

EASY LINE SYSTEM

(CORK FULL NECK BOTTLE)



Machine denomination	EASY LINE SYSTEM - WINE
Machine model	001202812008
Number of line:	10008

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MANUAL OF INSTRUCTIONS FOR THE USE AND THE MAINTENANCE

1 Builder of the machine



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2 General warnings and information for the user

This manual has got the aim to give the user all the necessary information in order to use and manage the machine in the way as safe as possible. In the case of some doubts or ambiguous interpretations, the builder remains at complete disposition. In the description of the machine and of its functions, the aims for which it has been built are defined in a clear way, it is possible to find the counterindications of employment and the possible remnant risks, that is the dangers against which the reduction through the project and the techniques of protection are not totally efficace, this one with the purpose to allow the consignee to plan an efficace information, formation and training in conformity with the security of the workers.

The builder has got the faculty to introduce variations to his production and to his manuals without the duty of updating the previous productions and manuals. This manual must be used for future references. No reclamation or protest can be presented by the user or by some inspectors for the safety unless after the user has executed his duties, both those foreseen by the present rules and those reported in the present manual.

3 Workers at the use of the machine

Workers at the use of the machine

The workers that will work at the use and at the maintenance of the machine must know some pieces of minimal information of general character and in particular:

- to be at complete knowledge of the present manual;
- to have got the possibility to use a copy of the present manual;
- to know that if the manual has been lost, this one can be required again in a copy;
- to know the prohibition to alter or to remove the protections and the engines of protection of the machine;
- to know the duty of warning the responsible firm “immediately” in the case that he/she gets to know about the alteration and removal of some protections or of some disposals of protection of the machine;
- to know about the obligation of wearing some disposals of individual protection with the aim of reducing the remnant risks generated by the machine;
- to know about the duty of wearing suitable clothes for the type of work to execute.

There are, moreover, other specific aspects of safety for each phase of intervention in the machine, and in particular:

- **RESPONSIBLE OF MACHINE:** We intend the operator indicated by the employer for the control and for the operative management of the machine, for the regulation and for the setting-up, in particular he/she must pay attention at the people authorised for the use, at the correct employment, at the correct functioning, at the foreseen program of maintenance.

- **WORKERS FOR THE USE OF THE MACHINE:** We intend the operator authorised for the ordinary employment of the machine, that has been formed in a proper way, informed and trained in conformity with the safety and the health by the employer and that has been provided with the necessary disposals of individual protection.

IT IS FORBIDDEN to work at the machine with not suitable clothes (with ties, scarves, foulards, flying belts, large sleeves, large pockets, by wearing watches, bracelets, collars, rings and with long hair, in this case, it must have been protected with suitable caps).

GENERAL MAINTENANCE: We intend the responsible worker that will be authorised to execute interventions of maintenance and reparation of the machine that has read this manual in a careful way, that has been informed, formed and trained with the aims of the security and health by the employer, that has been provided with the necessary disposals of individual protection and that has got technical know-ldges and suitable expertise in the field of mechanics and pneumatics.

ELECTRICAL MAINTENOR:

We intend the responsible worker that will be authorised to execute possible interventions of maintenance and reparation of the electrical equipment of the machine, that has read this manual in a careful way, that has been informed, formed and trained with the aims of the security and health by the employer, that has been provided with the necessary disposals of individual protection and that has got the technical know-ldges and suitable expertise in the electro-electronic field.

4 Plaques and pictograms

In the machine, a metal plaque is present and it reports the sign CE.
In it, there are the following elements:

- machine: it indicates the commercial noun of the machine
- model: it indicates the model (numeric code)of the machine
- number: it indicates the number of line or the number of the machine
- year: it indicates the year of building of the machine
- pneumatic alimentation: it indicates the characteristic of presson of alimentation compressed air.

There are, moreover, the following pictograms:



ATTENTION TO THE HANDS



IT IS FORBIDDEN TO
REPAIR OR REGULATE
DURING THE MOTION



IT IS FORBIDDEN TO
REMOVE THE DISPOSALS
OF SECURITY

5 General description of the machine

The machine has the function to fill the glass bottles of different kinds within the fundamental characteristics of 110 mm of maximum diameter, and for an highness comprehended between 240 mm till 370 mm. The typology of bottles to use are only and exclusively those agreed with the building firm that has approved the use. Before using different bottles from those agreed, you are preached to contact the building firm that will verify and, maybe, will approve the use by indicating the ways after a written communication. The liquid of filling for which the machine has been planned is only the still wine, even if of different typologies and content. Before using liquids that are different from the one indicated, you are preached to contact the building firm that will verify and, maybe, will approve the use after a written communication. The minimum measure of the hole neck bottle is of a 17 mm diameter. The machine takes also care of the insertion of a closing cork; we can use different typologies of cork full neck bottle and in synthetic material, with dimensions from 22 mm to 27 mm of diameter and highness comprehended between 35 - 49 mm.



- A Linear system of transport bottles (band) with sites of housing called platorels (view side chargement)
- B Nozzles of machine to fill bottles
- C Machine to cork bottles
- D Linear system of transport bottles (band) with sites of housing called platorels (view side dischargement)
- E Electrical panel

Fig.1

The phases of filling and corking take place on the machine and, more precisely, inside the space delimited by the transparent accident-prevention protections. The machine is provided with a linear system of transport bottles kind step/step (band) at whose left extremity takes place the manual chargement (empty bottles without cork), while at the right extremity the manual dischargement takes place (full bottles corked). The machine is able to function, in addition to filling/corking, also for individual functions, or of only filling or of only corking.

