

Operating and Maintenance Manual

Corks / Caps feeder Mod. A10



1. WARNINGS

Carefully read the instructions provided in this manual in order to take full advantage of the machine features, to avoid potential damage due to the wrong use of the machine and to protect the safety and health of the operator.

Maintenance operations are easy to perform: please carefully follow the instructions provided in this manual and refer to the relevant pictures (the machine in the pictures may be different from the actual one, since sometimes cases or other components may have been removed to make pictures clearer).

This manual should be retained in a conveniently accessible area for quick reference.

Using the machine for a different purpose than the one it was designed for can cause dangerous conditions, damage to the machine and risks for the operator.

The manufacturer deny any responsibilities for any damage due to an incorrect use of the machine, wrong operations, lack of maintenance, damage to the electrical system due to contact with external elements, acts of nature and so on. The manufacturer responsibility is exclusively limited to defects in manufacture.

Moreover, the manufacturer cannot be held responsible if unqualified personnel completes or partially performs assembling, installing or setting up operations.

The manufacturer reserves the right to change and/or improve the technical and structural features of the machine.

2. GENERAL SAFETY

PLEASE READ CAREFULLY THE FOLLOWING NOTICE

Before starting the operation of this machine read carefully this notice, in case of any doubt you may call the manufacturing company Bertolaso for further clarification.

Do not place the machine in corrosive and/or explosive environments, but use it in normal working conditions; do not use the machine with products which are different from the ones it was designed for (shape, size, weight, material and so on).

Do not skip safety and protection devices, especially during routine maintenance. Never use or start the machine when the fixed safeguards are not properly and firmly in place.

AN INCORRECT USE OF THE MACHINE MAY BE DANGEROUS AND CAUSE SERIOUS ACCIDENTS

Do not wear large clothes or prominent items which may get caught in the machine controls or moving parts.

DO NOT ALLOW UNAUTHORIZED PERSONNEL TO GET CLOSE TO THE MACHINE DURING OPERATION

3. DICHIARAZIONE DI CONFORMITA'

Machinery Directive CEE 98/37 CE And following amendments



THE MANUFACTURING COMPANY BERTOLASO. DECLARES UNDER ITS OWN RESPONSIBILITY THAT THE MACHINE BELOW CODED WAS DESIGNED AND MANUFACTURED IN COMPLIANCE WITH :

- **THE MACHINERY DIRECTIVE CE 98/37 CE**
- **THE MACHINERY DIRECTIVE 2006 / 95 / CE ABOUT ELECTRICAL PARTS**
- **THE DIRECTIVE ON ELECTRO-MAGNETIC COMPATIBILITY 2004 / 108 CE**
- **THE LAW : D. LGS. 81 / 2008**

