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MANUAL FOR USE AND MAINTENANCE

FORK ELECTRIC MIXER

IMF/ITF 25-35



This manual provides all the technical elements necessary for a correct installation and working of the appliances.

The user is responsible for following these instructions.

The aspects concerning the protection of safety and the environment are also pointed out together with the characteristics, workings, installation and maintenance of the machine.

It is important to read this manual carefully before using the product, and whenever the need arises to consult it. Adhere to the technical instructions provided and follow all the indications scrupulously. For the safety of the operator, the devices of the machine should always be kept in good working order.

This manual, an integral part of the machine, must be kept in an accessible place known to all operators, and made available to the authorized personnel for any eventual maintenance and repairs

WARNINGS

THE SYMBOL  REGARDS WARNINGS FOR THE SAFETY OF THE OPERATORS, USERS AND MAINTENANCE WORKERS OF THE MACHINE.



CONSERVE THIS MANUAL FOR FURTHER CONSULTATION



USE THE MACHINE ACCORDING WITH THE INDICATIONS AND LIMITS OF USE BY MANUFACTURER



THE INSTALLATION MUST BE CARRIED OUT BY SPECIALIST AND AUTHORISED PERSONNEL AND ACCORDING TO THE INSTRUCTIONS OF THE MANUFACTURER



FOR ANY EVENTUAL REPAIRS AND MAINTENANCE, CONTACT EXCLUSIVELY THE MANUFACTURING FACTORY AND ASK FOR THE USE OF ORIGINAL SPARE PARTS



REFUSAL TO RESPECT THE ABOVE CONDITION JEOPARDISES THE SAFETY OF THE OPERATOR

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WARNINGS

SAFETY PRINCIPLE E CAUTIONS FOR A SAFETY WORK

1. Before turning on the machine, and every time a doubt about its workings should arise, every operator is obliged to carefully read the instructions for use. Remember: using a machine you run a risk. Ensure that the people concerned know and adhere to the contents of the manual.
2. Use the Machine indoor only.
3. Be careful, before start every work.
4. Work only with all safety and protective devices expected present and efficient. Avoid to draw the hands near the moving parts.
5. It is absolutely forbidden to neutralise, remove, modify or in any other way render inefficient, any part of the safety devices, protective devices, or controls of the machine, wherever positioned. All the protective and safety devices must be kept in perfect condition and working order.
6. Before turning on the machine, be sure that nobody is in the risk area.
7. During work cycle, operator must stand out the risk area.
8. During work cycle, do not leave the machine unattended.
9. Never work different materials, as quantity, quality and type, from how descript at point 02.01.
10. It is absolutely forbidden use the machine differently from how descript at point 02.01.
11. Stop the Machine before cleaning an before removing any safety and protective device for maintenance.
12. During phases of research or removal of any cause of damage or inconvenience concerning the machine, take all necessary measures to prevent any damage to people or things. remove the electric tension (separation of the machine from the electric network) before approaching the protective devices.
13. At the end of any intervention that requires the removal or the neutralisation of any component correlated to safety (barriers, sensors, protections, etc.), carry out the putting back into operation, ensuring the correct position and effectiveness.
14. Do not let unauthorized and unqualified personnel start, set and repair the machine. Refer to this manual for the right operations.
15. The user power-supply main line should be equipped with safety devices by a differential switch, automatically disconnecting, above the Machine, and with an earth installation suitable for accident prevention standard.
16. Control main switches or nearly when the machine is turned off and unplugged. Authorized and qualified personnel only, must execute controls and maintenance activities that need to remove of safety devices.
17. Pay attention to the indication of the identification plates existing on the machine.
18. All the identification plates, present, must be legible.
19. If machine does not work or components are damaged, contact the maintenance-man, without proceed in further repairs.
20. Do not repair the machine hastily or incompletely. This can compromise the good work of the machine.
21. Do not tamper the machine. The manufacturer disclaims all responsibility and make the user liable toward accident prevention competent body.
22. These safety principle complete, non substitute, the safety standards and the local and national laws in force.

