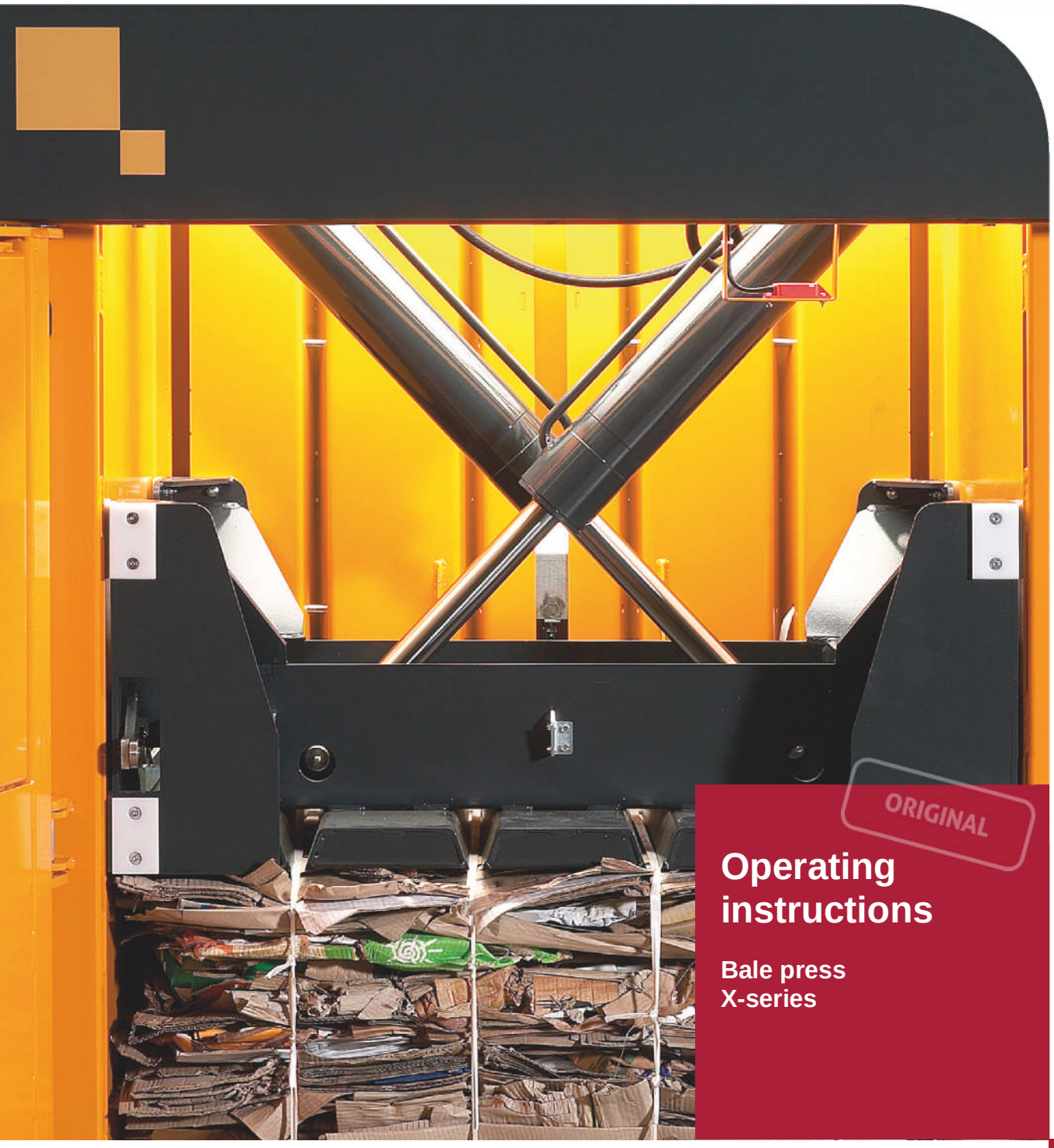

ORIGINAL

Operating instructions

Bale press
X-series

Manual no. 7995-014
Version 01-05-2012
USA - English edition

CE

BAY AREA TRASH COMPACTOR

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www.BATC-Compacts.com

Table of contents

Manufacturer: **Bramidan A/S**
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DK-6740 Bramming

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Fax: +45 75 17 31 77
Internet: www.bramidan.com

CE

BRAMIDAN

EU Declaration of Conformity R205-E

Hereby declares that

Machine: **Bale press belonging to the X-series**

Model	X10	X16	X25	X25 AD	X30	X30 AD	
Type	PVN	PEX	PEX	PEX	PEY	PEY	

Model							
Type							

was manufactured in conformity with:

- ANSI Z245.5-2008 Baling Equipment - Safety Requirements.
- The provisions of the EU Machinery Directive 2006/42/EC with later amendments, with special reference to Annex II, part A and Annex I of the Directive, on essential safety and health requirements in relation to the construction and manufacture of machines.
- The provisions of the EU EMC Directive 2004/108/EC as later amended.
- The following standards:
  EN 61000-6-2 EMC
  EN 61000-6-3 EMC
  EN 60204-1 Electrical equipment on machines.

Note

Bramidan bale presses are intended for erection as stand-alone machines and must not be combined with other machines.

The bale press must not be used for compressing wet or oily material, foam rubber, or other strong expansive materials.

The bale press must not be used for explosive or easily ignited waste.

I confirm the above information

01.12.2010
Date

Ejnar 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.

CAUTION

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

DANGER

DANGER indicates an imminently hazardous situation, which if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations.

WARNING

WARNING indicates a potentially hazardous situation, which if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a potentially hazardous situation, which if not avoieded, may result in minor to moderate injury. It may also be used to alert against unsafe practices.

“A HAND” indicates topics to which the reader must pay special attention.

3 Personal Safety

CAUTION

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.

Only authorized employees (18 years or older) may operate, inspect, or maintain the baler. Only authorized employees (16-18 years) may load the baler, but not operate it.

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.

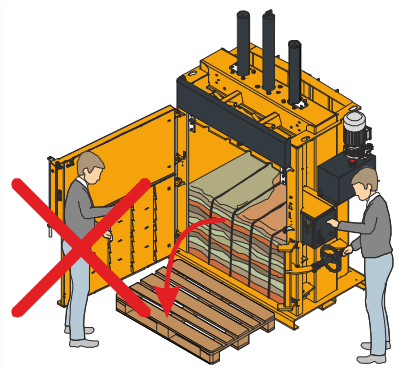
The baler may have a relatively high centre of gravity even if the platen is lowered, and therefore may tip during transport, see chapter 5, Transport.

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.

WARNING

- 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.



CAUTION

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

DANGER

- 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.

CAUTION

- 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.

CAUTION

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

WARNING

- **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.**

DANGER

- **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.

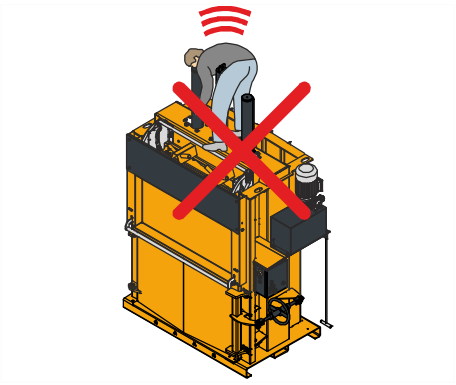
- It is recommended to use original spare parts.

WARNING

- Avoid coming in contact with hydraulic oil through inhalation or skin contact.
- The hydraulic oil may be hotter than 158 fahrenheit, and can therefore cause scalding.
- A jet from a hydraulic hose may cause serious damage to skin and eyes.

DANGER

- For B-series, never climb up 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 [1]	●	●
Plastic cans		●

Note 1: Only loose sheets, not bundled or solid lumps.
Note 2: Only perforated bottles or cans without lids.

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!

WARNING

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.

DANGER

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:

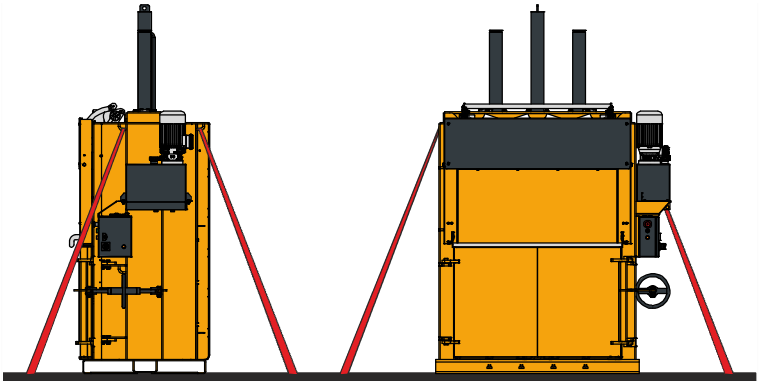
The combination of solid construction and thought through safety equipment means that this baler can always be operated safely:

- 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.