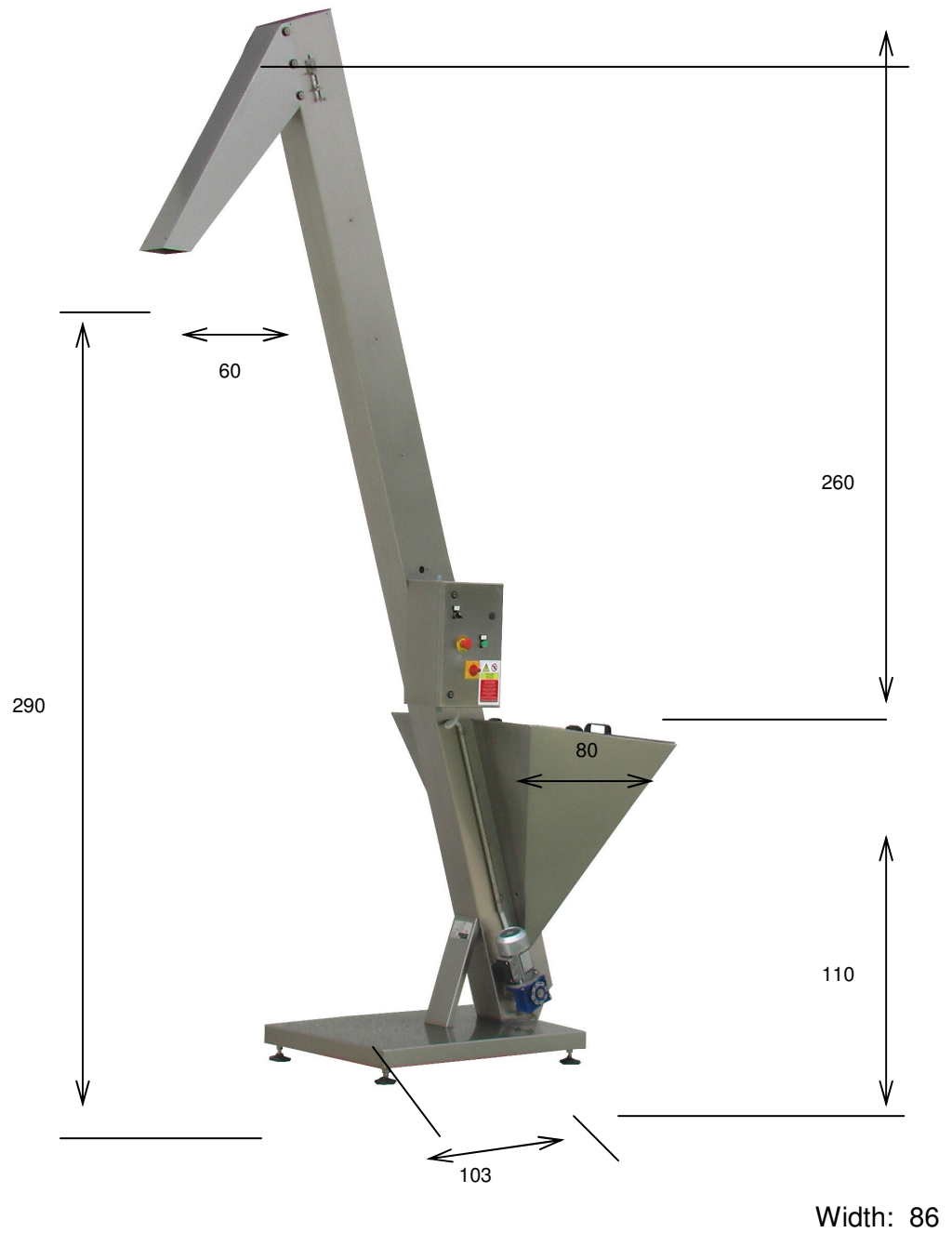
Model	A 10
Serial number	9 - 285 - E
Year	2009
Power supply	380 V / 50 Hz

Calamandrana li: 08/10/2009

Person in charge : Martini Marco: _____

4. DESCRIPTION

4.1 MAIN SIZES



4.2 MACHINE DESCRIPTION

The elevator mod. A10 is designed for the automatic feeding of corks and caps of different sizes and shapes.

It is supplied complete with a loading hopper with swinging bottom and sensor detecting the level of corks.

The corks are motioned by a special belt, with a self-levelling control at the outfeed.

Main technical specifications :

Corks / Caps Elevator mod. A 40
Corks / caps motioned by PVC turning belt
Loading hopper with swinging bottom
Self-levelling device in the hopper of the capping machine
Loading hopper with capacity about 0,325 m ³
Designed for feeding corks / caps in different materials, sizes and shapes
Machine complying with EEC safety laws