It is possible to effectuate the automatic washing of the machine to embottle (see Chapter connected to the instructions of maintenance and cleanness).

The main parts that constitute the machine are described in fig. 1.

6 Technical data (BASIC machine)

Foreseen environment of use	<u>Artisan</u> . In a closed space, environment protected by atmospherical agents. It is forbidden to use it in environments with a temperature which is potentially explosive. We advise you to use the bottling machine with an environment temperature of about 15°-20°C.
Dimensions of occupied spaces	about L2.100 mm; P830 mm ;H 2.300 mm
Weight at emptiness	About 355 kg
Electrical alimentation	220 V – 50 Hz
Pneumatic alimentation basis machine without equipment	6 bar con aria essiccata compressore da 200 l/min
Type of foreseen liquid	Still wine
Type of bottle and dimensions	240mm<highness<370 mm; max Ø 110 mm
Performance	With a bottle of 0,75 lt: about 400/500 bottles/hour (it can vary in function of the typology of used wine, of its temperature and of its level of viscosity, and of the atmospheric conditions and of height)
Number workers at the use	1 or 2 (chargement and dischargement)
Position workers	Standing up
Parts at contact with the alimentary product	In steal AISI 316 and suitable engineering resin
Noise in the space of work	< 80 dB(A)

Notice: the technical data of the machine with the installation of all the several extra additional basis machine are declared on the relative enclosed (see chapter “enclosed”)

7 Adopted measures of security and remnant risks

The machine has been planned and assembled with the aim of obtaining an high standard of security during its use.

Below, we indicate the existent dangers, the adopted measures of protection, in addition to the possible remnant risks for which specific measures of the user are required.

PRESENT DANGER: Of mechanical nature (cracking, cut, knock)

SYNTHESIS MEASURES OF SECURITY: The dangerous mechanical parts are closed inside the body machine and they are protected through the use of fixed type shelters and shelters that can be opened associated to security switches connected with the system of control. The opening of the alimentation of the bottles towards the machine to fill is protected by immaterial barrier (photocell).

PRESENT DANGER: Because of electrical power

SYNTHESIS MEASURES OF SECURITY: The electrical equipment of the machine is realised in conformity with the rule UNI EN 60204- 1 and connected rules. The isolation of the machine from the source of electrical power takes place through the collocation of the main electrical selector in “O” and through its closing in this position with a padlock

PRESENT DANGER: Because of pneumatic power (compressed air)

SYNTHESIS MEASURES OF SECURITY: The pneumatic equipment is realised in conformity with the rule UNI EN 983. The isolation of the machine from the source of pneumatic power takes place through the separation of the general pipe of alimentation compressed air.

PRESENT DANGER: Of ergonomic nature

SYNTHESIS MEASURES OF SECURITY: The study of the areas of employment of the machine has considered the ergonomic principles as far as the collocation operator and the facility of use are concerned.

REMNANT RISK: Protracted erect posture.

PRESENT DANGER: fall of a bottle in the inferior limbs

SYNTHESIS MEASURES OF SECURITY: The project of the machine has considered the aspect connected to the facility of charge and discharge of the bottles.

REMNANT RISK: accidental fall of the bottles in the inferior limbs. It is indispensable for the operator to wear suitable disposals of individual protection of the inferior limbs (shoes) appropriate for the protection by traumas of mechanical nature.

PRESENT DANGER: environment of employment

SYNTHESIS MEASURES OF SECURITY: The project of the machine has considered the aspect environment of employment, defined in the chapter relative to the technical data.

PRESENT DANGER: noise

SYNTHESIS MEASURES OF SECURITY: The project of the machine has considered the aspect noise, in fact the same results with sonorous pressure in the place of work < 80 d B(A).

8 Foreseen conditions of use and installation

The security of employment of the machine depends in a large part on the conditions of employment and installation, therefore the corrected ones are indicated below:

- use of the machine with the foreseen protections, correctly fixed and perfectly functioning;
- use inside of specific environments for the process to execute;
- use with the machine that stands on a plain floor, without holes or projections;
- use with the machine that stands on a floor of suitable mechanical resistance (suitable capacity);
- use of the machine given exclusively to adult qualified workers;
- circuit of electrical alimentation towards the machine in conformity with the present law and with the rules of good technique;
- circuit of pneumatic alimentation towards the machine in conformity with the rules of good technique.
- circuit of pneumatic alimentation towards the machine in conformity with the rules of good technique.

The counter indications of employment and installation are described below:

- it is forbidden to use the machine with the protections that have been removed or altered;

- it is not correct to use the machine in environments that are not suitable for the process executed;
- it is not correct to use the machine on non plain floors, with holes or projections and of non suitable mechanical resistance;
- it is forbidden to let non qualified under age workers to use the machine;
- it is forbidden to supply the machine with electrical circuit that is not in conformity with the present legislation and with the rules of good technique;
- it is forbidden to supply the machine with pneumatic circuit that is not in conformity with the rules of good technique.



In the case of incorrect use and incorrect installation, the builder refuses every kind of responsibility even if there are damages to people, things and animals.

9 Instructions of installation

“The place and area of installation should be predisposed in order to have a suitable local enlightenment (natural and/or artificial), so that the work to execute can be made visible and easy, in conformity with the present law as far as this matter is concerned”. The operations of installation are very easy and they are described below.

