



Labeler EU1800



INSTRUCTION MANUAL

Brouwland

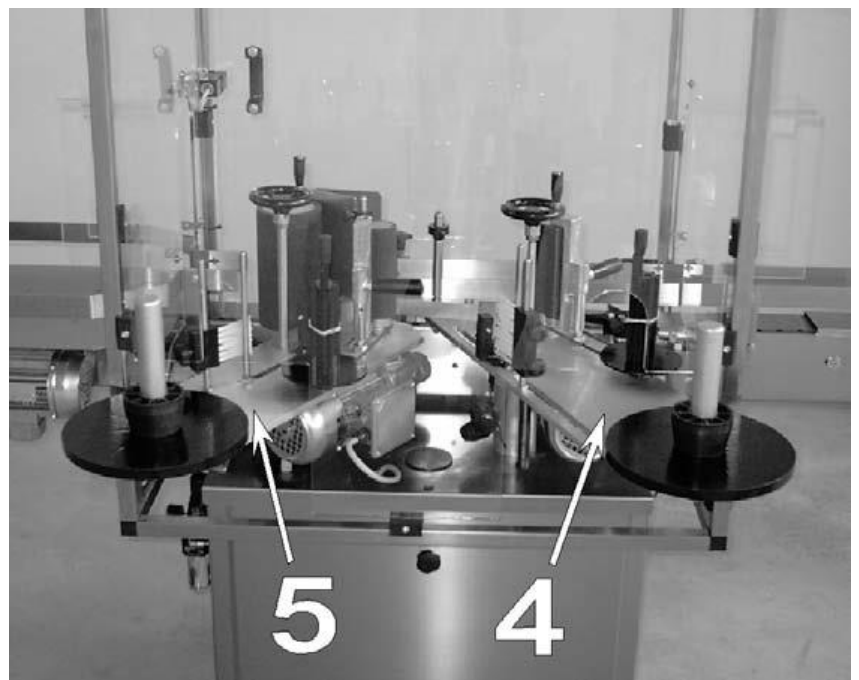
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Machine layout:



1. Transporting belt
2. Bottle entry protection tunnel
3. Machine safety device
4. Labelling head
5. Back labelling head (accessory)
6. Bottle Exit protection tunnel
7. Bottle collection level
8. Labelling device
9. Electric control panel closure protection
10. Control panel



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NOTA BENE The head for back labeling (part 5) is an accessory which is not supplied unless requested.

On board machine information:

A. On the control panel:



B. On the electric control panel protection shield:



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C. On the entry and exit tunnel:



CAUTION: Body parts must not be inserted into the tunnel when the machine is in operation



INTRODUCTION

This handbook has been prepared in accordance to the requirements stated in the European Regulation 2006/42/CE. It is an integral part of the machine, and for this reason a copy must always be available to the operator.

IMPORTANT: Do not use the machine without having first read the user and maintenance manual, and always take care to follow all instructions carefully.

BROUWLAND'S qualified personnel is always at full disposal for qualified intervention as well as for any eventual technical modifications requested by the customer for particular use.

Original spare parts, as indicated on the list in the section for the maintenance technician, should always be used.

PREMISE

GENERAL WARNINGS

It is important to follow all the instructions in this manual to guarantee operation of the machine in safe conditions.

As it is however impossible to foresee all incidents which could arise during machine operation, the operator has a degree of responsibility in operating the machine properly according to existing regulations.

WARNING FOR THE EMPLOYER

The employer must:

1. make sure that employees read the manual and be sure that all employees are aware of eventual residual risks.

The employer must also make sure that the users have understood the manual and that they have all signed the "training declaration" attached to the manual:

2. make sure the machine is installed in a dry, clean, quiet and sufficiently illuminated area;
3. make sure that the machine is used correctly according to the instructions given in the manual;
4. supply all workers with personal safety devices necessary for all on-board machine operations where these are required (maintenance, cleaning, etc.).

WARNING FOR THE USERS

All users must operate the machine as indicated in the machine manual taking care of both the machine and all the equipment supplied with it. The users must not make any modifications of their own initiative. Users must also inform the employer or person responsible for any fault, damage or weakness in the machine or in any of its components.

WARNING FOR THE MAINTENANCE PERSONNEL

When carrying out maintenance on the machine the operator must wear the personal safety equipment (where requested) supplied by the employer.

GUARANTEE

The conditions of guarantee are those specified on the purchasing contract signed by the CUSTOMER and BROUWLAND

BROUWLAND declines any responsibility in the following cases:

- If the machine is used for uses other than those covered in the user and maintenance manual.
- If the installation has not been performed correctly and where any components have suffered from this condition.
- If the machine has not be connected to a correctly functioning electric and/or hydraulic system which corresponds to the features requested in the manual.

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- If the machine maintenance has not been carried out within the times and with the methods indicated in the manual.
- If any modifications or interventions without authorisation by BROUWLAND have been performed.
- If non original or unapproved spare parts are used as replacement parts.

1. Foreseen and unforeseen uses

This labelling machine has been designed, built and made exclusively for the labelling of *round bottles (as indicated on the purchasing agreement)*.

The bottle which can be used on this machine must be of:

minimum height = 230 mm

maximum height = 370 mm

minimum diameter = 60 mm

maximum diameter = 110 mm

In case of other measurements, contact your local dealer's technical office for assistance.

Its operation can be described as: Bottle loading on the entry conveyor belt is manual (photo 2).

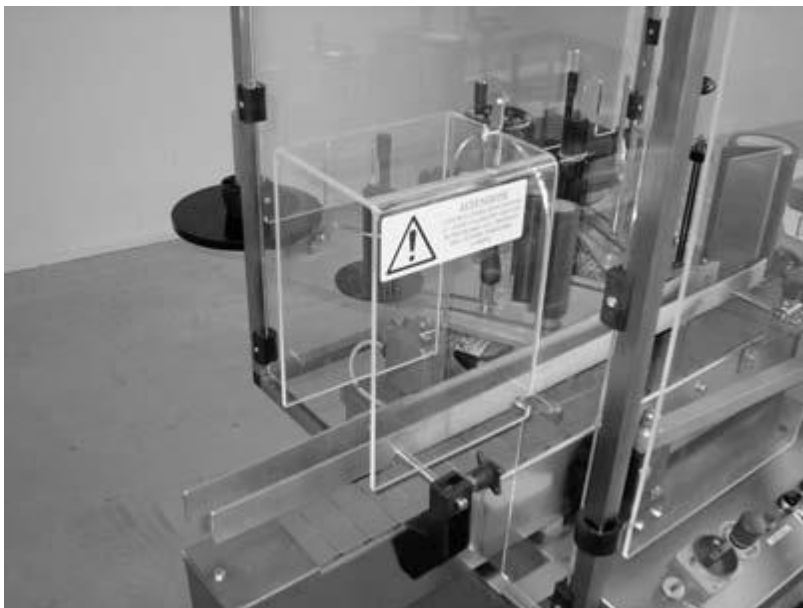


Photo 2

The conveyor belts take the bottles inside the machine where a star (photo 3) selects the bottles and phases the cycle for the correct positioning of the bottle for each labelling operation.