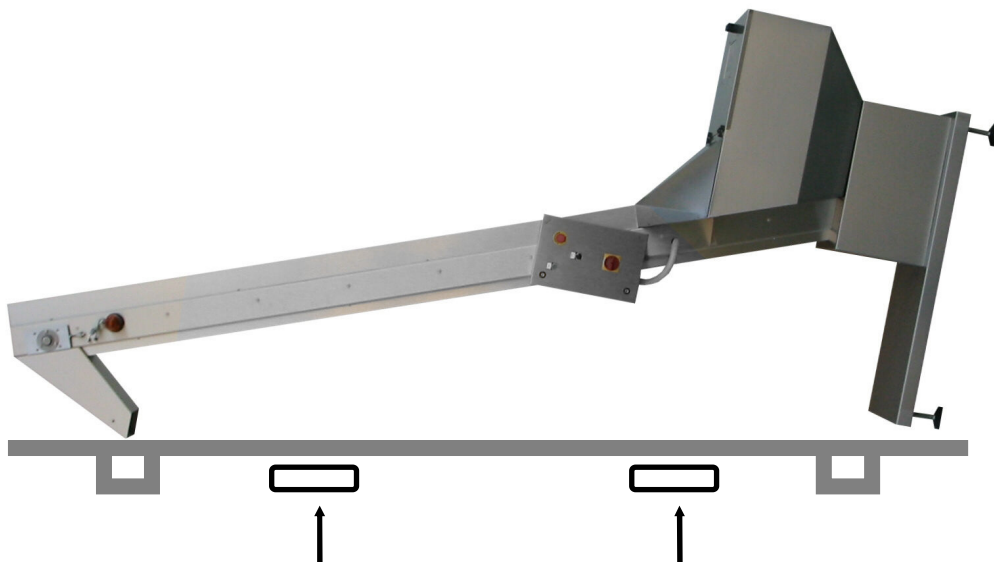
4.3 NOISE LEVEL

The usual noise level of the machine in normal operation is between 60 dB(A) and 70 dB(A).

5. TRANSPORT

The machine can be delivered without packing, or packed on wooden pallet or inside wooden crating.

The machine can be lifted by a lift-truck (with min. capacity 1000 kgs.) to be positioned in place, this operation has to be carried on by specialized and authorized people.



Take care of the proper position of the forks as shown in the upper picture.

THE BUYER MUST CHECK CAREFULLY THE INTEGRITY OF THE MACHINE AFTER THE TRANSPORT IN ORDER TO DISCOVER IMMEDIATELY ANY POSSIBLE DAMAGE OCCURED DURING THE TRANSPORTATION

6. INSTALLATION

In order to allow a safe and proper use of the machine, as well as its maintenance operations, we recommend to leave a free area of 1 mt. all around of the machine.

The corks feeder is assembled and tested in the manufacturer's workshop.

To install the machine on place, follow these steps :

- Remove the machine from its packing and fixing elements (bolts, ropes...)
- Screw the adjustable feet on the back-side of the base-frame
- Fix the feeder top head by means of ropes, in order to lift it vertically
- Alzare la testata dall'elevatore opportunamente legata con funi ad un muletto
- Screw the adjustable feet on the back-side of the base-frame, adjusting their heights to achieve a perfect stability of the machine

7. CONNECTIONS

THE FOLLOWING CONNECTIONS MUST BE PERFORMED BY QUALIFIED OPERATORS OR AUTHORIZED MAINTENANCE TECHNICIANS

7.1 CONNECTING THE ELECTRICAL SYSTEM

The machine is supplied with an electric cable, to be wired to the main electrical supply net.

Before connecting the machine to the electricity, check that the tension shown on the machine plate is correct.

