Istruzioni originali Original instructions Instrucciones originales

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MARKING PLATE

SERIAL LABEL

The plate bears in readable and indelible way the following data:

- Name of the manufacturer;
- CE marking;

- Serial number ;
 Electric voltage and frequency (Volt/Hz);
- Model (MOD);

- Year of construction ;
- Electric power (kW/A);"Made in Italy"
- Weight of the spiral mixer;

GENERAL INFORMATION

THE IMPORTANCE OF THE MANUAL

Before using the concerned spiral mixer, it is compulsory to read and understand this manual in all its parts.

This manual must always be available for the "authorized opperators" and has to be placed and preserved colse to the oven.

The manufacturer declines all liability for eventual dmages to persons, animals, and things caused by the inobservance of the regulations described in this manual.

This manual is an integral part of the spiral mixer and must be preserved until its final dismantling.

The "authorized operators" must perform on the spiral mixer exclusively interventions for which they are specifically competent.

WARRANTY

The duration of the warranty is one year and starts from the date of the fiscal receipt issued at the time of purchase.

Within this period, the details will be replaced or repaired free of charge and only at our factory that, for wellestablished and unequivocal causes, will result in manufacturing defects, with the exception of electrical components and those subject to wear.

Shipping costs and labor costs are excluded from the warranty.

The warranty is void in the cases in which it is ascertained that the damage has been caused by: transport, incorrect or insufficient maintenance, lack of operators, tampering, repairs performed by unauthorized personnel, failure to comply with the provisions of the manual.

Any recourse against the manufacturer for direct or indirect damages resulting from the time when the machine will remain inoperative is excluded:

failure, waiting for repairs, or in any case referable to the non-physical presence of the equipment.



THE TAMPERING AND/OR REPLACEMENT OF PARTS WITH NON ORIGINAL SPARE PARTS CAUSE THE DECAY OF THE WARRANTY AND RELEASE THE MANUFACTURER FROM ANY LIABILITY.

NOISE INFORMATION

The A-weighted sound pressure level measured on an identical sample machine was consistently lower than 80 dB (A).

If the working environment has a noise level higher than 80 dB (A), the employer is obliged to inform and train the operator on the risks arising from exposure to noise and take appropriate measures in agreement with the competent doctor

SAFETY WARNINGS

Although the machine complies with the safety requirements of the reference standards, electrical, mechanical, hygienic, it can be dangerous if:

- Used for purposes and conditions other than those provided by the manufacturer.
- Protections are tampered with.
- The prescriptions for: Installation Commissioning Use Maintenance are not observed.

ATTENTION

In order to prevent dangerous conditions and / or possible injuries caused by: electric current, mechanical parts, fire or of a hygienic nature, the following safety warnings must be observed. A - KEEP YOUR OWN WORKPLACE IN ORDER.

The disorder involves a danger of accidents.

B - EVALUATING THE ENVIRONMENTAL CONDITIONS.

Do not use the machine in a humid, wet or insufficiently lit environment, near flammable liquids or gases. C - KEEP CHILDREN AND NON-EMPLOYEES AWAY.

Do not allow them to approach the machine or the workplace.

D - USE THE MACHINE UNDER THE PLATE POWER AND FOR THE ONLY PERMITTED USE.

Without overload, it will work better and safer.

E - DRESS IN AN ADEQUATE WAY.

Do not wear loose clothes or accessories that can get caught in moving parts. Use non-slip shoes. For reasons of hygiene as well as safety, for long hair use the appropriate mesh and gloves for hands. F - PROTECT THE POWER SUPPLY CABLE.

Do not pull the cord to unplug the plug; do not expose the cable to high temperatures, in contact with sharp edges, water or solvents.

G - AVOID INSURING POSITIONS. Search for the most suitable position that always ensures balance.

H - ALWAYS PAY THE MAXIMUM ATTENTION.

Observe your work. Do not use the machine when you are distracted.

I - EXTENDED OPEN AIR CABLES. They must not be used.

L - MACHINE IN FUNCTION UNATTENDED. It must not be left

M - DISCONNECT THE PLUG FROM THE SOCKET.

At the end of each use, before cleaning, maintenance or moving the machine.

N - CHECK THAT THE MACHINE IS NOT DAMAGED.

Before using the machine, carefully check the efficiency of the safety devices. Check that the moving parts are not blocked, that there are no damaged components, that all parts have been correctly assembled and that all conditions that could affect the correct operation of the machine are optimal. O - MAKE THE MACHINE BY QUALIFIED PERSONNEL REPAIR.

Repairs must only be performed by qualified persons using original spare parts. Failure to comply with these provisions may constitute an element of danger for the user.

P - THE LABELS ARE ANTI-ACCIDENTIAL DEVICES, therefore they must always be perfectly legible. If they are damaged and illegible, it is mandatory to replace them

RESIDUAL RISKS

Loading, unloading and movement of the machine	- Machine falls - Packaging falls	- Handle the machine carefully, packaged or not.
Wrong machine installation	 Electrical discharges Lightening strike 	 The mains voltage and frequency as outlined on the machine plate. The power socie must be connected to the earthing. The electricity supply line of the machine, upstream of the socket must be equipped with protection using a differential switch, coordinated with the main earthing system.
Closure panels, chambre in which voltage is present	- Electrocution	- Do not open the panels without disconnecting the plug in advance.
Work without guards	 Electrocution Catching Crushing Abrasion 	- Do not remove the guards during machine use.
Cleaning the parts in contact with the mixture	 Electrocution Electrical discharges 	- The machine must always be cleaned when it is off, without mains power (cut mains voltage, i.e. disconnect the plug).

TECHNICAL DATA

CHARACTERISTICS OF THE MACHINE

The electric spiral mixer, produced in versions "5", "10", "15", "20", "30", "40", "50", "60" was designed to blend both soft and hard mixtures (mix and/or knead), made of flour, salt, yeast, fats and liquids (water, oil, ...) exclusively for foodstuff use.

Every mixer is composed of:

- a steel structure protected by a heat resistant varnish;
- the bowl, the spiral, the central dough-breaker and the protection grate are all in stainless steel ; the bowl and the spiral they both rotate clockwise



- chain drive with oil bath gear motor;
- the moving parts are on ball bearing;
- 4 castors, 2 of these with brake, in nylon;
- operation with single-phase or three-phase motor, one speed; on request: three-phase motor with 2 speeds;
- Electric circuit fed by a cable to the network to which are connected at low tension (24V) the control devices to start, to stop, and of the safety devices. Among these internal blocking of the moving parts activated by the movement of the mobile protection of the pan

The machine, designed in compliance with European Directives, is built to safeguard the user from risks relating to its use. For this reason, the machine is equipped with specific guards that must not be tampered with for any reason, in order to avoid risks due to contact with moving parts.

USE LIMITATION

	5	10	15	20	30	40	50	60
PRODUCTION CAPACITY kg/h The data refer to a normal mix of ten/twelve minutes	29	35	48	56	88	112	128	144

I NSTALLATI ON REQUIREMENTS TO BE USED

The environmental conditions of the place where the machine is installed must have the following characteristics:

- be dry
- heat sources that are adequately distant
- adequate ventilation and lighting complying with the hygiene and safety standards required by current laws.
- The support surface must be horizontal, must not be placed in the immediate vicinity of the machine obstacles of any kind that may affect the normal ventilation of the same.

<u>IMPORTANT</u>

In compliance with current laws, the electrical network must be equipped with an automatic differential switch with characteristics appropriate to those of the machine in which the opening distance of the contacts is at least 3 mm; indispensable, moreover, an efficient grounding system.

Check that the supply voltage and the frequency of the system are compatible with the values shown both in the technical features and on the plate on the back of the machine.

INSTALLATION

I MPORTANT

All installation and maintenance operations must be carried out by qualified personnel authorized by the manufacturer, who declines all responsibility deriving from incorrect installation or tampering.

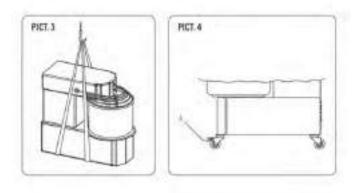
The machine is supplied on pallets in a closed package with cardboard. To lift the machine, you need a forklift or a transpallet. If the machine is lifted with the aid of ropes or belts, pass them under the pallet. To remove the machine from the packaging, you can use straps positioned under the machine and hooked to a forklift truck (FIG.3).

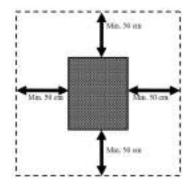
<u>NOTE</u>

All the details relating to the packaging must be disposed of according to the regulations in force.

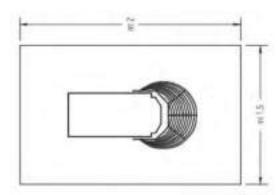
After removing the machine from the packaging proceed as follows:

- Place the machine in the intended location.
- Remove the protective film, where present, avoiding the use of tools that can damage the surfaces.
- If the machine has the wheels mounted, make sure that they are locked with the brake, pushing the lever "A" downwards until it stops (FIG.4).
- If the machine is unstable put under the feet or wheels pieces of hard rubber.





In the normal working conditions and to have the best exploration of the potentiality of the machine, the operator needs the area represented in pict. below



ELECTRIC CONNECTION

The machine is connected to the mains power supply by means of the supplied power cord, which must be fitted by a specialized and qualified staff, with its 16 / 32 A for 3-pole cable (F, N, T) for single-phase and 4 / 5-pole cable (3F, T / 3F, N, T) for three-phase versions.

The mains socket must be easily accessible, it must not require any movement.

The distance between the machine and the socket must be such that it does not cause the power cord to tension, also the cable must never be under the supports of the machine.

<u>IMPORTANT</u>

It is mandatory that the system is equipped with earth connection and differential switch in compliance with the laws in force.

FUNCTIONING

SAFETY DEVICES

The machine is equipped with adequate safety devices made of fixed guards, and an adequate distance between the bowl and the machine casing, with the scope of avoiding contact of parts of the human body (upper limbs) with the rotating bowl during the work phase, to eliminate the risks of dragging or crushing. The machine is equipped with a lid sensor on the open bowl, with the scope of avoiding contact of parts of the human body (upper limbs) with the moving parts during the work phase, to eliminate risks of dragging, crushing and abrasion.



DO NOT REMOVE THE GUARDS DURING USE OF THE MACHINE. THE MANUFACTURER CANNOT BE HELS IN ANY WAY LIABLE FOR NON COMPLIANCE WITH THE AFOREMENTIONED INSTRUCTIONS.