MOVEMENT

The movement at the same floor is possible thanks to the four wheels that are present in the basis of the machine. Do avoid passing above holes or projections on the floor and on floors that have not the suitable mechanical resistance. It is recommended to displace the machine with a minimum of two people, by holding the machine at the extremities of the system of transport bottles (band) by avoiding standing on the front and on the back machine. Do pull and/or do push the machine in an axial way to the system of transport bottles.

(arrow directions fig. 2)

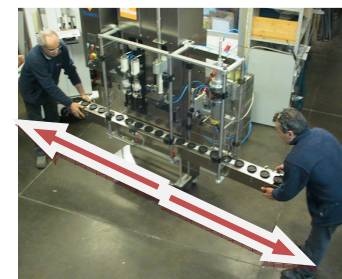


fig.2

The movement at different floors must take place with suitable equipments of elevation and transport (elevating cabins with forks, good lifts, and so on), however, with operations executed under the full and exclusive responsibility of the executor. We recommend to elevate the machine only and exclusively like showed in fig. 3

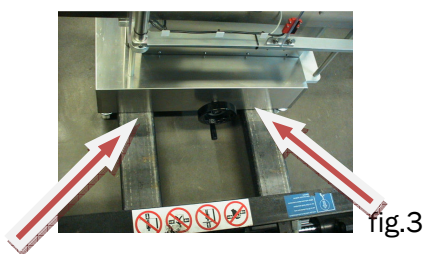


fig.3



Fig 3/1

COLLOCATION

Once found the right collocation of the machine, do verify that it is collocated “levelled”. Do leave a suitable perimetrical space around the machine for the necessary accesses to the process and to the maintenance (not less than 1 metre from the obstacles of any kind around its perimeter).

Once found the correct collocation, it is obligatory to block the wheels provided with the disposal of braking. At this point, do lower the 4 stabilising little feet to level the machine fig 3/1.

Attention: the movements of the machine executed on not plain surfaces and/ or disconnected are under the full and exclusive responsibility of the user.

PNEUMATICAL LINKING

After the collocation, we can execute the pneumatical link through the suitable linking on the general regulator of air pression. The pression of alimentation compressed air must be in conformity with what is indicated in the chapter relative to the technical data.

The pipes of alimentation must not be an obstacle in the way of people or things.

ELECTRICAL LINKING

After the collocation, we can execute the electrical linking. The electrical characteristics of alimentation are described in the chapter relative to the technical data. The linking must take place by means of a qualified installator that, at the end of the works, must give the declaration of conformity with the norms of applicable security.

The machine is not suitable to be installed in a point of the electrical installation where the supposed power of short circuit passes 10 KA, unless the line of alimentation of the machine is protected by a limitator disposal that limits the power at no more than 17 KA (value of peak). The circuit of alimentation of the machine must be protected with a differential disposal at high sensibility and magnet-termical disposal. The electrical linking must be provided with a circuit of grounding. The cable of electrical alimentation must not be an obstacle in the way of people and things.

10 Instructions of employment

Once installed, the machine can be used by bearing in mind the indications reported to the chapter relative to the instructions of the installation of this manual and like it is described below.

INITIAL CONTROL OF SECURITY (BEFORE TURN OF USE)

Before authorising the use of the machine, do verify that the fixed and openable protections of the machine, the switches of security, the photocells, the stop of emergency are present, correctly installed and functioning.

PLACES OF WORK

The places of work at the machine are the following:

- a) place of work at chargement bottles in the linear system of transport (band) (left side);
- b) place of work at the dischargement bottles from the linear system of transport (band) (right side)

CONTROLS (FIG. 10)

The controls are collocated in the suitable panel and they are listed below;

- bottom of START (green round)
- bottom of STOP (red round)
- bottom of CENTRING BOTTLE (black round)
- bottom of stop of EMERGENCY (Kind “mushroom” of red colour);
- touch-screen (rectangular of basis colour green)

CORRECT SEQUENCE OF USE- see fig.4

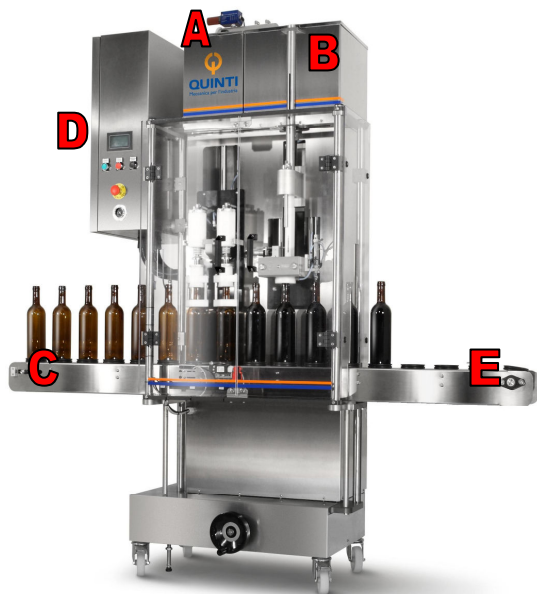


fig.4

- Do effectuate firstly the operations of washing like they are reported in the chapter relative to the instructions of the maintenance and cleanness, about the washing tank and the washing of the nozzles of filling by using water diluted with citric acid at 2%. Do repeat with only water to eliminate the diluted water with the citric from the pipes and then with wine to clean the remnants of water from the pipes; it will be enough 4/5 liters of wine for this operation that will be then eliminated.
- Do charge the wine in the superior tank of containment **(A)** by taking away the cover and by putting it again after the chargement;

- Do charge the corks in the superior tank of containment **(B)** by taking away the cover and putting it again after the chargement; do verify that the corks charged are suitable to the kind of bottle to cork and that have been previously cleaned from the remnants of cork that are present in the bags that contain them;
- Do charge the bottles in the linear system of transport (band) left side **(c)**;
- Do push the bottom of START from the controls panel **(D)**;
- Do discharge the filled bottles and corked from the linear system of transport (band) right side **(E)**.