WARNING

The tension is also shown on a plate positioned on the electric cable

8. START - UP

Once the machine has been wired to the electrical supply, follow these steps before starting the machine :

- Check carefully inside the hopper to find any object like paper, tools, any parts that could cause a damage
- Check that all the covers are in place
- Check that around the machine there are no people under visible effect of alcool, drugs or in any case not authorized in the area

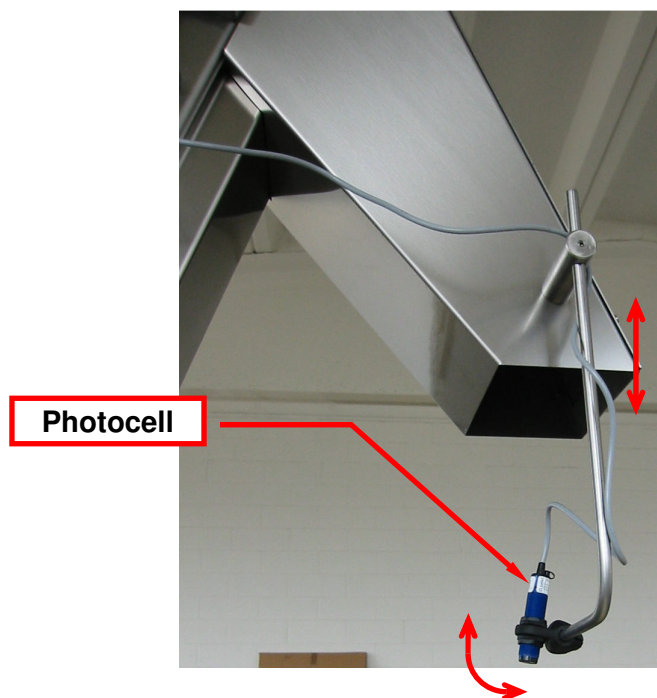


- S1** Switch for the elevator
- S2** Switch for the aspirator (optional)
- PM** Start button
- PE** Emergency button
- IG** Main switch

WARNING

EVERY TIME YOU START THE MACHINE, IN CASE OF ANY UNUSUAL NOISE, STOP IMMEDIATELY AND TRY TO LOCATE THE CAUSE.

- Turn the main switch “**IG**” in position “**I**”
 - Disconnect the emergency button “**PE**”
 - Push the start button “**PM**”
 - Start the conveyor belt, by turning the switch “**S1**” on the position “**I**”
 - Check that the belt is moving properly to the top
 - If the belt is moving on the opposite way, disconnect the main switch and change the 2 phases inside the plug.
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- Load the corks / caps inside the hopper, without feeding the hopper in excess.
 - Place the photo-cell at the outfeed, at about 100 – 150mm from the outfeed
 - Start the feeder by turning the switch **S1**
 - Check that the sensor inside the conveyor stop the machine when needed



- The photocell sensitivity can be set by adjusting the fixing position; the photocell is also provided with an adjusting screw to set the sensitivity level

9. MAINTENANCE

BEFORE PERFORMING ANY MAINTENANCE, REPAIRING OR CLEANING OPERATION ON THE MACHINE, PRESS THE EMERGENCY BUTTON, TURN THE MAIN SWITCH OFF, DISCONNECT THE POWER SUPPLY IN THE CONTROL PANEL AND DO NOT ALLOW OPERATORS TO ACCESS IT

9.1 DAILY MAINTENANCE

- Clean carefully the machine and the photocells lens

9.2 WEEKLY MAINTENANCE

- Check the moving belt, clean it from cork dust or any external piece.
- Check that the leverage of the swinging bottom is working properly.

9.3 MONTHLY MAINTENANCE

Check the main mechanical and electrical components

9.4 MAINTENANCE EVERY 6 MONTHS

Adjust the tensioning of the moving belt as follows :



- Undo the fixing screws of the sliding plate
- Undo the fixing bolts of the side rods
- Turn the rods to pull the belt, counting the number of the turns, so that the roller keeps its rotating axis aligned with the belt.
- Check that the belt is sitting in central position on the roller, if not enlarge the support on the side where the belt is out of centre.
- Tighten the fixing screws again

9.5 YEARLY MAINTENANCE

To achieve the best efficiency and a safe and reliable operation, the machine should be fully controlled by the manufacturing company

