

CHAPTER 1: GENERAL INFORMATION

1.1 Scope of the Manual

This guide illustrates main features of STARCAP and provides all necessary information for a proper and safe usage. In particular:

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- The present chapter explains the RESIDUAL RISKS related to STARCAP usage and provides general data:
- Chapter 2 gives necessary information for the Machine correct usage;
- Chapter 3 explains how to properly perform ordinary maintenance and cleaning.

The User should refer to the Machine Builder:

TENCO S.n.c Via Arbora, 1 I-16030 Avegno (GE) Italy; Tel +39 0185 79556 / Fax +39 0185 79412

E-mail: info@tenco.it for comunications or request related to the useage of STARCAP and to get spare parts.

GENERAL SAFETY INFORMATION - I

STARCAP description:

 Completely pneumatic corking Machine designed to apply ordinary corks, both agglomerate and synthetic, crown corks and plastic corks.

Operator Number

• Only one OPERATOR (the User) may operate on the Machine.

Proper use of the STARCAP

- Ordinary corks \varnothing MAX 25 , H MAX 45 Bottle High 200 \div 370
- Plastic corks ∅HEAD MAX 37 Bottle High 130 ÷ 465
- Crown corks \varnothing 26,5 29 30,5 (OPTIONAL) Bottle High 130 \div 465

Operating without respecting the above limitations is strictly unauthorised and will exclude the Builder from any responsibility for possible damages to the Machine, things and persons.

1.2 Residual Risks Information

The Machine presents RESIDUAL RISKS OF MECHANICAL NATURE related to the following operations:

A. MACHINE TRANSPORT / MOVEMENT/ POSITIONING. The Machine approximately has a mass of and it has been designed to be manually moved holding it by the frame (see Fig.1.1A): The User should pay attention in moving the Machine and should place it, during both storage or usage, on a stable plane able to sustain its weight.



GENERAL SAFETY INFORMATION - II

Illumination provided by the User

 The environment where the Machine operates must not have zones of shade nor dazzling annoying effects.



Environmental conditions

♠ OPERATIONAL:

- TEMPERATURE +0 °C/+40 °C - HUMIDITY 30% / 85%

☼ STORAGE:

- TEMPERATURE +10 °C/+50 °C - HUMIDITY 30% / 85%

FIG. 1.1. FRAME HOLDING POINTS FOR MANUAL MOVING



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FIG. 1.2A. AIR INLET AND PRESSURE ADAPTER GROUP

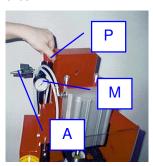


FIG. 1.2B. MACHINE VIEW

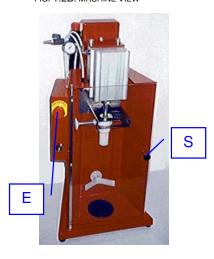


FIG. 1.3A. EMERGENCY COMMAND INTERVENTION



FIG. 1.3B. EMERGENCY COMMAND RESET



1.3 Machine technical data

DIMENSIONS

DIMENSIONS	
☑ LENGTH	355 мм
☑ WIDTH	330 мм
☑ HEIGHT	745 мм
MACHINE WEIGHT	25 KG
COMPRESSED AIR	
☑ MAXIMUM PRESSURE (MAX CONSUMPTION)	6 BAR (0 NL/H)
PRODUCTIVITY	
☑ CORKED BOTTLES/HOUR	80 ÷ 150

1.4 Compressed air supply

COMPRESSED AIR INLET

(see Fig.1.2A)

- Attach the external air circuit to the universal connector [A].
- Depending from cork type (see next Chapter), tune the pressure with the knob [P], reading pressure value from the manometer [M].

1.5 Protections on the Machine

The Machine is provided completed by the following safety devices (Fig.1.2B):

- 1. N°1 button for emergency stop [E] placed on the left side.
- 2. Protection door [S] with pneumatic guard stopping the Machine when opened.