Whit reference to figure 8, the guards are: I - moving protection grate

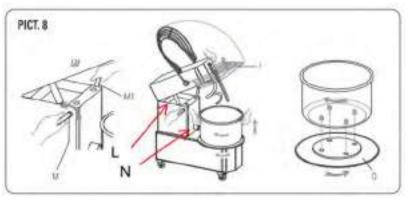
L – Device proving that the top and the

protection cover are up or down (only on tilting head mixers)

M,M1 – Check pin of the top (down position, only on tilting head mixers)

N – Device proving that the bowl is in or out (only on tilting head mixers)

0 – Blocking disk of the bowl (only on tilting head mixers)



Before operating the machine, the protection I (PICT. 9) must be completely lowered. For tilting head mixers it must be checked that the bowl is correctly inserted and blocked by the disk 0 and that the top is down and blocked by the check pin M (this must be completely inserted).



CONTROL DEVICES

Depending on the model, the machine is equipped with the following control devices:

	АВ		F 0N 30 25 720 115	65 100S
FIG. 5 COMMAND		FIG. 6 ACTI	FIG. 7	FIG. 8 POSITION
COMMAND		ON - OFF SWI		POSITION
A) ON button		Activates (1) movement	· · · ·	Side of machine
B) OFF button		Stops (0) movement of	f the rotating parts.	Side of machine
		TIMER (F	IG. 7)	
F) Timer	allows	s the machine to start up and	l allows setting the working time	e Side of machine
	1	SPEED SELEC	TOR (FIG. 6)	
Pos. 0		Stops movement of t	he rotating parts.	Side of machine
Pos. 1	A	Activates movement of the ro	tating parts at first speed.	Side of machine
Pos. 2	Ac	tivates movement of the rota	iting parts at second speed.	Side of machine
	1	INVERTER	(FIG. 8)	
Speed control	Turni	ng the knob, increases / decr the sp	eases the speed of the tank and piral	d Side of machine

Functional check first start:

After inserting the power cord plug into the mains socket, the machine is ready for functional verification.

- Before starting the machine, make sure that all the protections are correctly installed.
- When first starting, check that the spiral and the bowl rotate both clockwise. If this were not to reverse the arrangement of the phases.

USE OF MACHINE

Below, a series of sequences are described, for the correct use of the machine:



BEFORE STARTING WORK MAKE SURE THAT THE MACHINE IS PERFECTLY CLEAN IN PARTICULAR, THE SURFACES OF BOWL, THE SPIRAL AND OF THE CENTRAL COLUMN THAT HAVE CONTACT WITH THE FOOD PRODUCTS. IF NECESSARY CLEAN THEM FOLLOWING INDICATIONS.

Lift the protection "I" and pour the ingredients necessary for the mixture into the bowl, then lower the bowl protection and activate the rotation of the bowl and the spiral as described below.

To visually check the consistency of the dough, or to add further ingredients, it is possible to do it through the protection grid, without lifting it and thus interrupting the operation of the machine.

Lifting the protection, the machine stops: at closing, it is necessary to press button 1 again to restart the rotation of the bowl.

Start-up situation with "machine off":

- Rotate the protection differential switch to the ON position, coordinated with the main earthing system, placed upstream of the machine in the user's system;
- Turn the timer knob clockwise and select the desired working minutes for the timed cycle.
- Press Button 1 that activates rotation of the bowl and the spiral



CHECK AGAIN THAT IT IS THE BLOW AND THE SPIRAL, WHEEL BOTH CLOCKWISE.

Start-up situation with "machine powered":

To re-start work, following suspension of the work, press button 1 having restored the safety present.

Start-up situation with "machine in emergency mode" (example thermal protection tripped):

- switch off the machine, with the sequence of commands indicated in point "MACHINE SWITCH OFF";
- leave the electric motor to cool for approx. half an hour;
- start the machine, with the sequence indicated in point "START-UP SITUATION WITH MACHINE OFF".

Machine switch off

For total machine switch off, from the work terminated or shut-off condition, you need to:

- Press Button 0 that terminates rotation of the bowl and the spiral.
- Rotate the knob on the timer in position 0.
- Rotate the protection differential switch to the OFF position, coordinated with the main earthing system, placed upstream of the machine in the user's system, which disconnects the machine from the electrical power supply.

Note: In a machine fed electrically by three-phase, if the rotation of the bowl is opposite the way shown by the arrow it is necessary to follow these indications for the functioning and every time you change the electric plug:

- Stop the machine;
- Take the plug out.
- Reverse on the plug the position of two phases (ex. L1 with L2) .
- Restart the machine and verify if the bowl is rotating the right way;
- Start the machine without using it, let it on for about one minute and verify that it is functioning perfectly.

USE OF THE MACHINE WITH RISING TOP AND REMOVABLE BOWL

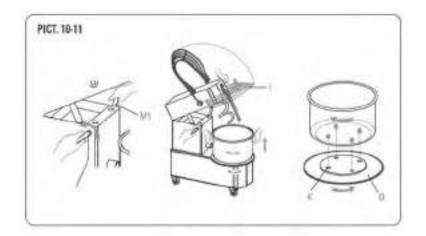
In order to raise the top and to take off the bowl proceed as follows:

- stop the machine, unplug the machine;
- raise the protection I completely (PICT. 10);
- pull the pin M as far as the top is blocked;
- raise the top by means of the little piston underneath;
- rotate clockwise the disk 0 as far as the bowl is unlocked;
- raise the bowl and take it off;
- take off the dough.

In order to repositioning of the bowl and top, proceed as follows:

Once the cleaning is done:

- put the bowl back on, and make sure that the four pins underneath are correctly fixed in the four holes "K" of the machine;
- then block the bowl rotating in the opposite direction to the disk "0" (fig.11);
- Put the top down pushing it downwards (PICT. 9) as far as it is blocked by the pin M.





WHEN THE MACHINE IS NOT ACTIVE, SELECT (SWITCH OFF) THA MAIN SYSTEM OF THE ELECTRICAL ENERGY MAINS AND DISCONNECT THE CURRENT SOCKET.

STARTING MACHINE

- 1. Activate all the safety devices;
- 2. Pressing the button "I" to activate the machine
- Set the working time of the machine from 1 to 30 min. by turning the timer knob to the desired position
- 4. Once the set time is over, the timer stops the machine.
- 5. Press the "0" button to turn off the machine.





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USE OF THE 2 SPEED MACHINE

The machines with three-phase motor can be produced with the second speed. To start these machines, proceed as follows:

- 1. Start the mixer as previously described in the points 1, 2, 3;
- 2. Select the desired speed by turning the selector knob to 1 or 2;
- 3. Once the set time is over, the timer stops the machine.
- 4. Press the "0" button to turn off the machine.

USE OT THE INVERTER MACHINE

- 1. Start the mixer as previously described in the points 1, 2, 3;
- Select the percentage speed by turning the knob of the inverter from 0% = 1st speed to 100% = 2nd speed; Turning the knob from "0%" to "100%" speed increases from minimum to maximum. In the opposite direction, the speed decreases;
- 3. Once the set time is over, the timer stops the machine.
- 4. Press the "0" button to turn off the machine.

FUNCTIONING ANOMALIES

PROBLEM	CAUSES	SOLUTIONS
The machine does not start	Lack of electric current	Check the general switch, the plug and the power cord
	The stop button is locked	Press the green button
	The protection grid and / or the lid are raised, or the bowl is not well positioned.	Properly lower both the protection grid and the cover and reposition the bowl
	The timer is in position 0	Set the timer from 1 to 30 minutes or in manual mode
The spiral is not constant in the rotation	The chain is loose	Tighten the chain
The machine stops while it is operating	the fuse does not work	Replace the fuse with another, with the same characteristics





Only for IBV:			
N° FLASH RED LED	ERROR	CAUSES	SOLUTIONS
1	Undervoltage alarm	The voltage value of the device has fallen below the minimum set in parameter S602	Alarm reset from keypad or input, or automatically with autoreset function when enabled
2	Overvoltage alarm	The voltage value of the device has exceeded the maximum value set in parameter S603	Alarm reset from keypad or input, or automatically with autoreset function when enabled
3	Overcurrent alarm	The device has exceeded the maximum current value set in parameter S601	Alarm reset from keypad or input, or automatically with autoreset function when enabled
4	Overload alarm	When the amount of energy according to the I ² t logic exceeds that set by parameters S511 and S512	Alarm reset from keypad or input, or automatically with autoreset function when enabled
5	Over temperature alarm electronic card	The device has reached and exceeded the maximum allowed temperature set in parameter S604	The alarm resets automatically when the temperature of the device drops to 10 ° C less than the threshold temperature set in parameter S604
6	Over temperature alarm heatsink	The motor has reached and exceeded the maximum allowed temperature set in parameter S605	The alarm resets automatically when the motor temperature drops to 10 ° C less than the threshold temperature set in parameter S605
7	Alarm Analog input	Hardware malfunction, which can not read the analog input	Contact the manufacturer (the card must be repaired)
8	Alarm eeprom data	The data structure is not intact	The default values are restored automatically. The different parameters must be re-entered manually
9	Alarm Timeout communication	Modbus communication interrupted	Check connection
10	User alarm	Alarm associated with an input	Eliminate the cause of the alarm
11	STO alarm (safe torque off) If present	Specific input. Disable the power so that the inverter is safe	Eliminate the cause of the alarm

MAINTENANCE

ATTENTION: Before carrying out any maintenance, including cleaning, take the following precautions:

- make sure that the appliance is disconnected from the electrical mains (unplug from the electrical outlet), making sure that the power supply can not be reactivated accidentally;
- Make sure the appliance is completely cooled;
- Use personal protection devices required by current regulations;
- Always operate with appropriate equipment;
- Once the maintenance / repair / cleaning operation has been completed, before putting the appliance back into service, re-install all the protections and safety devices;

CLEANI NG

ATTENTION: Never use abrasive or corrosive non-food chemical products. Absolutely avoid using water jets, various tools, rough or abrasive media, such as steel scourers, sponges, etc., which can damage surfaces and, in particular, compromise hygiene in terms of hygiene.

Cleaning must be carried out at the end of each use in observance of the hygiene rules and to protect the machine's functionality, proceeding as follows:

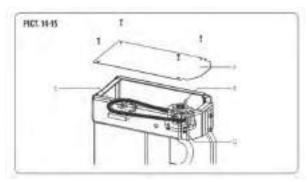
- Using a wooden or plastic palate first clean the residue of dough;
- with a soft sponge and warm water accurately clean the pan, the spiral, the dough breaker and the mobile protection ;
- dry with kitchen paper, then pass over the parts just mentioned then all the machine with a smooth and cleaned cloth with a specific cleaning products for foods machines.