10. OPERATING PROBLEMS

BEFORE PERFORMING ANY MAINTENANCE, REPAIRING OR CLEANING OPERATION ON THE MACHINE, PRESS THE EMERGENCY BUTTON, TURN THE MAIN SWITCH OFF, DISCONNECT THE POWER SUPPLY IN THE CONTROL PANEL AND DO NOT ALLOW OPERATORS TO ACCESS IT

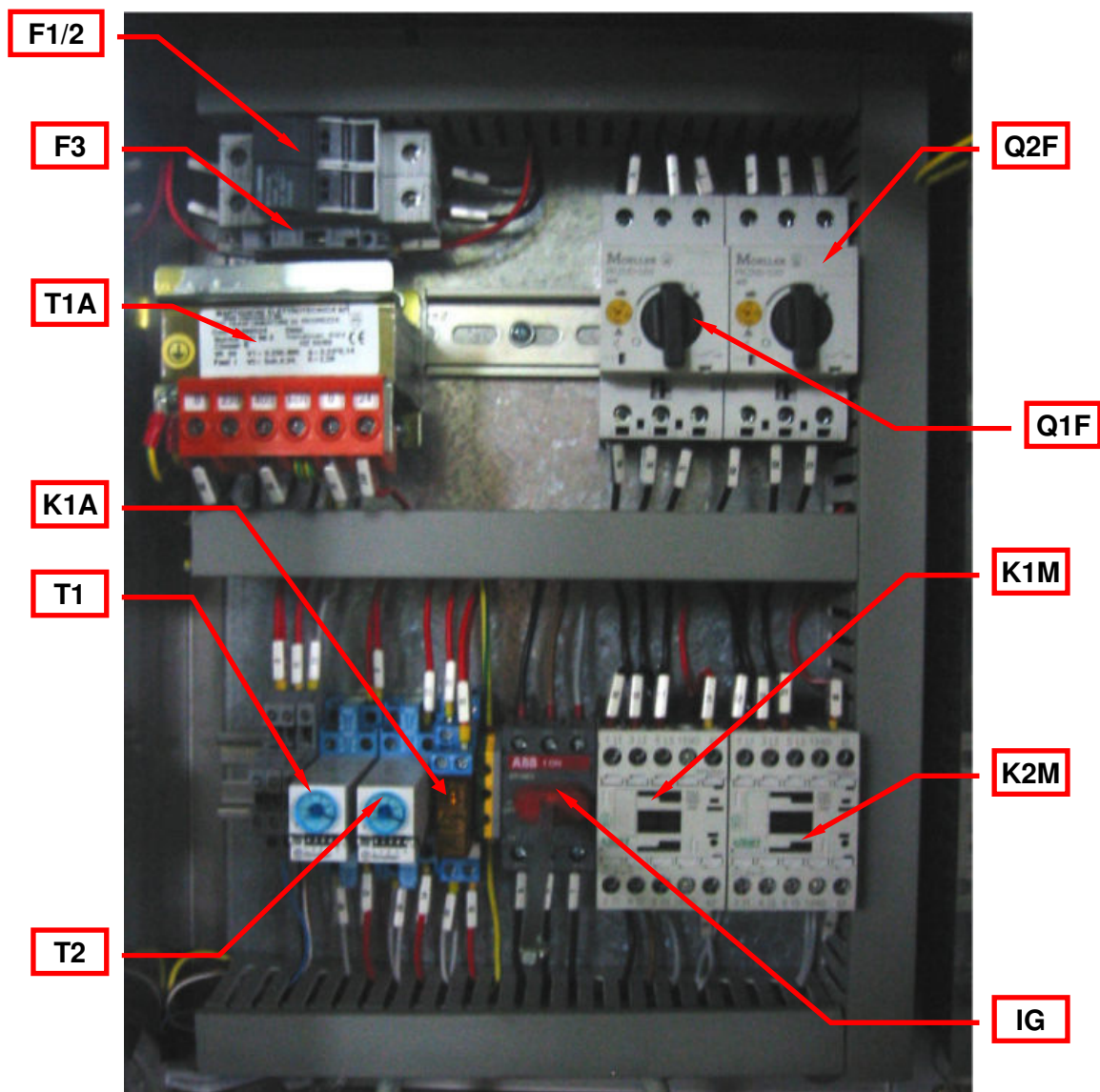
10.1.1 *The belt is not moving*

- Check the photocell inside the conveyor
- Check the belt tensioning
- Check if a cork or any other part could prevent the belt from moving
- Check the electric motor
- Check the thermal overload of the motor