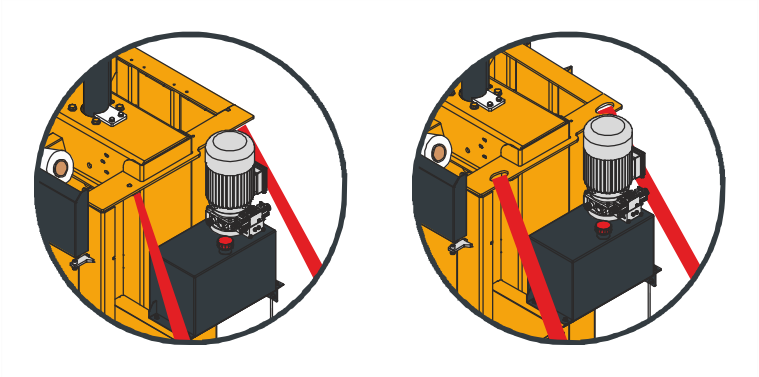
5 Transport

Lashing:

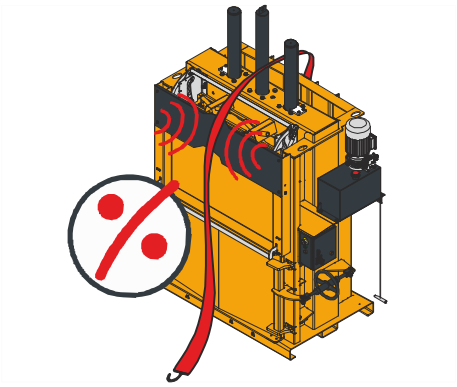
WARNING



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.

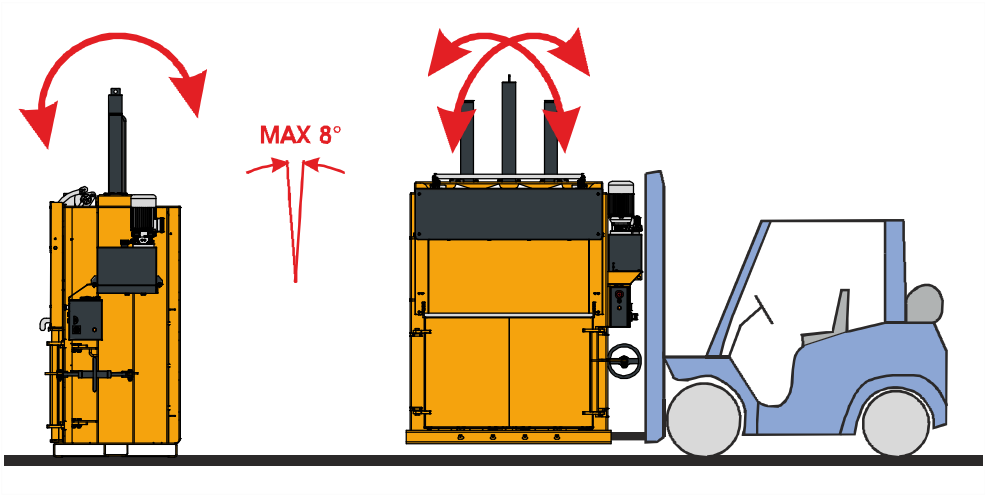


Never lash over "free standing" screens that can be deformed by the load. The screens are marked with a warning label on the packaging.

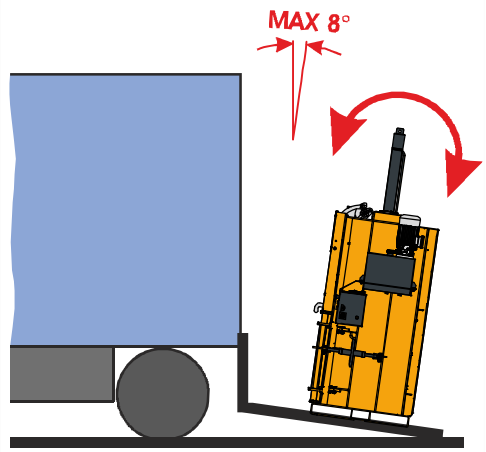
Centre of gravity:

WARNING

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

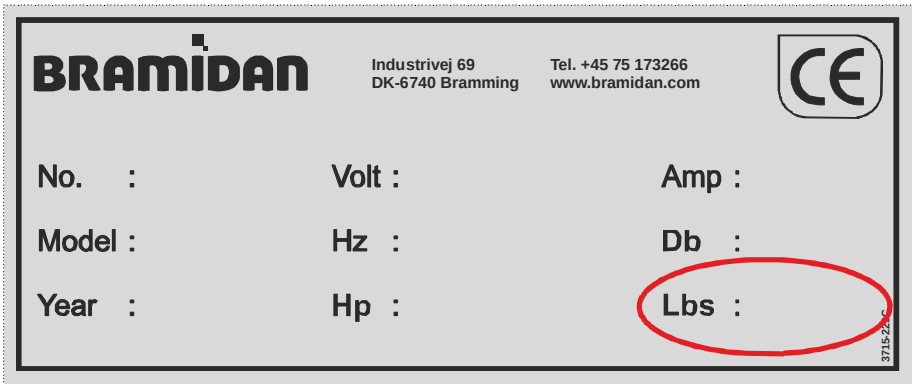


WARNING



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.



CAUTION

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

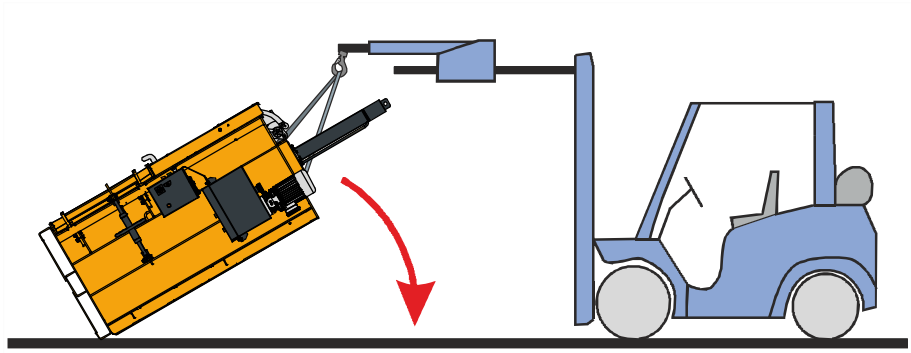
The baler should not be put down on its side:

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.

CAUTION

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.

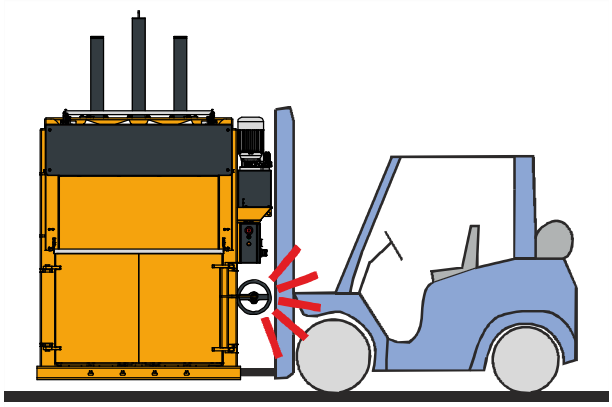
When the baler is laid on its side, attach the baler in the same way as when lifting it using a crane. A truck with a crane hook can assist with safe tilting.



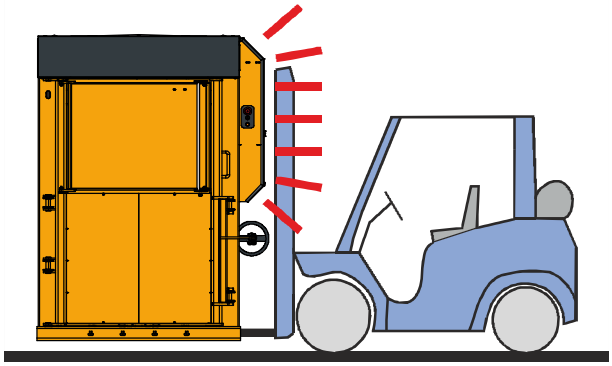
Transport when using a fork-lift truck, etc.:

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.