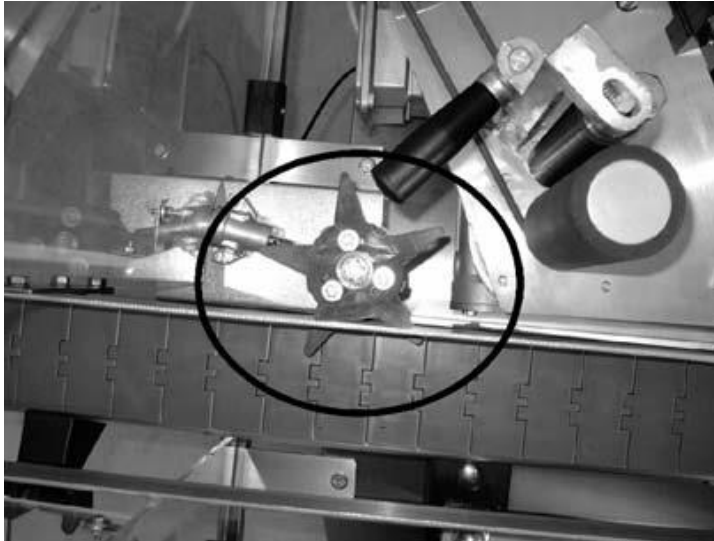


Photo 3

The front and back labelling operations are automatic and do not therefore require the intervention of an operator.

A device called the "pressing unit" (Photo 4) is made up of:

- 2 idle rollers (part. A) to convey horizontally and push the bottle towards the bottle rotating roller;
- 1 bottle rotating roller (part. B) to give the bottle a rotating movement for the labelling operation
- 2 cutting blades (part. C) which remove the front and back label (if present) from the support belt;
- 1 micro switch for label pick up and roller closure (part. D) located under the machine working area near the two cutting blades.

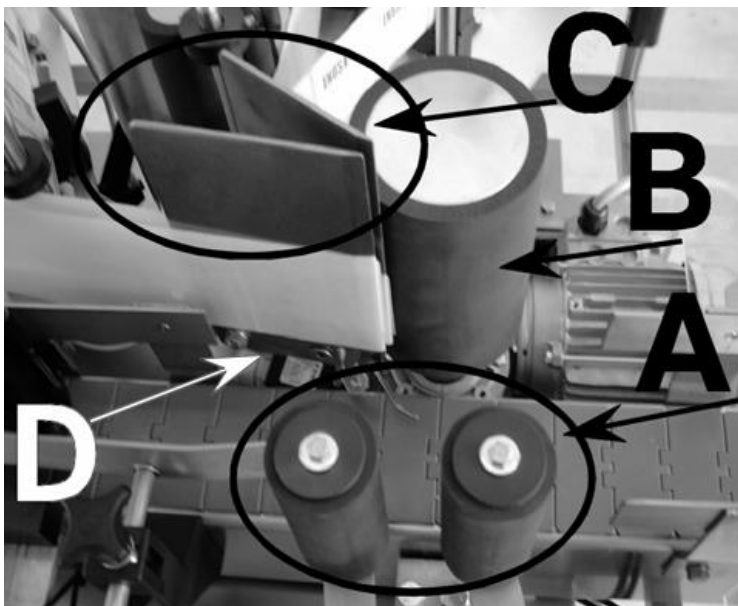


Photo 4



This device stops the bottle to be labelled, removes the label from its reel, fixes the label and releases the bottle so that it can continue its passage towards the bottle collection level (Photo 5).



Photo 5

At the point the operator must manually remove the bottles from the collection level. The type BASE labelling machine must be used solely in this manner; and other uses must be avoided as these could cause dangerous situations to arise for the operator.

2. Checks to be carried out

Before starting the machine the following checks must be carried out:

1. Verify that all protection shields are closed and are not removed or tampered with;

CAUTION: the removal, tampering with or opening of the protection shields could give rise to serious danger.

2. Verify that the safety micro switches on the machine front protection shields have not been tampered with

CAUTION: the tampering with of the safety micro switches on the protection shields could give rise to serious danger.

3. Before any processing, a micro switch working test has to be done: open the protection during the working process and check the actual stop of all the machine elements
4. Besides, before any processing, an emergency stop button test has to be done: push the button during the working process and check the actual stop of all the machine elements.

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Adjustment and set up:

Bottles with different diameters can be used on the machine (min. 60 mm, max. 110 mm) and various heights (min. 230 mm; max. 370 mm). To adjust and set the machine follow the instructions at paragraphs 3G and 3H.

3. Possible operation intervention

3.A. START UP PROCEDURE

1. After having performed the previous procedures;
2. switch on the power by placed the general switch of the machine on "1", at this point the power light goes on (part. A Photo 6);
3. The machine is now ready to be used.

3.B. START UP OF OPERATION CYCLE

The type **BASE** model should, in normal circumstances, operate in the automatic mode, with the manual bottle loading.

To start the machine and begin the cycle:

1. Check that the selector key (part. C) is in the automatic position; if not, request intervention of whoever holds the key for the selector.
2. unblock the red emergency stop push button (part. B)
3. press the reset push button (Part. D.)
4. press the roller belt push button (part. E) which starts the belt.
5. rotate the label selector clockwise (part. F), rotate the back label selector (accessory) anticlockwise (part. G)

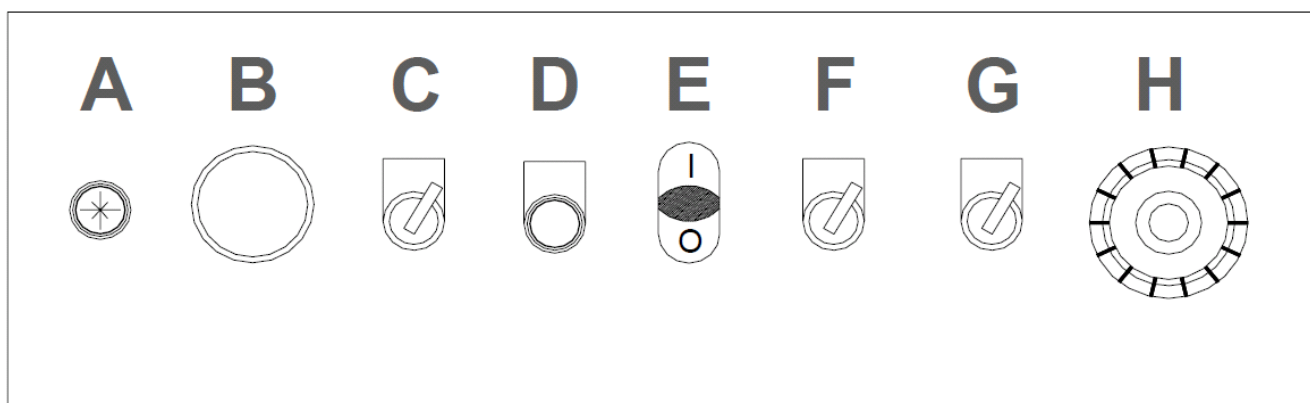


Photo 6

Manual and automatic cycle:

The machine is fitted with a selector key (part. G), which permits the type of cycle (manual or automatic) to be selected. The key is kept by a person responsible, authorised to intervene on the selector. The automatic cycle (indicated with "0" zero) serves for the normal functioning of the machine. The manual cycle (indicated with "1") must be used for the adjustments foreseen at page 15.

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CAUTION: when the labelling machine is in the manual cycle, the safety micro switches are disabled and the safety guards can be opened during the functioning.

Bottle loading and unloading:

The bottles must be loaded on the entry belt (on the left before the entry tunnel) and must be unloaded from the collection level (on the right after the exit tunnel) constantly to avoid too many collecting on the belt and causing damage inside the machine.

Front and back labels

If only one head is needed, leave the control selector in the vertical position. In this way it is possible to use only the desired head.

The back labelling head is an accessory which may not be installed. The control panel remains the same with the two selector keys.

When the back labelling head is not installed, it is possible for reels with both front and back labels to be used with the same head (see "when the front and back labels are on the same reel")

3.C. END OF CYCLE STOP

At the end of the cycle:

check that all the bottles have come out of the exit tunnel;

press the push button "0" (zero) of the roller belt (part. E photo 6 at page 9);

rotate the label selectors (part. F Photo 6 on page 9) and of the back label (accessory) (part. G Photo 6 on page 9) anti-clockwise to the vertical position;

After having carried out these operations, switch off the power supply system by placing the general switch), on "0".