OTHER PROBLEMS MAY OCCUR, ANYWAY, CONSIDERING THIS POSSIBILITY IS NOT HIGH, IT IS NOT POSSIBLE TO SHOW ALL POSSIBLE SITUATIONS IN THIS NOTICE

11. ELECTRIC COMPONENTS

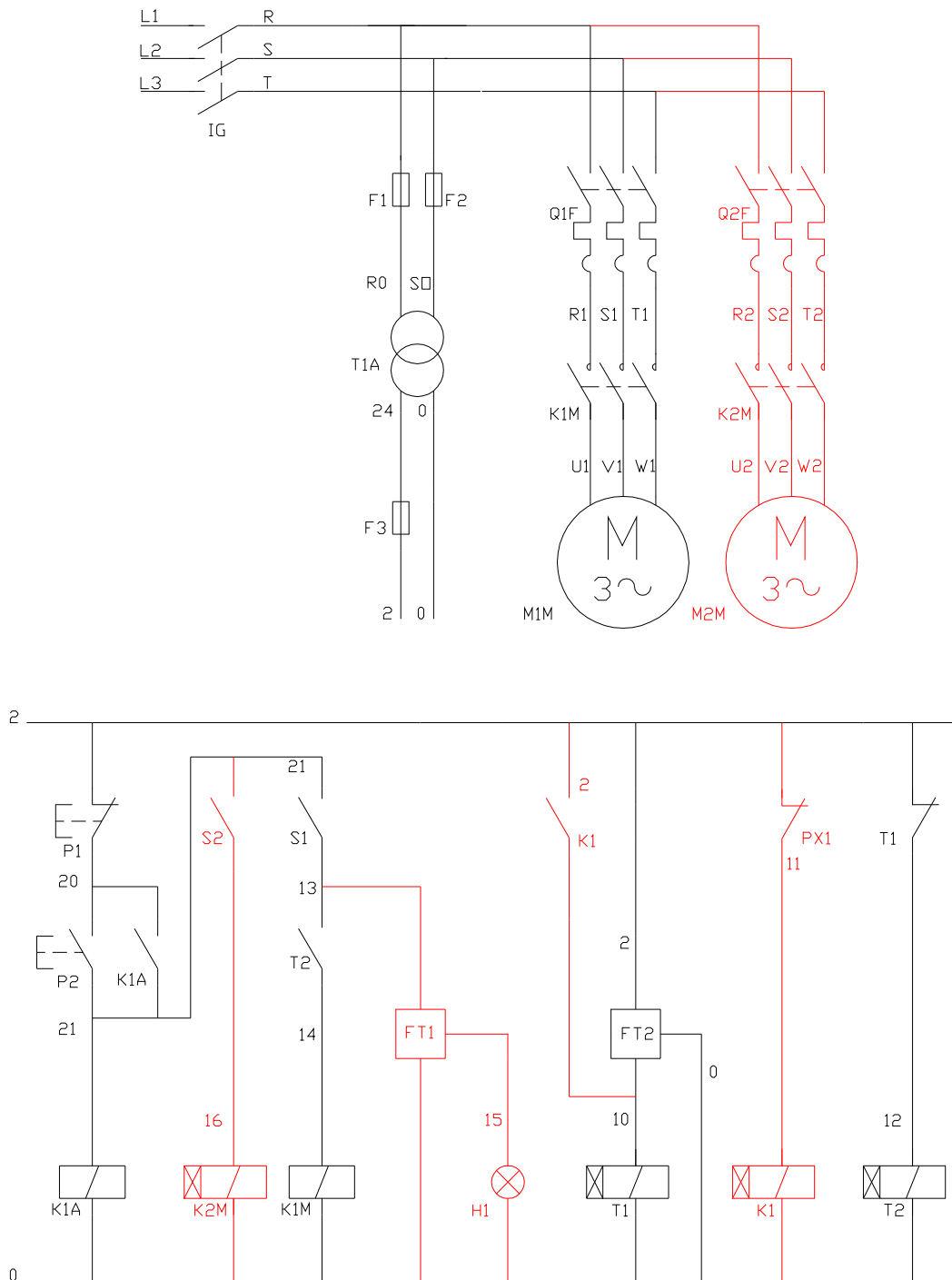
11.1 ELECTRIC BOX



F1/2 Transformer fuses
F3 Power feeder fuses 24Vac
T1A Transformer 50VA
Q1F Elevator's thermal overload
Q2F Aspirator thermal overload
K1M Elevator motor contactor

K2M Aspirator contactor
T1 Timer relay stop
T2 Timer relay start
IG Main switch
K1A Start/stop relay

11.2 ELECTRIC DIAGRAM



Parts marked in red are optional.

12. LIST OF COMPONENTS

IG	Main switch
F1	Transformer fuses (2 A)
F2	Transformer fuses (2 A)
F3	Transformer fuses (Second switch 2 A)
T1A	Transformer 55 VA
K1M	Elevator motor contactor
K2M	Aspirator motor contactor (optional)
Q1F	Elevator motor overload switch
Q2F	Aspirator motor overload switch (aspirator)
M1M	Elevator motor
M2M	Aspirator motor (optional)
PE	Emergency stop-button
PM	Start button
S1	Elevator switch
S2	Aspirator switch (optional)
K1A	Start-stop relay
K1	Sensor relay (optional)
PX1	Sensor NC (optional)
T1	Timer relay
T2	Timer relay
FT1	Photocell detecting corks / caps level in the hopper (optional)
FT2	Photocell detecting excess of production
H1	Light alarm for lack of corks / caps in the loading hopper (optional)

13. WARRANTY AND TECHNICAL SUPPORT

The Corks feeder A10 warranty has duration of 12 months from the date of purchasing; parts and components will be repaired or replaced without charge in case of failure or defect.

The warranty becomes void if the machine is repaired or tampered by unqualified third parties and if the rating placed on the machine is removed or altered.