In some models, additional functions can be present. In the presence of a machine to encapsulate, do charge the capsules in the suitable sliding container with short stick or on the plateau capsules.

- Do assure yourself that the basin of collection condensation under the regulator of pressure has been emptied. (fig. 5)



fig.5

- At the end of the period of use, we recommend to let the machine clean and sanitized, with the movable parts of the circuit of filling in the position of opening, in particular:

- a) Do leave the tank of collection collocated above the machine opened (fig. 6)

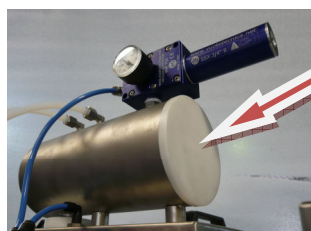


fig.6

Do remove the cork by pulling it away

a) Do leave the two taps opened through the part of o'-ring that is provided (fig. 7) .

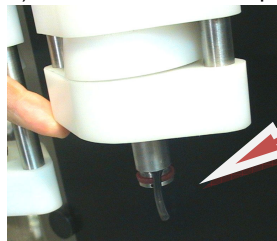


fig.7

Do insert cut o'-ring

b) Do leave the circuits opened (fig. 8-9)

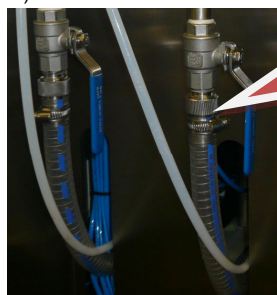


fig.8

Do unscrew the metal rings and do leave the pipes free for the embottlement

c) Do open the sluice gates



fig.9

Do lower the levers

11 Controls for the use

The functioning of the machine takes place through controls defined in the touch screen. (fig. 10- fig. 10/1)



fig. 10

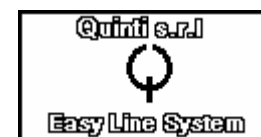


fig.10/1

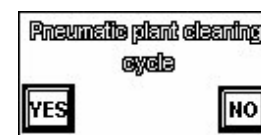


fig.10/2

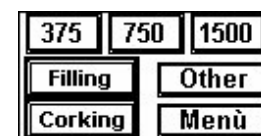


fig.11

The machine presents itself with an initial screen of presentation, by touching again the touch screen, we access to the page of the automatic cleanness of the pneumatical installation (fig 10/2).

Do push "YES" and then START (round green bottom) if you want to clean the pipes, recommend operation when the machine has not worked for a lot of days, the cycle lasts at maximum 2.30 min. more or less. Otherwise, do push "NO", the touch screen will put itself in the page of the functions "HOME" (fig. 11).

"HOME", this page is possible to be set up whenever you push the bottom:



= COME BACK TO THE HOME PAGE

Insert password

The password is required by the machine to allow the modifications of the times of filling. From the "home" page, do access at the "menu" page. The screen presents itself like in fig. 12. Do push the bottom password (PW).



fig.12



fig.13

By pressing the square containing the password (see fig. 13), do insert the same through the keypad. The password has got numerical characters and it is provided by the producer.



= COME BACK TO THE HOME PAGE

Inserted the password, do push the bottom

"Enter"

And do carry on with the necessary operations



= ENTER; = DELETE; = EXIT

= NON USED = SIGN POS/NEG



fig.14

Selection language

Do select menu, from the initial page, do press the bottom PW, without the necessity of inserting the password, do select the preferred language.

ita = Italian; eng = English



fig.15

Operations of filling and corking

Before realising the operation, do verify that the certified format is the desired format. The certified format remains highlighted in a dark colour in the page fig. 16. To modify the format (see instructions "Regulation format bottle").



fig.16

Regulation format bottle and filling

Before realising the change format bottle where it is necessary, do verify that the bottle to fill is perfectly suitable to the platorel that has been provided for that bottle and, if necessary, do replace also the cone of centring bottle (see enclosed "change format bottle").

In the case of different bottles from that ones that are the sample, it will be necessary to take new platorels at the building firm and, if necessary, it will be necessary to take a new cone of centring bottle.

The way to regulate the highness bottle: do collocate the bottle in the platorel in the position that is under the engine to cork, do interpose the spacer of regulation (fig.

17), between the bottle and the cone of centring bottle and do act with the handwheel of the regulation highness bottle in a delicate way in order to avoid the end play. At this moment, do take away the spacer in a delicate way. The spacer must be collocated on the bottle heights on fig. 17/1.



fig.17



fig.17/1

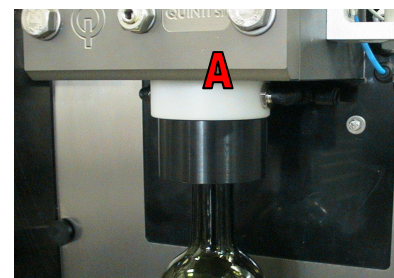


fig.17/2

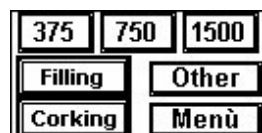
At this moment, do close the carters, do push the black bottom "Cent. High" (keep pushed), the drawer of the engine to cork "A" (fig. 17/2) moves itself towards the low by keeping near to the bottle. (If this does not happen, do push once the green bottom "Start" and again "Cent. High." See bottoms fig. 18)



fig. 18

Operations of filling pipes

The operation must be executed at the starting of each cycle of embottlement, in order to make the liquid to fill the circuits by avoiding the constitution of bubble of air. Do push the bottom "Fill pipes" (Fill pipes) for about 10 seconds.



