

# Instructions Manual



## JUICE EXTRACTOR

Model

# ES-100



METALÚRGICA SIEMSEN LTDA.

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- ALÉM DESTAS MÁQUINAS, FABRICAMOS UMA LINHA COMPLETA DE EQUIPAMENTOS. CONSULTE SEU REVENDEDOR.  
- ESTE PRODUTO CONTA COM ASSISTÊNCIA TÉCNICA, REPRESENTANTES E REVENDEDORES EM TODO TERRITÓRIO NACIONAL.  
DEVIDO À CONSTATANTE EVOLUÇÃO DOS NOSSOS PRODUTOS, AS INFORMAÇÕES AQUI CONTIDAS PODEM SER MODIFICADAS SEM AVISO PRÉVIO.



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# 1. Introduction

## 1.1 Safety

- The Juice Extractor ES-100 is a machine simple to use and to clean. However for your safety read the following instructions in order to avoid accidents:
- 1.1.1 -Unplug the machine when you need to remove any removable part during cleaning, servicing or any other operation.
  - 1.1.2 - Never make use of any tool or instrument that is not originally part of the machine during any operation.
  - 1.1.3 - Before switching the machine on check if Crown N° 09 or 10 and the Juice Chamber N°02 (Pic-01) are firmly fitted in their right positions.
  - 1.1.4 - Never throw water directly to the machine.
  - 1.1.5 - Never use inappropriate clothes mainly long sleeves during operation.
  - 1.1.6 - Do not operate the machine wearing wet clothes or wet shoes.
  - 1.1.7 - Before operating the machine be sure it is grounded properly.



## 1.2 Main Components

All components of this machine were designed and made to its proper function according to pattern tests and experience of Siemens.

Picture - 01

- 01- Lid.
- 02- Juicer Chamber.
- 03 - Motor Housing Flange.
- 04- Motor Housing.
- 05- ON/OFF Switch.
- 06- Base.
- 07- Sieve.
- 08- Jar.
- 09- Crown for orange.
- 10- Crown for lemon.



- 4.6.2 Advice**  
Electrical or mechanical maintenance has to be undertaken by qualified personal. Person in charge has to be sure that the machine is under TOTAL SAFETY conditions when working.
- 4.7 Advice**  
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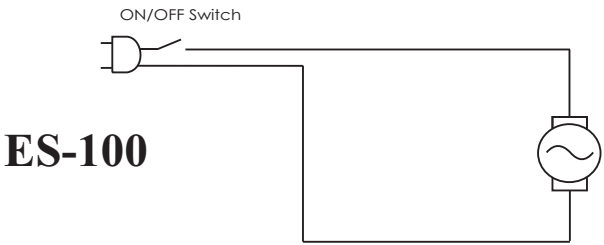
# 5 Analysis and Problems Solving

## 5.1 Problem, causes and solutions

The Juice Extractor ES-100 was designed to operate with the need of minimum maintenance but the natural wearing caused by longer use of the equipment may occasionally cause some malfunctions.  
If such problem occurs with your mixer refer to Table 02 in which the most common situations are listed with recommended solutions.

Problems	Causes	Soluções
* The machine does not switch on.	*Lack of electric power source.  * Problems in the electrical circuit.	* Check if plu is connected to its socket, or if there is electric shortage.  * Call technical assistance.
* Crown turns but when in contact with the product, it stops.	* Crown groove worn uot or broken.	* Change the crown.

## 5.2 Electrical Diagram



4.2.3 Precautions

The electric cable has to be compatible with the power required by the machine. Cables touching the floor or close to the machine need to be protected against short circuits.

Oil reservoir has to be full up to the required level as indicated. Check level and add oil if necessary.

4.3 Routine Inspection

4.3.1 Advice

When checking the tension of the belts or chains, DO NOT introduce your fingers between the belts and the pulleys and nor between the chain and the gears.

4.3.2 Precautions

Check if motors and sliding or turning parts of the machine produce abnormal noises.

Check the tension of the belts and chains and replace the set when belt or chain show signs of being worn out.

When checking tensions of belts or chain DO NOT introduce your fingers between belts and pulleys, nor between the chains and gears.

Check protections and safety devices to make sure they are working properly.

4.4 Operation

4.4.1 Advice

Be sure your hair is not loose in order to avoid getting caught by turning parts which could lead to a serious accident. Tie your hair up well and/or cover your head with a scarf.

The operation performed by not trained or skilled personnel shall be forbidden. Never touch turning parts with your hands or in any other way.

NEVER operate machine without all original safety devices under perfect conditions.

4.5 After Finishing The Work

4.5.1 Precautions

Always TURN THE MACHINE OFF by removing the plug from the socket before cleaning the machine. Never clean the machine unless it has come to a complete stop.

Put all components back to their functional positions before turning it ON again.

Check level of oil. DO NOT place your fingers in between belts and pulleys nor chains and gears.

4.6 Maintenance

4.6.1 Danger

Any maintenance with the machine in working situation is dangerous. TURN IT OFF BY PULLING THE PLUG OFF THE SOCKET DURING MAINTENANCE.

