

robot *coupe*®



Mini MP 160 V.V.

Mini MP 190 V.V.

Mini MP 240 V.V.

Mini MP 190 Combi

Mini MP 240 Combi

DECLARATION OF CONFORMITY

Declares that the machines identified by their type above, comply with:

- The essential requirements of the following European directives and with the corresponding national regulations:

- Directive «Machinery» 2006/42/EC,
- Directive «Low voltage» 2014/35/EU,
- Directive «Electromagnetic compatibility» 2014/30/EU,
- Regulation (EC) n°1935/2004 «Materials and articles intended to come into contact with food»,
- Regulation (EU) n°10/2011 «Plastic materials and articles intended to come into contact with food»,
- Directive «Reduction of Hazardous Substances (RoHS) 2002/95/EC,
- Directive «WEEE» 2012/19/EU,

- The requirements of the European harmonized standards and with the standards specifying the hygiene and safety requirements:

- EN ISO 12100: 2010: Safety of machinery – General principles for design,
- EN 60204-1 -2006: Safety of machinery – Electrical equipment of machines,
- EN 12852: Food Processors and Blenders,
- EN 1678-1998: Vegetable Cutting Machines,
- EN 454 + A1 2010-02: Blender-Mixers,
- EN 12853: Hand-held Blenders and Whisks (stick blenders),
- EN 14655: Bread Slicers,
- EN 13208: Vegetable Preparation Machines,
- EN 13621: Salad Spinners,
- EN 60529-2000: Degrees of protection,
 - IP 55 for the electrical controls,
 - IP 34 for the machines.

Montceau en Bourgogne on 4 March 2016

Alain NODET
Industrial Director



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ROBOT-COUCPE S.N.C., LIMITED WARRANTY

Your new ROBOT-COUCPE appliance is warranted to the original buyer for a period of one year from the date of sale if you bought it from ROBOT-COUCPE S.N.C.

If you bought your ROBOT-COUCPE product from a distributor your product is covered by your distributor's warranty (Please check with your distributor terms and conditions of the warranty).

The ROBOT-COUCPE S.N.C. limited warranty is against defects in material and/or workmanship.

THE FOLLOWING ARE NOT COVERED BY THE ROBOT-COUCPE S.N.C. WARRANTY:

1 - Damage caused by abuse, misuse, dropping, or other similar damage caused by or resulting from failure to follow assembly, operating, cleaning, user maintenance or storage instructions.

2 - Labour to sharpen and/ or replacements for blades which have become blunt, chipped or worn after a normal or excessive period of use.

3 - Materials or labour to replace or repair scratched, stained, chipped, pitted, dented or discoloured surfaces, blades, knives, attachments or accessories.

4 - Any alteration, addition or repair that has not been carried out by the company or an approved service agency.

5 - Transportation of the appliance to or from an approved service agency.

6 - Labour charges to install or test new attachments or accessories (i.e., bowls, discs, blades, attachments) which have been arbitrarily replaced.

7 - The cost of changing direction-of-rotation of electric motors (Installer is responsible).

8 - SHIPPING DAMAGES. Visible and latent defects are the responsibility of the freight carrier. The consignee must inform the carrier and consignor immediately, or upon discovery in the case of latent defects.

KEEP ALL ORIGINAL CONTAINERS AND PACKING MATERIALS FOR CARRIER INSPECTION.

Neither ROBOT-COUCPE S.N.C. nor its affiliated companies or any of its distributors, directors, agents, employees, or insurers will be liable for indirect damage, losses, or expenses linked to the appliance or the inability to use it.

The ROBOT-COUCPE S.N.C. warranty is given expressly and in lieu of all other warranties, expressed or implied, for merchantability and for fitness toward a particular purpose and constitutes the only warranty made by ROBOT-COUCPE S.N.C. France.

IMPORTANT WARNING



WARNING: In order to limit accidents such as electric shocks or personal injury, and in order to limit material damage due to misuse of the appliance, please read these instructions carefully and follow them strictly. Reading the operating instructions will help you get to know your appliance and enable you to use the equipment correctly. Please read these instructions in their entirety and make sure that anyone else who may use the appliance also reads them beforehand.

UNPACKING

- **WARNING** - some of the tools are very sharp e.g. blades, etc..

INSTALLATION

- We recommend that you install your appliance on its wall frame.

CONNECTION

- Always check that your mains supply corresponds to that indicated on the identification plate on the motor unit and that it can withstand the amperage.
- Never plug your appliance into the mains supply before placing it inside the preparation bowl.

HANDLING

- Always take care when handling the blades, as they are extremely sharp.

ASSEMBLY PROCEDURES

- Follow the various assembly procedures carefully (see page 19) and make sure that all the attachments are correctly positioned.

USE

- Never try to override the safety systems.
- Never insert an object into the preparation.
- Never switch the appliance on unless it has been placed in the preparation bowl.
- Before dismantling the foot, bell or whisk always check that the power mixer is unplugged.
- We recommend that you tilt the appliance at a slight angle to prevent the bell from touching the bottom of the container.

WARNING

Procedure to follow if the stick blender is accidentally immersed during use.