SAFETY DEVICES CHECKS

- 1A- Make sure that all Machine movements are stopped when the emergency command is pressed [E] (Fig.1.3A).
- 1B- Depending from the installed device, reset the Machine by rotating clockwise the emergency command (Fig.1.3B) or pulling the emergency stop button.
- 2- Make sure that door opening [S] forbids Machine start or causes its immediate stop.

SPECIFIC SAFETY INFORMATION



DANGERS

- IS FORBIDDEN THE USAGE OF THE MACHINE WHEN THE DOOR [S] IS OPEN.
 IS FORBIDDEN ANY ALTERATION OR VARIATION OF MACHINE PARTS AND FUNCTIONING.
- COMPANY . IS NOT RESPONSIBLE FOR DAMAGE OR INJURY DUE TO ALTERATION OR VARIATION OF MACHINE PARTS, MISSING OR ERRONEOUS MAINTENANCE, MISSING RESPECT OF LOCAL NORMS AND LAWS REGARDING SAFETY, ENVIRONMENTAL PROTECTION, ETC..

SPECIFIC SAFETY INFORMATION



OBLIGATIONS

- USER SHOULD KEEP PERFECTLY EFFICIENT ALL MACHINE COMPONENTS, IN PARTICULAR SAFETY COMPONENTS.
- USER SHOULD REGULARLY CLEAN THE MACHINE AND PERFORM THOSE PERIODIC MAINTENANCE OPERATIONS INDICATED BY THE BUILDER IN CHAPTER 3.

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CHAPTER 2: USE OF THE MACHINE

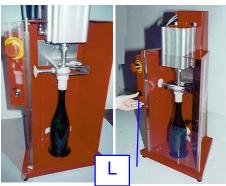
FIG. 2.1. ORDINARY CORK SETTING

6



FIG. 2.2. ORDINARY CORKS LOADING AND CORKING SEQUENCE





2.1 Use of ORDINARY CORKS



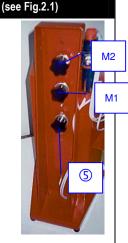
SETTING FOR ORDINARY CORKS

Check:

 Consumption status of the CORKING HEAD [1] and replace if necessary;

Specific tools mounting (door S is open):

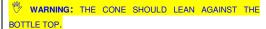
- 1. Apply the PIVOT [2] specific for ordinary corks.
- Apply the LOADER [4] for ordinary corks fastening it with the KNOB [5] placed on Machine rear (see side illustration);
- The loader should be mounted in such a way that its BACK-PLATE [6] almost touches from the PNEUMATIC CYLINDER [7];
- Center the bottle on the bottom plastic plate by tuning with the CROWN [8] the position of the Velement.





Format adjustments:

- BOTTLE HIGH SHOULD STAY IN THE RANGE 200÷370 MM.
- CORKS MAXIMUM DIAMETER Ø 25 MM.
- CORKS MAXIMUM HIGH 45 MM.
- Remember that the Machine comes ready for corking bottles with high in the range 290÷320 MM; for different high bottles, adjust the positions of both LOADER [4] and CYLINDER [7] with the KNOBS [M1-M2] and [5].
- Bottle insertion should raise the CONE [9] of about 5÷30 MM.





USAGE WITH ORDINARY CORKS

(see Fig.2.2)

Adjust:

Corking pressure to 6 BAR with the knob on the pressure adapter (Fig.1.2)

WARNING: THE APPLICATION OF A DIFFERENT PRESSURE MAY GENERATE ACCIDENTS AND CAUSE CORKING ANOMALIES.

Corking sequence:

- 1. Open the door [S];
- 2. Push right the LOADING KNOB and place the cork; release the KNOB and place the bottle (Fig.2.2);
- Close the door [S], start corking movement with the LEVER or the maintained-action BUTTON [L] (Fig.2.2);
- Remove the bottle, check the quality of the corking, fix possible anomalies, tune with the CROWN [3] (Fig.2.1) cork depth in the bottle neck;
- 5. Repeat the Sequence.