From the initial page (HOME), fig. 16, do push the bottom "Other", to access to Fill pipes fig. 19.

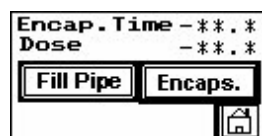


fig.19

Operations of filling

Normally this operation has been used for the only washing at the beginning and at the end of the cycle, to effectuate some proofs or the calibration of the level bottle. We execute like the phase of "filling and corking", by selecting only the bottom "Fill".

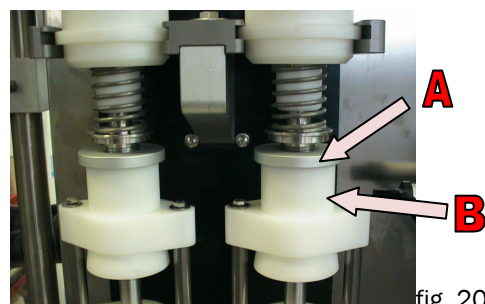


fig. 20

Do regulate the highness of the nozzle of filling.

Do unscrew the metal ring (A) and do rotate the flange (B) in order to get up or to lower the level of filling. Do collocate the bottle in order to verify the level of filling obtained.



fig 22

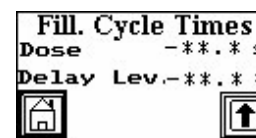


fig23

Do insert the password.

Do access to the starting menu and do push the typology of bottle that has been set out, the number indicates the capacity of the bottle in ml³ (See fig. 22).

The screen appears like in figure 23. Do set out the time of "dosed" and "delay". The times are expressed in seconds.

"Dosed" indicates the total time of permanence of the tap inside the bottle, for the operations of filling and of aspiration.

"Del. Level" (Delay Level) indicates the time over which the tap finishes the operations of filling and the operation of aspiration starts.

The values are inserted through keypad that opens itself by touching in the screen the values previously inserted. Do confirm with the bottom "enter", and then with the bottom "home" to come back to the main menu. Do verify through proof the values inserted. By pushing the bottom with the arrow towards the high part, you access to the page of figure 24.




fig.24

It indicates the number of bottles that can be filled correctly once diminished the liquid under the minimum level of tank.

Arrived at this number, the machine does not fill more bottles since, in the tank, there is a quantity of liquid that does not allow the correct filling like dose and time of the bottle itself.

The quantity is modified by pushing the value previously inserted and by inserting the desired number in the numeric keypad.

Do always confirm with the bottom "enter"  Bottom arrow to go back and on along the page.

Operations of corking

This operation is used only to cork the bottles. We execute like the phase of “filling and corking”, by selecting only the bottom “Cork”.

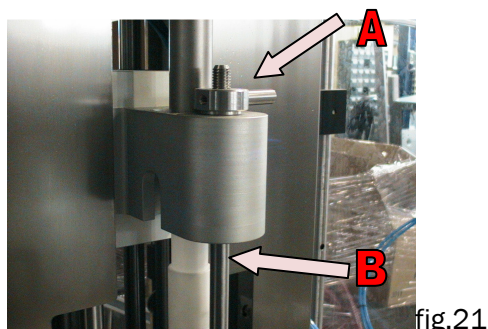


fig.21

At the moment of the change format, do effectuate the regulation of the engine to cork (or in the case it is modified the typology of cork). Do unscrew the metal ring (A) and do screw/ do unscrew the pivot that pushes the cork (B) till arriving to the right level of insertion of the cork full neck bottle, do screw the metal ring (A).

Control of the functionalities of the machine

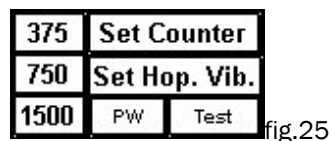


fig.25



fig.26

This operation could be required in the case of some problems, for the control of the functionality of the several operations that the machine can execute. Do access to the main menu and do push the bottom “Test” like in figure 25, the screen of figure 26 appears, where we can access to the control of the individual parts of the machine, by selecting the interested bottom. Do effectuate an operation of reset by the bottom “Start” (round) on the electrical cupboard.

Installation vibration hopper corks



fig.27

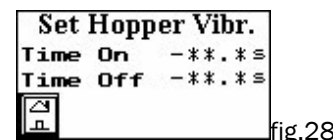


fig.28

This function is necessary to move the hopper corks, in order to orientate them along the downgrade pipe. From the main menu- fig. 27- do select the voice “inst. vib. hop.”, we access to the page like in figure 28.

With a pression on the part of the screen where the times are defined, do modify the same by the numeric keypad.

The time ON indicates how long the hopper remains in an high position, the time OFF the time the hopper remains in a low position. The longer the times are the less are the movements of the hopper itself.