- 1) Do not touch either the power mixer, the bowl or the work surface.**
- 2) Unplug the mixer's power cord from the wall socket.**
- 3) Remove the power mixer from the preparation.**
- 4) Tilt the power mixer to drain off as much liquid as possible.**
- 5) Do not switch the power mixer back on, as there is still a risk of electrocution.**
- 6) Send the power mixer to a Robot-Coupe approved after-sales service to have the electrical components cleaned and dried.**

CLEANING

- As a precaution, always unplug your appliance before cleaning it.
- Always clean the appliance and its attachments at the end of each cycle.
- Never immerse the motor unit in water.
- For parts made from aluminum, use cleaning fluids intended for aluminum.
- For plastic parts, do not use detergents that are too alkaline (e.g., containing too much caustic soda or ammonia).
- Robot-Coupe can in no way be held responsible for the user's failure to follow the basic rules of cleaning and hygiene.

MAINTENANCE

- Before opening the motor housing, it is absolutely vital to unplug the appliance.
- Check the seals and washers regularly and ensure that the safety devices are in good working order.
- It is particularly important to maintain and check the attachments since certain ingredients contain corrosive agents, e.g. citric acid.
- Never operate the appliance if the power cord or plug has been damaged or if the appliance fails to work properly or has been damaged in any way.
- Do not hesitate to contact your local Maintenance Service if something appears to be wrong.

YOU HAVE JUST PURCHASED A MINI POWER MIXER

The new **Mini MP 160 V.V.**, **Mini MP 190 V.V.**, **Mini MP 240 V.V.**, **Mini MP 190 Combi** and **Mini MP 240 Combi** models are the latest additions to Robot-Coupe's range of power mixer. They have been specially designed for processing smaller quantities. They are fitted with a foot, blades and an emulsifying disc which can be entirely dismantled, and their tubes measure 160, 190 and 240 mm long respectively.

Models	Speed variation	Mixer attachment	Whisk attachment
Mini MP 160 V.V.	●	160 mm	
Mini MP 190 V.V.	●	190 mm	
Mini MP 240 V.V.	●	240 mm	
Mini MP 190 Combi	●	190 mm	185 mm
Mini MP 240 Combi	●	240 mm	185 mm

These power mixer are tools which are totally adapted to the needs of professionals. They will enable you to make soups, vegetables purées and cereal preparations without any effort.

The **whisk function** is ideal for making pancake batter, mayonnaise, beaten egg whites, chocolate mousse, butter sauces, whipped cream or smooth fromage frais.

The whisk is composed with a **metallic gear box** even more resistant when processing pan cakes or mashed potatoes.

The **variable-speed function** will enable you to adjust the speed to suit each preparation and to start the processing at a lower speed in order to reduce splashing.

Each power mixer is supplied with a **wall support** for easy storage.

The simple design of these appliances allows the assembly and dismantling of the moving parts in no time at all, to ease maintenance and cleaning.

These instructions contain important information that will enable you to extract the greatest return on your investment.

We therefore strongly advise you to read these instructions carefully before using the appliance.

SWITCHING ON THE APPLIANCE

• ADVICE ON ELECTRICAL CONNECTIONS

This class II appliance (double insulation) requires a single-phase alternating current but does not need an earthed socket. The universal-type motor is fitted with an interference suppressor.

The power supply must be protected by a differential circuit breaker and a 10 A fuse.

Check that you have a standard 10/16 A single-phase socket.

Make sure that the voltage of your power supply matches that shown on the identification plate of your appliance.

Robot-Coupe supplies these models with different types of motors:

230 V / 50 Hz for power supplies of:

220 V to 240 V.

120 V / 60 Hz

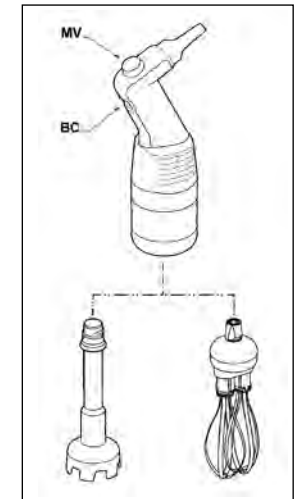
220 V / 60 Hz

The power mixer is supplied with a single-phase plug connected to a power cord.

OPERATING THE APPLIANCE

• STARTING AND STOPPING

1. Plug your appliance into the mains, making sure you do not press the button (BC).
2. Insert the foot into the preparation.
3. Press the control button (BC), and the power mixer will start up.
4. To stop the power mixer, release the control button (BC).



• VARIABLE-SPEED OPERATION

Follow steps 1 to 4 above, then:

5. Change the speed of the motor by turning the variable speed button (MV) towards the maximum or minimum as required.

Whisk function (Mini MP 190 Combi, Mini MP 240 Combi): speed between **350** and **1,560** rpm.

For making mashed potatoes, you need to process at low speed for a good quality result.

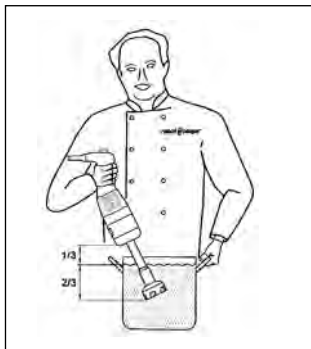
Mixer function (Mini MP 160 V.V., Mini MP 190 V.V., Mini MP 240 V.V., Mini MP 190 Combi, Mini MP 240 Combi): speed between **2,000** and **12,500** rpm.

It is advisable to start at a low speed when using the whisk.

With the self-regulating speed system, once you have selected a speed, it will remain constant, even if the consistency of your mixture changes.

WORKING POSITION

For a more ergonomic approach, we recommend that you hold the handle of the appliance in one hand and the container in the other. It is a good idea to lean forward slightly, making sure that the bell does not touch the bottom of the container.



