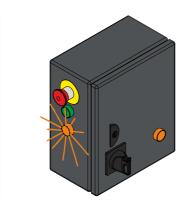




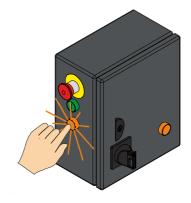


Open the filling door and draw the steel wire across the bale. Then the steel wire is secured to the lower door's edge.

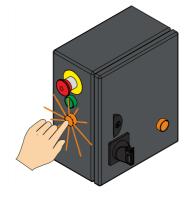
Avoid unnecessary bending of the steel wire, since this will hamper further handling.



The filling door is closed, and the finish indicator button lights up.

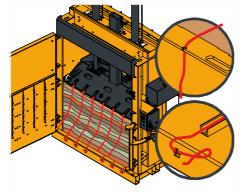


Press the lit orange finish indicator button so the platen goes down and parks on top of the bale.



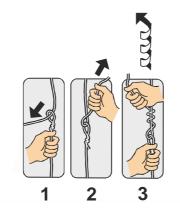
The orange finish indicator button now starts to flash.





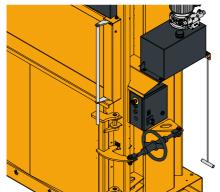
Open the filling door and free the steel wire from the lower door's edge.

Then open the spindle (handwheel) and thus open the lower door. Release the steel wire loops from the slots in front of the chamber.



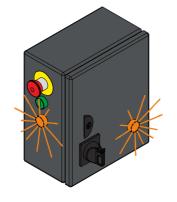
The ends of the steel wire are run through the loops and tightened by pulling upwards. Then, finish by winding the steel wire 3-4 times around the wire that is around the bale.

Avoid making hard bends in the wire, windings should be soft and should not be tightened in a knot.



When the strap hook is not being used, place it in the hole as shown in the illustration.

The hole is not located in the same place on all balers.

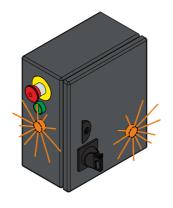


See chapter 13, Ejecting the bale for further handling.

Bale press B-series 12 Afbinding.fm • Page 35

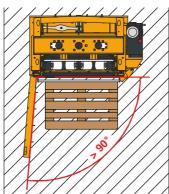


13 Ejecting the bale



When the two orange finish indicator buttons light and thus indicate that the bale is going to be ejected, check the following:





The main door must be open at least 90° in relation to the chamber.





There must not be any materials jammed in the ejection system, since this will prevent the baler from ejecting the bale.

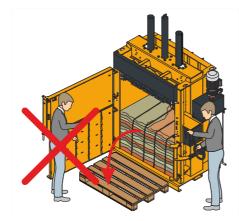


The ejection mechanism on the platen must be pushed completely forward. If it is pushed back, the jammed material must first be removed.

The bale ejection is performed by pressing the two lit orange buttons simultaneously (two-hand control).

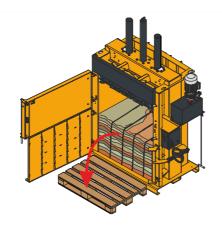




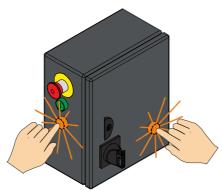


The bale press must only be operated by one person. Only the operator should be in the vicinity of the bale press when ejection is being performed. See chapter 6, Installation, Clearances and working area.





It is recommended that the bale be tipped out onto a pallet placed in front of the chamber in order to facilitate further handling.



The bale ejection is performed by pressing the two lit orange buttons simultaneously (two-hand control).

Note that simultaneous constant pressure within a time interval of half a second is necessary. The platen moves upward and the ejector tips the bale out of the chamber.

Continue to press the buttons until the platen has reached the top position and stops automatically.

When the platen has reached the top position, the ejector automatically falls into place again. The bale press is now ready to have new cords/straps or steel wire pulled out.









14 Maintenance

Before any repair or maintenance of the baler, the power must be disconnected by removing the plug from the electric socket. If this cannot be done, a padlock must be placed on the baler's repair switch.

The legally required safety equipment must always be used for all types of repair and maintenance.

Repairs to the electrical or hydraulic system must only be undertaken by authorized personnel who have the necessary knowledge and skills. Repairs must be carried out to ensure the continued safe operation of the baler.

There must be no alterations or modifications to the baler or its electrical or hydraulic system.