3.D. INTERVENTION FOR "RESETTING ABNORMAL FUNCTIONS"

Refer to chapter 4 "abnormal functioning"

CAUTION: request the assistance of skilled technicians to remove any anomaly that need direct operations on the machine, following the removal of Allen screw fastened shelters. Risk of serious danger.

CAUTION: request the intervention of specialised personnel to resolve any blocking in the machine. Risk of serious danger.

CAUTION: any intervention on the machine with the electric control panel open must be performed by specialised personnel who have been sufficiently instructed and fully trained on risks deriving from incorrect operations. Risk of serious danger.

CAUTION: any intervention on the hydraulic system must also always be performed by qualified personnel. Risk of serious danger.



3.E. EMERGENCY STOP PROCEDURE

CAUTION: this procedure is followed during the machine working process and carried out only in case of danger as it will immediately stop the working process. Extreme caution must be used in its execution.

1. press the red emergency-stop button which is fitted with a mechanical stop device;
2. check that the machine stops immediately once the electric power supply is interrupted;

3.F. RESETTING THE MACHINE AFTER AN 'EMERGENCY STOP'

It is necessary to:

1. If, following abnormal resetting it was necessary to operate with the machine in manual; check that the selector key for the cycle selection is again of automatic at the end of this operation. If not, request the intervention of the person responsible who holds the key for the selector;
2. unblock the red emergency push button by pulling it upwards;
3. press the reset push button;
4. press the "1" push button for the roller belt on the control panel.

The machine, if the above has been performed correctly, begins the continuative automatic sequence.

CAUTION: carefully and attentively follow all the instructions indicated at paragraph 3.D.

3.G. FORMAT CHANGE

Before each format change it is necessary first to finish the operation in course and allow all the bottles inside the machine to exit. Remove all bottles on the collection table of the machine.

OPERATIONS TO BE CARRIED OUT WITH THE MACHINE SWITCHED OFF

Procedure for change of format:

1. Switch off the general switch by positioning it on "0"
2. Remove the compressed air supply pipe (photo 7)



Photo 7



ADJUSTING THE BOTTLE PRESSING DEVICE

Adjust the position of the bottle pressing device by unlocking the fly wheel (part. A). Place a sample bottle as indicated (fig. n.1) and check that the distance between the two bottle pressing rollers and the bottle itself is approx. 5/10 mm.

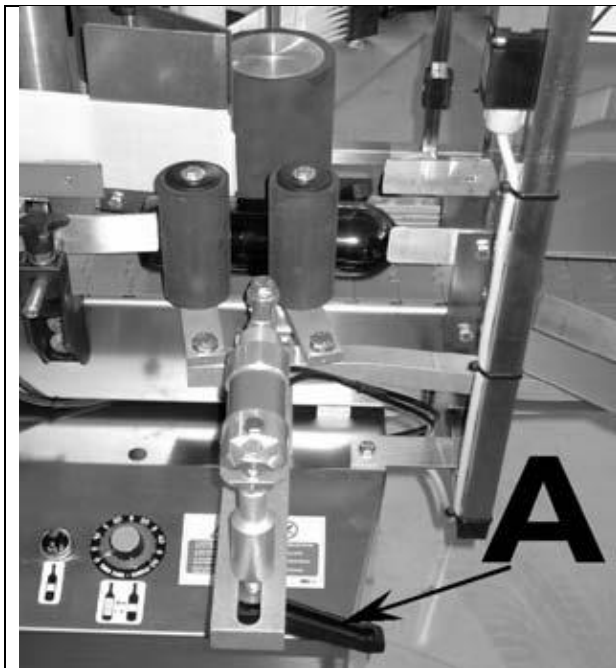


Photo 8

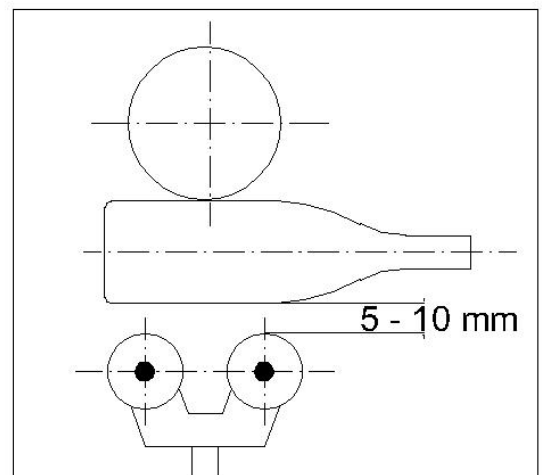


Figura 1

ADJUSTING THE CONVEYOR BELT GUIDING BARS AND THE STAR

Adjust the moveable bottle guiding bar to a distance of 3 mm from the bottle to be produced using the fixing levels (part. A and B Photo 9).

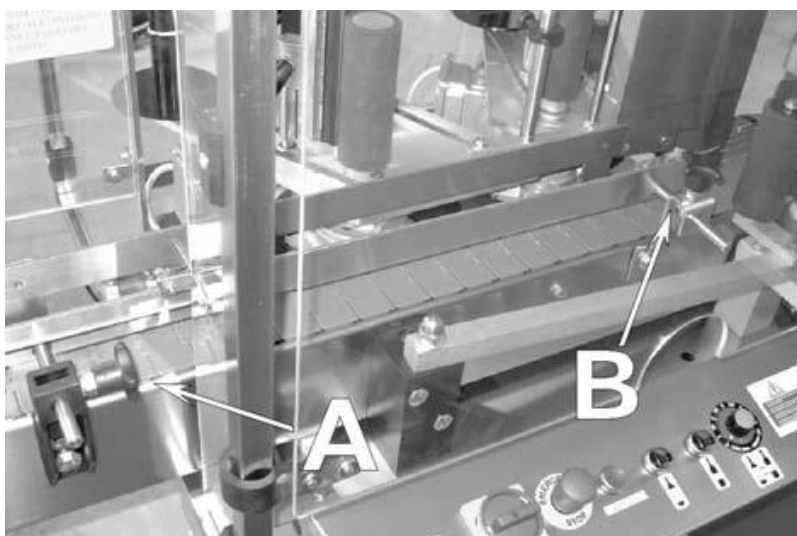


Photo 9

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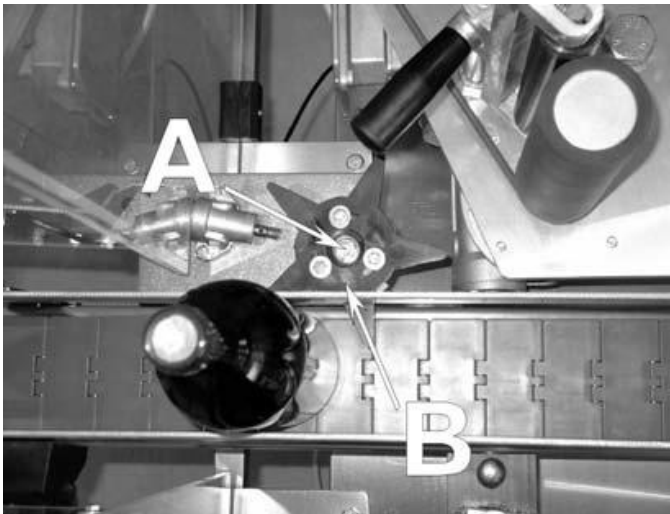


Photo 10

Check that the star used is sufficient for the desired production.