Always make sure that the bell is sufficiently immersed to avoid splashing and that the air vents of the motor unit does not come into contact with any liquid.

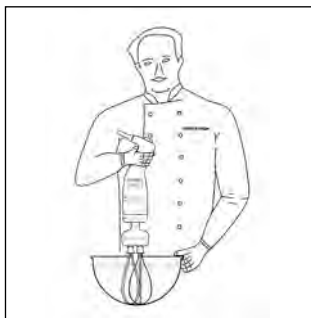
For optimum efficiency, two thirds of the foot should be immersed in the preparation.

• WHISK FUNCTION

You can also hold the appliance by the handle with one hand, leaving the other hand free to hold the bowl, if necessary.



While you process the preparation, we recommend that you move the whisks around in the bowl, in order to ensure that the mixture is completely homogeneous.



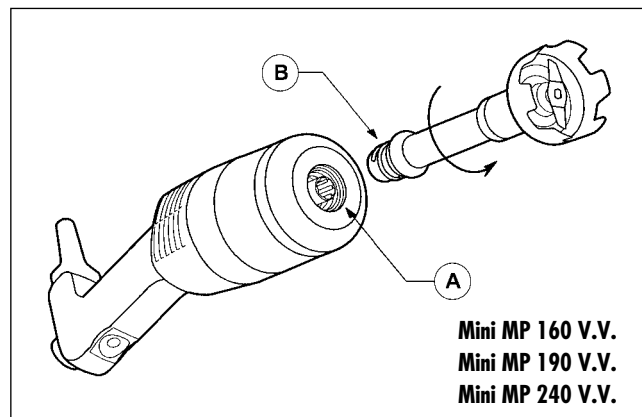
We strongly advise you to keep the whisks from touching the sides of the bowl. For maximum efficiency, at least one-fifth of the whisk length should be immersed. We also strongly advise you to start the processing at a low speed.

ASSEMBLING & DISMANTLING

• BLADE FUNCTION

Attaching the tube to the motor unit.

- Check that the appliance is not plugged in.
- Insert the threaded section **A** right into the housing **B** of the motor unit.
- Turn the tube in the direction of the arrow (see figure) until it is locked into place moderately tightly.

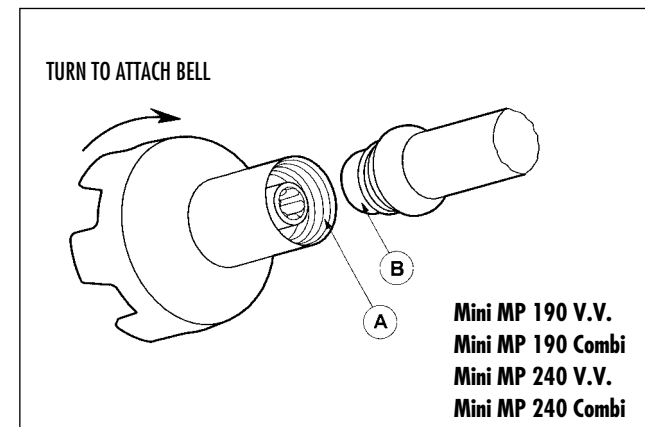


Removing the tube from the motor unit

- Check that the appliance is unplugged.
- Turn the tube in the opposite direction to when you assembled it until it is completely unscrewed.

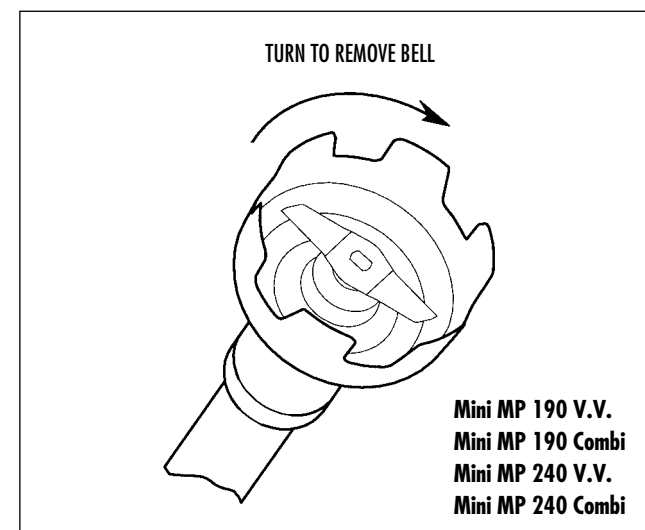
Attaching the bell to the tube

- Check that the machine is not plugged in.
- Insert the threaded section **A** into the housing **B** of the bell. Turn the bell in the direction of the arrow (see drawing) until it starts to tighten.