Note: in the case of a machine with rising top and extractable blow, it is advisable to remove the blow to facilitate cleaning operations;

To maintain the efficiency and security of the machine it is necessary to proceed with periodical maintenance, every 6 months, of the following indications:

TENSIONING OF THE UPPER CHAIN

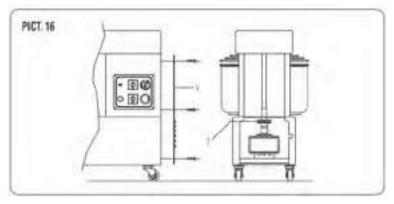
The chain tension is ensured by the chain tensioner. If the machine is not equipped with it, if the chain is loose at the control or if the rotation of the spiral is not constant. Unscrew the panel P, (PICT. 14) loosen the screws Q, pull the support of the spiral R as far as the tension of the chain is optimized, lock the support R with the screws Q, put the panel P on once more and fix it.



TENSIONING OF THE UPPER CHAIN

To lubricate the chains, proceed as follows:

- unscrewing the fixing screws, take away the upper "P" and the back "V" panels;
- put on the chains S-T (PICT. 15-16) a reasonable amount of proper grease, sufficient to lubricate all the links of the chain;
- mount the 2 panels and secure again with screws.



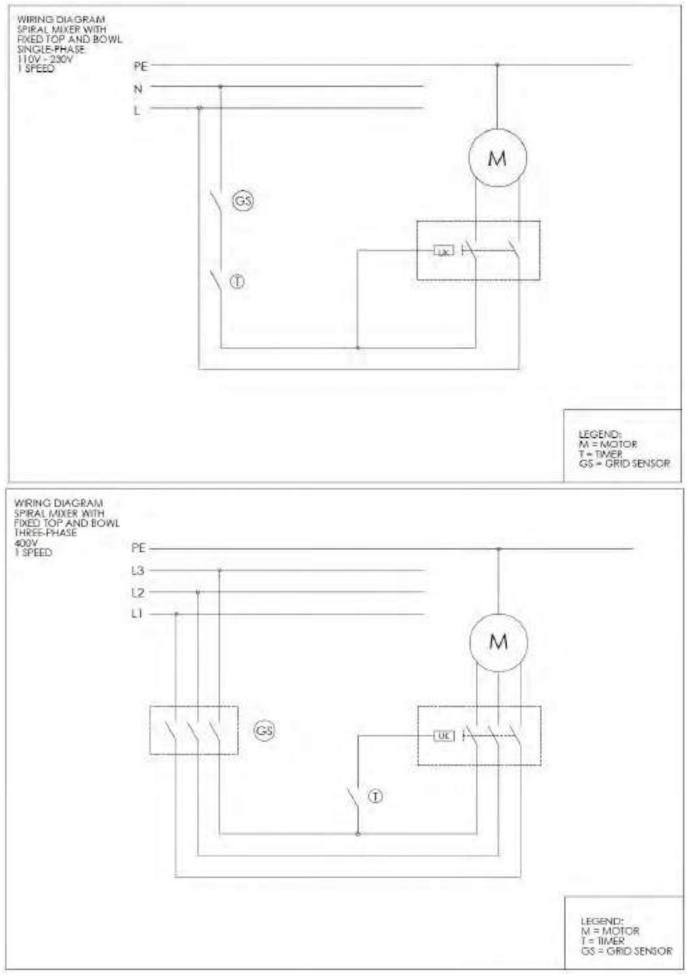
For any maintenance not covered in Ordinary Maintenance, and in the event of malfunctions, only contact the manufacturer.

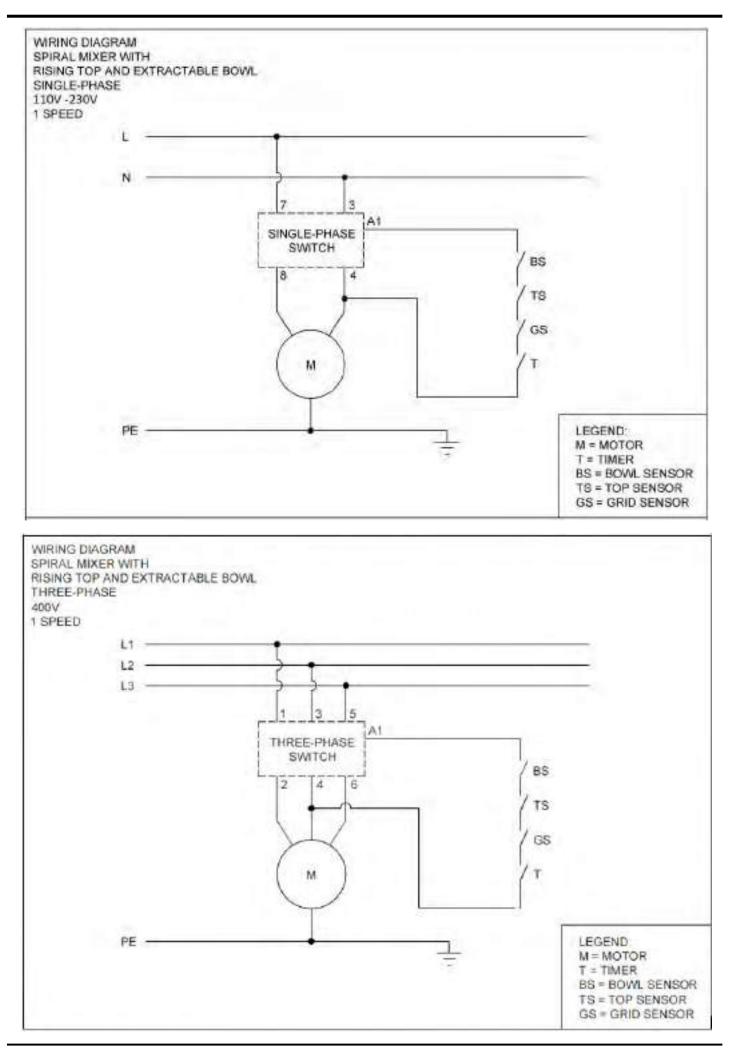
DEMOLITION AND DISPOSAL

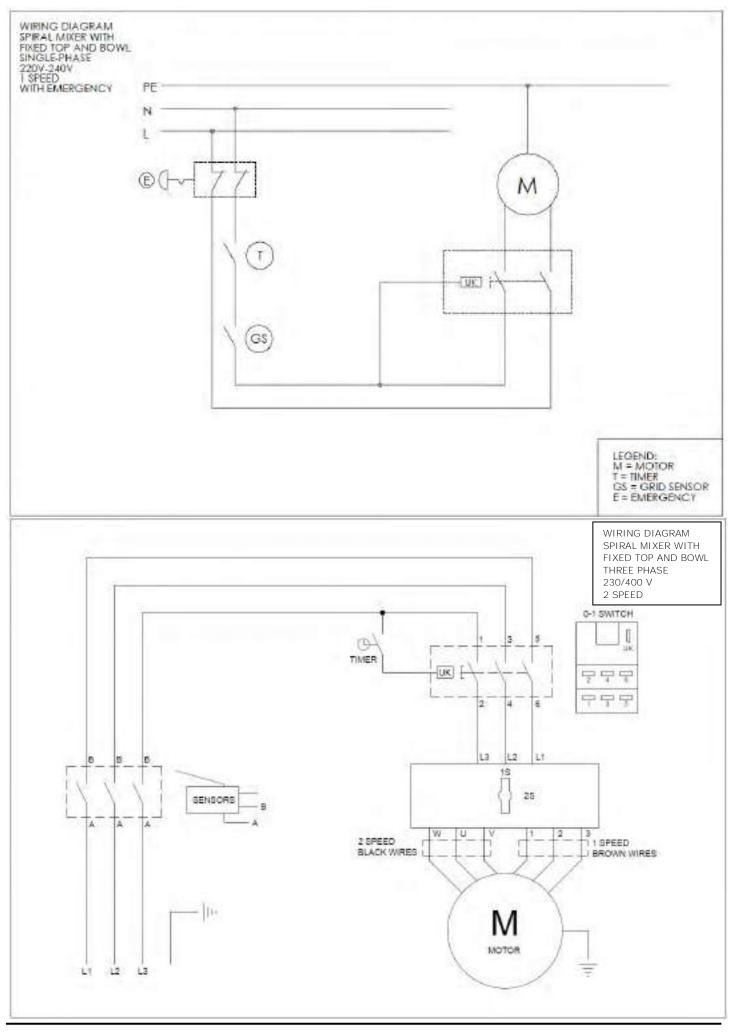
ATTENTION: Demolition and disposal of the machine, are the sole responsibility and responsibility of the owner, who must act in compliance with the laws in force in their country regarding safety, respect and protection of the environment.

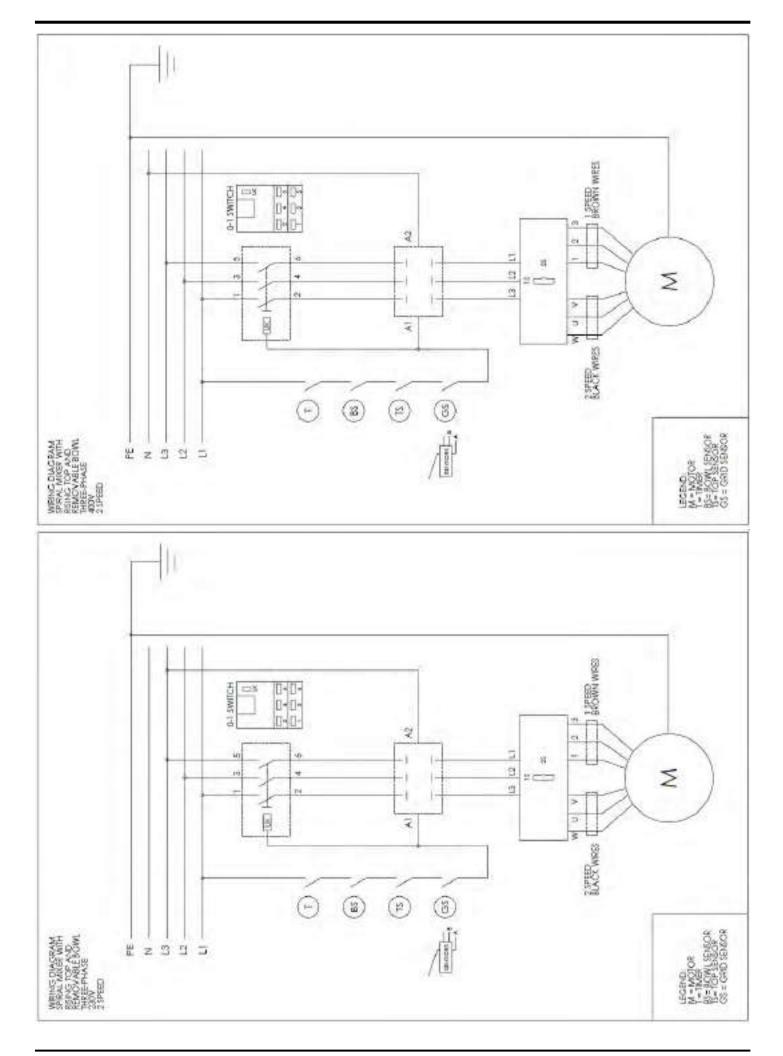
When dismantling the machine, compulsorily observe the provisions of the regulations in force. Differentiate the parts making up the oven according to different types of construction materials (plastic, copper, iron, etc.).