1.3 Características Técnicas

Table - 01

Characteristics	Unid.	ES-100
Average Production	Oranges/min.	15
Voltage	[V]	110 ou 220
Frequency	[Hz]	50 ou 60 (*)
Rating	[W]	320
Consumption	[kW/h]	0,18
Height	[mm]	390
Width	[mm]	240
Depth	[mm]	195
Net Weight	[kg]	2,2
Gross Weight	[kg]	2,5

(\*)The machinemotor has only one voltage, in with its label 110 or 220V. The machine motor frequency shall be only one 50or 60Hz

2. Installation and Pre Operation

2.1 Installation

The Juice Extractor ES-100 is to be installed onto a leveled surface approximately 850mm high.

Check if the voltage to which it will be connected is 110V or 220V.

2.2 Pre Operation

IMPORTANT

When placing the Crown N° 09 or 10, check if it is firmly fitted.

Check if the Juice Extractor is firm in its position. Before using it, wash all food-contact parts with water and neutral soap.

3. Operation

3.1 Starting

IMPORTANT

Always disconnect machine from power source before changing the Crown.

Make sure the Crown is properly fitted.

To start operating turn the ON/OFF switch N°05 placed at the Motor Housing N° 04 (Pic-01).

## 3.2 Feeding Procedures

The Juice Extractors work very fast. First of all cut the orange or the lemon in two halves.

With one hand hold half of the fruit and press it down firmly against the crown N°09 or N°10 placed at the motor shaft. The juice will flow to the jar N°08 and previously through the sieve N°07 (Pic-01).

## 3.3 Cleaning

### IMPORTANT

**Never do cleaning with machine plugged in, always unplug machine before cleaning. Before taking out the Crown be sure Motor is completely stopped.**

All removable parts must be removed and washed.

Follow the below instructions for washing removable parts:

3.3.1 Unplug the machine.

3.3.2 Remove the Lid N°01, the Crown N° 09 or 10 and then the Juice Chamber N° 02 (Pic- 01)

3.3.3 Wash all removable parts with running water and neutral soap and dry them.

3.3.4 To reinstall them, follow the above order inversely.

## 4. General Safety Practices

The following safety instructions are addressed to both the operator of the machine as well as the person in charge of maintenance. The machine has to be delivered only in perfect conditions of use by the Distributor to the user. The user shall operate the machine only after being well acquainted with the safety procedures described in the present manual. READ THIS MANUAL WITH ATTENTION.

### 4.1 Basic Operation Practices

#### 4.1.1 Dangerous parts

Some areas of the electric device have parts that are connected or have parts connected to high voltage. These parts when touched may cause severe electrical shocks or even be fatal.

Never touch switches such as buttons, turning keys and knobs with your hands wearing wet clothes and/or wet shoes. By not following these instructions operator could be exposed to severe electrical shocks or even to a fatal situation.

### 4.1.2 Warnings

The operator has to be well familiar with the position of ON/OFF Switch to make sure the Switch is easy to be reached when necessary. Before any kind of maintenance, physically remove plug from the socket.

Provide space for a comfortable operation thus avoiding accidents.

Water or oil spilled on the floor will turn it slippery and dangerous. Make sure the floor is clean and dry.

Before giving any manual command (switch, buttons, turn keys or lever) be sure the command is the correct one. Check this manual for further details if necessary.

Never use a manual command (switch, buttons, lever) unadvisedly.

If any work is to be made by two or more persons, coordination signs will have to be given for each operation step. Every step of the operation shall be taken only if a sign has been made and responded.

### 4.1.3 Advices

In case of power shortage, immediately turn the machine OFF.

Use recommended or equivalent lubricants, oils or greases.

Avoid mechanical chocks as they may cause failures or malfunction.

Avoid penetration of water, dirt or dust into mechanical or electrical components of the machine.

DO NOT modify original characteristics of the machine.

DO NOT remove, tear off or maculate any labels stuck on the machine. If any labels has been removed or is no longer legible contact your nearest dealer for replacement.

READ CAREFULLY AND WITH ATTENTION THE SAFETY OR OPERATION INSTRUCTIONS LABELS DISPLAYED ON THE MACHINE, AS WELL AS THE INSTRUCTION MANUAL AND THE TECHNICAL CHARACTERISTICS WRITTEN INSIDE .

## 4.2 Safety Procedures and Notes Before Switching Machine ON

### IMPORTANT

**Carefully read ALL INSTRUCTIONS of this manual before turning the machine ON. Be sure to be familiar with the set and that you have well understood all information contained in this manual. If you have any question contact your supervisor or your nearest Dealer.**

### 4.2.1 Danger

An electric cable or electric wire with damaged jacket or bad insulation could cause electrical shocks as well as electrical leak. Before use check conditions of all wires and cables.

### 4.2.2 Advices

Be sure ALL INSTRUCTIONS in this manual have been thoroughly understood. Every function and operational procedure have to be very clear to the operator. Contact your nearest Dealer for further questions.

Any manual command (switch, button or lever) shall be given only after being sure it is the correct one.