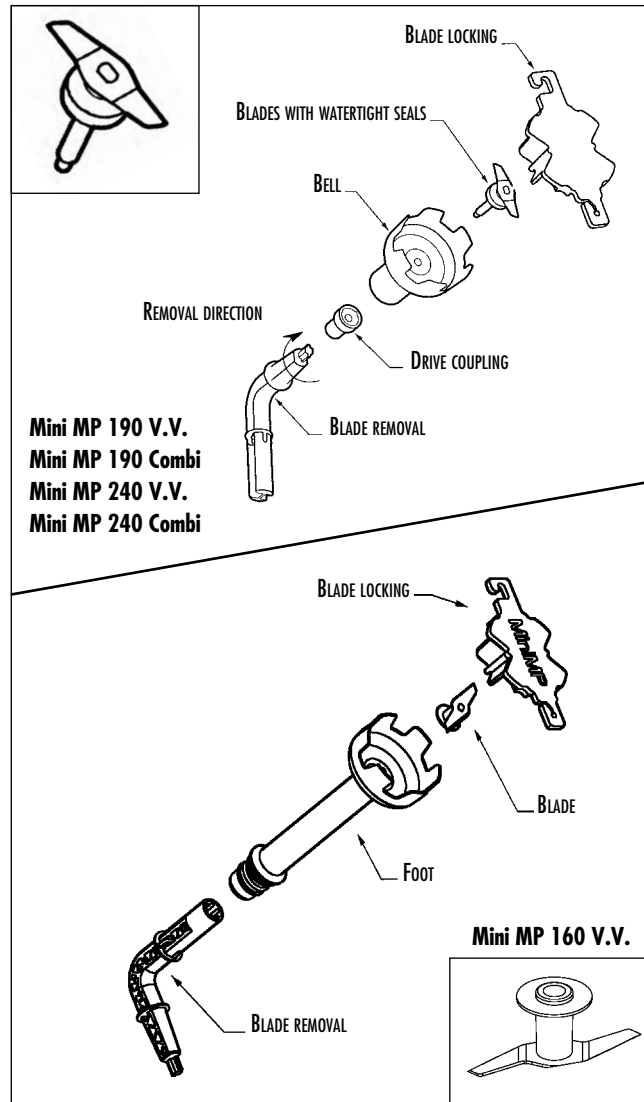
Removing the bell from the foot

- Check that the machine is not plugged in.
- Turn the bell in the direction of the arrow (see drawing) to detach it from the tube.



Removing the blade

- To remove the blade safely, hold them with the tool provided or an oven glove or a thick cloth.
- Using the removal tool, unscrew the drive coupling.
- As soon as the drive coupling has been unscrewed, the blade can be removed for cleaning.

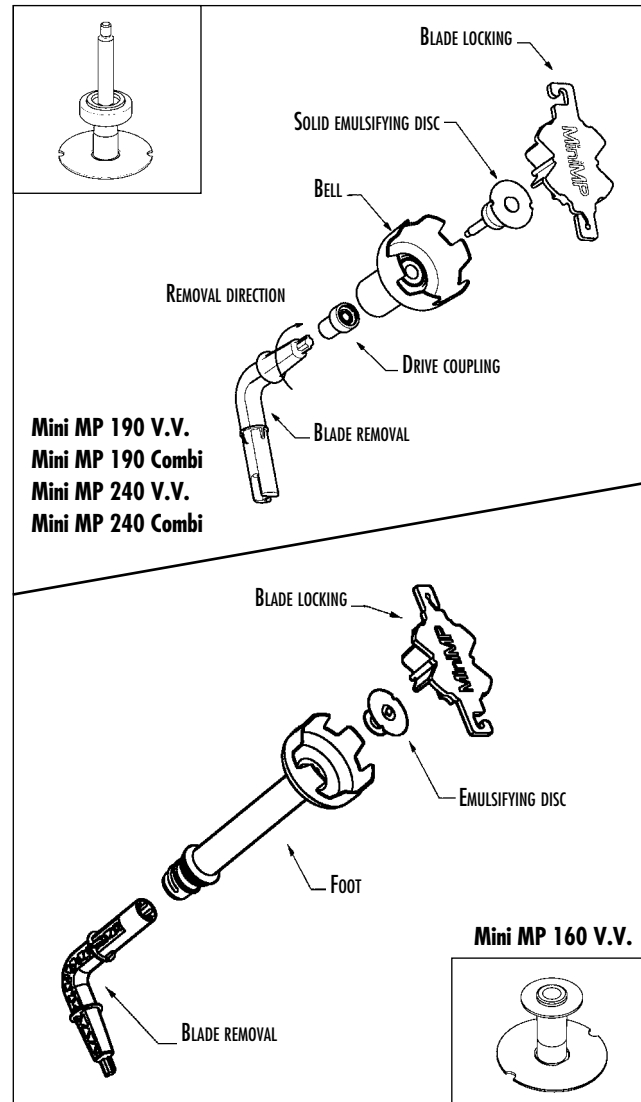


Installing the emulsifying disc

- In order to install it safely, introduce the disc into the bell, then hold it in place using the locking tool.
- Next, turn the drive coupling with this tool until it starts to tighten.

Removing the emulsifying disc

- The disc can be removed in exactly the same way as the blades.

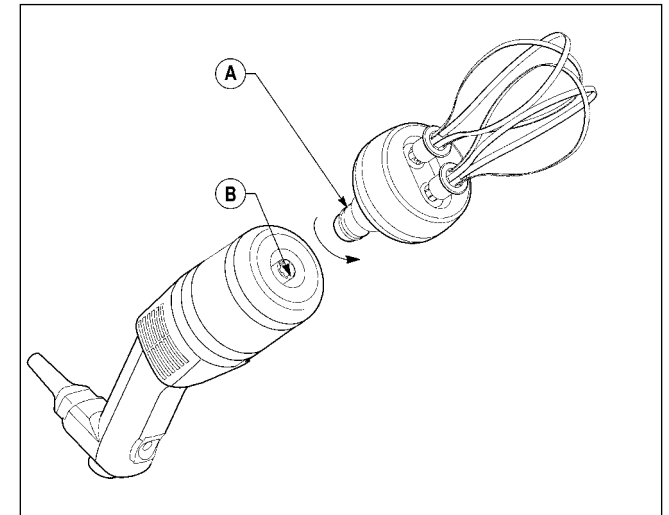


• WHISK FUNCTION

(Mini MP 190 Combi and Mini MP 240 Combi)

Attaching the gear box to the motor unit.