WIRING DIAGRAMS

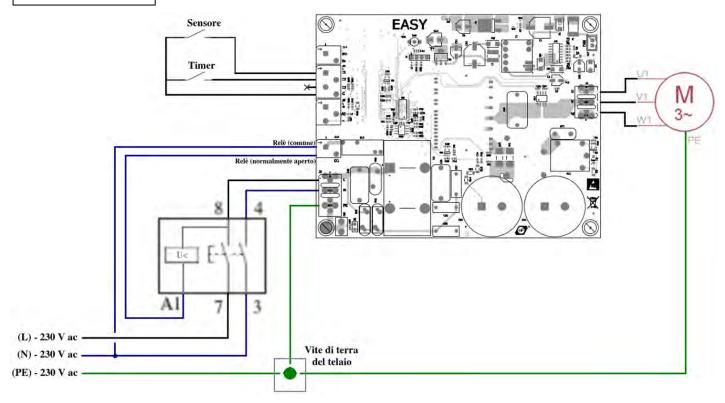




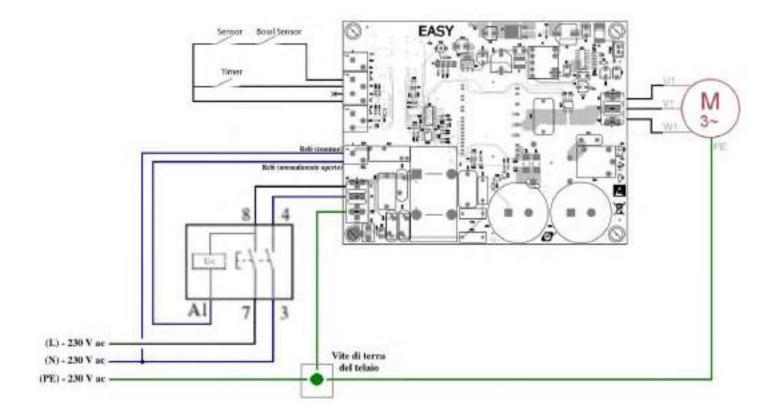




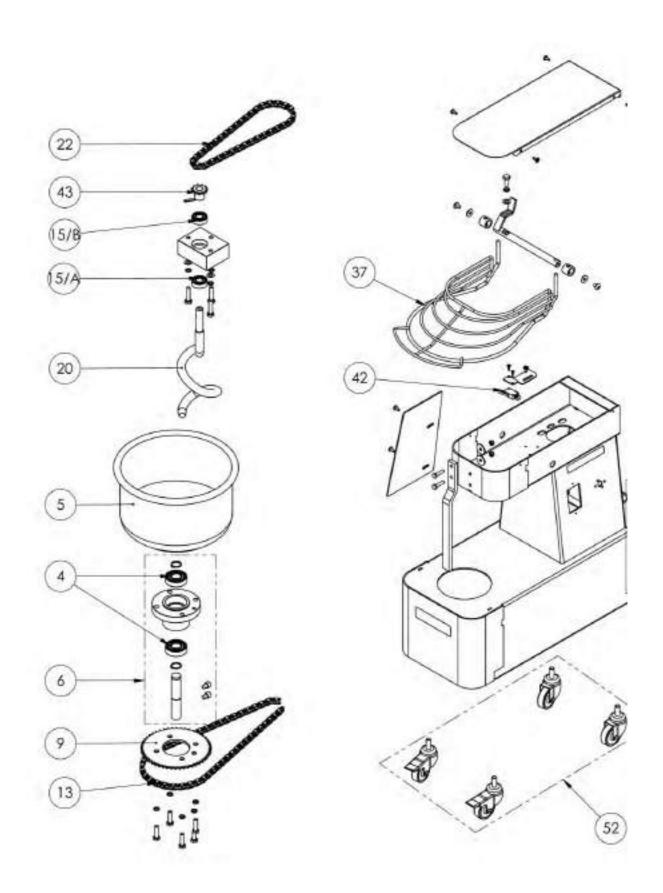
FIXED INVERTER

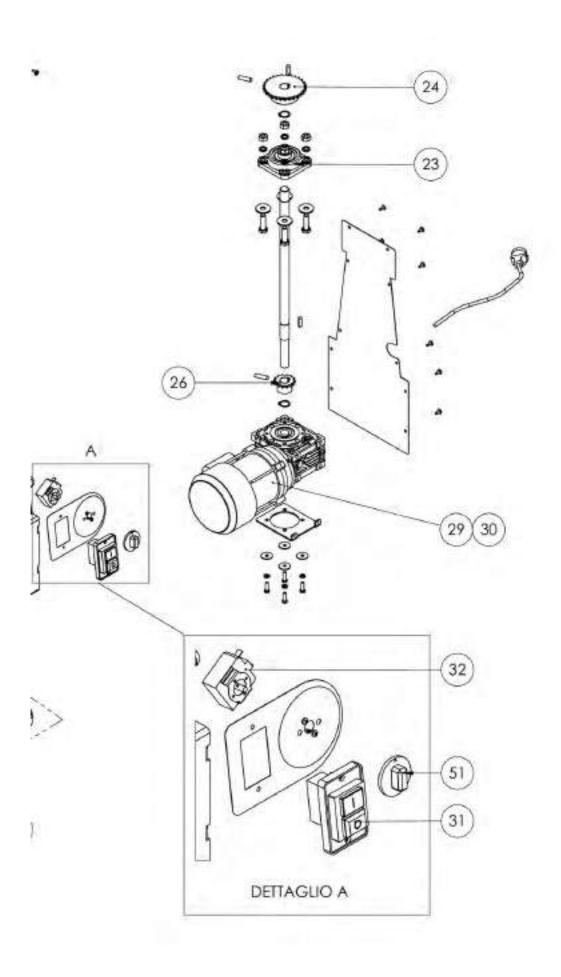


RISING INVERTER

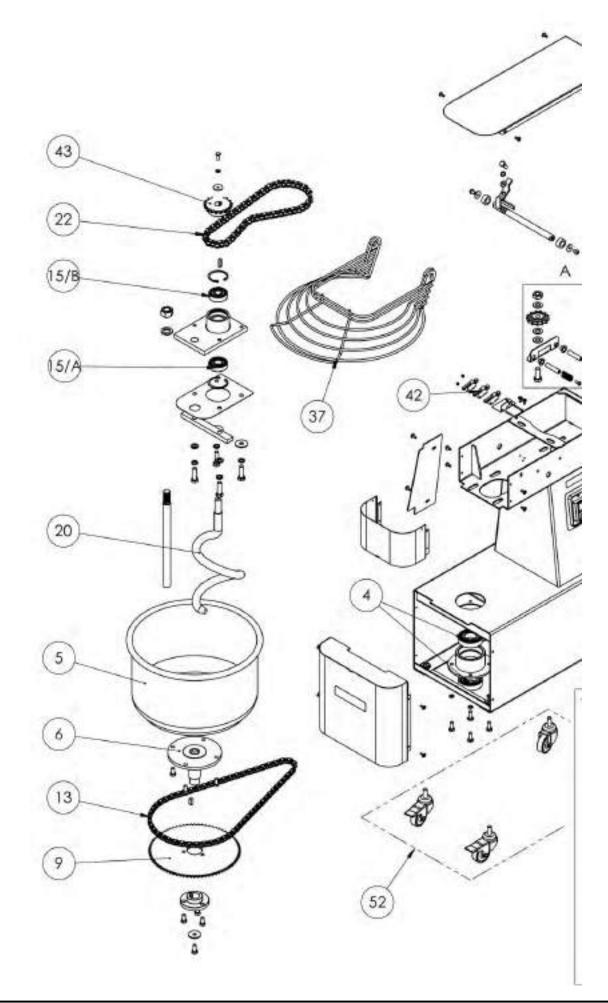


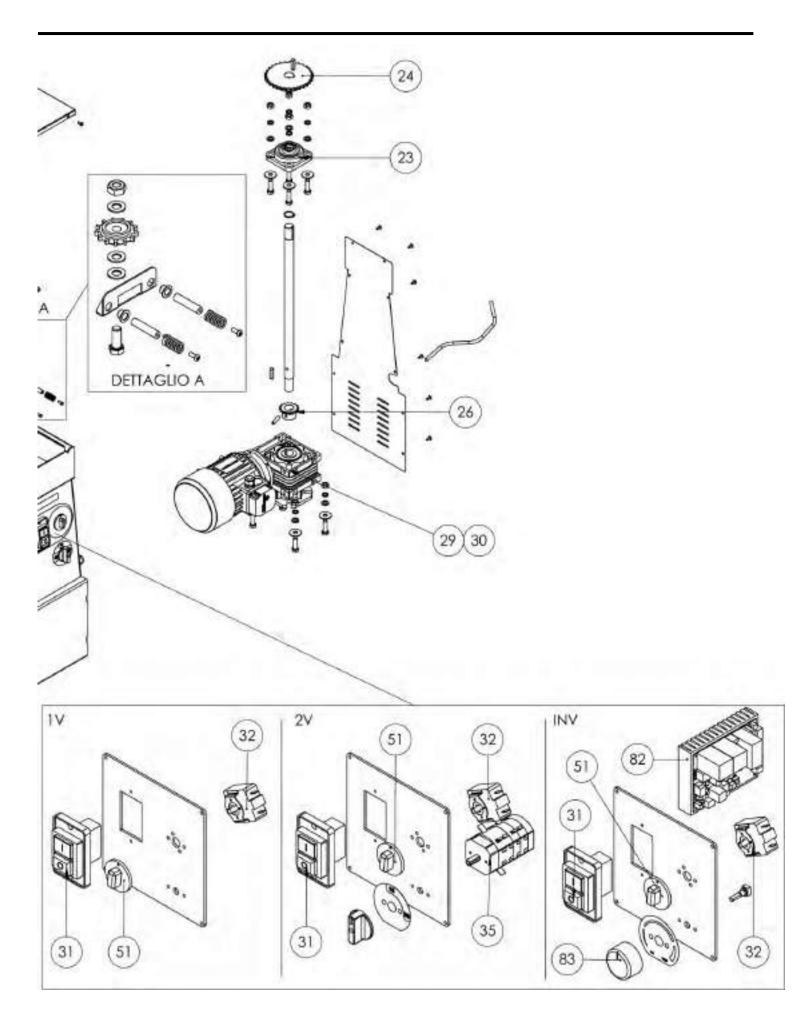
EXPLODED VI EW EXPLODED FIXED 5-10



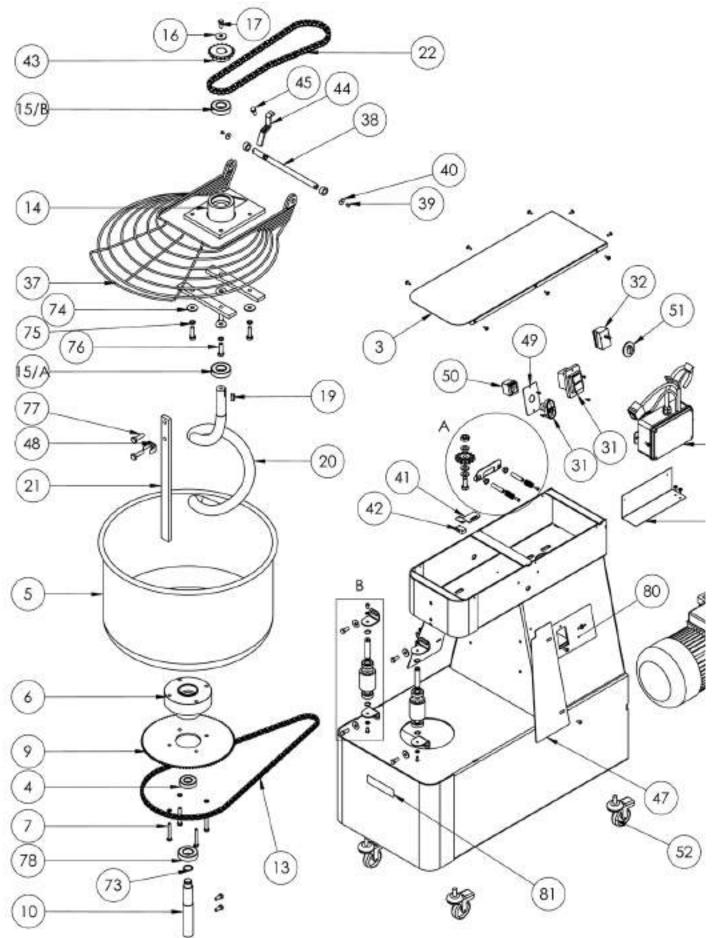


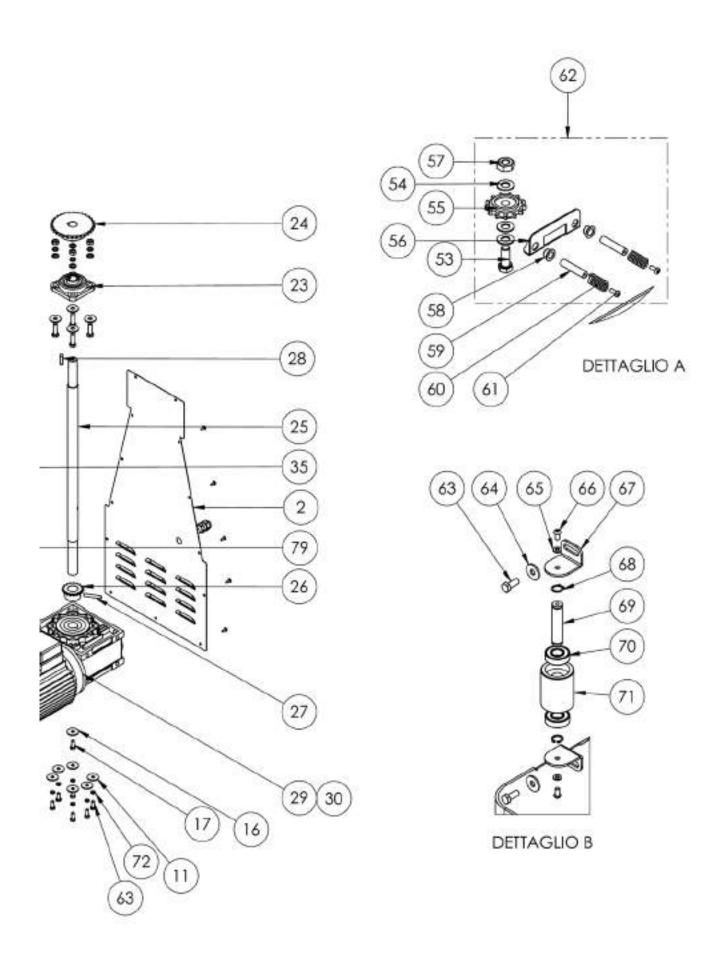
EXPLODED FIXED 15-20-30-40-50

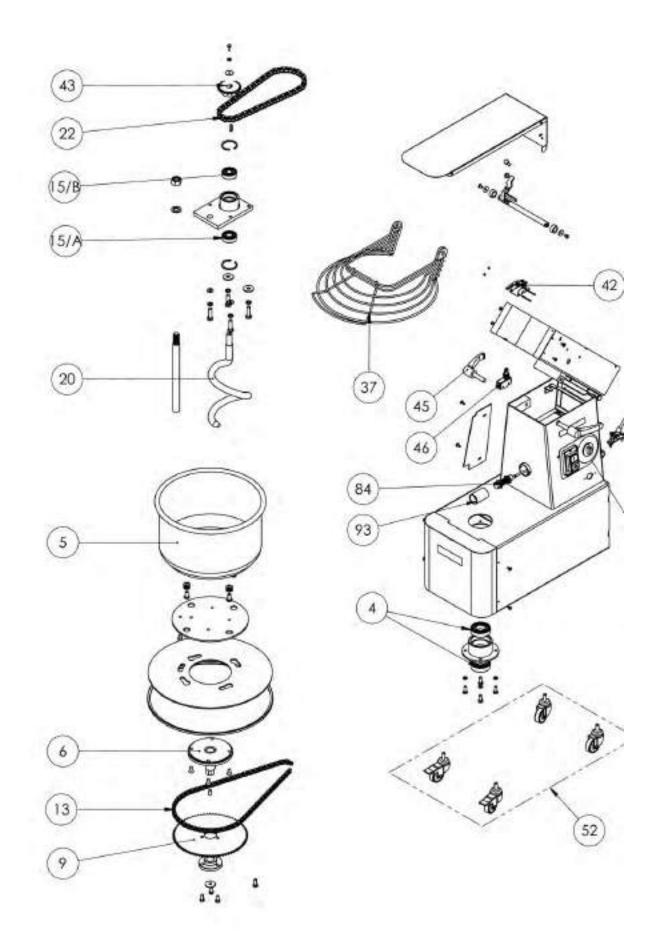


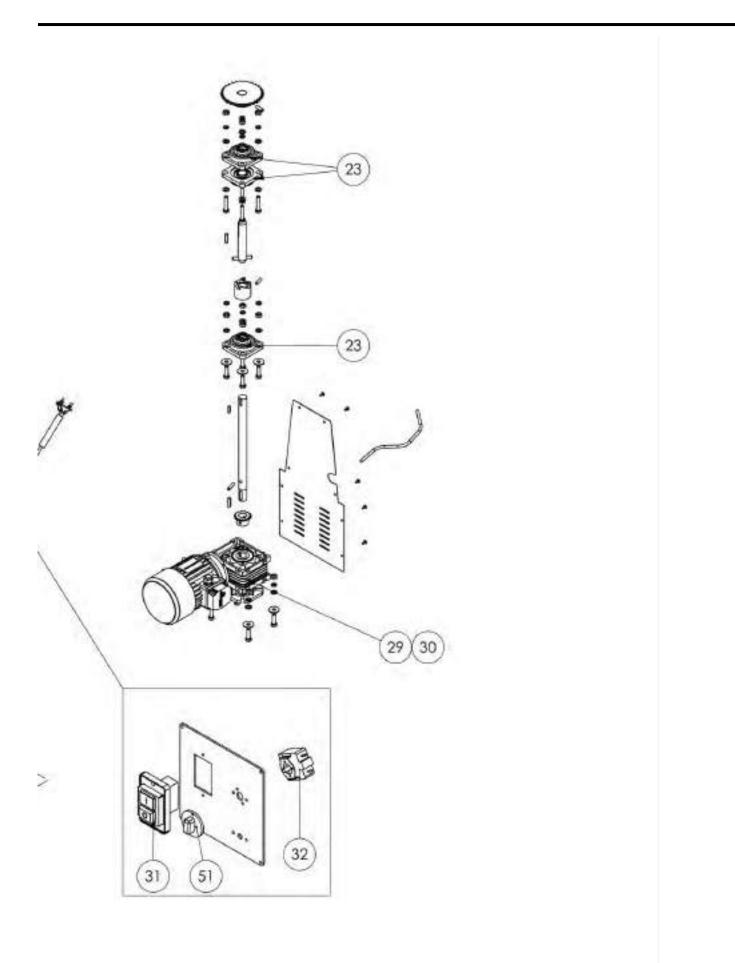


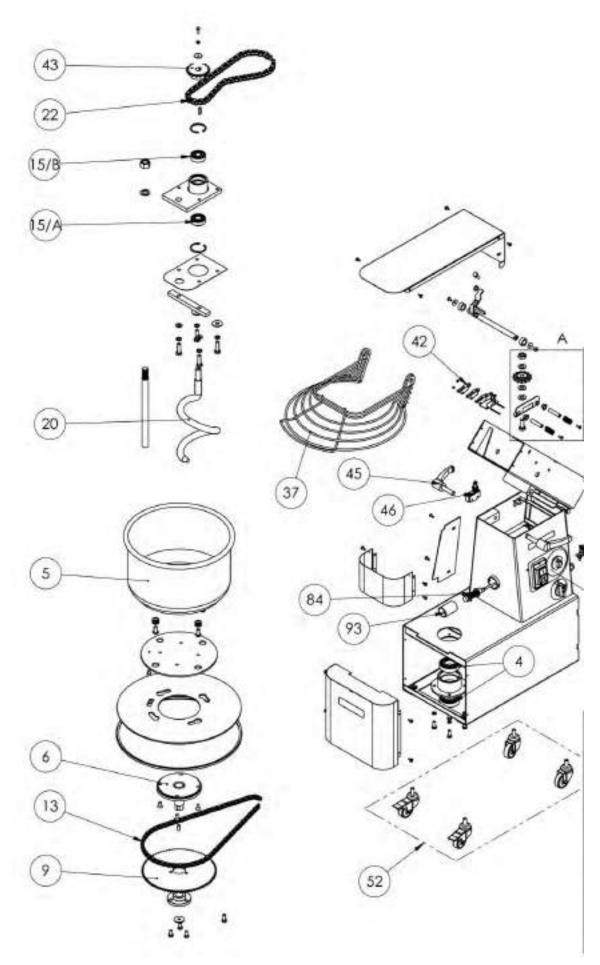
EXPLODED FIXED 60

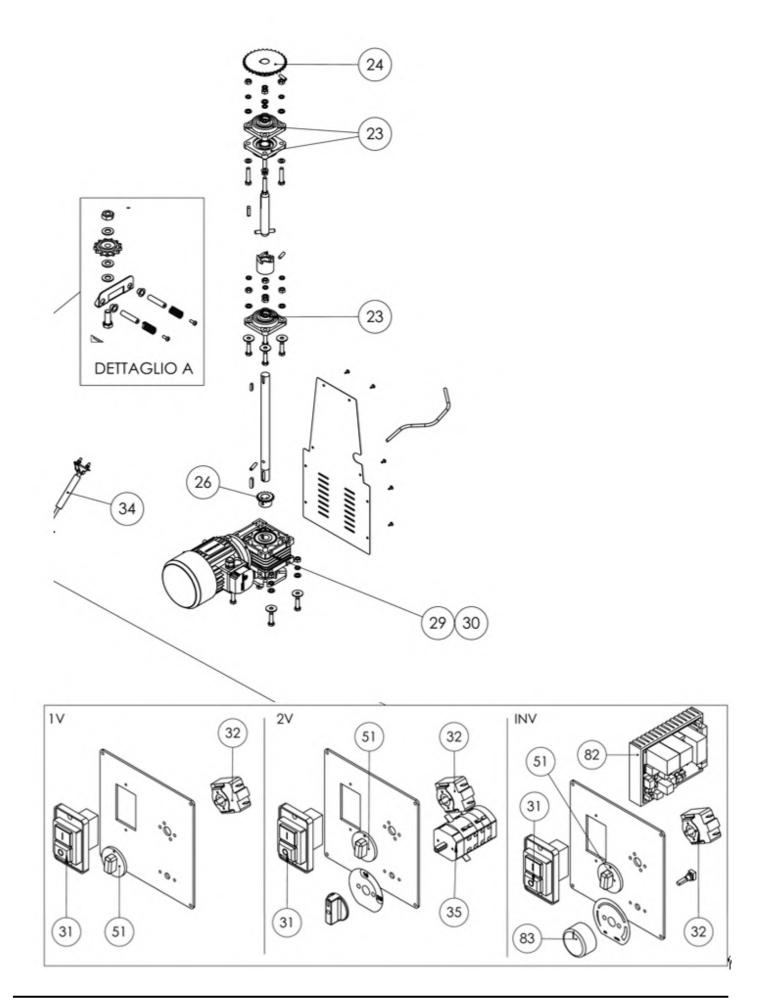












SPARE PARTS

FIXED

FIXE	D																												1						
30 2V 230V/3PH	50Hz	5C030012	5V010506	7S010009	5C030500	5C030500	5C030508	5C020101	5C020101	5C020138	5C030013+ 5S500110	5C030011+ 5S500100	5S080001	5C020139	5C020107	5C020139	5S030010	5P030000	5P030036	5P030006	5P030006	5M010508		51100031	5T010305	5C010650 + 5M200009	56080001	5M050500	5P030011	5P030027	5P030039	5M200014	8K010001	51030201	5M200003
30 3PH 2V	50Hz	5C030012	5V010506	7S010009	5C030500	5C030500	5C030508	5C020101	5C020101	5C020138	5C030013+ 5S500110	5C030011 + 5S500100	5S080001	5C020139	5C020107	5C020139	5S030010	5P030000	5P030036	5P030006	5P030006	5M010507		51100031	57010305	5C010650 + 5M200009	56080001	5M050500	5P030011	5P030027	5P030039	5M200014	8K010001	51030201	5M200003
30 3PH	50Hz	5C030012	5V010506	7S010009	5C030500	5C030500	5C030508	5C020101	5C020101	5C020138	5C030013+ 5S500110	5C030011+ 5S500100	5S080001	5C020139	5C020107	5C020139	5S030010	5P030000	5P030036	5P030006	5P030006	5M010505		51100031	57010305	I	56080001	5M050500	5P030011	5P030027	5P030039	5M200014	8K010001	51030201	5M200003