Daily check:

- Check each day to make sure that no waste is trapped around the platen.
- Check if the platen's ejection mechanism can be pushed into the platen and then jump out again, see chapter 13, Ejecting the bale.

Weekly check:

- Check that the emergency stop works.
- Check that the baler cannot start when the filling door or main door is open.
- Check that all covers and screens are intact and attached.
- Also check that the release rollers on the platen's ejection mechanism can roll and are not defective or worn out.
- Also take note of the baler's overall condition.

If there are defects, these must be repaired by authorized personnel who possess the necessary knowledge and understanding before the baler can be used again.



Biannual check:

The oil level is checked twice a year, see the table below.

When the platen is in the top position, the distance from the edge of the tank to the oil should be:

| Model, B-series | Distance in cm | | |
|-----------------|----------------|--|--|
| B5 W | 6 cm | | |
| B20 / B20 VD | 10 cm | | |
| B30 / B30 VD | 7 cm | | |
| B30 W | 7 cm | | |
| B50 | 9 cm | | |
| B50 L | 11 cm | | |

| Model, X-series | Distance in cm | | |
|-----------------|----------------|--|--|
| X10 | 9 cm | | |
| X25 / X25 AD | 9 cm | | |
| X30 / X30 AD | 7 cm | | |
| X50 | 10 cm | | |



Since the hydraulic oil's lifespan is heavily dependent on the operating temperature, this should be at 30-60° C. Therefore, a cooling system should be mounted on the hydraulic system (optional equipment) for continuous operation.

Lubricate the baler's cylinders, steering rod, and spindle (handwheel) at least twice a year. The grease nipples fit on a standard hand pump.

Annual check:

At least one annual service check is recommended where the baler's electrical and hydraulic systems are reviewed and defective parts and oil are replaced in order to keep the baler in an operational and safe condition. Service inspections can be ordered from the dealer.



At least one safety check on the baler must occur annually. See chapter 16, Checklist for safety check.

The oil should be changed at least once a year. The place where the oil is being filled, as well as the tools used for filling the oil must be completely clean.

The filter in the oil tank should be replaced after a maximum of 2000 operating hours or at least every 5 years. The filter must be replaced by authorised personnel.

Damage to paintwork:

Major damage to paintwork can be repaired using a 2-component paint, which can be purchased from the dealer. Minor scuffs, etc. can be repaired using an ordinary paint.





Cleaning:

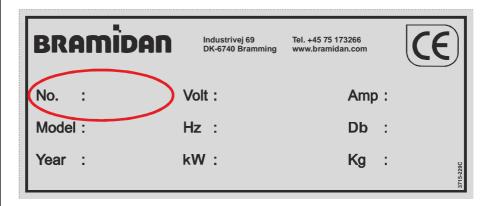
The baler is cleaned with a hand brush and an ordinary soft cloth, don't use water or high pressure cleaners, etc.



Ordering spare parts:

Due to the high functional value and safety requirements of the baler, we recommend that you use original spare parts. Spare parts can be ordered from the dealer.

Provide the baler's serial number when requesting information.



Disposal:

The hydraulic oil is packaged and disposed of according to the appropriate country's laws and regulations for the area. The electrical system and the baler itself can be reused and should be separated from each other before disposal.





15 Troubleshooting

If it is not possible to solve the problems using the troubleshooting table, or there are any other questions, contact the dealer.

The baler cannot start:

Is the baler connected to the supply network?

Is the repair switch set to "0" or OFF?

Has the emergency stop been activated?

Have the baler's fuses blown?

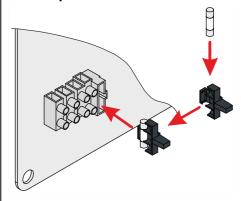
Connect the cable to the supply network.

Set the repair switch to "1" or "ON".

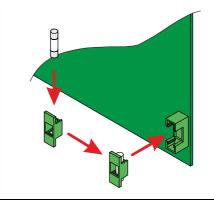
Release the emergency stop.

Replace the fuse with a fuse of the same amp. (If the problem is recurring, call for service).