- Check that the machine is not plugged in.
- Align the flat side **A** of the conical part of the gear box with the catch **B** on the inside of the aluminium casing.
- Turn the gear box in the direction of the arrow (see figure) until it is locked into place moderately tightly.



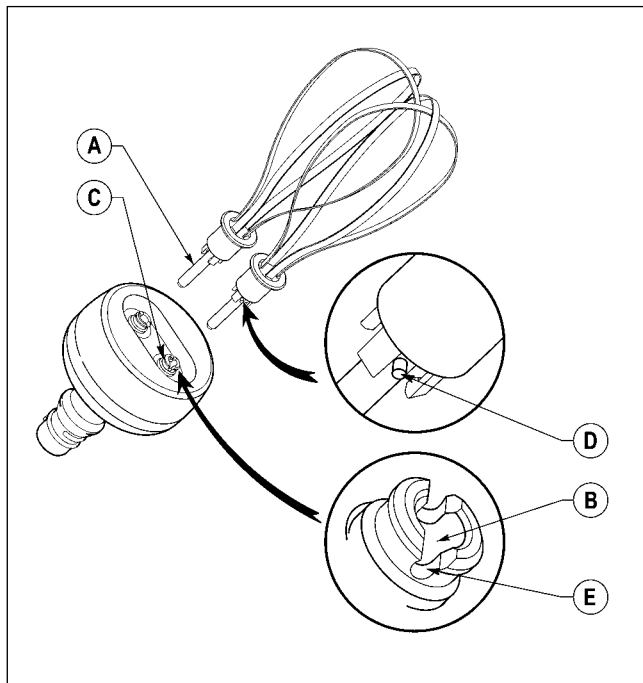
Removing the casing

- Check that the machine is not plugged in.
- Turn the gear box in the opposite direction to that used when attaching it.

Fitting the whisks into the gear box

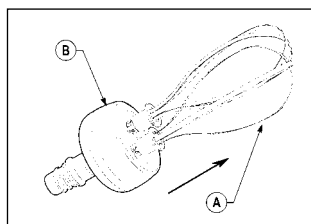
- Grasp the holder in one hand.
- With the other hand, take the first whisk and insert the shaft **A** into the bore **B** of the gear box drive shaft. Make sure the drive lugs **C** are properly aligned with the notches.

- As you push the whisk into the gear box drive shaft © , rotate it slightly in order to slot the drive lugs into the notches ⑤ of the drive shaft © , thereby locking the whisk into place inside the shaft.
- To check that the whisk is properly fixed inside the shaft © , gently tug the metal wires.
- Repeat this procedure with the second whisk. If you cannot push it in properly, remove it, rotate it 90° and start again.



Removing the whisks from the gear box

Pull the ejector ① in direction to the arrow, gripping the ejector in one hand and the holder ② in the other.



The foot, the blades, Emulsifying disc and the whisks can be entirely dismantled, (Robot-Coupe's exclusive patented system), thereby ensuring easy cleaning, perfect hygiene and simple maintenance.

USES & EXAMPLES

The mixer function carries out all types of mixing in small quantities in a minimum of time, and we thus recommend you to supervise carefully all food preparations in order to obtain the best results.

CATERING AND RESTAURANT WORK

- Soups, creamed soups
- Vegetable purees : carrots, spinach, celery, turnips, French beans, potatoes etc.
- Mousses : vegetable, fish
- Fruit compotes
- Sauces : green, rouille, remoulade, cream emulsions, tomato or parsley
- Bisques : langoustines and shellfish
- Pancake batter
- Chocolate mousse, butter cream, Whipped cream
- Cheese soufflé

HYGIENE

The equipment must be clean at all stages of production.

It is vital to clean the power mixer thoroughly between each job using a detergent or disinfectant.

• N.B. NEVER USE PURE BLEACH

- Dilute the detergent/disinfectant following the manufacturer's instructions on the label.
- Scrub well if necessary.
- Leave the disinfectant/detergent to take effect if necessary.
- Rinse thoroughly.
- Dry properly using a clean cloth.

CLEANING



WARNING

As a precaution, always unplug your appliance before cleaning it (risk of electrocution).

After using the power mixer in a hot preparation, cool the bottom of the foot in cold water before dismantling the bell from the foot.

After completion of preparation, clean immediately to prevent food from sticking to surfaces.

• MOTOR UNIT

Never put the motor unit and its handle in water, clean them with a damp cloth or a sponge.

• FOOT AND BELL

It is possible to proceed in two ways:

• Simple cleaning procedure

- Place the foot and bell into a suitable container with water and switch on for a few seconds to clean the bell and the foot.
- After unplugging the appliance - essential -, making sure that no water finds its way into the foot.

- Detach the bell from the foot to avoid a build-up of condensation (Mini MP 190 V.V., Mini MP 240 V.V., Mini MP 190 Combi and Mini MP 240 Combi).

- **Complete cleaning procedure**

- Unplug the power mixer.
- Rinse the bell under the tap.
- Remove the bell from the foot, then remove the blades. Be careful to avoid damaging the surface of the blade shaft and the watertight seals. Do not use too strong a detergent when cleaning the parts.
- Ensure that all the different parts are thoroughly dried before reassembly.

