



# USER MANUAL

## PLANETARY MIXER

Model

**BPS-20B / BPS-20C / BPS-30C**



**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 CONSTANTE EVOLUÇÃO DOS NOSSOS PRODUTOS, AS INFORMAÇÕES AQUI CONTIDAS PODEM SER MODIFICADAS SEM AVISO PRÉVIO.

26460.1 - JULHO/2009

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Table- 02

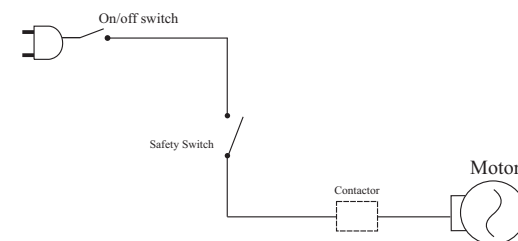
## Problems

## Causes

## Solutions

Burning odor and /or smoke	Motor or other electric parts problem	Call technical assistance
Machine turns on but takes too long to turn the agitator (No.1 Pic 07)	Belts not fastened enough	Call technical assistance
	Defective Start capacitor	Call technical assistance
Strange Noises	Defective bearings	Call technical assistance
Machine stops during operation	No power source	Check if plug is connected to the power outlet
	Belts not fastened enough	Call technical assistance
	Bad contact in the ON/OFF button	Call technical assistance

## 5.2 Electric Diagram Mod. BPS-20B / BPS-20C / BPS-30C



4.5After Finishing The Work

4.5.1Precautions

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

4.6.1Danger

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

4.6.2Advice

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 Problem Solving

5.1 Problem, causes and solutions

The Planetary Mixers 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 any such problem occurs with your mixer refer to Table 02 in which the most common situations are listed with recommended solutions.

1. Introduction:

1.1 Safety

When not properly used the Planetary Mixers are potentially dangerous machines. Maintenance, cleaning or any other operation shall be made by trained people. Plug has to be off the outlet during any of these operations.

Remove plug from outlet when you wish to remove any removable part during cleaning, maintenance or any other operation.

Never make use of any tool or instrument that is not originally part of the machine for any operation. Be sure that removable parts are properly attached to its correct position.

Never throw water directly on the machine.

Keep hands off turning parts.

DO NOT operate the machine wearing wet clothes or wet shoes.

Be sure the machine is grounded.

Operator has to tie his/her hair up before starting the operation.

Keep this manual and have it handy for use any time.



1.2 Main Components:

All components that are part of the machine were designed and made to its proper function according to pattern tests and experience of Siemens. The new concept of the steel plate used in this machine makes it a sanitary safe and clean machine.

1.3 Technical Features

Characteristics	U.M.	BPS-20B	BPS-20C	BPS-30C
Bowl capacity (without agitators)	[litros]	20	20	30
Voltage	[V]	110 / 220 (*)	110 / 220 (*)	110 / 220 (*)
Frequency	[Hz]	50 or 60 (*)	50 or 60 (*)	50 or 60 (*)
Rating	[HP]	1	1	1,5
Consumption	[kW/h]	0,74	0,74	1,1
Height	[mm]	980 (*)	1280 (**)	1380 (**)
Width	[mm]	420	520	520
Depth	[mm]	970	970	970
Net weight	[kg]	105	120	150
Gross weight	[kg]	125	145	175

(\*) See nameplate for correct voltage and frequency.  
(\*\*) Height with closed cage (+415mm with open cage).

Load Chart

Model	Minimum Load	Maximum Load
BPS-20B	1 liters or 30 eggs	6 liters or 40 eggs
BPS-20C	1kg flour	5kg flour

2. Instalation and Pre Operation

2.1 Installation

Planetary Mixer Model BPS-20B, shall be installed on a flat and firm preferrably 850mm high surface .  
Planetary Mixers Models BPS-20C and BPS-30C, shall be installed on flat and firm surface.

2.2 Pre-Operation

Check if the Planetary Mixer is stable on the surface. Before using the machine, remove and wash all removable parts. For your safety, read carefully iten "3.5 Cleaning" in this Manual.

3. Operation

3.1

To start the machine you have to push the ON/OFF button (No. 2 Pic 01), located on the side of the cabinet and selecting desired time using the timer (N° 6 Pic. 01).  
Obs: The machine will start only when the safety cage is down.