Installation of the counters



fig.29

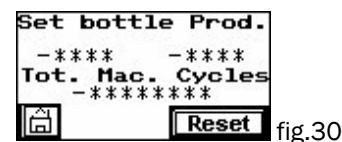


fig.30

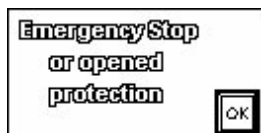
Do use this option if you desire to install a defined number of bottles to produce. From the main menu - fig. 29- do select the voice “inst. counters”, you access to the page like in figure 30.

Do install the number of desired bottles on the first dial of the screen; the second dial has the function of counter on the defined installation. “Tot. cycles machine” represents the number of cycles of corking executed in the life of the machine.

With the bottom “Reset” we cancel the installations on the quantities of bottles to produce.

SIGNALS OF WARNING- the touch screen appears red/orange

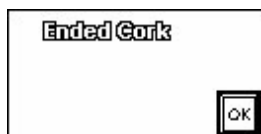
When this warnings take place, after having removed the problem, it is necessary to push the bottom "OK" and to start again the machine with the bottom "Start" for about 3 consecutive seconds to allow the repetition of the desired operations.



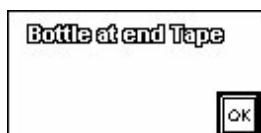
Do correct the correct closing of the protections of the machine or do unblock the emergency.



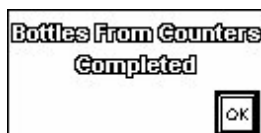
Do remove possible obstacles in the field of action of the sensors of security of the machine.



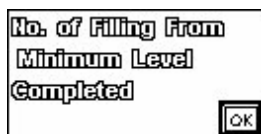
The corks are finishing inside the hopper, supply the corks.



The bottle has arrived at the end of the linear system of transport (band), it must be removed to be able to go on.



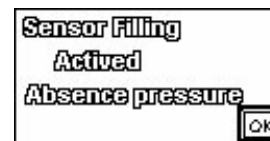
This warning can verify if the counters for the quantities of bottles to produce has been installed. The signal of warning indicates that the counter has finished the installed cycle of bottles.



The installed number of bottles has been got if the minimum level in the tank has been got. Level under which, the liquid is not in a sufficient quantity to carry on the embottlement. This value has been installed during the operations of "installation

format bottles and filling".

Absence of air pression or pression under the minimum required, coming from the line. Do control that the pression of the manometer back the electrical panel is min. 6 Bar.



STOP

To stop the machine, it is required:

- to act on the bottom of STOP from the controls panel;

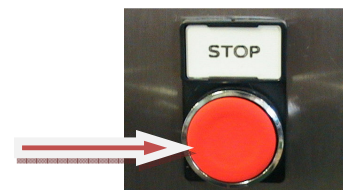


fig 31

- to act on the bottom of emergency stop on the controls panel



fig.32

END WORK

At work finished, it is necessary to put the machine in a state of absolute stop . Do as it follows:

- Do collocate the main electrical selector in "O" (present on the panel of the general electrical panel), do chose it in this position with a padlock whose keys have to be given to the responsible of the machine;
- Do disconnect the pneumatic alimentation towards the machine.

12 Damages and solutions

The machine is provided with a system of control of the functions of the machine, these ones can be verified in a singular way, therefore in the case of bad functioning or supposed damage of one of these functions, you are preached to execute the relative test. It is advisable to effectuate the tests of the functions with the machine without any bottles. Below, we report the functions of control, by pressing firstly the green bottom START on the electrical panel and then the relative bottoms on the touch screen, by controlling:



- **Ribbon:** the movement of the system of linear transport and, if necessary, where it is installed, the rotating table of accumulation.
- **Lev. bot. :** the aspirations liquids from the nozzles of filling to effectuate the levels in the bottle.
- **Sen. cork:** the sensor cork in the bottle.
- **Cork:** the complete cycle of corking
- **Fill:** the movement lowers/ gets up the head with the nozzles of filling.
- **Acc. Tap. :** the movement of approaching to the bottle of the head of the engine.
- **Vib. hop.:** the hopper concerning the movement of the shaking corks
- **Start:** the functionality of the bottom START on the electrical panel (it enlightens of a green colour)

In the case that the functions do not respond to the commands, it is necessary to ask for a technical assistance.

If the machine is stopped through the stop of arrest (fig. 32) or for the opening of the doors of protection during the cycle of embottlement, it could verify the situation that the engine to cork remains blocked above the bottle even if the alarms are setting at zero by touch screen and they are restarted with the Start.

To understand better: the group cabin engine to cork is guided by a moto-reductor and by a system of connecting rods (fig. 33; inside machine); when the two connecting rods are still and in line on the dead inferior point (small connecting rod collocated at 180°), it is required to unblock them in a manual way. The process to do it is the following one:

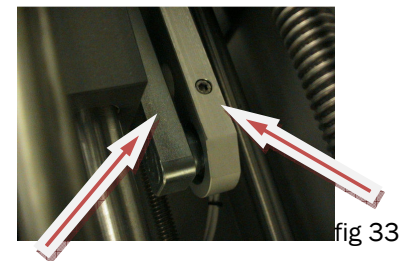


fig 33

- First of all, take away the alimentation of electrical power from general panel (fig. 36), and the pneumatical alimentation (fig. 37) "INACTIVE MACHINE"
- Do remove the cover of protection collocated on the back machine (fig. 34)
- With open key of 13 mm it is possible to let the motor turn, and then do move the system of connecting rods, in the necessary sense to unblock (fig. 35).
- Once unblocked the system of connecting rods, do reinstall the cover of protection and DO ATTIVATE the machine. By effectuating a test of corking with the bottom "Cork" like it is previously described in this chapter. If the problem persists, do ask for the technical assistance.