Bottom plate:



Circuit board:



Bale press 15 Fejlfinding.fm • Page 41



| The baler cannot start and the start button is flashing: | The filling door must be opened between each press cycle. | | | | |
|--|--|--|--|--|--|
| One flash, the door switch is reporting errors. | Open and close the door completely. | | | | |
| Two flashes, the emergency stop is activated. | Release the emergency stop. | | | | |
| Three flashes, the oil temperature is too high. | Wait for the temperature to be normalized, which can take a couple hours. (If the problem is recurring, call for service). | | | | |
| Four flashes, the motor temperature is too high. | Wait for the temperature to be normalized which can take a couple hours. (If the problem is recurring, call for service). | | | | |
| Five flashes, servicing is recommended. | Order a service from the dealer. | | | | |
| Six flashes, other serious errors. | Contact the dealer. | | | | |
| The baler is very noisy: Have one or more of the platen's wear blocks worn away? | Replace the wear blocks. | | | | |
| Is the platen's release roller worn? | Replace the release roller. | | | | |
| Is a foreign object trapped between the platen and the chamber? | Remove the foreign object. | | | | |
| The baler cannot eject the bale: Is the two-hand control not responding? | Two-hand control requires a simultaneous constant pressure within a time interval of ½ second. | | | | |
| Has the emergency stop been activated? | Release the emergency stop. | | | | |
| Has the top switch been activated? | Remove any trapped material at the top switch. | | | | |
| Is a foreign object trapped in the ejection system? | Remove the foreign object. | | | | |
| Is the cord/strap installed incorrectly? | Cut the cord/strap and tip the bale out of the chamber. Press the bale again. | | | | |
| Is the steel wire installed incorrectly? | Clip the steel wire and tip the bale out of the chamber. Press the bale again. | | | | |
| Leakage: Is hydraulic oil leaking from the baler? | Disconnect the power to the baler. Wipe up the oil, using a detergent designed for hydraulic oil if necessary. Repair the leak before using the baler. | | | | |

Bale press 15 Fejlfinding.fm • Page **42**

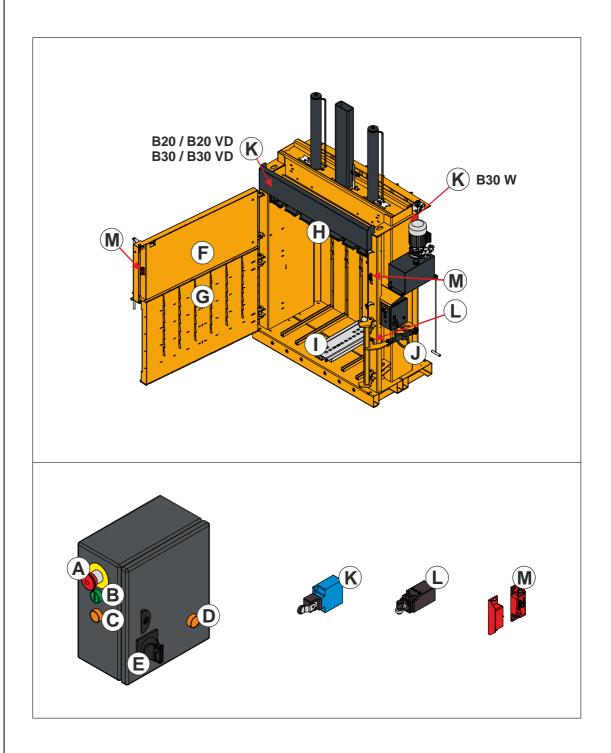




16 Checklist for safety check

The items below should be checked at least once a year. Only individuals with a thorough knowledge of the baler and its functions may implement such a check.

Take a copy of the checklist and make a note of each point of any defects, wear and tear or errors, which must all be repaired before the baler can be used again. It is recommended to save the copy as documentation.





| Check cable and socket Visually check the supply cable and socket. There must be no cracks or other defects, etc. | Defect | ок |
|---|--------|----|
| Check the repair switch (E) Set the repair switch (E) to "0" or OFF. Then press the green start button (B). It must not be possible for the baler to start. Check that the repair switch (E) can be locked in this position. Set the repair switch (E) back to "1" or "ON". Reset the baler with a single push of the green start button (B). | Defect | ОК |
| Check the emergency stop (A) Doors (F) and (G) must be closed. Activate the emergency stop button (A). Then press the green start button (B). It must not be possible for the baler to start. Deactivate the emergency stop button (A). Reset the baler with a single push of the green start button (B), start the baler by pushing the green start button (B) again. Activate the emergency stop button (A). The baler will stop immediately. Deactivate the emergency stop button (A). Reset the baler with a single push of the green start button (B). | Defect | OK |
| Check the two-hand control (C) and (D) Press on the finish indicator button (C) so the platen (H) goes to the bottom position. Open the doors (F) and (G), so the two-hand control (C) and (D) activates and lights up. First press the finish indicator button (C), then press button (D). The baler must not eject the bale. Press buttons (C) and (D) simultaneously and costantly within a time interval of ½ second. The baler should start to eject the bale. Close doors (F) and (G). | Defect | OK |