CHART OF RISKS

ACTIVITY/DANGER	RISK	INSTRUCTIONS
1. LOADING, UNLOADING AND MOVEMENT OF MACHINE	• Dropping of machine • Dropping of packaging	• Handle the machine, packaged or not, only manually
2. INCORRECT INSTALLATION OF MACHINE	• Electrical run down • Blowing	• the power tension and the frequency should be those stated on the plate • the socket must be connected to earth. • the electric power supply of the machine must have a differential switch safety device, co-ordinated with the main earth power supply
3. TENSION PRESENT IN CLOSED CASING	• Electrocution	• Do not open the without having unplugged the machine first
4. WORKING WITHOUT SAFETY DEVICES	• Electrocution • Entanglement • Crushing of fingers • Abrasion	• do not remove the safety devices when the machine is in use
5. CLEANING OF THE PARTS IN CONTACT WITH THE DOUGH	• Electrocution • Electrical run downs • Blow outs	• cleaning of the machine must always be carried out when the machine is off and disconnected (unplugged from the main power supply)

CHARACTERISTIC

DESCRIPTION OF THE MACHINE

The Fork Electric Mixer, "IMF/ITF", versions "25", "35" has been designed to amalgamate mixtures, both dense and creamy, made up of flour, salts, yeast, fats and liquids (water, eggs,...), for foods use only.

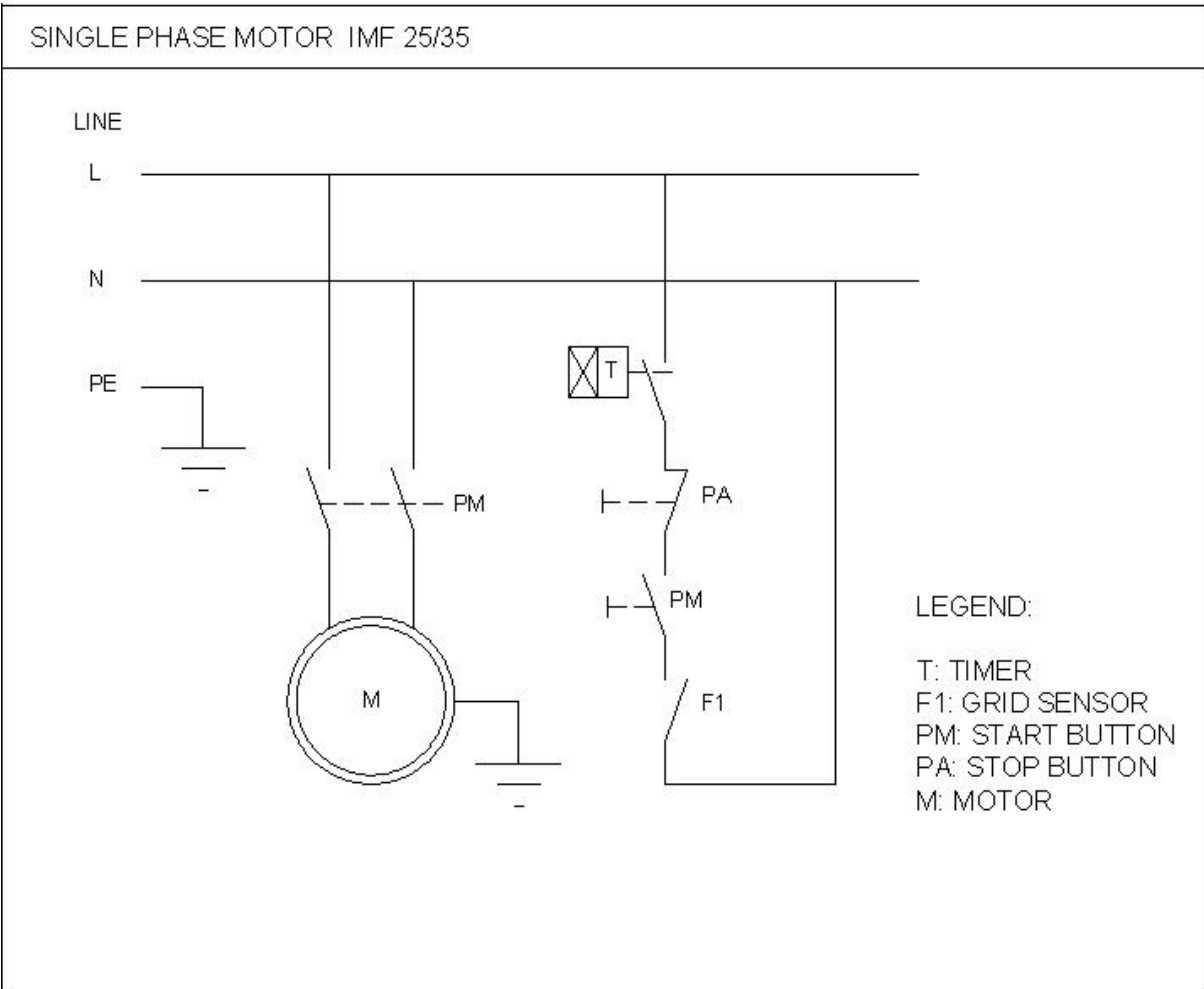
It is a machine equipped with a tri-phase motor, or mono-phase, with fixed head, and with fixed bowl, bar in stainless steel. The Bowl (or Pot) and or Fork rotate clockwise.