CAUTION



When driving, the fork-lift truck must never exceed 20 inches above the ground. The baler's base is designed so that it can't tip off the fork of a fork-lift truck.

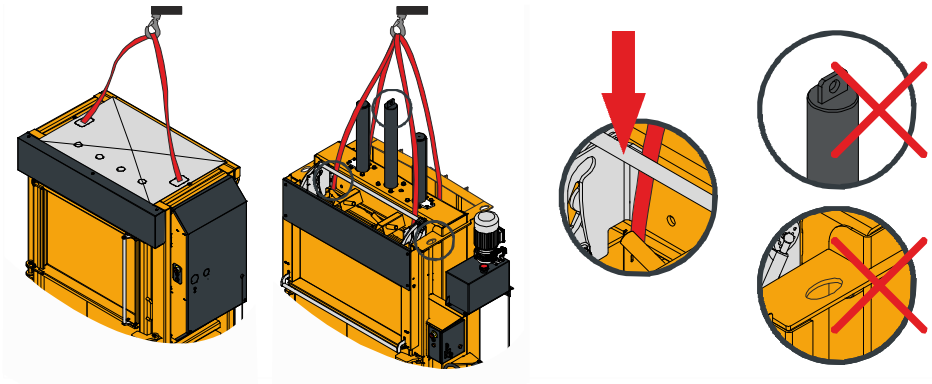


Transport when using a crane:

WARNING

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.

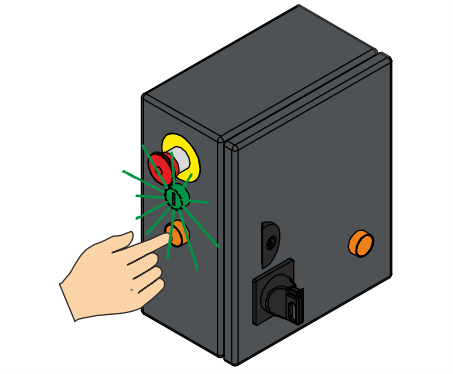


Moving an installed baler:

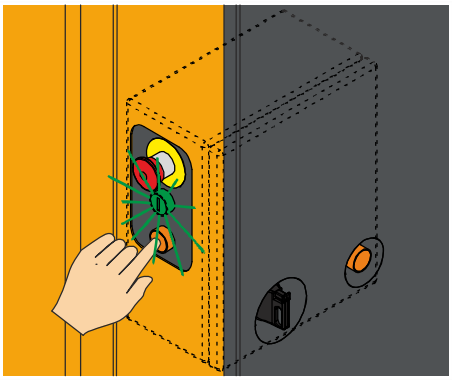
All parts must be removed, and the chamber must be empty of material and other loose items.

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

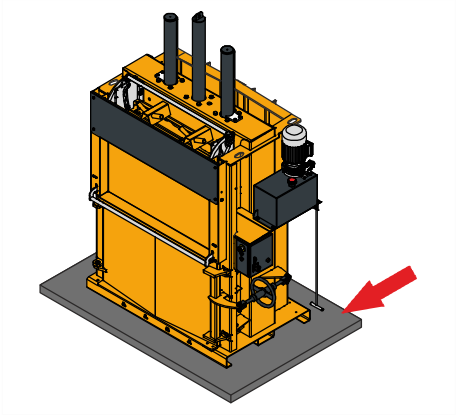


6 Installation

The baler 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 39 inches from the operation and at a height of 63 inches.



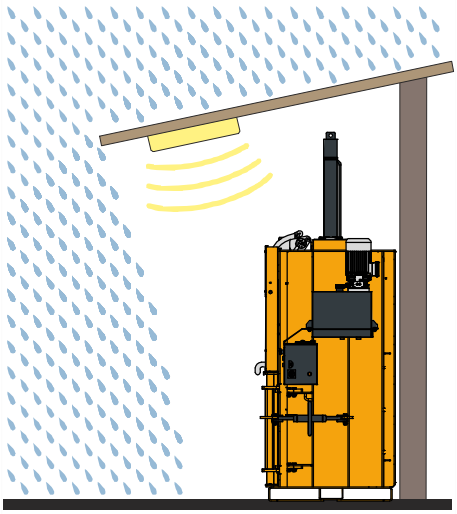
In order to reduce vibrations that may occur during operation, the baler can be placed on a thick, soft rubber mat.

The baler is designed for temperatures between 32-95 fahrenheit 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.

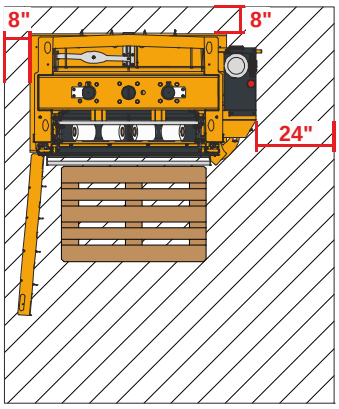
With outdoor placement, you must expect a reduction of the baler's lifespan as well as the need for more frequent servicing.

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

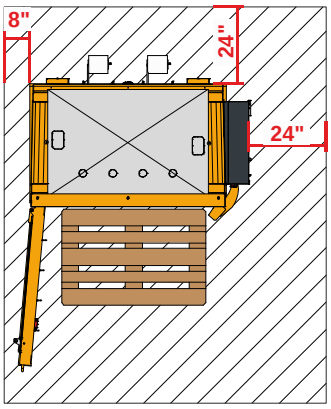
Clearances and working area:

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 8 inches from the wall, so the doors can be opened the necessary 90°.

B-series

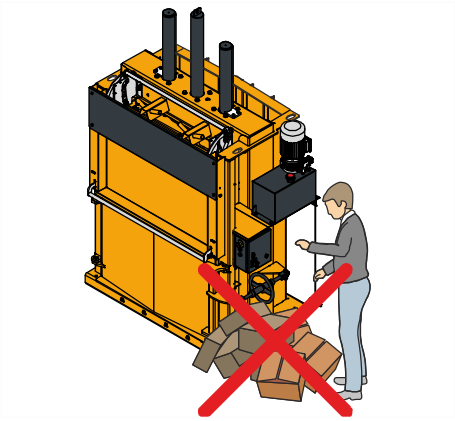


X-series



CAUTION

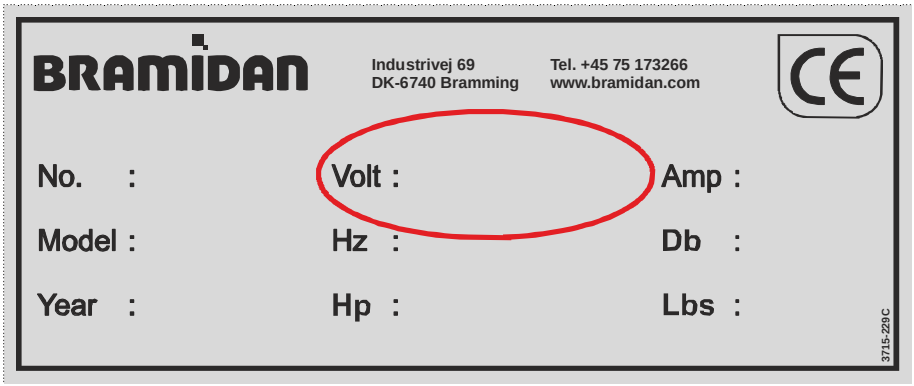
The working area must be orderly and free of waste, etc.



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:

CAUTION

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:

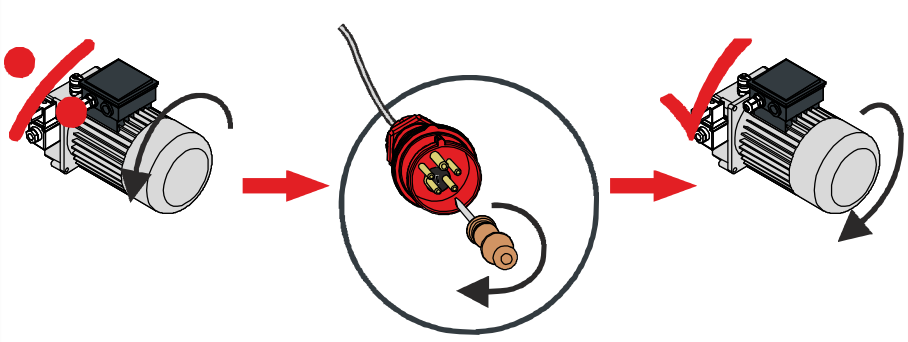
CAUTION

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.

