



Instructions Manual

High Performance Industrial Blender

Model

TR-02



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.

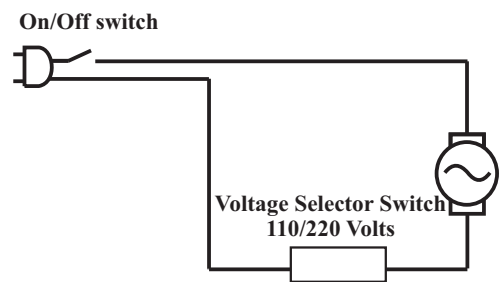
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Table - 02

Problems	Causs	Solutions
*The machine does not turn on.	*Lack of power. * Problem in the electric circuit of the machine.	* Check if machine is plugged in and if there is power in the power supply source. * Call technical assistance.
* Cup is leaking.	* Damaged seal.	* Call technical assistance.

5.2 Electrical Diagram Mod. TR-02



1. Introduction

1.1 Safety

The High Performance Industrial Blender Model TR-02 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 Always unplug the machine when cleaning, servicing or when any other operation is needed.
- 1.1.2 Never use tools that do not belong to the machine during operation.
- 1.1.3 Before using the machine check if Cup N°02 (Pic.01) is properly fitted in its position.
- 1.1.4 Never throw water directly to the machine.
- 1.1.5 Do not operate the machine wearing wet clothes or wet shoes.
- 1.1.6 Before operating the machine be sure it is grounded properly.



1.2 Main Components

All components are made with carefully selected materials, in accordance with Siemens experience and standard testing procedures.

Picture - 01

- 01- Cup Lid
- 02- Cup
- 03- Motor Support Flange
- 04- Motor Housing
- 05- Base
- 06- On/Off Switch
- 07- Cup Flange
- 08- Voltage Selector Switch 110/220



1.3 Technical Characteristics

TABLE – 01

DATE	U.M.	TR-02
Voltage	[V]	110/220
Frequency	[Hz]	50 or 60 (*)
Power Rating	[W]	250
Consumption	[kW/h]	0,25
Height	[mm]	315
Width	[mm]	157
Depth	[mm]	157
Net Weight	[kg]	2,3
Gross Weight	[kg]	2,6
Rotation	[rpm]	3500

(*) Frequency will be only the one indicated on motor characteristics label.

2. Installation and Pre Operation

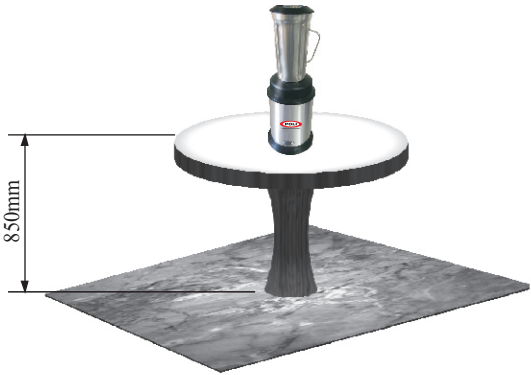
2.1 Installation

The Blender is to be installed onto a leveled surface approximately 850mm high.

The High Performance Industrial Blenders were developed to be used in both voltages: 110V or 220V. Upon receiving the Blender check its voltage at the label and adjust its voltage according to the one of the power supply source using the Voltage Selector Switch N° 08 (Pic.01) located at the bottom of the machine.

The feeding cord has two round pins and one grounding wire.

Grounding is mandatory before switching the machine ON.



2.2 Pre Operation

IMPORTANT

When placing the Cup N°02 (Pic.01) be sure it is perfectly fitted. The Cup can be fitted in the machine in any position; which guarantees a perfect operation.

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 well up 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.

4.7 Advice

Electrical or mechanical maintenance must be done by qualified personal for such operation.

Person in charge has to be sure that the machine is under TOTAL SAFETY conditions when working.

5 Analysis and Problems Solving

5.1 Problem, causes and solutions

The High Performance Industrial Blenders were 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 Blender refer to Table 02 in which the most common situations are listed with recommended solutions

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 instructions 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.