30	50Hz	5C030012	5V010506	7S010009	5C030500	5C030500	5C030508	5C020101	5C020101	5C020138	5C030013+ 5S500110	5C030011+ 5S500100	5S080001	5C020139	5C020107	5C020139	5S030010	5P030000	5P030036	5P030006	5P030006	5M010506	5M010514	51100041	5T010305	I	56080001	5M050500	5P030011	5P030027	5P030039	5M200014	8K010001	51030201	5M200003
20 2V 230V/3PH	50Hz	5C030012	5V010505	7S010012	5C030501	5C030501	5C030513	5C020100	5C020100	5C020135	5C030011+ 5S500100	5C030010+ 5S500100	5S080000	5C020107	5C020105	5C020107	5S030010	5P030000	5P030033	5P030005	5P030005	5M010513		51100031	5T010305	5C010650 + 5M200009	5G080000	5M050500	5P030010	5P030026	5P030040	5M200014	8K010001	51030200	5M200003
20 3PH 2V	50Hz	5C030012	5V010505	7S010012	5C030501	5C030501	5C030513	5C020100	5C020100	5C020135	5C030011 + 5S500100	5C030010+ 5S500100	5S080000	5C020107	5C020105	5C020107	5S030010	5P030000	5P030033	5P030005	5P030005	5M010502		51100031	5T010305	5C010650 + 5M200009	5G080000	5M050500	5P030010	5P030026	5P030040	5M200014	8K010001	51030200	5M200003
20 3PH	50Hz	5C030012	5V010505	7S010012	5C030501	5C030501	5C030513	5C020100	5C020100	5C020135	5C030011+ 5S500100	5C030010+ 5S500100	5S080000	5C020107	5C020105	5C020107	5S030010	5P030000	5P030033	5P030005	5P030005	5M010500		51100031	57010305	I	5G080000	5M050500	5P030010	5P030026	5P030040	5M200014	8K010001	51030200	5M200003
20	50Hz	5C030012	5V010505	7S010012	5C030501	5C030501	5C030513	5C020100	5C020100	5C020135	5C030011+ 5S500100	5C030010+ 5S500100	5S080000	5C020107	5C020105	5C020107	5S030010	5P030000	5P030033	5P030005	5P030005	5M010501	5M010515	51100041	57010305	I	56080000	5M050500	5P030010	5P030026	5P030040	5M200014	8K010001	51030200	5M200003
15 2V 230V/3PH	50Hz	5C030012	5V010514	7S010012	5C030501	5C030501	5C030513	5C020100	5C020100	5C020135	5C030011+ 5S500100	5C030010+ 5S500100	5S080000	5C020113	5C020107	5C020113	55030010	5P030000	5P030033	5P030005	5P030005	5M010513		51100031	57010305	5C010650 + 5M200009	56080000	5M050500	5P030010	5P030026	5P030040	5M200014	8K010001	51030200	5M200003