To replace the star, unwind the locking level (part. A Photo 10) extract the star (part. B Photo 10) and pull upwards. Insert the required star and close the lever.

ADJUSTING THE FRONT AND BACK LABEL HEADS

If the height of the labels changes:

unlock the safety handle (part. A photo 11). To place the labelling head in the desired position in respect of the bottle use the fly wheel (part. B photo 12);
Once the operation is finished relock the safety handle.

If the back label height changes:

unlock the safety handle (part. A photo 13). To place the labelling head in the desired position in respect of the bottle use the fly wheel (part. B photo 13).
Once the operation is finished relock the safety handle.

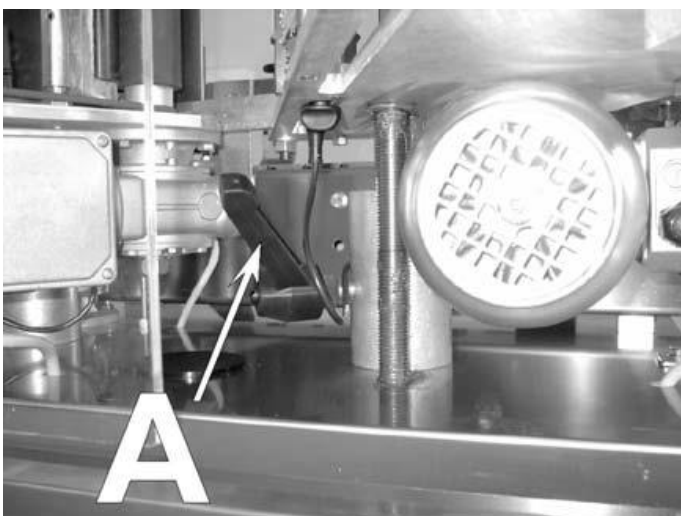


Photo 11

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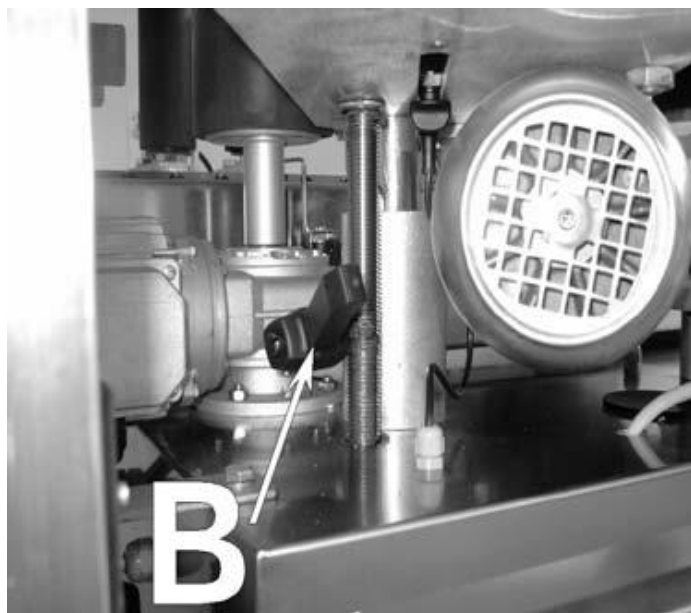


Photo 12

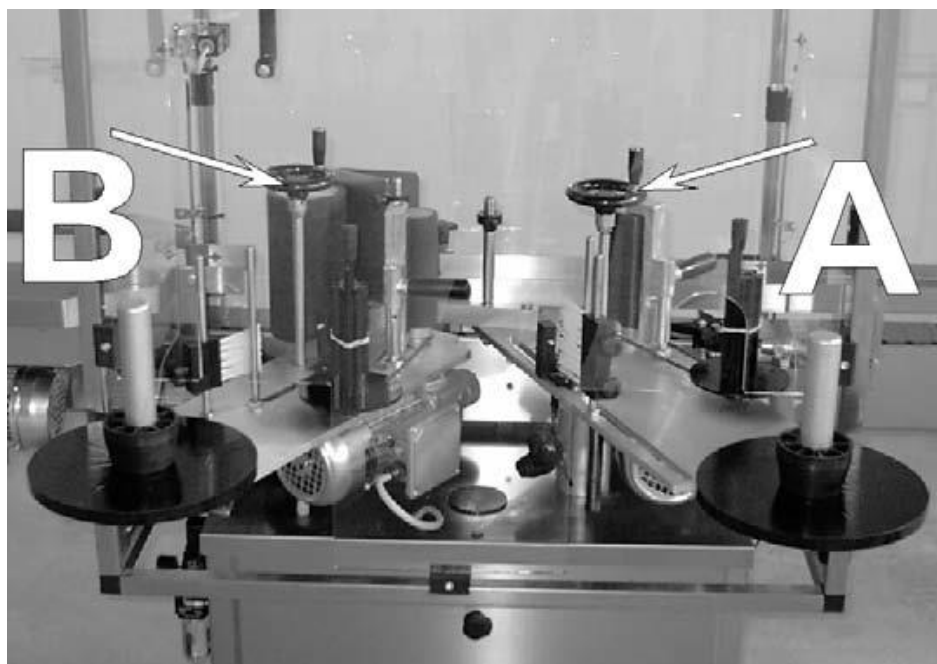


Photo 13

NOTA BENE: after any format change operation, before restarting the machine, connect the compressed air feeding pipe to the machine connections.

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OPERATIONS TO BE CARRIED OUT IN MANUAL CYCLE

NOTA BENE: if other interventions which requested the use of the "Primary procedure for format change" have been used, it will be necessary to reconnect the hydraulic system and insert the feeding power by rotating the general switch of the machine (selector on the left side of the electric control panel).

The operations in the manual cycle will exclusively be responsibility of the person holding the key for the selector cycle.

If the length of the front and back label changes:

1. position the label reel to be used by following the reel change (paragraph 3.I. at page16);
2. place the start of the label reel in conjunction with the beginning of the (photo 14);
3. at this point adjust the label photocell reading (part. A photo 15). To do this unblock the stopper (part. B photo 15) of the photocell and adjust "the reading" of the photocell to about 1 cm from the start of the label reel (when the pilot light goes on the label starts);
4. at the end of the operation, reblock the photocell stopper.

To check that the adjustment has been carried out, perform a test in the manual mode by rotating the selector of the head required, and press the roller belt start push button (this operation permits a complete labelling cycle).

If not perfectly adjusted, repeat until the best result is obtained



Photo 14

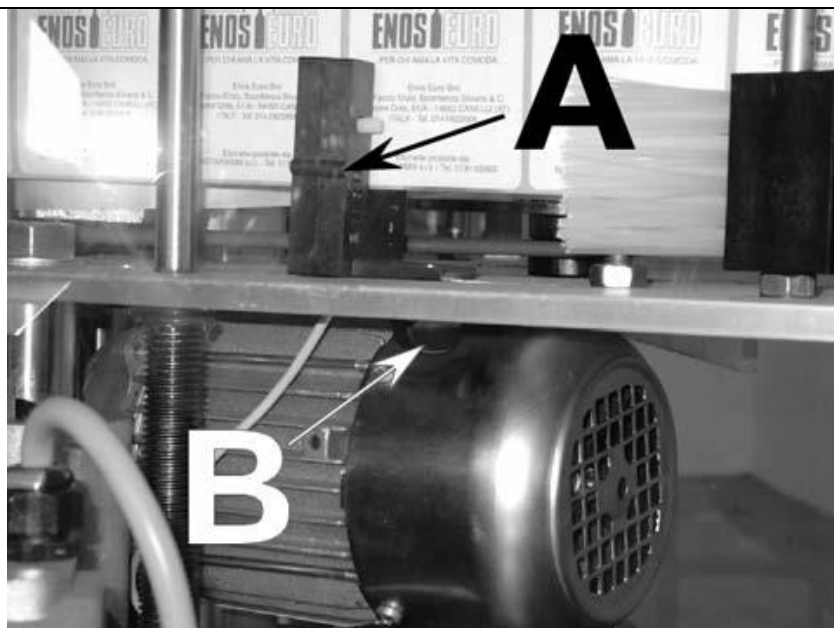


Photo 15

**If the front and back labels are on the same reel:**

1. rotate the back label selector clockwise in a horizontal position;
2. carry out the steps explained above (**If the lengths of the front or back labels change**);
3. adjust the position of the front and back labels by using the front and back label Timer device (part. H photo 6, page 9).