One sign that the motor is running in the right direction is that the platen moves.

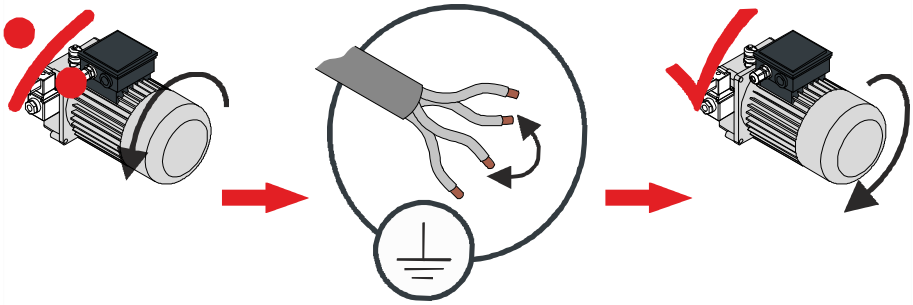
If the motor rotates counterclockwise, the phase inverter is rotated in the socket. The phase inverter is pushed into the socket, and rotated with a screwdriver.



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.



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.

CAUTION

Important! First remember to disconnect the power be removing the plug from the electric socket. If this cannot be done, a padlock must be placed on the baler's repair switch. Then reset the baler with a single push of the green start button. See chapter 13, Ejecting the bale.

Steel wire (optional equipment)

Some models must use steel wire holders to use steel wire.

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.

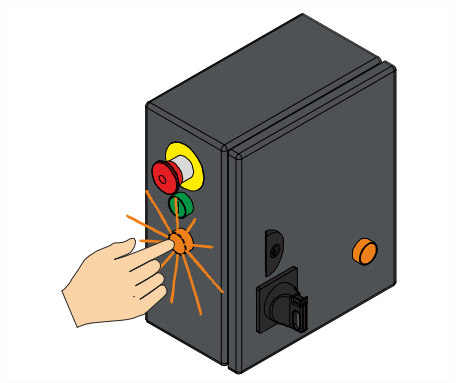
To park the platen on the bale (occasionally) see chapter 9 The Operating Panel.

Problems with cords, straps, or steel wire:

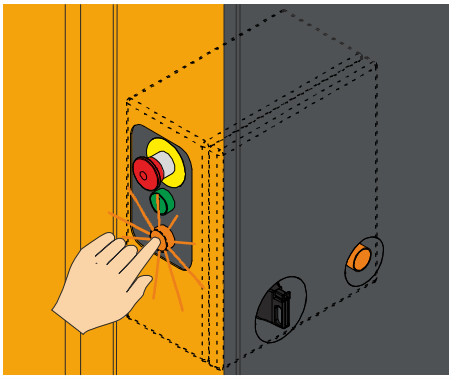
If there are problems with cords, straps, or steel wire during the ejection of the bale, close the doors again. But only so far as is possible without the use of other equipment!

Then press the orange finish indicator button so the platen goes back to the top position.

B-series



X-series



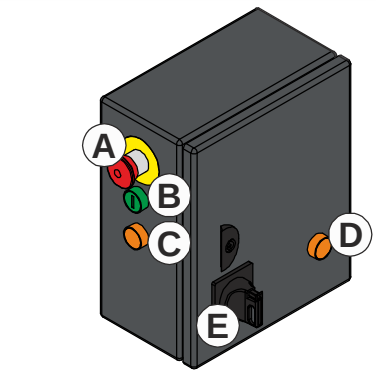
Open the doors and try to correct the problem.

If the doors cannot be closed, or the problem cannot be corrected, the bale must be removed and pressed again.

9 The Operating Panel

Description:

B-series

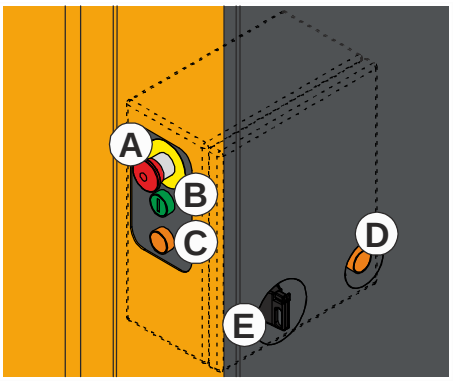


D) Finish indicator button (orange)

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 a single press of the finish indicator button (C).

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

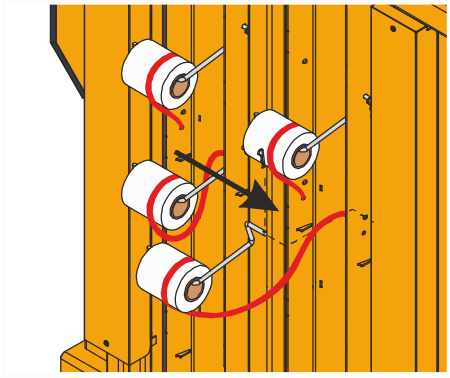
Parking the platen on the bale (occasional):
If you want to occasionally park the platen on the bale in order to hold the pressure, such as for expanding materials, press the start button (B) for at least 3 seconds whilst the platen is on the way down.

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.

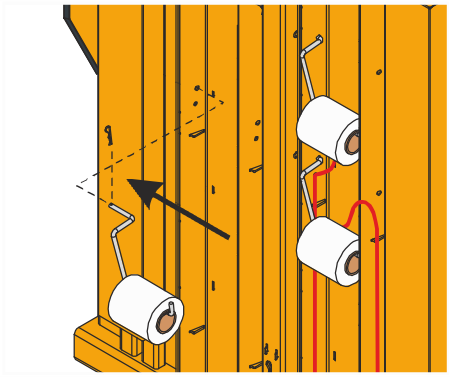
10 Mounting cords, straps, or steel wire

Cords or straps

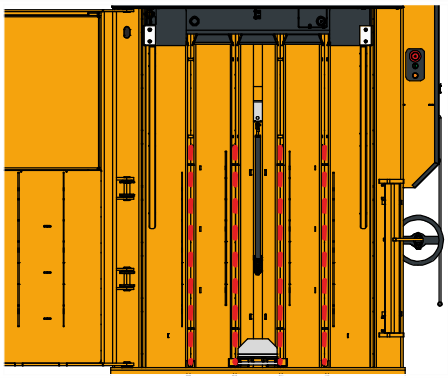


Place the brackets for cord or tape rollers in the holes at the back of the chamber in the triangular profiles and fasten them with a split pin.

When **tape rolls** are used, place the brackets in the holes from left to right. This allows an air space between the chamber and the tape roll. Draw the tape into the chamber through the holes as shown in the illustration.



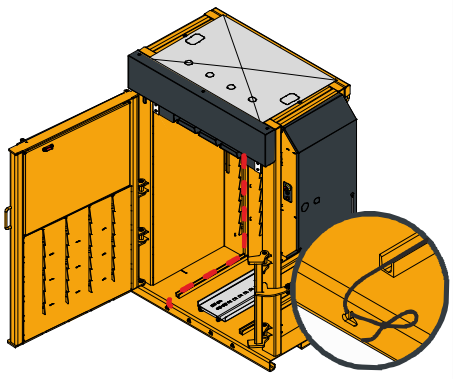
When **cord rolls** are used, place the brackets in the holes from right to left. This will lock the roll against the chamber so that the cord does not run off the roll. Draw the cord into the chamber through the holes as shown in the illustration.



Open the main door(s).

Important! Before the cord / straps are mounted, remember to disconnect the power by removing the plug from the electric socket. If this cannot be done, a padlock must be placed on the baler's repair switch.