TENCO s.n.c. is not responsible for damages cause by defective corking. Cork lubrication with oenology oil is recommended.

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₩ WARNING: USER SHOULD NOT ALTERATE PROTECTION DEVICES (PAR.1.5).

(see Fig.2.3)

2.2 Use of PLASTIC CORKS

FIG. 2.3. PLASTIC CORKS SETTING

SETTING FOR PLASTIC CORKS

Specific tools mounting (door S is open):

- 1. Apply PRESSER [1] specific for plastic corks (see the PRESSER on the side).
- 2. Center the bottle on the bottom plastic plate by tuning with the CROWN [8] the position of the Velement (see illustration below)...





Limitation on the format:

- BOTTLE HIGH SHOULD STAY IN THE RANGE $130 \div 465 \text{ MM}.$
- PLASTIC CORKS HEAD MAXIMUM DIAMETER \varnothing 37 MM.
- Adjust the PNEUMATIC CYLINDER position with the KNOBS [M1-M2] (see side illustration) in such a way that the presser 1] and bottle top are separated by 60 ÷80 мм.





FIG. 2.4. PLASTIC CORKS LOADING AND CORKING



USAGE WITH PLASTIC CORKS

(see Fig.2.4)

Adjust:

Corking pressure to 2 BAR with the knob on the pressure adapter (Fig.1.2)



Corking sequence:

- 1. Open the door [S];
- 2. Place the bottle and manually insert the cork [2] in the bottle neck (Fig.2.3);
- 3. Close the door [S], start corking movement with the LEVER or the maintained-action **BUTTON** [L] (Fig.2.4);
- 4. Remove the bottle, check the quality of the corking, fix possible anomalies;
- Repeat the Sequence.

TENCO s.n.c. is not responsible for damages cause by defective corking.

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WARNING: USER SHOULD NOT ALTERATE PROTECTION DEVICES (PAR.1.5).

2.3 Use of CROWN CORKS

FIG. 2.5. CROWN CORKS SETTING



FIG. 2.6. CROWN CORKS LOADING AND CORKING





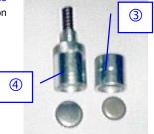
SETTING FOR CROWN CORKS

(see Fig.2.5)

Specific tools mounting (door S is open):

- 1. Apply, with the proper tool, the PIVOT [1] with spring specific for crown corks, mounting the PRESSER [3 O 4] suitable for the cork diameter.
- Center the bottle on the bottom plastic plate by tuning with the CROWN [8] the position of the V-element (see illustration below)



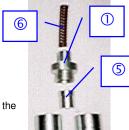


Limitation on the format:

- BOTTLE HIGH SHOULD STAY IN THE RANGE $130 \div 465 \, \text{MM}.$
- ARE USABLE 3 CROWN CORK DIAMETERS:
 - Ø 26,5 MM 1 LINE PRESSER [3]
 - Ø 29 MM 2 LINES PRESSER[4]
 - Ø 30,5 MM 2 LINES PRESSER (OPTIONAL)

Screw the pressers to their PIVOT[1] inserting the MAGNET [5] and the SPRING [6].

Adjust the PNEUMATIC CYLINDER position with the KNOBS [M1-M2] (see side illustration) in such a way that the presser 1] and bottle top are separated by 60 ÷80 мм .



USAGE WITH CROWN CORKS

(see Fig.2.6)

Adjust:

Corking pressure to 4 BAR with the knob on the pressure adapter (Fig.1.2)

WARNING: THE APPLICATION OF A DIFFERENT PRESSURE MAY GENERATE ACCIDENTS AND CAUSE CORKING ANOMALIES.

Corking sequence:

- 1. Open the door [S];
- 2. Place the bottle and manually insert [2] in the presser with magnet (Fig.2.6);
- Close the door [S], start corking movement with the LEVER or the 3. maintained-action **BUTTON** [L] (Fig.2.6);
- Remove the bottle, check the quality of the corking, fix possible anomalies; 4.
- 5. Repeat the Sequence.