3.H. REGULATING AND ADJUSTING

When first used and each time any of the settings of the machine components need to be changed owing to change

of production, maintenance interventions, etc., the following adjustments must be performed:

- Adjust the front and back labelling heads.
- Adjust the bottle pressing device.
- Adjust the bottle guide bar.
- Adjust the positions of the front and back labels

ADJUSTING AND TESTING IN THE MANUAL CYCLE

To make adjustments during the manual cycle it is necessary to:

1. place the selector key on manual (position 1)
2. press the RESET push button at this point it is possible, by using the command on the electric control panel, to drive the various machine components:

belt push button pressed	=	makes belt advance
belt push button pressed + label selector rotated clockwise	=	permits complete front labelling cycle
belt push button pressed + back label selector rotated clockwise	=	permits complete back labelling cycle

NOTE:

It is possible to rotate different selectors and perform a complete labelling cycle on different heads at the same time.

Moreover if the selectors remain rotated it is sufficient to repress the belt start push button to perform other labelling cycles.

Also other eventually installed accessories can be adjusted with the same procedure.

Manual cycle operations are allowed exclusively by the person responsible holding the key for the selector cycle.

3.I. REPLACING THE FRONT AND BACK LABEL REEL (PHOTO 16)

When the reels of labels are to be replaced:

- Remove the centring cone (part. A)
- Remove the empty reel from the plate (part. B)
- Remove the paper reel on the paper collecting plate (part. C)
- Place the new reel of labels on the departure plate.
- Reinsert the centring cone.
- Open the tightening brush (part. D) by using the appropriate lever (part. E).



- Take the beginning of the reel and insert it through the brush (part. D) e and the steel rod (part. F).
- Lead it inside the photocell (part. G), between the two reading devices.
- Rotate the reel to the right around the steel rod (part. H), to the beginning of the cutting blade (part. I).
- Wind the reel on the side opposite the cutting blade.
- Continue until you reach the paper towing roller (part. L).
- Manually open the paper pressing unit (part. M), with the appropriate lever.
- Rotate clockwise around the paper towing roller (part. L).
- Continue with the reel up to the paper collecting plate (part. C).
- Wind a couple of centimetres of the reel around the pivot (part. N) of the paper collecting plate.
- Insert the fixing plug, from up to down into one of the four openings on the pivot.
- Lock the paper pressing unit (part. M).
- Reclose the tightening brush (part. D) with a slight pressure on the steel rod (part. F).



Photo 16

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NOTA BENE: replacement of the back label reel is carried out in the same way by acting on the "back labelling head". Details are indicated in photo 16 with the same letter followed by the symbol ' (e.g.: A', B', etc...)

NOTA BENE: where the height of the front and back label changes, follow the indications at paragraph 3G

4. Abnormal functioning

INCONVENIENCE: BLOCKING OF THE FRONT AND BACK LABEL REELS

REMEDY:

In these cases the operator should:

- Stop the machine by pressing the red emergency-stop button fitted with a mechanical stop device;
- Open the machine front protection shield;
- Remove the damaged part of the reel;
- If necessary repeat the reel change operation described at paragraph 3.I on page 16;
- Close the front protection shield of the machine;
- restart the machine by pressing the reset button and then the buttons "1" to drive the roller belt on the control panel.

INCONVENIENCE: BREAKAGE OF ONE OR MORE MACHINE COMPONENTS:

REMEDY:

In these cases the operator should:

- Stop the machine by pressing the red emergency-stop button fitted with a mechanical stop device;
- Request the intervention of a maintenance technician;
- Await for the maintenance technician to carry out repairs and to reset the machine;
- restart the machine by pressing the reset button and then the buttons "1" to drive the roller belt on the control panel.

INCONVENIENCE: BOTTLE BREAKAGE, FALL OR BLOCKING

REMEDY

In these cases the operator should:

- Stop the machine by pressing the red emergency-stop button fitted with a mechanical stop device;
- Open the machine front protection shield;
- In the presence of one or more broken bottles: remove the broken parts (using appropriate means of protection);
- In the presence of one or more fallen bottles, replace them on the belt in their original position (if they are still to be capped, before the capping head, if already capped, before the bottle pressing device);
- Close the front protection shield of the machine;
- restart the machine by pressing the reset button and then the buttons "1" to drive the roller belt on the control panel.

NOTA BENE: if – when resolving eventual problems – it is necessary to operate with the machine in manual cycle, request the intervention of the person responsible holding the key for the selector.

CAUTION: do not use compressed air to clean the machine of any glass fragments; their projection could cause serious danger.



5. Information

In compliance with the regulations stated in European Directive, regarding the safety and health of operators at work:

General

The employer must inform the employee of :

1. safety and health risk regarding the Company activity in general;
2. all protection and prevention methods adopted;
3. specific risks to which the operator may be exposed, safety regulations and company regulations regarding these ;
4. dangers connected to the use of harmful substances indicated on the safety data sheets and foreseen by existing regulations and appropriate technical use;

Use of equipment supplied

1. The employer must make sure that, for all equipment supplied, each employee has access to all the information regarding use of the equipment, safety procedures involved as well as:
 - a) the conditions of the equipment in use bearing into account any conclusions reached upon its use from experience acquired during its implementation;
 - b) any foreseeable abnormal situations.
2. All available information and instructions for use must be understandable to all employees.

Use of personal safety devices

The employer:

- c) must supply comprehensible instructions to all employees;
- d) must inform all employees of the risks for which the personal safety devices must be used;

6. Formation

General

The employer must make sure that all employees are sufficiently and adequately trained and informed regarding health and safety especially referring to each individual work station and responsibilities.

1. Training should be given upon:
 - a) employment
 - b) transfer or change of responsibilities
 - c) the introduction of new equipment and technology, new substances and dangerous substances.
2. Information and training must be given at regular intervals and whenever new risks arise or existing risks are modified.

Use of equipment

The employer must make sure that :

- a) workers using the equipment are fully informed and instructed about the correct use of the equipment;
- b) workers using equipment which requires particular knowledge and responsibility must be adequately and specifically trained to use the equipment in a suitable and safe way also regarding eventual risks to other people.



Use of personal safety devices

The employer: organise suitable formation and specific training on the correct practical use of personal safety devices.

7. Training

Training is the activity used to make employees aware of the correct use of the machine and the responsibilities with which they operate (information and formation).

8. Residual risks

8.A. RISKS CAUSED BY FORBIDDEN PROCEDURES

- All the foreseen and programmed use of the machine must be performed with the protection shields in use ;
- It is however possible to operate with the machine open in the manual cycle. This option is available only to the person responsible for the key to the selector. In this working situation by pressing the belt-roller push button and by acting on the respective commands (push buttons or selectors) of the machine components, it is possible to move one or more components forward. The person responsible must keep his hands on the control panel and cannot thus operate inside the machine. It is absolutely forbidden for other operators to work inside the machine whilst the person responsible is working on the control panel in the manual cycle.
- It is absolutely forbidden to carry out the working cycle with personnel or foreign objects within the protective perimeters of the machine;
- The machine must not, for any reason, operate without the protection shields installed, open or tampered with;
- Do not tamper with the safety micro switches on the protection shields ;
- Do not operate with the electric control panel in tension;
- Do not insert parts of the body into the entry or exit tunnel when the machine is switched on (part. A Photo 17) and (part. B Photo 17).