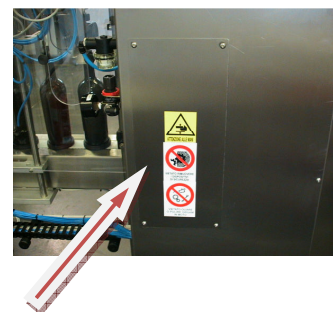


fig 34



fig 35

13 Instructions of maintenance and cleanness

The maintenances that have been indicated below can be executed with two levels of state of the machine, that are:

ACTIVE MACHINE, with the machine in the state of normal activity alimentated in an electrical and pneumatical way.

INACTIVE MACHINE, with the still and cold machine . This state can be obtained in the way it is indicated below:

- do collocare the main selector in “o” (present in the panel of general electrical panel fig. 36), do close it in this position with a padlock whose keys must be hold by the responsible of the maintenance.
- do disconnect the pneumatical alimentation towards the machine; under the tap the writing “EXH” must be present and the pression on the manometer at zero (fig. 37).

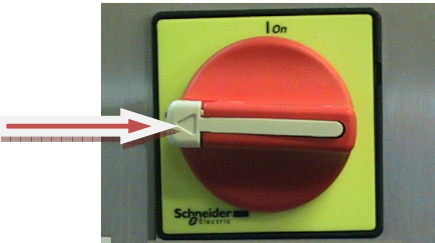


fig 36

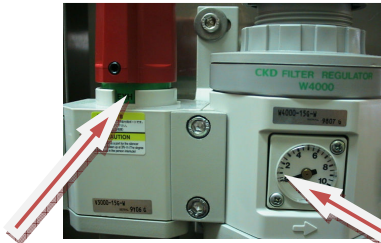


fig 37

Below, the plan of the maintenances is reported. For specific information on optional elements, see the indications of each enclosed.

PERIODICAL MAINTENANCE	
Necessary activities	I Instructions of execution
<u>Washing tank</u>	At the beginning and end of each cycle of filling, do wash the tank with water and citric acid diluted at 2% by closing firstly the three shutters collocaded back the machine relative to the taps and at the entrance of the liquid (fig 8, fig 9); do unscrew and do disconnect the relative attacks of the pipes by keeping attention to

	recuperate the remnants of wine inside the same pipes. Once washed the tank, this one must be emptied from the liquid through the three shutters of the tank and eliminated.
<u>Cleanness site hopper corks</u>	I The hopper corks during the motion, in addition to the function of orienting the corks, has got the function to recuperate some of the fragments and dusts of cork in the site that is under the hopper itself. A frequent cleanness is advisable in order to avoid excessive accumulation of fragments. See fig. 38 and 39.
<u>Washing nozzles of filling</u>	After having washed the tank, we must screw the attacks of the pipes relative to the nozzles of filling and then we must open again the relative shutters; on the contrary, we must close in the central position of the liquid entrance. Do introduce again some liquid in the tank for the cleanness of the pipes and of the taps (about 10 lt of water and citric acid diluted at 2%). Now, through the function of the touch screen “Fill”, do effectuate some cycles of filling in the bottle. The liquid of washing is recuperated in the bottles after having passed through the circuits of filling; the liquid of washing in the bottles will be then eliminated. Do unscrew again the two shutters of filling and now also the one of the liquid entrance and do drip the pipes (fig. 8 and fig .9). Be quiet about the central shutter because the relative pipe will be full of liquid of washing, we advise you to take a container for this operation. Do insert now the two spacers (cut o’-rings) on the nozzles of filling in order to let them drip and then let them be dry (fig. 7). At the end, do take away the cork from the tank of collection in order to let it dry (fig. 6).
<u>Cleanness of the system of linear transport</u>	Do clean the superior part of the steal bars of the system of linear transport and the part that is under of the platorel that is in contact with the bars, at the end of each embottlement, by using a clean cloth with a bit of vaseline oil. The prolonged negligence in particular if the wine has fallen in it, could strain in an excessive way the

	electrical motor that takes care of the movement of the band also till the blockage.
<u>General cleanness</u>	It must be executed with the INACTIVE machine, by disconnecting it from the electrical socket and from the pneumatical socket. Do use specific products of cleanness for surface in stainless steel and in plastic, suitable for alimentary environments.
<u>Control system of control and of arrest</u>	It must be executed with the ACTIVE machine. Before the use, do verify the correct functioning of the controls of arrest of emergency, once pushed a control we must arrest all the movements of the machine, the manual disarming of the bottom must not generate the restarting of the machine, this one must be obtained with a new control of start. Do verify the correct functioning of the switch of security associated with the front doors and the correct functioning of the system of protection with immaterial barrier (photocell).



fig 38

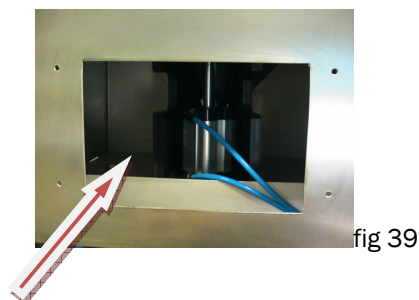


fig 39

14 Demolition of the machine

The demolition of the machine must be given to qualified workers that are competent. During the operations the machine must be in a state of absolute stillness so that nobody can restart it. To obtain this, it is required to disconnect the general pipe of alimentation compressed air that is present on the machine in a physical way.