The machine, designed in accordance with the European regulations, has been manufactured to protect the user from the risks connected to its use; for this reason, the machine is equipped with special protection devices to avoid risks during contact with the moving parts.

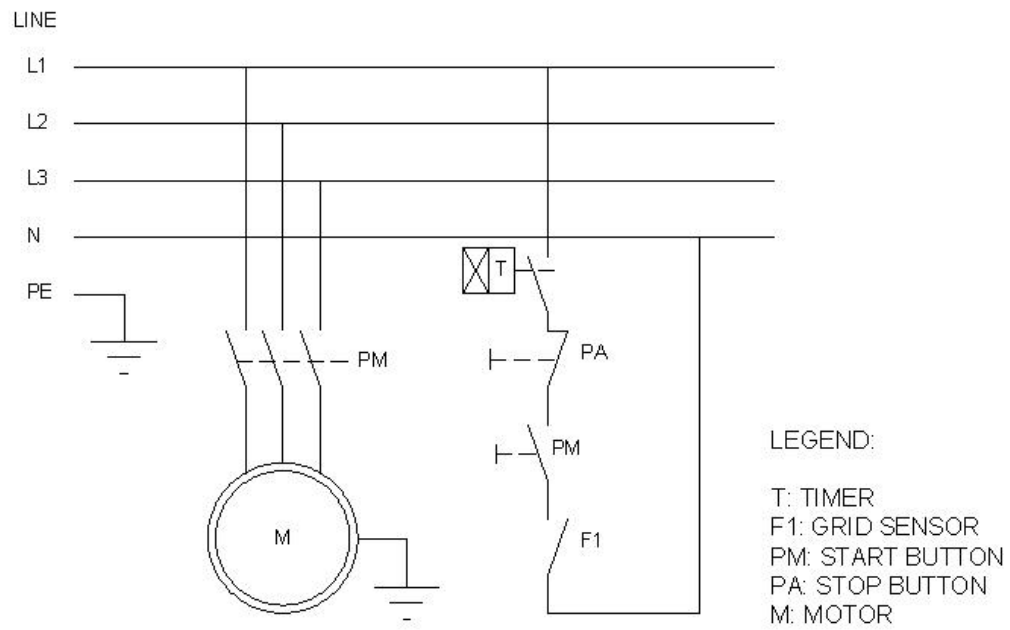
TECHNICAL CHARACTERISTICS

			IMF/ITF 25	IMF/ITF 35	ITF 25 2V	ITF 35 2V
CASING	HEIGHT	[mm]	875	875	875	875
	WIDTH	[mm]	525	590	525	590
	DEPTH	[mm]	900	930	900	930
	NET WEIGHT (roughly)	[Kg]	140	145	140	145
BOWL	DIAMETER	[mm]	500	564	500	564
	HEIGHT	[mm]	220	225	220	225
	CAPACITY	[Kg]	25	35	25	35
	CAPACITY	[lt]	30	40	30	40
TRI-PHASE MOTOR	POWER	[kW]	1,1	1,1	1,1	1,1
	TENSION	[V]	400	400	400	400
	FREQUENCY	[Hz]	50/60	50 / 60	50/60	50 / 60
MONO-PHASE MOTOR	POWER	[kW]	1,1	1,1	-	-
	TENSION	[V]	230	230	-	-
	FREQUENCY	[Hz]	50/60	50 / 60	-	-
PACKAGING	HEIGHT	[mm]	885	885	885	885
	WIDTH	[mm]	555	620	555	620
	DEPTH	[mm]	930	960	930	960
	GROSS WEIGHT (roughly)	[Kg]	150	155	150	155
	VOLUME	[mc]	0,46	0,53	0,46	0,53