| Check door switch (M) Open door (F) and press the green start button (B). It must not be possible for the baler to start. | Defect | ОК |
|--|--------|----|
| Close door (F) and press the green start button (B). Open door (F) after about 10 seconds. The baler will stop immediately. | | |
| It must not be possible to start the baler until door (F) has been closed again. | | |
| Check that the two parts (M) of the door switch are complete and not defective. (One of the parts of the door switch is on the door (F), and the other is on the chamber of the baler). | | |
| Check top switch (K) Close doors (F) and (G) and press the green start button (B). The pump station must stop when the platen (H) reaches the top position. | Defect | ок |
| It is recommended to activate the emergency stop (A) before visually checking the top switch: | | |
| Check that the top switch (K) is intact and free from defects. The arm must be able to move freely. | | |
| Deactivate the emergency stop button (A). Reset the baler with a single push of the green start button (B). | | |
| Check the door switch (L) Run the platen down to the lowest position by pressing the orange finish indicator button (C). Open door (F) and activate two-hand operation (C) and (D). The press must not eject the bale. | Defect | ок |
| Open door (G) and check that the door switch (L) is complete and not defective. It should be possible to press the roll in and out / The arm must be able to move freely. | | |
| Check the closing system on door (F) Open door (F) and check that the closing system works correctly. | Defect | ОК |
| Check the closing system on door (G) Open doors (F) and (G) and check that the closing system and spindle (handwheel) work correctly. | Defect | ок |
| Check hydraulics Check hydraulic hoses for cracks and ageing. There must be no leaks from either the cylinders, fittings, or the pump station. | Defect | ок |

| Applicable for machine number: | |
|--------------------------------|--|
| Safety check carried out on | |
| Signature: | |



17 Spare partsThe list below indicates spares parts that directly affect the operator's safety and health.

| Item no. | Item text | B20 | B20 VD | B30 | B30 VD | B30 W |
|----------|--|-----|--------|-----|--------|-------|
| 3715-001 | Label, protection / grounding. | Х | х | Х | Х | Х |
| 3715-186 | Label, the machine must not be emptied by (only Poland) | Х | Х | Х | Х | Х |
| 3715-187 | Label, the machine must not be emptied by (only Denmark) | Х | Х | X | Х | Х |
| 3715-247 | Label, truck handling | Х | X | Х | Х | Х |
| 3715-326 | Label, lashing | Х | Х | Х | Х | Х |
| 3715-339 | Label, pictogram steel wire | Х | Х | Х | Х | |
| 3715-340 | Label, stay in front of the machine | Х | Х | Х | X | Х |
| 3715-411 | Label, pictogram cord and strapping | | | | | X |
| 3715-427 | Label, pictogram steel wire | Х | X | Х | X | Х |
| 3715-430 | Label, pictogram cord and strapping | Χ | Х | | | |
| 3715-431 | Label, pictogram cord and strapping | | | Х | Х | |
| 2156-006 | Pressure and temperature transducer | X | Х | Х | X | X |
| 2658-009 | End stop, complete (arm and roller) | X | Х | Х | Х | Х |
| 2658-043 | Door switch | Х | X | Х | Х | Х |
| 2658-046 | End stop, complete (arm and roller) | Х | Х | X | X | X |
| 2659-001 | Emergency stop | Х | Х | Х | Х | Х |
| 2666-069 | Push button (green) | Х | Х | Х | Х | Х |
| 2666-070 | Push button (orange) | Х | X | Х | Х | Х |
| 2667-025 | Repair switch, complete | Х | х | Х | Х | Х |
| 2685-024 | Fuse (in the cabinet) | Х | Х | Х | Х | Х |
| 2685-033 | Fuse (on the circuit board) | Х | X | Х | х | Х |



| PVM33051 | Front screen | Х | | Х | | |
|----------|--------------|---|---|---|---|---|
| PVM33073 | Front screen | | Х | | Х | |
| 300480 | Front screen | | | | | Х |

Bale press B-series 17 Reservedele.fm • Page 47