It is particularly important to have appropriate equipments of elevation and charges transport, in particular for all those pieces that are heavy. For the demolition, it is necessary to plan it by disassembling the parts and the details by starting from the high part to the low part. The disassembled elements must be divided according to their typology of present material and we must get rid of them according to the law.

15 Responsibilities

The builder refuses every kind of responsibility in the case of:

- installation of the machine in not suitable environments;
- use of the machine in not suitable environments;
- use that is not correct and/ or suitable for the machine;
- adding modifications to the machine;
- removal or alteration of the protections and of the disposals of protection;
- alteration of the electrical circuits of the machine;
- alteration of the pneumatical circuit of the machine;
- not use of the disposals of the foreseen individual protection;
- consignment of the machine to not suitable and not qualified workers for its use;
- absence of the information of the operators about the risks for the security and for the health deriving from the use of the machine and of the signalled remnant risks;
- absence of the initial control of the protections and of the disposals of protection;
- absence of taking into action of the project of maintenance of the machine;
- inexact requirement of the replacement;
- getting rid of the machine without the observance of the law;
- absence of the requirement by the user of the possible authorisation that are foreseen by the law as far as the use is concerned.
- movements of the machine in a way that is not correct for it.

16 General conditions of guarantee

The firm Quinti srl has no kind of responsibility for vices and faults of the goods provided if the declaration of the vices and faults does not take place within 8 (eight) days from the reception of the supply as far as the vices and faults immediately visible are concerned, where for vices and faults that are not recognisable in an easy way, the deadline of eight days starts from the date of their discovery, within the peremptory deadline of 12 (twelve) months from the date of consignment of the goods.

- The firm Quinti srl guarantees for the indicated period of time all the sold products in the case of intrinsic faults or of bad working; the responsibility of the firm Quinti srl is limited to the replacement, or according to its discretionary valuation, to repair or working. For the parts that have not been realized by the firm Quinti S. r. l. the customer accepts the conditions of guarantee of the relative builders. If necessary, the material should be sent in free port and should be demonstrated the bad functioning during the period of guarantee.

- In the case of requirement of the intervention in the place, as far as the material covered with guarantee is concerned, the intervention will be executed in the following terms:

- at charge of the firm Quinti S. r. l. as far as the required time for the repair and/or for the replacement of the pieces is concerned.

- at charge of the customer as far as the expenses of travel, board and lodging are concerned.

- The guarantee can take place only if there is a correct use and appliance of the material for the purpose to which it was thought. The guarantee does not cover the products that have been modified without the authorisation or that they have been subjected to physical or electrical stress or for insufficient maintenance. We will not accept complaints of this kind unless the customer has informed the Quinti s. r. l. in a previous way of these modifications and he/she has obtained the written authorisation to execute them; moreover we do not admit any complaints if the operations of start or other interventions on the machine have been executed by workers that do not belong to the firm Quinti s. r. l. or that they are not authorised.

- No guarantee is due if the goods are destined to special uses and, in other words, to uses that are not normal given the type and the nature of the goods themselves, if we except that the destination to the special use has been indicated in a written way and it has been accepted by the firm Quinti s. r. l.; moreover, no guarantee is due for the breakdowns due to not suitable conservation, deterioration of the materials, negligence or not expertise in the use, overcharge of work.

For the legal matters, the court of justice having jurisdiction is exclusively that one of Arezzo. The firm Quinti Avio srl does not offer any guarantees according with other laws of other countries and does not guarantee the products and the works realized by other people. The firm Quinti Avio srl will not be responsible in the case of products and parts that have been made not operative during the period of transport, as obligations of consignment will be considered completed when the person charged with the transport takes possession of all the goods in Italian area. The firm Quinti Avio srl has the faculty of adding changes and updating to all its products.

17 Declaration CE of conformity

Together with this manual of use and maintenance, we provide the declaration CE of conformity. It refers to the following legislation:

- Law 2006/42/CE relative to the machines;
- Law 2006/95/CE relative to the electrical material used in some limits of tension;
- Law 2004/108/CE relative to the electromagnetic compatibility.

18 Enclosed

- ✗ enclosed nr. 1 Declaration CE of conformity
- ✗ enclosed nr. 2 Pneumatical scheme basis machine
- ✗ enclosed nr. 3 Electrical scheme (Complessive machine)
- ✗ enclosed nr. 4 Layout machine and exploded view of the groups that constitute the machine
- ☐ enclosed nr. 5 rev 2 Additional instructions for model with optional **"SYSTEM OF CORKING WITH EMPTINESS OR WITH THE INJECTION OF GAS"**
- ☐ enclosed nr. 6 Additional instructions for model with optional **"PICK&PLACE"**
- ☐ enclosed nr.7 Additional instructions for model with optional **"MACHINE TO ENCAPSULATE"**
- ☐ enclosed nr.8 Additional instructions for model with optional **"ROTATING TABLES OF CHARGE AND OF ACCUMULATION BOTTLES"**
- ☐ enclosed nr.9 rev 1 Additional instructions for model with optional **"SENSOR CORK"**
- ☐ enclosed nr.10 rev 1 Additional instructions for model with optional **"CHANGE FORMAT BOTTLE"**

19 List updated chapters

- Chapter 13

23 June 2010