- 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, belts, chains or gears 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, chain or gears 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.

Before using the machine all parts that get in contact with food must be washed with running water and neutral soap. To clean your Blender read item 3.3 Cleaning on this Manual.

3. Operation

- 3.1 Starting**
- IMPORTANT**
Before removing or installing the Cup N°02 (Pic.01) be sure the motor has completely stopped in order to avoid coupling premature wear out.

The Blender is activated by turning the On/Off Switch N°06 located in the Motor Housing N°05 (Pic.01) to ON position.

3.2 Feeding Procedures

- The High Performance Industrial Blender works at high speed (approximately 3.500 rpm). To feed it proceed as follows:
- 1 - Remove the Lid N°01 (Pic.01).
 - 2 - Put product inside the Cup N°02 (Pic.01) with the machine switched OFF.
 - 3 - Place the Lid N°01 (Pic.01) back on top of the Cup and switch the machine ON.

IMPORTANT
The processing time depends on the kind of each product.

IMPORTANT
NEVER SWITCH THE MACHINE ON WITHOUT LOAD IN IT BECAUSE IT WILL CAUSE IRREPARABLE DAMAGES.

3.3 Cleaning

IMPORTANT
Before removing the Cup be sure the motor has completely stopped.

Follow the below instructions for washing removable parts:

- 3.3.1 Unplug the machine.
- 3.3.2 Remove the Lid N°01 (Pic.01) and the Cup N°02 (Pic.01).
- 3.3.3 Wash all removable parts with running water and neutral soap.
- 3.3.4 To reinstall them, follow the above order inversely.

IMPORTANT
When washing inside the Cup be careful with the blade as it has sharp edges.

3.3.5 Cautions with Stainless Steel:

The Stainless Steel may present rust signs, which ARE ALWAYS CAUSED BY EXTERNAL AGENTS, especially when the cleaning or sanitization is not constant and appropriate.

The Stainless Steel resistance towards corrosion is mainly due to the presence of chrome, which in contact with oxygen allows the formation of a very thin protective coat. This protective coat is formed through the whole surface of the steel, blocking the action of external corrosive agents.

When the protective coat is broken, the corrosion process begins, being possible to avoid it by means of constant and adequate cleaning.

Cleaning must always be done immediately after using the equipment. For such end, use water, neutral soap or detergent, and clean the equipment with a soft cloth or a nylon sponge. Then rinse it with plain running water, and dry immediately with a soft cloth, this way avoiding humidity on surfaces and especially on gaps.

The rinsing and drying processes are extremely important to prevent stains and corrosion from arising.

IMPORTANT

Acid solutions, salty solutions, disinfectants and some sterilizing solutions (hypochlorites, tetravalent ammonia salts, iodine compounds, nitric acid and others), must be AVOIDED, once it cannot remain for long in contact with the stainless steel:

These substances attack the stainless steel due to the CHLORINE on its composition, causing corrosion spots (pitting).

Even detergents used in domestic cleaning must not remain in contact with the stainless steel longer than the necessary, being mandatory to remove it with plain water and then dry the surface completely.

Use of abrasives:

Sponges or steel wool and carbon steel brushes, besides scratching the surface and compromising the stainless steel protection, leave particles that rust and react contaminating the stainless steel. That is why such products must not be used for cleaning and sanitization. Scrapings made with sharp instruments or similar must also be avoided.

Main substances that cause stainless steel corrosion:

Dust, grease, acid solutions such as vinegar, fruit juices, etc., saltern solutions (brine), blood, detergents (except for the neutral ones), common steel particles, residue of sponges or common steel wool, and also other abrasives.

4. General Safety Practices

IMPORTANT

If any item from the GENERAL SAFETY NOTIONS section is not applicable to your product, please disregard it.

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 to the operator in perfect conditions of use, the Distributor must instruct the Dealer about the machine operation and safety. 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 parts of the electric devices are connected to high voltage points. These parts when touched may cause severe electrical shocks or even be fatal.

Never touch commands such as buttons, switches and knobs with wet hands, wet clothes and/or 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 shocks 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 label has been removed or is no longer legible, contact your nearest dealer for replacement.