15 3PH 2V	50Hz	5C030012	5V010514	7S010012	5C030501	5C030501	5C030513	5C020100	5C020100	5C020135	5C030011+ 5S500100	5C030010+ 5S500100	5S080000	5C020113	5C020107	5C020113	5S030010	5P030000	5P030033	5P030005	5P030005	5M010502		51100031	57010305	5C010650 + 5M200009	5G080000	5M050500	5P030010	5P030026	5P030040	5M200014	8K010001	51030200	5M200003
15 3PH	50Hz	5C030012	5V010514	7S010012	5C030501	5C030501	5C030513	5C020100	5C020100	5C020135	5C030011+ 5S500100	5C030010+ 5S500100	5S080000	5C020113	5C020107	5C020113	5S030010	5P030000	5P030033	5P030005	5P030005	5M010500		51100031	57010305	I	5G080000	5M050500	5P030010	5P030026	5P030040	5M200014	8K010001	51030200	5M200003
15	50Hz	5C030012	5V010514	7S010012	5C030501	5C030501	5C030513	5C020100	5C020100	5C020135	5C030011+ 5S500100	5C030010+ 5S500100	5S080000	5C020113	5C020107	5C020113	5S030010	5P030000	5P030033	5P030005	5P030005	5M010501	5M010515	51100041	57010305	-	5G080000	5M050500	5P030010	5P030026	5P030040	5M200014	8K010001	51030200	5M200003
10	50Hz	ı	5V010510	7A010520	5030502	5030502		5C020109	5C020109		5C030014	5C030014	5S080004	5C020110	5C020110		5S030009	5P030009		5P030008		5M010010		51100041	5T010305	I	5G080004	5M050500	5P030007	5P030007		5M200014	8K010001		
Q	50Hz	1	5V010512	7A010520	5030502	5030502		5C020109	5C020109		5C030014	5C030014	5S080004	5C020110	5C020110		5S030009	5P030009		5P030008		5M010010		51100041	57010305	I	56080004	5M050500	5P030007	5P030007		5M200014	8K010001		
RIF.		4	Ð	6	6	9 (+h2o)	(VNI) 6	13	13(+h2o)	13 (INV)	15/A	15/B	20	22	22(+h2o)	22 (INV)	23	24	24 (INV)	26	26 (INV)	29/30	29/30 110V60H	31	32	35	37	42	43	43(+h2o)	43 (INV)	51	52	82	83