Photo 17



CAUTION: insertion of any part of the body inside the entry or exit tunnels of the machine could cause risk of serious danger!!

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**MAINTENANCE MANUAL****1. Loading, transport & unloading machine**

The loading and unloading of the machine must be done with the use of a fork lift truck (trans-pallet or forklift) of suitable capacity.

The machine must be transported by a suitable vehicle with sufficient weight capacity. Planks of wood must be used between the floor and the machine to avoid the machine sliding and moving.

The machine must be safely secured in the vehicle with high resistance cables.

Any edges or parts where the cables rest must be protected with adequate protections to avoid damage to the machine caused by rubbing or unforeseeable collision.

UNPACKING:

If the machine is only packed, it is sufficient to remove the nylon covering, taking care not to ruin parts of the machine during the removal.

If the machine is in wooden crates:

Open firstly the side indicated by the arrow; then the upper side; then remove the remaining sides;

2. Positioning and set up

Make sure the floor upon which the machine is to be installed is suitable for the weight of the machine (approx. 250 kg when empty, excluding the bottles and the operator working near the machine).

Verify that the machine is placed on a flat surface (in some cases the machine is fitted with height adjustable supports according to the customer's requirements);

For the first use it is necessary to carry out the operations below before starting the machine :

1. make sure that the perimeter protection shields have been installed;
2. connect the machine to the electrical power supply, making sure that the power supply corresponds to the power supply required for the machine (see electrical system characteristics on page 23);
3. connect the machine to the air supply network (see the hydraulic system characteristics on page 23);
4. check that the conveyor belt moves from left to right, providing power to the machine through the general switch and by pressing the drive push button;
5. If the direction is not right (from right to left), it is necessary to switch off the machine, unplug it from the power supply and insert a phase in the power socket before reinserting the plug.
6. After these procedures the machine is ready for the machine start-up operation indicated at page 9

CAUTION: this operation must be performed by personnel specialised in electricity supplies.

3. Description of machine configuration**Dimensions:**

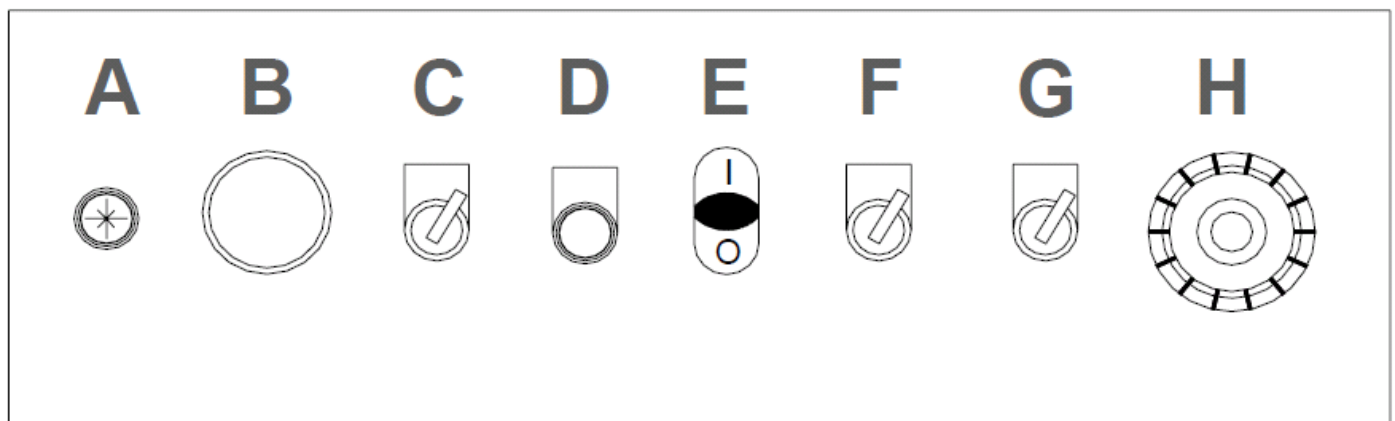
height: 1700 mm ; length: 2000 mm ; depth: 1200 mm ; weight: 250 Kg when empty

**Machine Body**

1. Conveyor Belt: made in plastic; connected to a towing motor (see description in the electrical system) with a gear transmission unit (on the right); on the left is a transmission unit.
2. Bottle entry and exit protection tunnel: made in flexi-glass, fitted to the machine with stainless steel rods and hexagonal 6mm screws.
3. Front and back labelling head: aluminium support plate, reel support plate and paper collecting unit in plastic, stainless steel cutting blade and column, handles, knobs and fly wheels in plastic, rubber reel towing roller.
4. Machine body protection device: 25x25 stainless steel protection cover, flexi-glass hinged doors fitted with safety micro switches, flexi-glass panels fitted to the frame with clamps and screws.
5. Labelling unit: rubber rollers with aluminium supports, bottle pressing cylinder (see hydraulic system drawings attached).
6. Bottle collection plate: made of stainless steel with side panels, bottle deviating unit in plastic.
7. Push button control panel: on the front of the machine (see Photo 18).
8. Electric control board protections shield: made of stainless steel and fitted to the machine with screws.
9. Support wheels: treated iron forks and rubber wheels.
10. Support units (if present): threaded rods in treated iron and supports in plastic.

Commands on the push button control panel on board machine (from the left):

- A. Power on light
- B. Emergency stop bush button with mechanical stop
- C. Cycle selector (automatic – manual)
- D. Reset pushbutton
- E. Roller belt drive stop push button
- F. Front label selector
- G. Back label selector
- H. Timer



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4. Hydraulic - Electric system technical data

A. ELECTRIC SYSTEM

POWER SUPPLY 380 V - 50 HZ – THREE PHASE

Supply to: the electric motors

Electric motors: 380 V

50 Hz

0,18 KW

1340 rpm

0,7 A

IP 55

The motors drive:

The conveyor belt

Bottle rotating fixed roller

The labelling head (self braking motor)

The back labelling head (if present) (self braking motor)

POWER SUPPLY 220 V: printer.

POWER SUPPLY 24 V

The relays and remote control switches

Selectors, pilot lights, push buttons on the electric control panel

Solenoid valves

The safety micro switch of the open able protection shield

POWER SUPPLY 18.5 V: Control board

POWER SUPPLY 15 V

Front and back label photocell

Start cycle micro switch

Back label centring timer

B. HYDRAULIC SYSTEM :

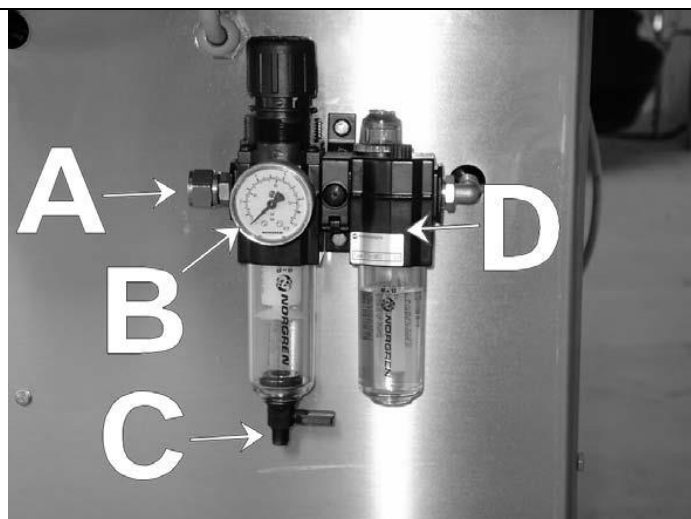


Photo 19

working pressure min 4 bar, max 6 bar

Connection pipe system for the general network (part. A)

Pressure gauge (part. B)

Steam elimination part (part. C)

Lubricating unit (part. D)

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5. Absorbed power

The type BASE Labelling Machine absorbs a total of 1 KW electric power.