- **BLADE AND EMULSIFYING DISC**

In order to clean the appliance thoroughly, the blades and the disc must be removed from the bell beforehand.

After they have been cleaned, **make sure you always dry the disc or blades properly** to avoid oxidation.

- **WHISK**

The whisks can be cleaned either by hand or in a dishwasher.

Never immerse the gear box in water.

Never put in the dishwasher the gear box.

Clean it with a slightly damp cloth or sponge.

! IMPORTANT

Check that your detergent is suitable for cleaning plastic parts. Some washing agents are too alkaline (e.g. high levels of caustic soda or ammonia) and totally incompatible with certain types of plastic, causing them to deteriorate rapidly.

MAINTENANCE

- **BLADE**

The performance of the cut essentially depends on the state of your blades and their wear. The blades are subject to wear and as such need to be replaced from time to time to ensure the consistent quality of the end product.

You are also advised to change, at the same time, the washer and the watertight seals.

- **WHISK**

The success of your preparation will depend essentially on the state of the metal wires and their amount of wear and tear. They should therefore be replaced from time to time in order to ensure optimum quality of the finished product.

- **FOOT SEAL**

In order to maintain a perfect watertight seal between the foot and the bell it is necessary to check the wear of the seal regularly and replace it if necessary.

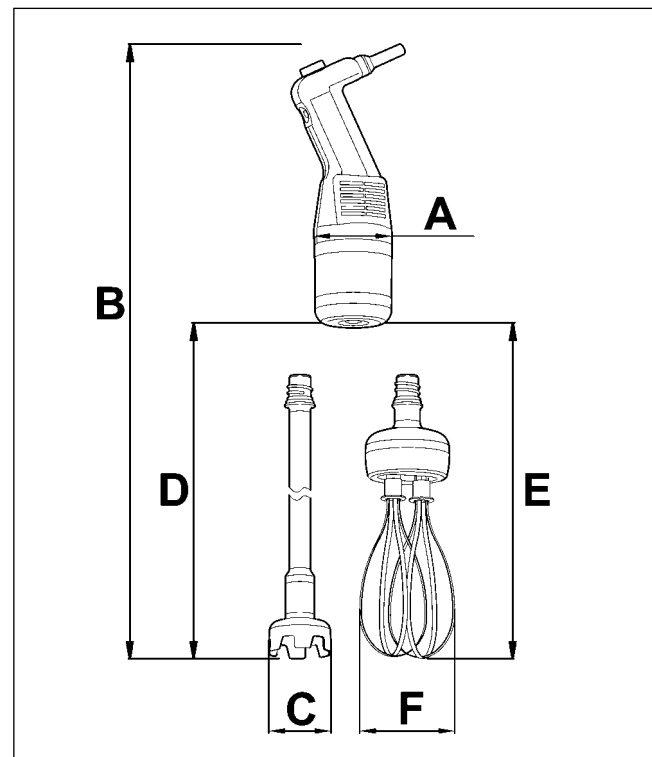
! WARNING

From time to time, check:

- The state of the buttons' watertight membranes. Even the tiniest cracks will allow liquid to seep in.
- The state of the blender housing. This, should not show any signs of cracking or any abnormal openings which could allow access to the live components.

TECHNICAL SPECIFICATIONS

- **WEIGHT AND DIMENSIONS (in mm)**



Models	Dimensions (mm)						Weight (Kg)	
	A	B	C	D	E	F	Net	Gross
Mini MP 160 V.V.	78	430	65	160			1.41	1.94
Mini MP 190 V.V.	78	470	65	190			1.44	1.97
Mini MP 240 V.V.	78	520	65	240			1.47	2.00
Mini MP 190 Combi	78	470	65	190	255	100	1.95	2.68
Mini MP 240 Combi	78	520	65	240	255	100	1.98	2.70

• WORKING HEIGHT

We recommend that you ensure that the container is placed on a stable and solid work surface.

• NOISE LEVEL

The equivalent continuous sound level when the foot is not immersed in anything is less than 70 dB (A).

• ELECTRICAL DATA

Single-phase machine Mini MP 160 V.V.

Motor	Mixer Speed (rpm)	Intensity (amp.)
230 V/50 Hz	2,000 to 12,500	1.1
120 V/60 Hz	2,000 to 12,500	1.9
220 V/60 Hz	2,000 to 12,500	1.0

Single-phase machine Mini MP 190 V.V.

Motor	Mixer Speed (rpm)	Intensity (amp.)
230 V/50 Hz	2,000 to 12,500	1.3
120 V/60 Hz	2,000 to 12,500	2.4
220 V/60 Hz	2,000 to 12,500	1.2

Single-phase machine Mini MP 240 V.V.

Motor	Mixer Speed (rpm)	Intensity (amp.)
230 V/50 Hz	2,000 to 12,500	1.5
120 V/60 Hz	2,000 to 12,500	2.6
220 V/60 Hz	2,000 to 12,500	1.4

Single-phase machine Mini MP 190 Combi

Motor	Mixer Speed (rpm)	Whisk Speed (rpm)	Intensity (amp.)
230 V/50 Hz	2,000 to 12,500	350 to 1,560	1.3
120 V/60 Hz	2,000 to 12,500	350 to 1,560	2.4
220 V/60 Hz	2,000 to 12,500	350 to 1,560	1.2

Single-phase machine Mini MP 240 Combi

Motor	Mixer Speed (rpm)	Whisk Speed (rpm)	Intensity (amp.)
230 V/50 Hz	2,000 to 12,500	350 to 1,560	1.5
120 V/60 Hz	2,000 to 12,500	350 to 1,560	2.6
220 V/60 Hz	2,000 to 12,500	350 to 1,560	1.4

- Power shown on data plate.