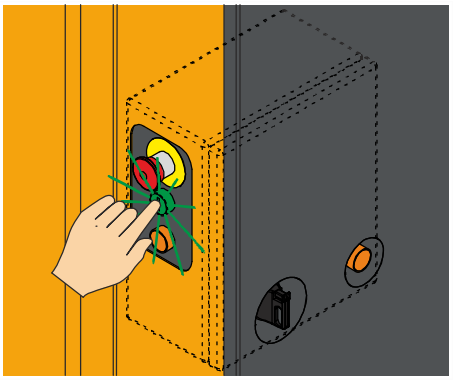
Pass the cord/strap is down towards the chamber floor while pressing it into place in the corresponding bracket.



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).

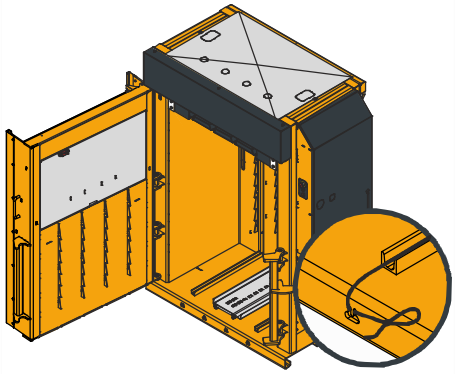


Reconnect the power and reset the baler with a single push of the green start button.

See chapter 11, Filling and compression for further handling.

Steel wire

Applies to models that use steel wire.

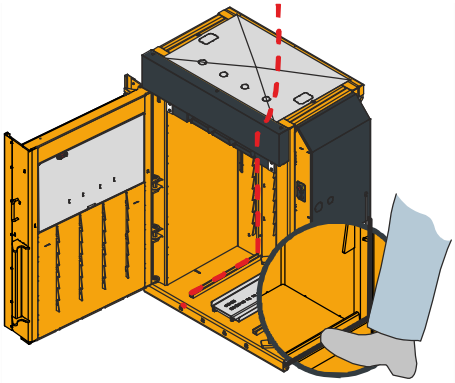


Disconnect the power by removing the plug from the electric socket. If this cannot be done, a padlock must be placed on the baler’s repair switch.

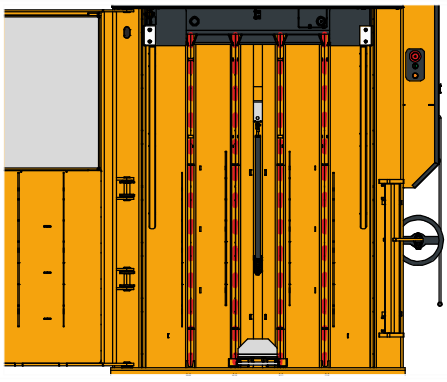
Open the main door.

If the steel wire is delivered without a loop at 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 cover.

Close the main door.

Reconnect the power and and reset the baler with a single push of the green start button.

See chapter 11 Filling and compression for further handling.

11 Filling and compression

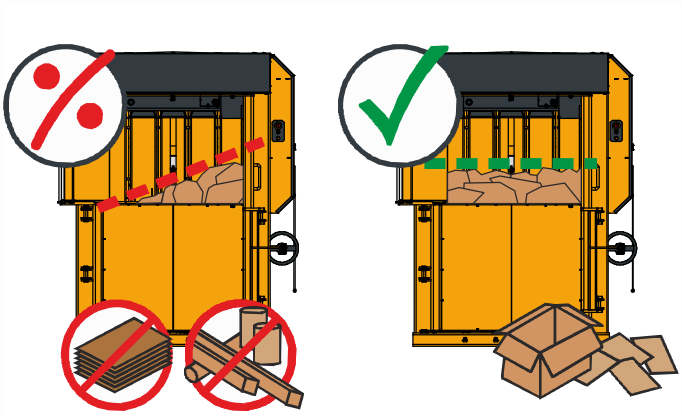
In order to avoid unnecessary damage to the press, we recommended you to read chapter 4, Use and function.

WARNING

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:

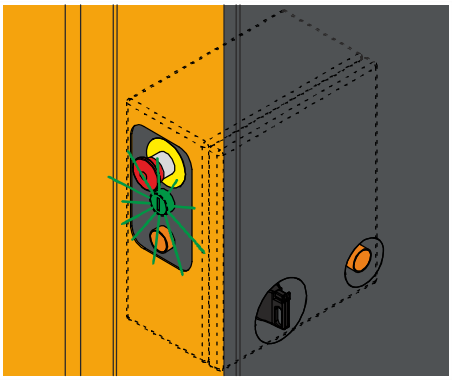


Fill the chamber with material and distribute this evenly.

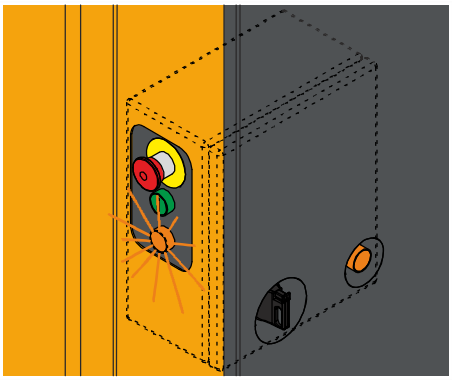
Standard door:
close the door so the lock mechanism engages.

Automatic door:
closes automatically when the green start button is pressed. Make sure that the automatic door automatically opens again after compression is completed.

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.

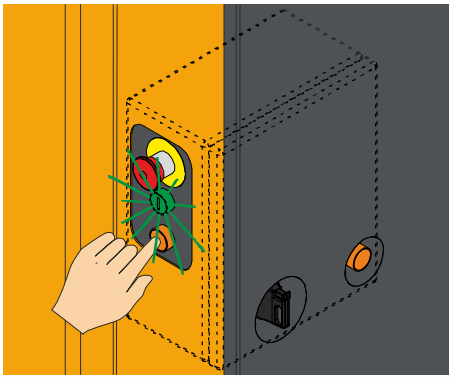


When the orange finish indicator button flashes, the bale has reached its maximum and the platen parks on top of the bale.

See chapter 12, Binding for further handling.

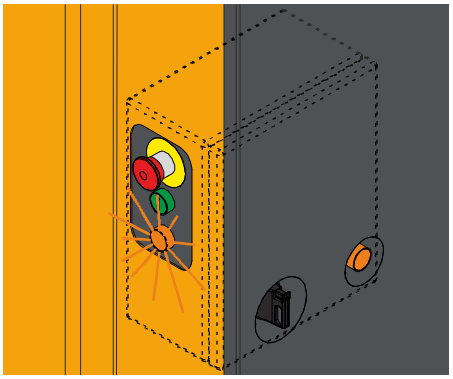
Finishing the bale prematurely:

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.

Now press the orange finish indicator button, which in this case is not lit.



The platen goes down and parks over the bale, and the orange finish indicator button begins to flash.

See chapter 12, Binding for further handling.

Cancelling of finishing the bale prematurely:

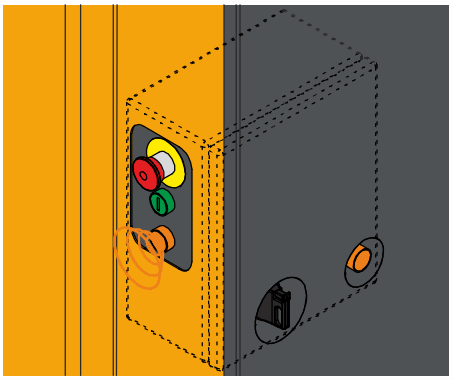
If finishing of the bale is initiated, the process can be cancelled. Press the orange finish indicator button and let the platen go up/down until the green start button lights. The baler is now back in normal operation. If the orange finish indicator button does not react, open and then close the door.

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

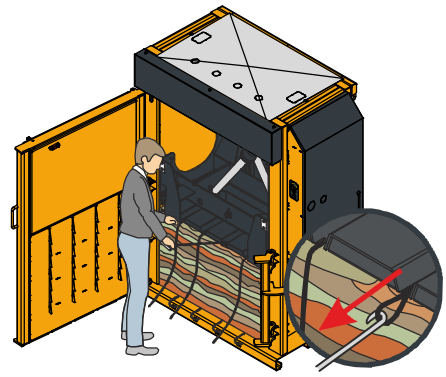
12 Binding

Operation of the baler must always occur in accordance with the local regulations for use of technical equipment (machines), which can vary from country to country. See chapter 3, Personel Safety.

Cords or straps



The orange finished indicator button will now starts to flash. From this point forward it will not be possible to interrupt the process, which will be completed with binding and bale-ejection.