6. Maintenance

Maintenance, if carried out attentively and within the dates indicated, is the main factor in guaranteeing the efficiency and long working life of the machine.

The maintenance operations include the removal of the protection guards – this must always be done when the machine is at a standstill.

Maintenance must be carried out by a qualified technician for the particular types of intervention requested.

Before beginning any maintenance work the machine must be placed in the safety condition.

In particular it is important to :

- disconnect the machine from the electric power supply system;
- disconnect the compressed air supply system;

The following table indicates ORDINARY maintenance to be carried out regularly for the efficient operation of the machine over a long length of time.

CAUTION: Read the maintenance manual before any intervention on the machine.

6.A ORDINARY MAINTENANCE

Control operations on the general machine condition and cleaning	Frequency
Visual control to check any damage, wear, tampering or loose screws;	MONTHLY
Check for any air leaks from the hydraulic system (pipes, connections, cylinders, valves).	WEEKLY
Evacuate steam from the hydraulic filter.	MONTHLY
Cleaning of the bottle locking rollers(*)	EVERY SIX MONTHS
Check the oil level in the pressure regulating unit lubricator (**)	Every 500 working hours

(*) for the roller cleaning use non aggressive products which could damage the roller rubber.

(**) in case of lack of oil, top up to the maximum oil level, with oil: *FINA Lyran* or with similar oil (Photo 20).

During all mechanical maintenance operations it is obligatory to wear safety gloves and shoes with iron caps and suitable work clothes.



Photo 20

CAUTION: do not clean the machine with jets of compressed air. Use suitable cleaning equipment (clothes, brushes, etc.) when the machine is at a standstill.

6.B EXTRAORDINARY MAINTENANCE

Extraordinary maintenance on the machine type BASE must be carried out by specialised personnel and with original spare parts supplied by BROUWLAND. If non original spare parts are used BROUWLAND declines any responsibility regarding damage or injury caused to people or machinery or any responsibility of an economical nature caused

by the inactivity of the machine. In such cases the user and maintenance manual ceases validity. BROUWLAND remains at full disposal for the whole life of the machine, for any consultancy, technical information and complete assistance in the case of any complex intervention.

7. Noise

From tests performed, when empty the machine emits one Leq less than 70 dB(A).

It is important to measure the noise level of the machine once it has been installed and is working at full capacity.

The user is responsible for keeping note of the noise level.

8. Disposal

Once out of service and ready for disposal, the following precautions must be taken with the machine to avoid situations of danger.

Follow these general instructions :

1. disconnect the machine from the electric power supply and make sure that there is no tension in the machine;
2. disconnect the machine from the hydraulic power supply;
3. lock all the moveable parts of the machine making sure that there is no possibility of movement during the transport operations;
4. cover the machine with suitable resistant sheeting;
5. move the machine to a safe place and on suitable flooring;
6. in case of scrapping the components of the machine must be subdivided to allow their eventual reuse, recycling or disposal according to existing pollution regulations.

CAUTION:

The placing out of service and disposal of the machine must be carried out by specialised personnel with full training on the residual risks on the machine even if this is no longer active.

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ACCESSORIES

1) AUTOMATIC POSITIONING SYSTEM WITH RESPECT OF THE LABEL OR CAPSULE POSITIONING:

behind the bottle rotation roller (part. A) in the labelling device and is made of a photocell (part. B), and a brass support rod (part. C).

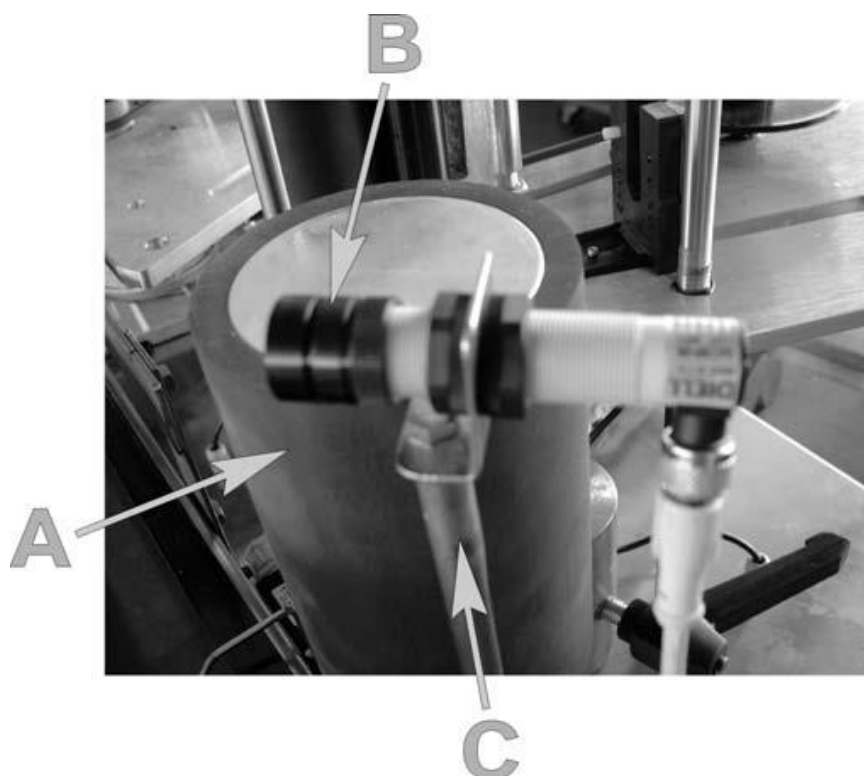


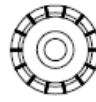



Photo 1

DRIVE COMMAND:

On the control panel, the drive and control of this accessory, are indicated with these symbols:

<p>Selector</p>  <p><i>photo 2</i></p>		<p>Timer device</p>  <p><i>photo 3</i></p>	
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**OPERATION:**

When this accessory is to be used, it is necessary, during the machine start operations to rotate the control selector (Photo 2) clockwise.

The accessory can be used for two different types of centring:

1. centring of the label in respect of a brand present on the capsule (only with bottles still to be labelled);

when the photocell reads the brand name on the capsule it sends a signal to the machine control panel which informs the timer to delay the exit of the label (Photo 3).

2. centring of a second label in respect of a label already present on the bottle (labelled bottles): when the photocell reads the beginning of the label on the bottle, sends a signal to the machine control panel which informs the timer to delay the exit of the second label to be placed on the bottle (Photo 3).

NOTA BENE:

If as well as the automatic labeling and capsules positioning system, the automatic marking positioning system is also present, the selector has 3 positions and allows the selection of any of the accessories. The timer is solely one and its operation depends wholly on the position of the selector.

After this operation it is necessary to carry out a test with sample bottles to determine the desired positioning:

1. of the label in respect of the brand name on the capsule, by using the timer.

or

2. of the second label in respect of that already on the bottle, by using the timer.

Once the desired position has been found the normal procedures indicated on the previous pages can be followed.

CHECKS AND ADJUSTMENTS:

It is important that the positioning photocell is at the height of either the label or the capsule (option 1) or (option 2).

To make the adjustment:

- unscrew the locking knob on the support rod;
- position the photocell (part. B Photo 1) to the height desired;
- relock the knob.