L	40	40 3PH	40 3PH 2V	40 2V	50	50 3PH	50 3PH 2V	50 2V	60 3PH	60 3PH 2V	60 2V
	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz
	5C030012	5C030012	5C030012	5C030012	5C030012	5C030012	5C030012	5C030012	5C030013	5C030013	5C030013
	5V010507	5V010507	5V010507	5V010507	5V010508	5V010508	5V010508	5V010508	5V010515	5V010515	5V010515
6	7S010009	7S010009	7S010009	7S010009	7S010010 + 4F050015	7S010010 + 4F050015	7S010010 + 4F050015	7S010010 + 4F050015	3S010120	3S010120	3S010120
9	5C030500	5C030500	5C030500	5C030500	5C030500	5C030500	5C030500	5C030500	5C030505	5C030505	5C030505
9 (+h2o)	5C030500	5C030500	5C030500	5C030500	5C030500	5C030500	5C030500	5C030500	5C030507	5C030507	5C030507
(INV)	5C030508	5C030508	5C030508	5C030508	5C030508	5C030508	5C030508	5C030508	5C030505	5C030505	5C030505
13	5C020102	5C020102	5C020102	5C020102	5C020102	5C020102	5C020102	5C020102	5C020111	5C020111	5C020111
13(+h2o)	5C020102	5C020102	5C020102	5C020102	5C020102	5C020102	5C020102	5C020102	5C0201	5C0201	5C0201
13 (INV)	5C020100	5C020100	5C020100	5C020100	5C020100	5C020100	5C020100	5C020100	5C020131	5C020131	5C020131
15/A	5C030013+ 5S500110	5C030013+ 5S500110	5C030013+ 5S500110	5C030013+ 5S500110	5C030013+ 5S500110	5C030013+ 5S500110	5C030013+ 5S500110	5C030013+ 5S500110	5C030017	5C030017	5C030017
15/B	5C030011+ 5S500100	5C030011+ 5S500100	5C030011+ 5S500100	5C030011+ 5S500100	5C030011+ 5S500100	5C030011+ 5S500100	5C030011+ 5S500100	5C030011+ 5S500100	5C030017	5C030017	5C030017
20	5S080001	5S080001	5S080001	5S080001	5S080003	5S080003	5S080003	5S080003	5S080005	5S080005	5S080005
22	5C020139	5C020139	5C020139	5C020139	5C020139	5C020139	5C020139	5C020139	5C020112	5C020112	5C020112
22(+h2o)	5C020104	5C020104	5C020104	5C020104	5C020104	5C020104	5C020104	5C020104	5C020132	5C020132	5C020132
22 (INV)	5C020133	5C020133	5C020133	5C020133	5C020133	5C020133	5C020133	5C020133	5C020132	5C020132	5C020132
23	5S030010	5S030010	5S030010	5S030010	5S030010	5S030010	5S030010	5S030010	5S030010	5S030010	5S030010
24	5P030000	5P030000	5P030000	5P030000	5P030000	5P030000	5P030000	5P030000	5P030018	5P030018	5P030018
24 (INV)	5P030036	5P030036	5P030036	5P030036	5P030036	5P030036	5P030036	5P030036	5P030037	5P030037	5P030037
26	5P030006	5P030006	5P030006	5P030006	5P030006	5P030006	5P030006	5P030006	5P030016	5P030016	5P030016
26 (INV)	5P030006	5P030006	5P030006	5P030006	5P030006	5P030006	5P030006	5P030006	5P030031	5P030031	5P030031
29/30	5M010506	5M010505	5M010507	5M010508	5M010511	5M010510	5M010512	5M010509	5M010516	5M010517	5M010518
29/30 110V60Hz	5M010514										
31	51100041	51100031	51100031	51100031	51100041	51100031	51100031	51100031	51100031	51100031	51100031
32	5T010305	5T010305	5T010305	5T010305	57010305	5T010305	5T010305	5T010305	5T010305	5T010305	5T010305
35	I	ı	5C010650 + 5M200009	5C010650 + 5M200009	I	I	5C010650 + 5M200009	5C010650 + 5M200009	I	5C010650 + 5M200009	5C010650 + 5M200009
37	5G080002	5G080002	5G080002	5G080002	5G080002	5G080002	5G080002	5G080002	5G080008	5G080008	5G080008
42	5M050500	5M050500	5M050500	5M050500	5M050500	5M050500	5M050500	5M050500	5M050500	5M050500	5M050500
43	5P030011	5P030011	5P030011	5P030011	5P030011	5P030011	5P030011	5P030011	5P030017	5P030017	5P030017
43(+h2o)	5P030027	5P030027	5P030027	5P030027	5P030027	5P030027	5P030027	5P030027	5P030038	5P030038	5P030038
43 (INV)	5P030039	5P030039	5P030039	5P030039	5P030039	5P030039	5P030039	5P030039	5P030038	5P030038	5P030038
51	5M200014	5M200014	5M200014	5M200014	5M200014	5M200014	5M200014	5M200014	5M200014	5M200014	5M200014
52	8K010004	8K010004	8K010004	8K010004	8K010004	8K010004	8K010004	8K010004	8K010004	8K010004	8K010004
82	51030201	51030201	51030201	51030201	51030201	51030201	51030201	51030201	51030202	51030202	51030202
83	5M200003	5M200003	5M200003	5M200003	5M200003	5M200003	5M200003	5M200003	5M200003	5M200003	5M200003

RISI	NG	ò																																					_
20 2V 230V/3PH	50Hz	5V010505	7S010018	5C030501	5C030501	5C030513	5C020100	5C020100	5C020135	5C030011+ 5S500100	5C030010+ 5S500100	5S080000	5C020107	5C020105	5C020107	5S030010	5P030000	5P030033	5P030005	5P030005	5M010502		51100031	5T010305	5M500020	5C010650 + 5M200009	5G080000	5M050500	5P030010	5P030026	5P030040	5M200035	5M050501	5M200014	8K010001	51030200	5M200003	5S010075	4S000025
20 3PH 2V	50Hz	5V010505	7S010018	5C030501	5C030501	5C030513	5C020100	5C020100	5C020135	5C030011+ 5S500100	5C030010+ 5S500100	5S080000	5C020107	5C020105	5C020107	5S030010	5P030000	5P030033	5P030005	5P030005	5M010502		51100031	5T010305	5M500020	5C010650 + 5M200009	5G080000	5M050500	5P030010	5P030026	5P030040	5M200035	5M050501	5M200014	8K010001	51030200	5M200003	5S010075	4S000025
20 3PH	50Hz	5V010505	7S010018	5C030501	5C030501	5C030513	5C020100	5C020100	5C020135	5C030011+ 5S500100	5C030010+ 5S500100	5S080000	5C020107	5C020105	5C020107	5S030010	5P030000	5P030033	5P030005	5P030005	5M010500		51100031	57010305	5M500020		5G080000	5M050500	5P030010	5P030026	5P030040	5M200035	5M050501	5M200014	8K010001	51030200	5M200003	5S010075	4S000025
20	50Hz	5V010505	7S010018	5C030501	5C030501	5C030513	5C020100	5C020100	5C020135	5C030011+ 5S500100	5C030010+ 5S500100	5S080000	5C020107	5C020105	5C020107	5S030010	5P030000	5P030033	5P030005	5P030005	5M010501	5M010515	51100041	57010305	5M500020		5G080000	5M050500	5P030010	5P030026	5P030040	5M200035	5M050501	5M200014	8K010001	51030200	5M200003	5S010075	4S000025
15 2V 230V/3PH	50Hz	5V010514	7S010018	5C030501	5C030501	5C030513	5C020100	5C020100	5C020135	5C030011+ 5S500100	5C030010+ 5S500100	5S080000	5C020113	5C020107	5C020113	5S030010	5P030000	5P030033	5P030005	5P030005	5M010513		51100031	57010305	5M500020	5C010650 + 5M200009	5G080000	5M050500	5P030010	5P030026	5P030040	5M200035	5M050501	5M200014	8K010001	51030200	5M200003	5S010075	4S000025
15 3PH 2V	50Hz	5V010514	7S010018	5C030501	5C030501	5C030513	5C020100	5C020100	5C020135	5C030011+ 5S500100	5C030010+ 5S500100	5S080000	5C020113	5C020107	5C020113	5S030010	5P030000	5P030033	5P030005	5P030005	5M010502		51100031	57010305	5M500020	5C010650 + 5M200009	5G080000	5M050500	5P030010	5P030026	5P030040	5M200035	5M050501	5M200014	8K010001	51030200	5M200003	5S010075	4S000025
15 3PH	50Hz	5V010514	7S010018	5C030501	5C030501	5C030513	5C020100	5C020100	5C020135	5C030011+ 5S500100	5C030010+ 5S500100	5S080000	5C020113	5C020107	5C020113	5S030010	5P030000	5P030033	5P030005	5P030005	5M010500		51100031	57010305	5M500020		5G080000	5M050500	5P030010	5P030026	5P030040	5M200035	5M050501	5M200014	8K010001	51030200	5M200003	5S010075	4S000025
15	50Hz	5V010514	7S010018	5C030501	5C030501	5C030513	5C020100	5C020100	5C020135	5C030011+ 5S500100	5C030010+ 5S500100	5S080000	5C020113	5C020107	5C020113	5S030010	5P030000	5P030033	5P030005	5P030005	5M010501	5M010515	51100041	5T010305	5M500020		5G080000	5M050500	5P030010	5P030026	5P030040	5M200035	5M050501	5M200014	8K010001	51030200	5M200003	5S010075	4S000025
10	50Hz	5V010510	7S010018	5C030503	5C030503		5C020109	5C020109		5C030014	5C030014	5S080004	5C020110	5C020110		5S030009	5P030009		5P030008		5M010010		51100041	5T010305	5M500020		5G080004	5M050500	5P030007	5P030007		5M200035	5M050501	5M200014	8K010001			5S010075	4S000025
Q	50Hz	5V010512	7S010018	5C030503	5C030503		5C020109	5C020109		5C030014	5C030014	5S080004	5C020110	5C020110		5S030009	5P030009		5P030008		5M010010		51100041	5T010305	5M500020		5G080004	5M050500	5P030007	5P030007		5M200035	5M050501	5M200014	8K010001			5S010075	4S000025
RI F.		വ	6	6	9 (+h2o)	6 (INV)	13	13(+h2o)	13 (INV)	15/A	15/B	20	22	22(+h2o)	22 (INV)	23	24	24 (INV)	26	26 (INV)	29-30	29/30 110V60Hz	31	32	34	35	37	42	43	43(+h2o)	43 (INV)	45	46	51	52	82	83	84	93