SAFETY

 WARNING
The blades are extremely sharp. Handle with care.

ROBOT-COUPE power mixers are equipped with a safety system comprising of a :

- safety control button,


- safeties on motor: thermal and overload protection.

• Safety control button

This safety mechanism prevents any unintentional starting of the power mixer. In fact, it is necessary to press down two buttons to start the power mixer. In order to start the machine, read the paragraph entitled OPERATING THE APPLIANCE (page 18).

• Thermal and overload protection

If there is an obstruction in the container (a spoon or utensil) or the machine is exposed to over use/overload, the thermal safety mechanism automatically stop the motor. In this case, wait for the power mixer to cool down completely before restarting, see paragraph entitled OPERATING THE APPLIANCE (page 18).

 REMINDER
<p>Never try to override the locking and safety mechanisms.</p> <p>Never insert an object into the preparation.</p> <p>Never switch the appliance on unless it has been placed in the preparation bowl.</p> <p>Before dismantling the foot, bell or whisk, always check that the power mixer is unplugged.</p> <p>We recommend that you tilt the power mixer at a slight angle to prevent the bell from touching the bottom of the container.</p>

PROBLEMS

At first, try to identify precisely what has caused the power mixer to stop.

- **If it is due to a powercut if the appliance has been unplugged.**

- Release the control button (BC).
- Check the power supply.
- Restart the power mixer following the paragraph entitled OPERATING THE APPLIANCE (page 18).

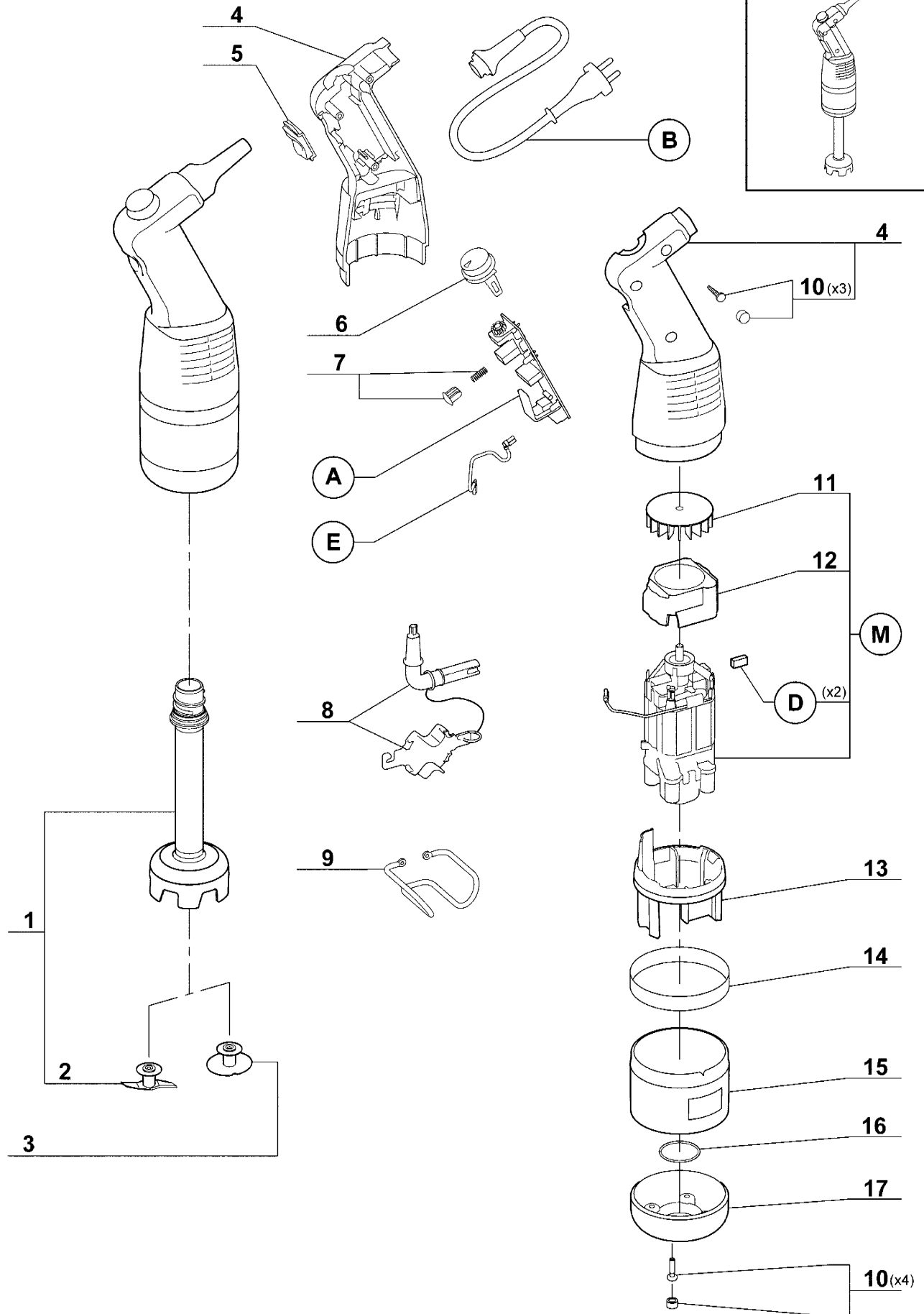
- **If you cannot locate the cause of the problem**

- Release the control button (BC).
- Unplug the power mixer.
- Check :
 - the plug,
 - that the blades are free to rotate in the bell,
 - the state of the power cord,
 - that the drive shaft is free to rotate. To do this, remove the bell and test the rotation of the end of the drive shaft manually.