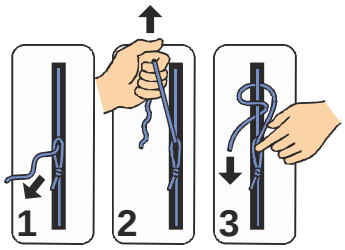


Loosen the mandrel (the hand wheel) and thus open the main door.

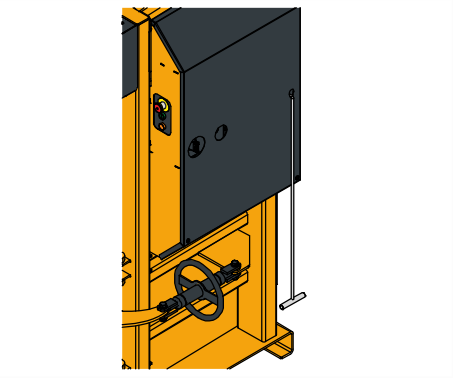
For X10: First open the filling door. Then loosen the mandrel and thus open the lower door.

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

Release the cord/strap loops from the slots in front of the chamber.

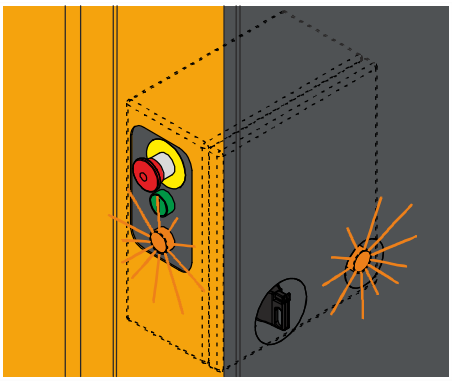


Draw the trimmed cords or tapes through the loops at the other end of the cord or tape and tighten by pulling upwards. Then finish off by tying a few knots.



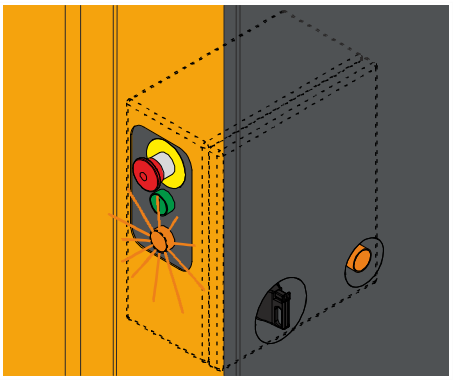
When the strap hook is not being used, place it in the hole as shown in the illustration.

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

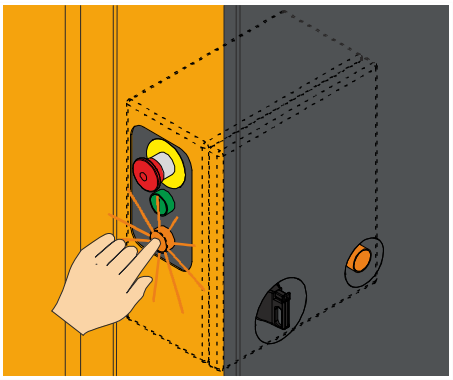


See chapter 13, Ejecting the bale for further handling.

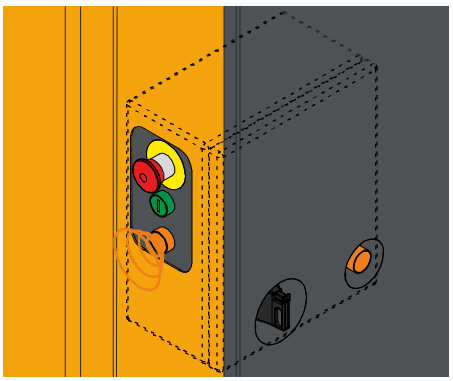
Steel wire



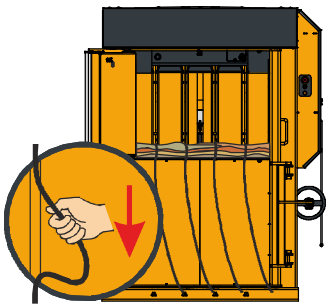
When the orange finish indicator button lights and thus indicates that the bale is ready for binding, do the following:



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

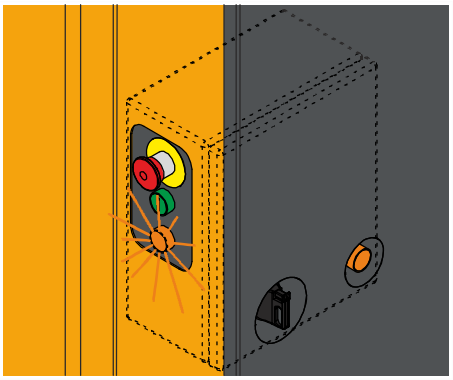


The orange finished indicator button will now starts to flash. From this point forward it will not be possible to interrupt the process, which will be completed with binding and bale-ejection.

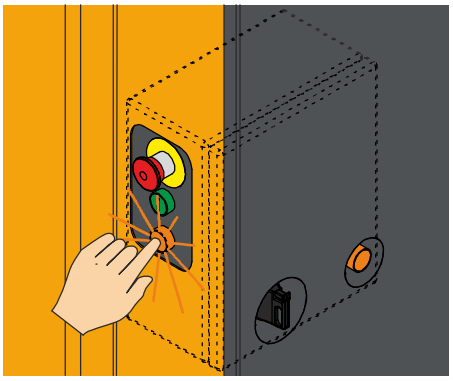


Open the filling door and draw the steel wire across the bale. Allow the wire to hang out over the edge of the main door.

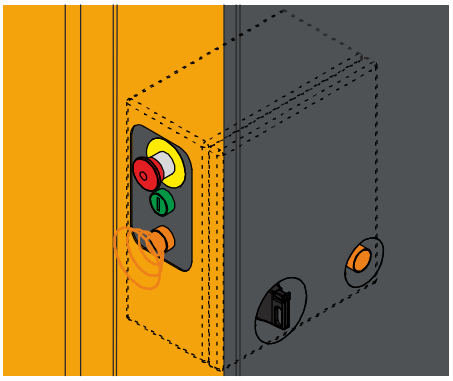
Avoid bending the steel wire unnecessarily, since this will make further handling more difficult.



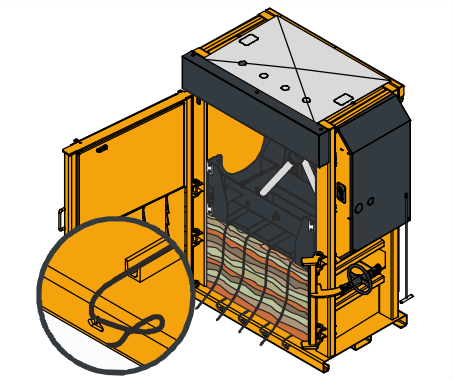
Close the filling door, and the finish indicator button will light up.



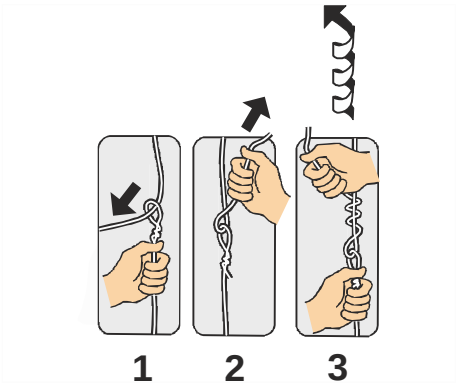
Press the lit orange finish indicator button so the platen goes down and parks on top of the bale.



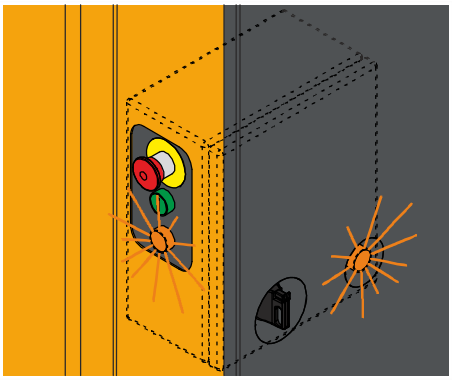
The orange finish indicator button now starts to flash.



First open the filing door and then loosen the mandrel (the hand wheel) and thus open the main door. Release the steel wire loops from the slots in front of the chamber.