Contact BROUWLAND'S technical office in case of difficulty.

RESIDUAL RISKS:

When evaluating the machine risks, no particular risks emerged connected with the equipment.



2) AUTOMATIC POSITIONING SYSTEM IN RESPECT OF THE MARK POSITIONING:

this is below the bottle rotating roller (part. A) in the labelling device and is made up of a micro switch and a steel rod (part. B).

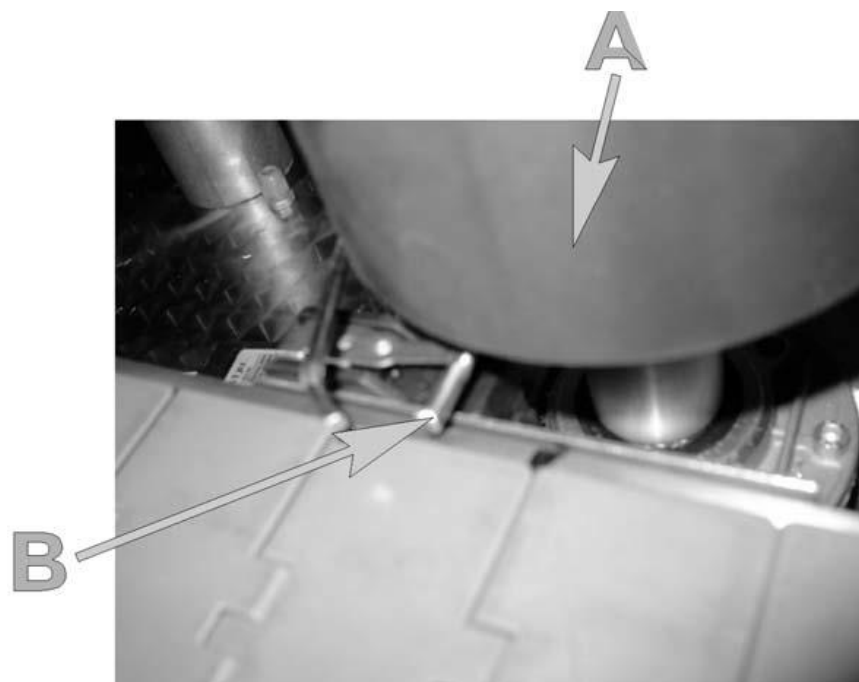
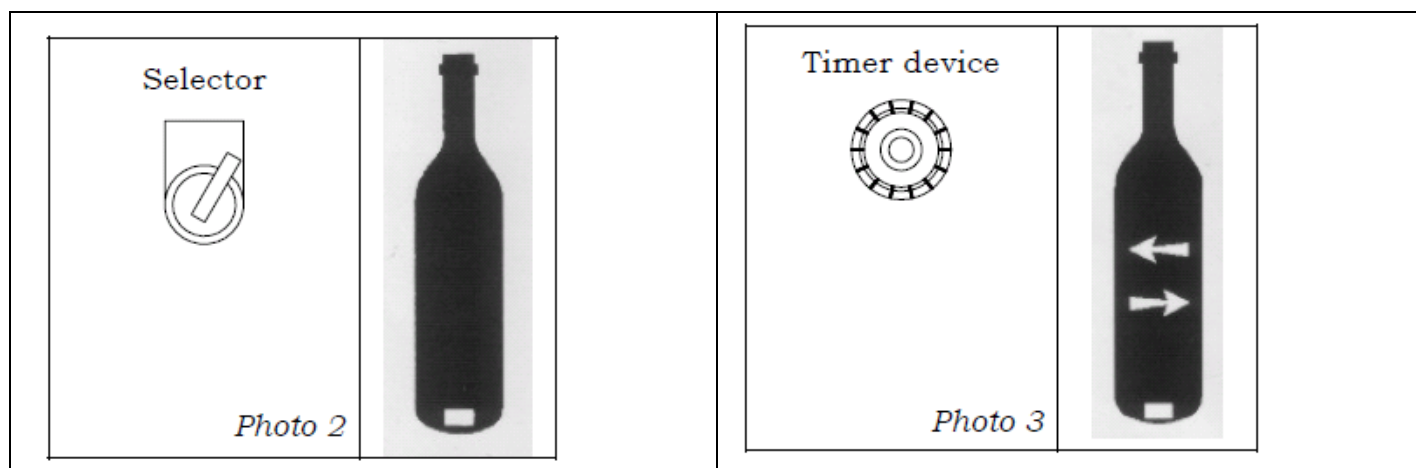


Photo 1

DRIVE COMMANDS:

On the control panel, the drive and control of this accessory, are indicated with these symbols:



**OPERATION:**

When this accessory is to be used, it is necessary, during the machine start operations to rotate the control selector part. A Photo 2) clockwise.

When the micro switch rod is on the mark of the bottle a signal is sent to the machine control panel which informs the timer (Photo 2) to delay the exit of the label.

After this operation it is necessary to carry out tests with sample bottles to check the position desired of the label in respect of the reference point of the bottle (e.g. marked bottle), by using the timer (Photo 3).

Once the desired position has been found the normal procedures in the manual can be followed.

NOTA BENE:

If as well as the automatic marking positioning system, the automatic labeling and capsules positioning system is also present, the selector has 3 positions and allows the selection of any of the accessories. The timer is solely one and its operation depends wholly on the position of the selector.

NOTA BENE:

The bottles to be used must have the appropriate center mark (photo 4).



Photo 4

CHECKS AND ADJUSTMENTS:

Check that the spring on the rod of the micro switch is operating.

No other adjustment is necessary.

Contact BROUWLAND 'S technical office in case of difficulty.

RESIDUAL RISKS:

When evaluating the machine risks, no particular risks emerged connected with the equipment.



3) PRINTER

There are three types of printers but their main operation is the same. Only the area for printing changes.

POSITIONING:

the printer (Photo 1) is located at the back of the machine near the labelling head.

DRIVE COMMAND:

The control panel (Photo 2) of the printer is located near the printer itself:

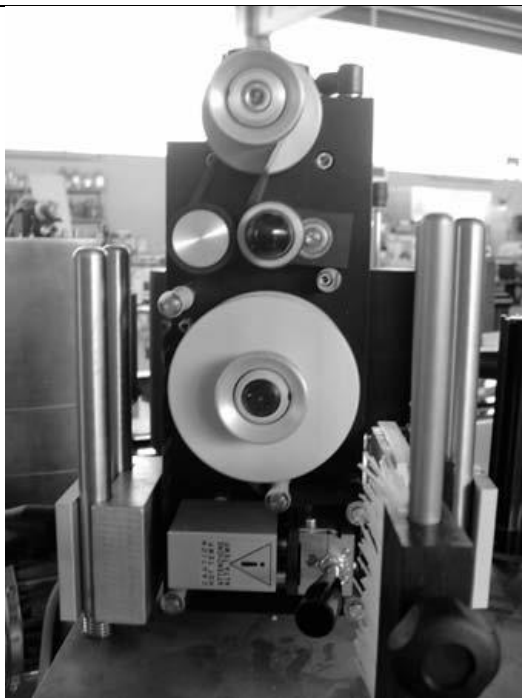


Photo 1



Photo 2

OPERATION:

Read the instructions in the manual attached to the machine user and maintenance manual.
Contact BROUWLAND'S technical office in case of any difficulty.

RESIDUAL RISKS:

Do not touch the device when it has just been used in case of high machine temperature. Always use suitable individual safety devices.

It is severely forbidden to remove the safety protections shields which protect the printer.

SUPPORTS AND PROTECTIONS:

The printer is supplied with suitable support devices and appropriate safety protection units

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