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 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.

4.1.3Advices

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.  
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.

4.2.2Advices

Be sure ALL INSTRUCTIONS in this manual have been thoroughly understood. Every function and operational procedure has 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.

3.2 Feeding Procedures

Choose the agitator to be used: Whip (No.1 Pic 03), Racket (No. 01 Pic 02) or spiral (No. 01 Pic 04), put the ingredients into the Bowl (No.05 Pic 01), move down the Safety Cage (No.01 Pic 01), turn the machine on, select the time and select the speed (N°01 Pic.05).

**Important**  
Only change speeds with the machine turned on.

3.3 Agitators Assembling

All agitators (Pic 01 / 02 and 03) are assembled in the same way.  
\*Lift the Agitator Shaft Holder (No.01 Pic 07), placed in the shaft (No.02 Pic 07).  
\*Place the hole, located in the Agitator, in the Pin (No.03 Pic 07).  
\*Move the Agitator Shaft Holder down(No.01 Pic 07).

3.4 Bowl Assembling

\* Place the Bowl on the bowl support (N° 04 Pic.01).  
\* Place the guide (N°01 Pic.08) located on the bowl into the spot (N°02 Pic.08) located on the bowl support and after that place the holes (N°03 Pic. 06) in the bowl support pins (N°01 Pic.06).  
\* Lock the bowl in the right position, turning the lever (N° 02 Pic.06) untill to fit in the bowl support pins (N°01 Pic.06).

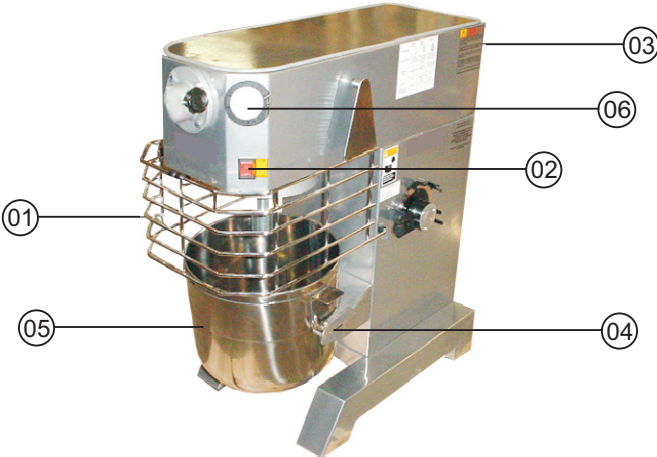
3.5 Cleaning

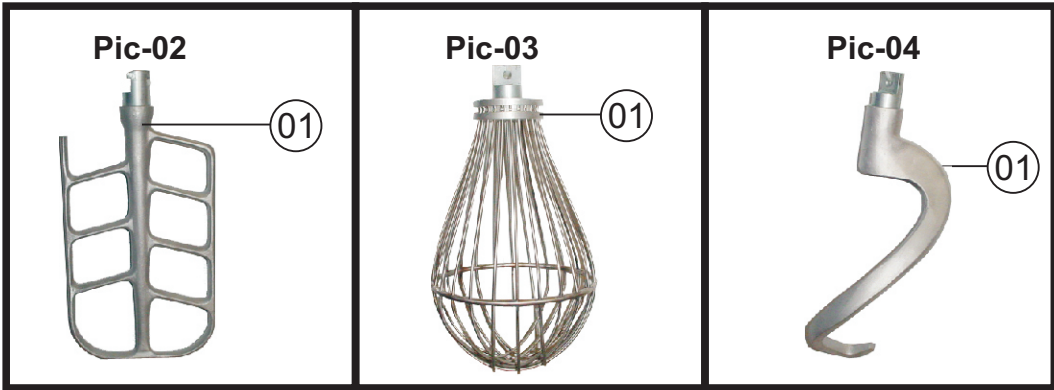
**Important**  
Never do cleaning with the machine plugged in, always unplug the machine before cleaning.

All removable parts must be removed and cleaned. Clean with water and Neutral Soap.

**Important**  
Neve throw water directly on the machine.

Pic-01





## 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 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.