TENCO s.n.c.is not responsible for damages cause by defective corking.

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CHAPTER 3: MAINTENANCE AND CLEANING

SPECIFIC SAFETY INFORMATION

- USER OBBLIGATIONS
 RELATED TO ALL CLEANING AND
 MAINTENANCE OPERATIONS
- WARNING: Before proceeding to cleaning or maintenance operations first exclude air supply.
- WARNING: Machine should be protected by low temperature and direct / indirect water jects.
- WARNING: Residual fluids should be disposed according to local laws.

WARNING: Do not clean the Machine with acid or corrosive chemicals.

3.1 Check Operations



3.1.1 Daily Checks

- ☑ V erify correct functioning of Machine protection devices as listed in par. 1.5.
- Discharge the liquid in the compressed air filter by opening the bottom-knob as in the following illustration:



3.1.2 Weekly Checks

- ✓ Verify consumption status of corking head (Fig.2.1) and pressers (Fig.2.3-2.5)
- ☑ Check for air losses by element of the pneumatic circuits.

3.2 Cleaning

☑ WEEKLY :Perform an accurate cleaning of FRAME and Machine DEVICES/COMMAND. For washing, use only water and neutral detergents.

REGISTER OF CLEANING AND MAINTENANCE ACTIVITIES						
USER:						
ACTIVITY	DATE	OPERATOR	NEXT ACTIVITY	NOTES		

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APPENDIX A: ATTACHED DOCUMENTS LIST

✓	Scheme of the Pneumatic Circuit
V	Machine draw
☑	Declaration of Conformity (see below)

DECLARATION OF CONFORMITY CE

((

Avegno, «data_consegna»

The herewith undersigned Legal Representative of the Company TENCO s.n.c. Giuseppe Tenco

DECLARES THAT

Machine STARCAP

Serial number «matricola»

Building Year «anno_costr»

Builder

TENCO S.N.C.

VIA ARBORA 1 - 16030 AVEGNO (GE) ITALY

TEL. ++39-185-79.556 FAX ++39-185-79.412 e-mail: info@tenco.it

is CONFORM to the requirements of the

Machine directive (89/392/CEE) and related amendments (Italian DRP 459 - 24/07/96).

Giuseppe Tenco Legal Representative

TENCO s.n.c.

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M HOW TO ORDER SPARE PARTS

LISTED SPARE PARTS REFER TO NORMALLY SUBSTITUTED COMPONENTS; ORDERS SHOULD BE ADDRESSED TO THE BUILDER:

TENCO S.N.C.

VIA ARBORA 1 - 16030 AVEGNO (GE) ITALY

TEL. ++39-185-79.556 FAX ++39-185-79.412 E-MAIL: info@tenco.it

COMPLETED BY FOLLOWING DATA:

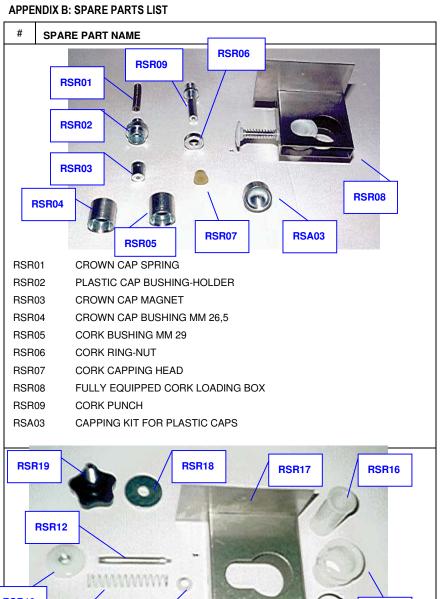
MACHINE STARCAP

SERIAL NUMBER: «MATRICOLA»

BUILDING YEAR «ANNO COSTR»

SPARE PART NAME

SPARE PART QUANTITY





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