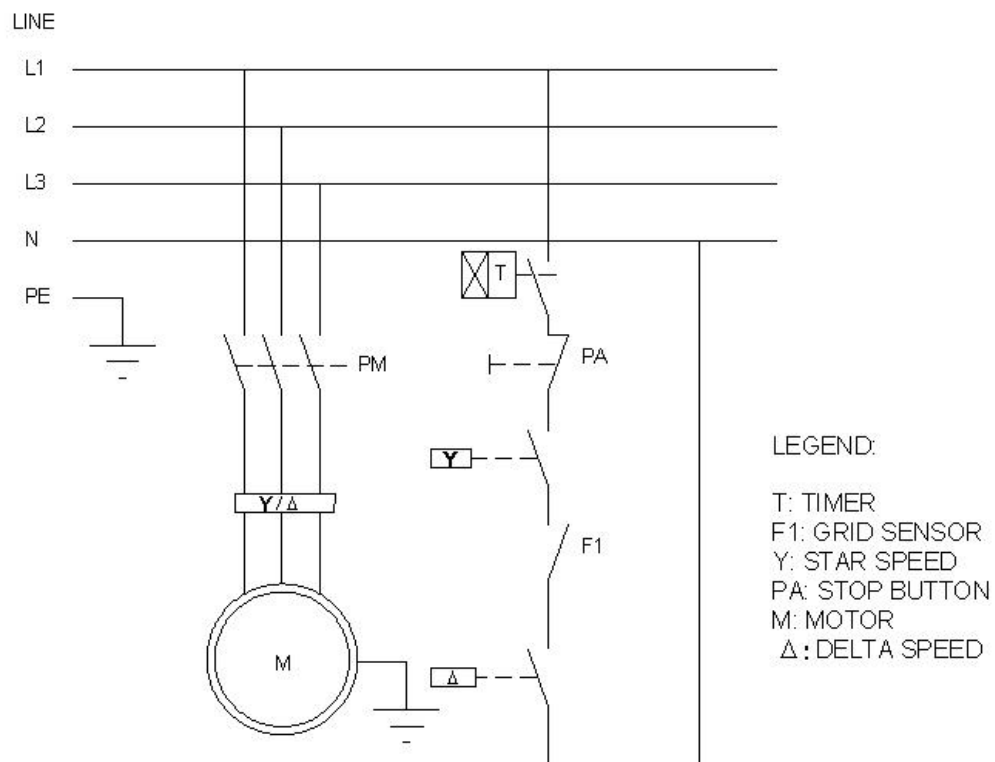
ELECTRICAL DIAGRAM



THREE PHASE MOTOR ITF 25/35



THREE PHASE MOTOR 2 SPEED ITF 25/35 2V



ENVIRONMENTAL NOTES

NOISE

The Machine presents a $L_{ep,d}$ value of less than 80 dB(A).

If positioned in areas with a noise value of more than 80 dB(A), the employer must form and inform the operator of the risks from exposure to the noise and must take the necessary precautions according to the authorised doctor.

PACKAGING

Do not throw away the packaging, separate it according to the type of material (e.g. cardboard, wood, plastic material, etc.) and dispose of them in conformity with the local and national laws in force.

DISPOSAL

Operate in accordance with the local and national laws in force.

OUT OF ORDER

At the end of the Machine's working life:

- Disactivate the Machine, by disconnecting it from the electric power supply and cutting the supply line cable;
- Disassemble all the electric/electronic part;
- Disassemble the components, separating the various types and send them to the scrapyard or dispose of them according to the local and national laws in force.

INSTALLATION

PACKAGING CONTENTS

On delivery, the Manual for the Use and Maintenance containing the Declaration of Conformity of the product in agreement with the competent EC regulations is included in the packaging and is considered an integral part of the supply.

The Machine arrives in a single cardboard package ready for use.

To lift the Machine it is necessary to use a forklift or a transpallet: insert the forks under the pallet. To lift the Machine by ropes or belts, cross them under the pallet.

Take care to handle the box only manually, always keeping it in an upright position as indicated on the box

On receiving, check the packaging and the machine to verify transport's damages. Indicate all defects on the note.

POSITIONING

Before positioning the Machine, ensure that the bearing surface is a horizontal level.

Tighten the wheels so as to make the machine stable.

INSTALLATION

The Machine doesn't require any further installation operation other than its connections, and is ready for use. The machine must be connected to the electric system.

CONNECTIONS

Once positioned, connect the machine to the electric power supply, after having:

- ensured that the tension and frequency of the power supply correspond to that written on the plate;
- ensured that that socket is connected to earth;
- taken steps to have the proper plug (16 ÷ 32A) to a 3 pole wire (phase, neutral and earth), for mono-phase versions, or a 5 pole wire (3 phases, neutral and earth), for tri-phases versions, attached by specialised, capable.