50 2V 230V/3PH	50Hz	5V010508	7S010020	5C030500	5C030500	5C030508	5C020102	5C020102	5C020100	5C030013+ 5S500110	5C030011+ 5S500100	5S080003	5C020139	5C020104	5C020133	5S030010	5P030000	5P030036	5P030006	5P030006	5M010512		51100031	5T010305	5M500020	5C010650 + 5M200009	5G080002	5M050500	5P030011	5P030027	5P030039	5M200035	5M050501	5M200014	8K010004	51030201	5M200003	5S010075	
50 3PH 2V	50Hz	5V010508	7S010020	5C030500	5C030500	5C030508	5C020102	5C020102	5C020100	5C030013+ 5S500110	5C030011+ 5S500100	5S080003	5C020139	5C020104	5C020133	5S030010	5P030000	5P030036	5P030006	5P030006	5M010512		51100031	5T010305	5M500020	5C010650 + 5M200009	5G080002	5M050500	5P030011	5P030027	5P030039	5M200035	5M050501	5M200014	8K010004	51030201	5M200003	5S010075	
50 3PH	50Hz	5V010508	7S010020	5C030500	5C030500	5C030508	5C020102	5C020102	5C020100	5C030013+ 5S500110	5C030011+ 5S500100	5S080003	5C020139	5C020104	5C020133	5S030010	5P030000	5P030036	5P030006	5P030006	5M010510		51100031	5T010305	5M500020		5G080002	5M050500	5P030011	5P030027	5P030039	5M200035	5M050501	5M200014	8K010004	51030201	5M200003	5S010075	
50	50Hz	5V010508	7S010020	5C030500	5C030500	5C030508	5C020102	5C020102	5C020100	5C030013+ 5S500110	5C030011+ 5S500100	5S080003	5C020139	5C020104	5C020133	5S030010	5P030000	5P030036	5P030006	5P030006	5M010511		51100041	5T010305	5M500020		5G080002	5M050500	5P030011	5P030027	5P030039	5M200035	5M050501	5M200014	8K010004	51030201	5M200003	5S010075	
40 2V 230V/3PH	50Hz	5V010507	7S010019	5C030500	5C030500	5C030508	5C020102	5C020102	5C020100	5C030013+ 5S500110	5C030011+ 5S500100	5S080001	5C020139	5C020104	5C020133	5S030010	5P030000	5P030036	5P030006	5P030006	5M010507		51100031	57010305	5M500020	5C010650 + 5M200009	5G080002	5M050500	5P030011	5P030027	5P030039	5M200035	5M050501	5M200014	8K010004	51030201	5M200003	5S010075	
40 3PH 2V	50Hz	5V010507	7S010019	5C030500	5C030500	5C030508	5C020102	5C020102	5C020100	5C030013+ 5S500110	5C030011+ 5S500100	5S080001	5C020139	5C020104	5C020133	5S030010	5P030000	5P030036	5P030006	5P030006	5M010507		51100031	5T010305	5M500020	5C010650 + 5M200009	5G080002	5M050500	5P030011	5P030027	5P030039	5M200035	5M050501	5M200014	8K010004	51030201	5M200003	5S010075	
40 3PH	50Hz	5V010507	7S010019	5C030500	5C030500	5C030508	5C020102	5C020102	5C020100	5C030013+ 5S500110	5C030011+ 5S500100	5S080001	5C020139	5C020104	5C020133	5S030010	5P030000	5P030036	5P030006	5P030006	5M010505		51100031	5T010305	5M500020		5G080002	5M050500	5P030011	5P030027	5P030039	5M200035	5M050501	5M200014	8K010004	51030201	5M200003	5S010075	
40	50Hz	5V010507	7S010019	5C030500	5C030500	5C030508	5C020102	5C020102	5C020100	5C030013+ 5S500110	5C030011+ 5S500100	5S080001	5C020139	5C020104	5C020133	5S030010	5P030000	5P030036	5P030006	5P030006	5M010506	5M010514	51100041	57010305	5M500020		5G080002	5M050500	5P030011	5P030027	5P030039	5M200035	5M050501	5M200014	8K010004	51030201	5M200003	5S010075	
30 2V 230V/3PH	50Hz	5V010506	7S010019	5C030500	5C030500	5C030508	5C020101	5C020101	5C020138	5C030013+ 5S500110	5C030011+ 5S500100	5S080001	5C020139	5C020107	5C020139	5S030010	5P030000	5P030036	5P030006	5P030006	5M010507		51100031	5T010305	5M500020	5C010650 + 5M200009	5G080001	5M050500	5P030011	5P030027	5P030039	5M200035	5M050501	5M200014	8K010001	51030201	5M200003	5S010075	1000000
30 3PH 2V	50Hz	5V010506	7S010019	5C030500	5C030500	5C030508	5C020101	5C020101	5C020138	5C030013+ 5S500110	5C030011+ 5S500100	5S080001	5C020139	5C020107	5C020139	5S030010	5P030000	5P030036	5P030006	5P030006	5M010507		51100031	5T010305	5M500020	5C010650 + 5M200009	5G080001	5M050500	5P030011	5P030027	5P030039	5M200035	5M050501	5M200014	8K010001	51030201	5M200003	5S010075	
30 3PH	50Hz	5V010506	7S010019	5C030500	5C030500	5C030508	5C020101	5C020101	5C020138	5C030013+ 5S500110	5C030011+ 5S500100	5S080001	5C020139	5C020107	5C020139	5S030010	5P030000	5P030036	5P030006	5P030006	5M010505		51100031	5T010305	5M500020		5G080001	5M050500	5P030011	5P030027	5P030039	5M200035	5M050501	5M200014	8K010001	51030201	5M200003	5S010075	1000001
08	50Hz	5V010506	7S010019	5C030500	5C030500	5C030508	5C020101	5C020101	5C020138	5C030013+ 5S500110	5C030011+ 5S500100	5S080001	5C020139	5C020107	5C020139	5S030010	5P030000	5P030036	5P030006	5P030006	5M010506	5M010514	51100041	5T010305	5M500020		5G080001	5M050500	5P030011	5P030027	5P030039	5M200035	5M050501	5M200014	8K010001	51030201	5M200003	5S010075	
L L L L L L L L L L L L L L L L L L L		വ	9	6	9 (+h2o)	9 (INV)	13	13(+h2o)	13 (INV)	15/A	15/B	20	22	22(+h2o)	22 (INV)	23	24	24 (INV)	26	26 (INV)	29-30	29/30 110V60Hz	31	32	34	35	37	42	43	43(+h2o)	43 (INV)	45	46	51	52	82	83	84	Ċ

TECHNICAL DATA

Fixed:

			5	10	15/20	30	40	50	60
	HEIGHT	mm.	500	500	725	805	825	825	915
	WIDTH	mm.	240	260	385	424	480	480	535
BODY	DEPTH	mm.	500	500	670	735	805	805	935
	NET WEIGHT	kg.	30	30	65	86.6	95.4	97.4	145
	DIAMETER	mm.	240	260	317-360	400	450	450	500
	HEIGHT	mm.	160	200	210	260	260	300	350
BOWL	PRODUCTION CAPACITY	kg.	5	8	12-17	25	35	42	48
	PRODUCTION CAPACITY	L.	7	10	15-22	32	41	48	60
Three-	POWER	kW	-	-	0.75	1.1	1.1	1.5	1.5-2,2
PHASE	VOLTAGE	V.	-	-	400	400	400	400	400
MOTOR	FREQUENCY	Hz.	-	-	50/60	50/60	50/60	50/60	50
	POWER	kW	0.37	0.37	0.75	1.1	1.1	1.5	
SINGLE- PHASE	VOLTAGE	V.	230/110	230/110	230/110	230/110	230/110	230/110	
MOTOR	FREQUENCY	Hz.	50/60	50/60	50/60	50/60	50/60	50/60	
	HEIGHT	mm.	670	670	800	900	940	940	970
	WIDTH	mm.	380	380	430	480	540	540	615
PACKAGING	DEPTH	mm.	650	650	745	765	825	825	1035
FACNAGING	GROSS WEIGHT	kg.	35	36	72	95	106	108	152
	VOLUME	mc.	0.16	0.16	0.25	0.32	0.41	0.41	0.62

Rising:

			5	10	15/20	30	40	50
	HEIGHT	mm.	500	500	725	805	825	825
	WIDTH	mm.	240	260	385	424	480	480
BODY	DEPTH	mm.	500	500	670	735	805	805
	NET WEIGHT	kg.	40	40	73	94,6	105,4	107,4
	DIAMETER	mm.	240	260	317-360	400	450	450
	HEIGHT	mm.	160	200	210	260	260	300
BOWL	PRODUCTION CAPACITY	kg.	5	8	12-17	25	35	42
	PRODUCTION CAPACITY	L.	7	10	15-22	32	41	48
Three-	POWER	kW	-	-	0,75	1,1	1,1	1,5
PHASE	VOLTAGE	V.	-	-	400	400	400	400
MOTOR	FREQUENCY	Hz.	-	-	50/60	50 / 60	50 / 60	50 / 60
	POWER	kW	0,37	0,37	0,75	1,1	1,1	1,5
SINGLE- PHASE	VOLTAGE	V.	230 / 110	230 / 110	230 / 110	230 / 110	230 / 110	230 / 110
MOTOR	FREQUENCY	Hz.	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
	HEIGHT	mm.	670	670	800	900	940	940
	WIDTH	mm.	380	380	430	480	540	540
PACKAGING	DEPTH	mm.	650	650	745	765	825	825
	GROSS WEIGHT	kg.	35	36	72	95	106	108
	VOLUME	mc.	0,16	0,16	0,25	0,32	0,41	0,41

Inverter:

			20	30	40	50	60
BODY	HEIGHT	mm.	725	805	825	825	915
	WIDTH	mm.	385	424	480	480	535
	DEPTH	mm.	670	735	805	805	935
	NET WEIGHT	kg.	65	86.6	95.4	97.4	145
BOWL	DIAMETER	mm.	360	400	450	450	500
	HEIGHT	mm.	210	260	260	300	350
	PRODUCTION CAPACITY	kg.	17	25	35	42	48
	PRODUCTION CAPACITY	L.	22	32	41	48	60
Three- phase motor	POWER	kW	0.75	1.1	1.1	1.5	1.5-2,2
	VOLTAGE	V.	230	230	230	230	230
	FREQUENCY	Hz.	50/60	50/60	50/60	50/60	50/60
PACKAGING	HEIGHT	mm.	800	900	940	940	970
	WIDTH	mm.	430	480	540	540	615
	DEPTH	mm.	745	765	825	825	1035
	GROSS WEIGHT	kg.	72	95	106	108	152
	VOLUME	m ³	0.25	0.32	0.41	0.41	0.62