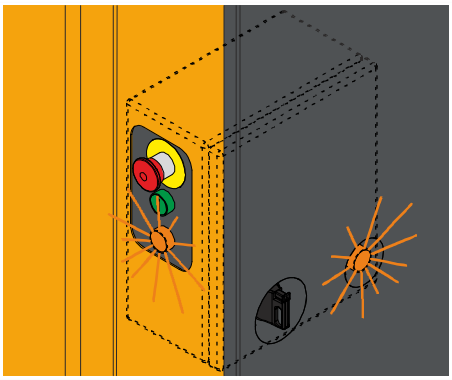


Draw the ends of the steel wire through the loops and tighten by pulling upwards. Then finish by winding the steel wire 3-4 times around the wire that is around the bale.



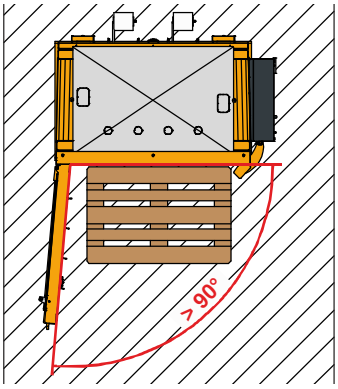
See chapter 13, Ejecting the bale for further handling.

13 Ejecting the bale

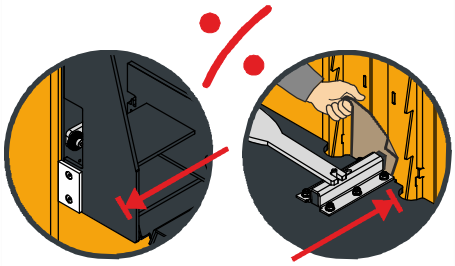


When the two orange finish indicator buttons light and thus indicate that the bale is going to be ejected, check the following:

CAUTION

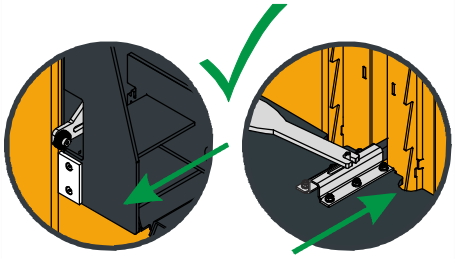


The main door must be open at least 90° in relation to the chamber.



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

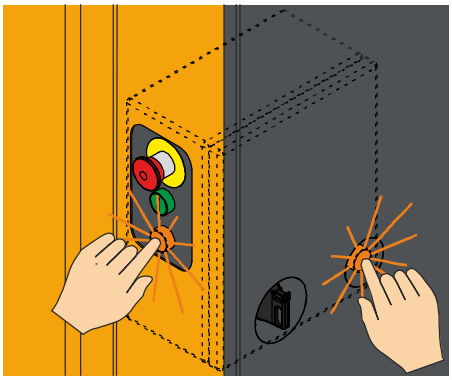
CAUTION



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

Important! First remember to disconnect the power by removing the plug from the electric socket. If this cannot be done, a padlock must be placed on the baler's repair switch.

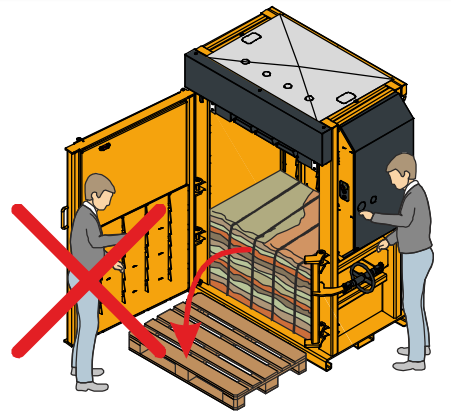
Then reset the press with a single push of the green start button.



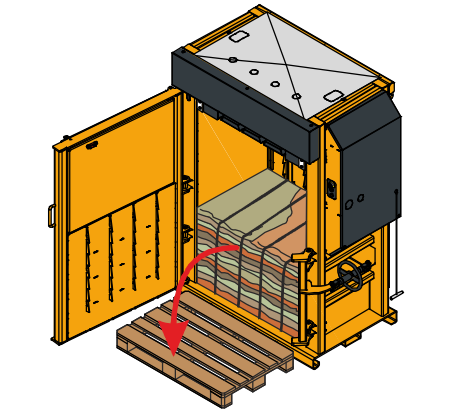
The bale ejection is performed by pressing the two lit orange buttons simultaneously (two-hand control).

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.

WARNING



The press must only be operated by one person. Only the operator may remain in the working area of the press when the bale is ejected. 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.

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

14 Maintenance

WARNING

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.

WARNING

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.

WARNING

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.

CAUTION

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	2 inches
B20 / B20 VD	5.5 inches
B30 / B30 VD	1.8 inches

Model, X-series	Distance in cm
X10	5.5 inches
X16	3 inches
X25 / X25 AD	5 inches
X30 / X30 AD	5 inches

Since the hydraulic oil's lifespan is heavily dependent on the operating temperature, this should be at 86-140 fahrenheit. 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.

CAUTION

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.

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.

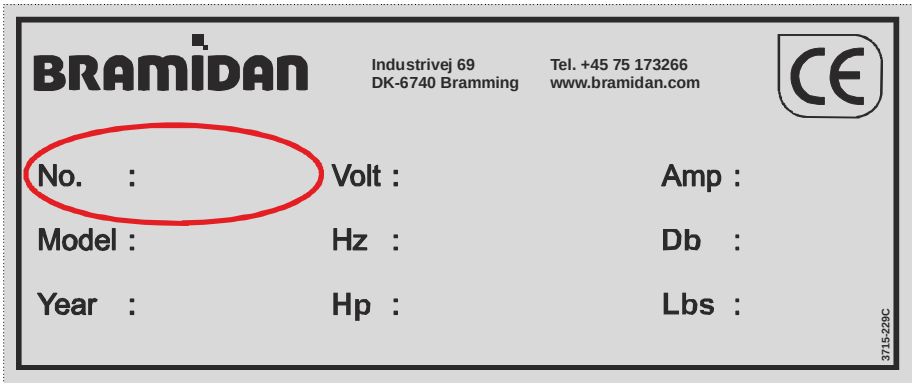
Cleaning:

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.

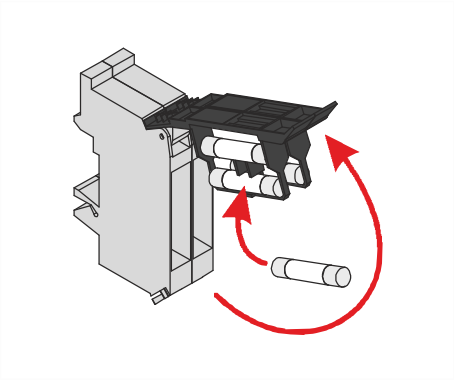
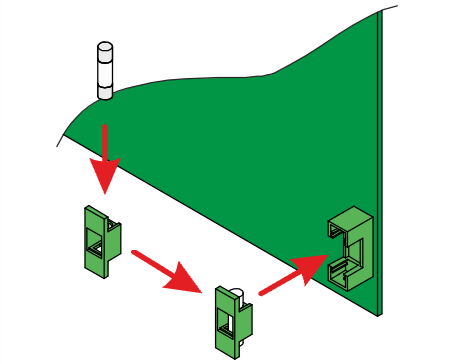


Disposal:

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?	Connect the cable to the supply network.
Is the repair switch set to "0" or OFF?	Set the repair switch to "1" or "ON".
Has the emergency stop been activated?	Release the emergency stop.
Have the baler's fuses blown?	Replace the fuse with a fuse of the same amp. (If the problem is recurring, call for service). **Bottom plate:**  **Circuit board:** 

The baler cannot start and the start button is flashing: One flash, the door switch is reporting errors. Two flashes, the emergency stop is activated. Three flashes, the oil temperature is too high. Four flashes, the motor temperature is too high. Five flashes, servicing is recommended. Six flashes, other serious errors.	The filling door must be opened between each press cycle. Open and close the door completely. Release the emergency stop. Wait for the temperature to be normalized, which can take a couple hours. (If the problem is recurring, call for service). Wait for the temperature to be normalized, which can take a couple hours. (If the problem is recurring, call for service). Order a service from the dealer. Contact the dealer.
The baler is very noisy: Have one or more of the platen's wear blocks worn away? Is the platen's release roller worn? Is a foreign object trapped between the platen and the chamber?	Replace the wear blocks. Replace the release roller. Remove the foreign object.