The Manufacturer specifies that the main line should be equipped with safety devices by a differential switch, co-ordinated with the general earth installation, in conformity with the local and national laws.

Check that the safety devices of the Machine are present and assembled before activating the machine.

Check also that the Fork and Bowl (or Pot) rotate clockwise: if this is not the case, invert the arrangement of the phases.



Using the Machine for the first time, clean it as described in the instructions.

CONNECT THE MACHINE ONLY TO PARTS OF THE ELECTRICAL PLANT WHICH ARE INDIVIDUALLY PROTECTED

REFER TO THE ELECTRICAL REGULATIONS OF THE COUNTRY IN WHICH THE MACHINE IS INSTALLED
DO NOT REMOVE THE SAFETY DEVICES WHEN THE MACHINE IS IN USE

WORKINGS

SAFETY CHARACTERISTICS PRESENT

The Machine is equipped with fixed suitable safety devices and a suitable distance between the Bowl and the Machine's Body, designed to avoid contact between parts of the human body (upper limbs) and parts of the machine in movement during processing phases, in order to eliminate risks of dragging, and crushing. The Machine is equipped with a sensor of opened Bowl's Lid, designed to avoid contact between parts of the human body (upper limbs) and parts of the machine in movement during processing phases, in order to eliminate risks of dragging, crushing and abrasion.



DO NOT REMOVE THE SAFETY DEVICES WHEN THE MACHINE IS IN USE. THE MANUFACTURER DISCLAIMS ALL RESPONSIBILITY IF THE INSTRUCTIONS ARE NOT FOLLOWED

CONTROLS

COMMAND	ACTION	POSITION
ON Green Switch	Activates (ON) the movement of rotating parts	Front of Machine
OFF Red Switch	Deactivates (OFF) the movement of rotating parts	Front of Machine
Timer	Allows the starting of the machine in a continuous (timer position "ON") or timed.	Front of Machine

STARTING THE MACHINE

Operating devices

Single-phase and three phase:

A – green switch START

B – red switch STOP

F – Timer

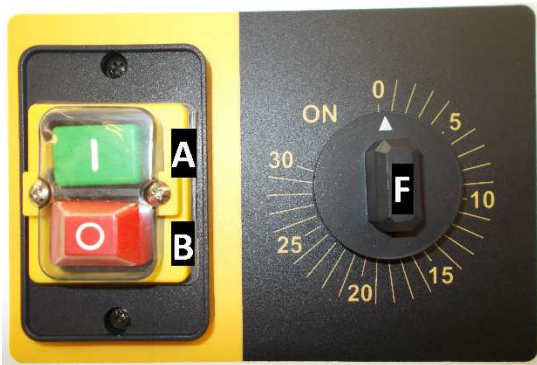
Three phase with 2 speed (OPTIONAL ITF):

I - first speed

E – red switch STOP

F – Timer

II - second speed



Starting the machine when off

To start the processing, following a situation of machine unconnected to the main supply, it is necessary:

- turn ON, the differential switch (safety devices), co-ordinated with the general earth installation, situated in the User's power supply, above the Machine;
- turn the timer knob in the "ON" position, left to the continuous cycle, or in the opposite position to the right, and select the minutes of work you want for the timed cycle
- push the ON Switch, which activates the movement of rotating parts (Bowl).

Starting the machine when live

To restart the processing, following a period of suspension, it is necessary to push the ON Switch, when the Lid is closed.

Starting the machine in emergencies (blowing of thermic protection)

- turning off the Machine, referring to all the series of instructions at section "**TURNING OFF THE MACHINE**".;
- wait for about 30 min to allow the motor to cool;
- start the Machine, referring to all the series of instructions at point section "**STARTING THE MACHINE WHEN OFF**".

TURNING OFF THE MACHINE

The total shut off of the machine, idly for end or interruption of the work, is effected by the:

- push the OFF Red Switch, which deactivates the movement of rotating parts (Bowl);
- turn the timer knob in the 0 position;

- turn OFF, the differential switch (safety devices), co-ordinated with the general earth installation, situated in the User's power supply, above the Machine.