The warranty does not cover the defects which are not due to material or manufacturing, the materials which are subject to normal wear, the accidental damages caused by transportation, carelessness, unsuitable handling, improper use and any behaviour which is not compliant with the warnings indicated on the instruction manual and by events which do not depend on normal operation and use of the machine.

The fiscal document of acquisition (or a copy) will have to be show to the technicians that make the reparation, or will be enclosed with the machine sent to Bertolaso plant.

In case of any legal debate, the competent authority will be the Court of Asti, Italy.

14. DEMOLITION

Demolition of the machine should be carried out by specialized firms.

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Otherwise follow accurately these steps:

- It's recommended to clean the machine carefully, particularly washing the machine with a moderate jet of water and detergent to remove dirt, grease and oil.
- Convey the waste water in to drain fitting for depuration and discharge.

DO NOT POLLUTE THE ENVIRONMENT BY THROWING AWAY WASTE LIQUIDS, OIL OR OTHER WASTE MATERIALS, BUT DISCARD THEM IN APPROPRIATE COLLECTING CENTERS OR DUMPS IN COMPLIANCE WITH THE APPLYING LEGISLATION IN FORCE

- Dismantle the components and collect the materials separately (steel, plastic, electronic components, cabling and so on) in order to discard them in authorized dumps.

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