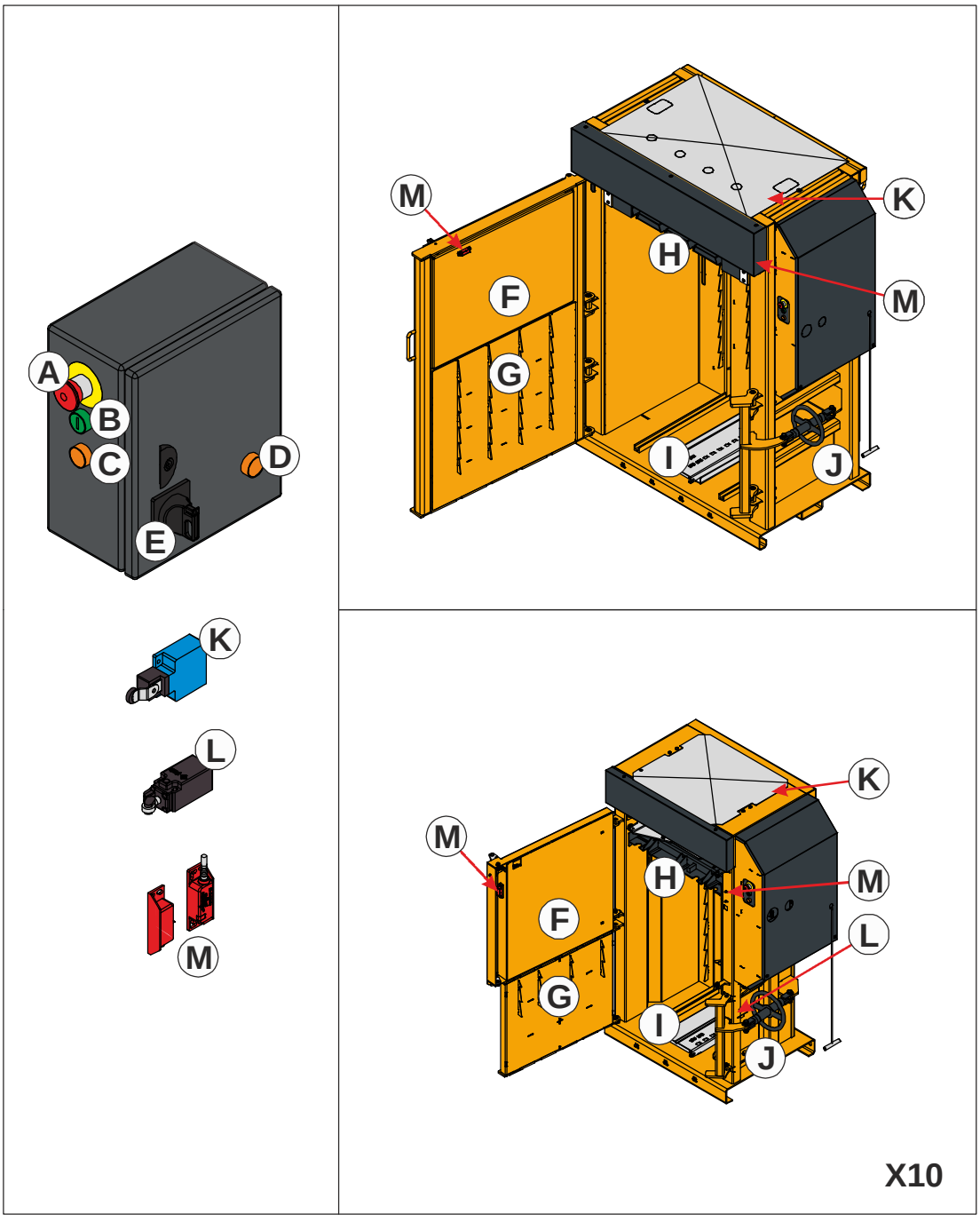
The baler cannot eject the bale: Is the two-hand control not responding?	Two-hand control requires a simultaneous constant pressure within a time interval of ½ second.
Has the emergency stop been activated?	Release the emergency stop.
Has the top switch been activated?	Remove any trapped material at 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.

16 Checklist for safety check

CAUTION

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

Take a copy of the checklist and note beside each point any defects, wear and tear, or errors, which must all be repaired before the press can be used again. You are advised to save the copy as documentation.



	Defective	OK
Check cable and socket (all models) Visually check the supply cable and socket. There must be no cracks or other defects, etc.		
Check the repair switch (E) (all models) Set the repair switch (E) to "0" or OFF. Then press the green start button (B). The baler must not be able 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).		
Check the emergency stop (A) (all models) Doors (F) and (G) must be closed. (On AD models only door (G) must be closed). Activate the emergency stop button (A). Then press the green start button (B). The baler must not be able 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 must stop immediately. Deactivate the emergency stop button (A). Reset the baler with a single push of the green start button (B).		
Check the two-hand control (C) and (D) (all models) Press on the finish indicator button (C) so the platen (H) goes to the bottom position. Open door (G) so that two-hand operation (C) and (D) is activated. With model X10 open the doors (F) and (G) so that the two-hand operation (C) and (D) is activated. 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 constantly within a time interval of a half second. The baler should start to eject the bale. Close door (G). With model X10, close doors (F) and (G).		

Check the door switch (M) (all models) Open door (F) and press the green start button (B). (On AD models door (G) must be closed). The baler must not be able to start. Close door (F) and press the green start button (B). Open door (F) after about 10 seconds. The baler must stop immediately. It must not be possible to start the baler until door (F) has been closed again. Check that the two parts of the door switch (M) 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 the top switch (K) (all models) Close door (F) and (G) and press the green start button (B). (On AD models only door (G) must be closed. Press the green start button (B) twice). The pump station must stop when the platen (H) reaches the top position. You are advised to activate the emergency stop (A) before visually checking the top switch: Check that the top switch (K) is intact and free from defects. It must be possible to move the arm 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) (only on model X10) 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 baler must not eject the bale. 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.		
Check switch (P) (only AD models) Close door (G) and press the green start button (B). The AD door (R) will begin to close. Place an object on the top of the AD door (R), which should then stop immediately and open again. The pressure exerted by the object should not exceed a maximum pressure of 3 kilo. Remove the object and press the green start button (B).		

Check door switch (N) (only AD models) Then press the green start button (B). When the baler is running, press with one hand on the top of the closed AD door (R). When the AD door (R) is pressed down in this way, the baler should stop immediately. Release the pressure so that the AD door (R) springs into place and the press continues its cycle.		
Check the closing system on door (F) (not AD models) Open door (F) and check that the closing system works correctly.		

Safety check carried out on _____

Signature: _____

17 Spare parts

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

Item no.	Item text	X10	X16/25	X25 AD	X30	X30 AD
3715-001	Label, protection / earth connection.	X	X	X	X	X
3715-186	Label the press must not be emptied by ... (only Poland)	X	X	X	X	X
3715-187	Label the press must not be emptied by ... (only Denmark)	X	X	X	X	X
3715-203	Label standing about in front of the press ...	X	X	X	X	X
3715-247	Label truck handling	X	X	X	X	X
3715-326	Label lashing	X	X	X	X	X
3715-341	Label pictogram for X-series, cord and tape	X	X	X	X	X
3715-342	Label pictogram for X-series, standard door, steel wire		X	X	X	X
3715-344	Label pictogram for X-series, automatic door, steel wire		X	X	X	X
3715-371	Danger - high voltage	X	X	X	X	X
3715-373	Caution	X	X	X	X	X
2156-006	Pressure and temperature transducer	X	X	X	X	X
2658-009	End stop, complete (arm and roller)	X	X	X	X	X
2658-042	Microswitch, complete (arm and roller)			X		X
2658-046	End stop, complete (arm and roller)	X				
4103-001	Door switch complete	X	X	X	X	X
4103-002	Emergency stop, complete	X	X	X	X	X
4103-003	Repair switch, complete	X	X	X	X	X
4103-004	Push button, complete (green)	X	X	X	X	X
4103-005	Push button, complete (orange)	X	X	X	X	X
2685-033	Fuse (on the PCB)	X	X	X	X	X
2685-048	Fuse (in the cabinet)	X	X	X	X	X
PVN33101	Front screen	X				

PEY33224	Front screen		X	X	X	X