WHEN THE MACHINE IS NOT ACTIVATED, IT IS ADVISABLE TO TURN OFF THE MAIN ELECTRICAL POWER SUPPLY, OR DISCONNECT THE MACHINE FROM THE OUTLET

IRREGULARITIES OF THE MACHINE

PROBLEM	PROBABLE CAUSES	POSSIBLE REMEDIES
1. THE MOTOR STOPS	• the "thermic" motor protector safety device has discovered overheating of the electric motor	• wait for about 30 min to allow the motor to cool; then restart the process
	• malfunction and/or breakage of any electric component	• contact the Manufacturer
HOW DO YOU KNOW THAT...	EVIDENCE	
2. ELECTRIC PHASES ARE NOT ALL ACTIVE	• if the supply line is triphase, the speed of the rotation drops to 1/3 of its power, each inactive phase implies a loss of power • if the supply line is monophase, the drop of the phase implies the lack of electrical current.	

USE OF THE MACHINE

Pour the ingredients that make up the dough into the pot, close the lid and activate the rotation of the Bowl (or Pot) and the or Fork, pushing the ON Switch.

To control the consistency of the dough, or to add further ingredients, open the Lid.

In this condition the machine stops automatically: when the Lid is closed, push the ON Switch again to reactivate the rotation of the Bowl.



DO NOT REMOVE THE SAFETY DEVICES WHEN THE MACHINE IS IN USE. THE MANUFACTURER DISCLAIMS ALL RESPONSIBILITY IF THE INSTRUCTIONS ARE NOT FOLLOWED

MAINTENANCE

CLEANING

The Machine need to be cleaned, before using it.

- At the end of processing, clean all parts that have been in contact with the dough, Bowl (or Pot), Bar and or Fork.
- Lift the Lid.
- Use only hot or cold water, and common detergent, using a soaked cloth.
- Remove the water using a sponge cloth and dry.

Ensure that the above cleaning operations have been carried out before using the machine.



ALWAYS CLEAN THE PARTS OF THE MACHINE IN CONTACT WITH THE DOUGH WHEN THE MACHINE IS TURNED OFF AND UNPLUGGED

REGULAR MAINTENANCE

The Machine don't requires scheduled periodic Maintenance.

Check after the first 20 hours of machine work and every month, the belt tension as follows:

1. Remove the rear panel;
2. Loosen the screws of the motor;
3. Tighten the straps of the tub by tightening the bolts horizontal;
4. Tighten the straps of the fork by tightening the bolts vertical;
5. Tighten the screws of the motor;
6. Replace the rear panel;

SPECIAL MAINTENANCE

In the case of malfunctioning, call only qualified, authorised personnel



THE MANUFACTURER CONSIDERS THE TERMS OF THE GUARANTEE NULL AND VOID FOLLOWING UNAUTHORISED INTERVENTIONS ON THE MACHINE

SPARE PARTS

REF.	DESCRIPTION	IMF 25	ITF 25	IMF 35	ITF 35	ITF 25 2V	ITF 35 2V
1	Bowl	5V010521	5V010521	5V010523	5V010523	5V010521	5V010523
2	Bowl reducer	5R010520	5R010520	5R010520	5R010520	5R010520	5R010520
	Fork reducer	5R010521	5R010521	5R010521	5R010521	5R010521	5R010521
3	Grid protection	5G080020	5G080020	5G080021	5G080021	5G080020	5G080021
4	Arm protection	4P020100	4P020100	4P020100	4P020100	4P020100	4P020100
5	Motor pulley	5P040100	5P040100	5P040100	5P040100	5P040100	5P040100
6	Fork pulley	5P040200	5P040200	5P040200	5P040200	5P040200	5P040200
7	Bowl pulley	5P040210	5P040210	5P040210	5P040210	5P040210	5P040210
8	Cover protection	4C010330	4C010330	4C010331	4C010331	4C010330	4C010331
9	Motor	5M020517	5M020518	5M020517	5M020518	5M020516	5M020516
10	Wheel	5R080001	5R080001	5R080001	5R080001	5R080001	5R080001
	Wheel with break	5R080011	5R080011	5R080011	5R080011	5R080011	5R080011
11	Fork belt	5C020030	5C020030	5C020030	5C020030	5C020030	5C020030
12	Bowl belt	5C020030	5C020030	5C020030	5C020030	5C020030	5C020030
13	Timer	5T010301	5T010301	5T010301	5T010301	5T010301	5T010301
14	Fork	5F001010	5F001010	5F001011	5F001011	5F001010	5F001011
15	Micro switch	5M050503	5M050503	5M050503	5M050503	5M050503	5M050503
16	Bearing	5C030020	5C030020	5C030020	5C030020	5C030020	5C030020