If a malfunction occurs which is not on our list of possible faults, consult your retailer or return the appliance to the after-sales service.

STANDARDS

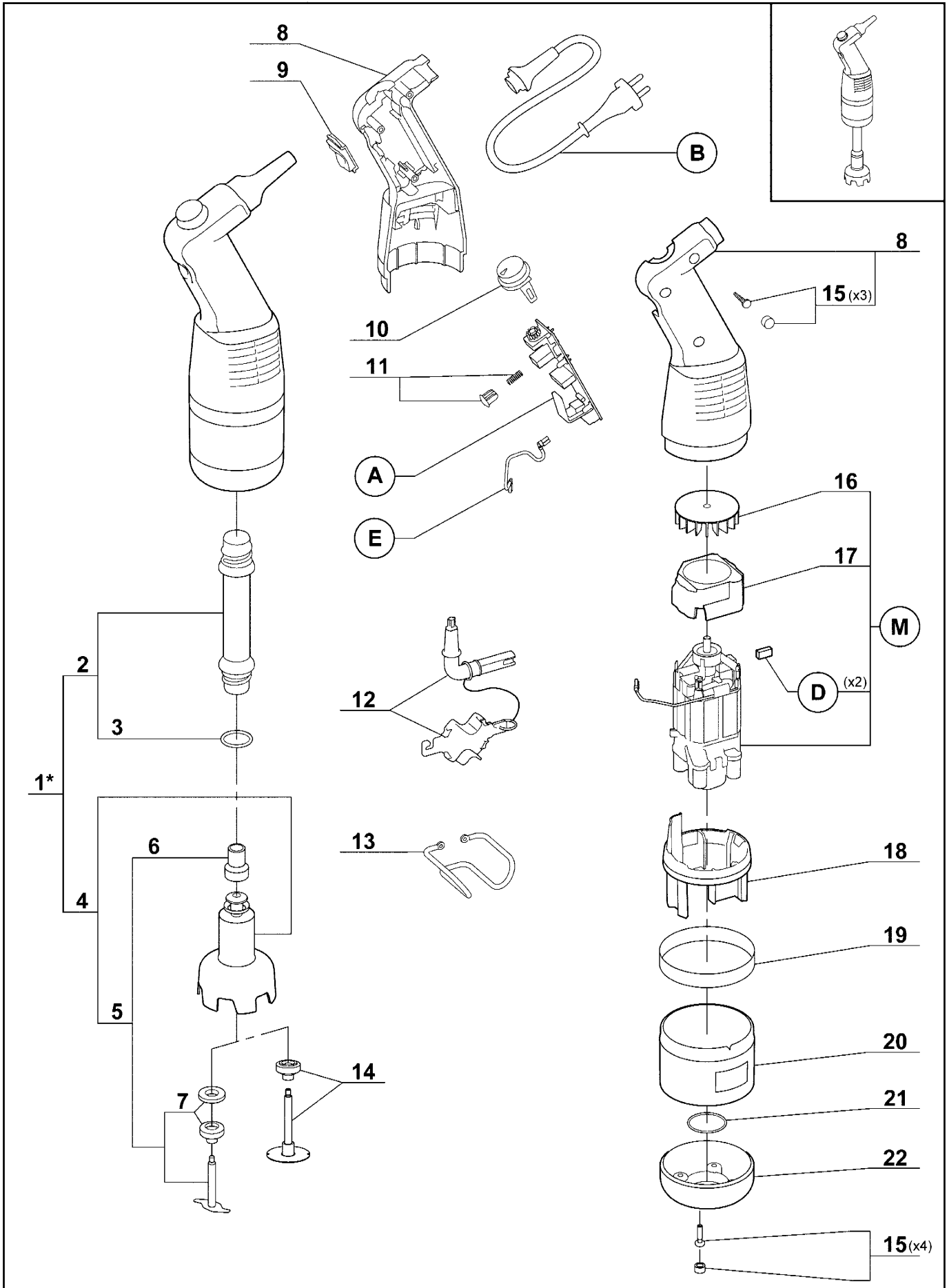
Consult the declaration of compliance on page 2.



Index	Pièce / Part	Désignation	Description
1	89 101	PIED MMP 160 COMPLET	MMP 160 FOOT COMPLET
2	89 102	COUTEAU MMP 160	MMP 160 BLADE
3	89 103	DISQUE EMULSIONNEUR MMP 160	MMP 160 EMULSION DISC
4	89 551	POIGNEES (G+D)+VIS+CACHES MMP	MMP HANDLES (L+R)+SCREW+CAP SCREW
5	89 056	ETANCHEITE BOUTON MMP-VIS-CACHES VIS	MMP CAP KNOB- SCREW+CAP SCREW
6	89 059	BOUTON VARIATEUR MMP- VIS-CACHES VIS	MMP VARIATOR SWITCH- SCREW+CAP SCREW
7	89 550	KIT BOUTON- RESSORT- VIS-CACHES VIS	KNOB- SPRING- SCREW+CAP SCREW KIT
8	89 058	OUTIL DEMONTAGE MMP	MMP DISMOUNT TOOL
9	89 614	SUPPORT MURAL MMP	MMP WALL SUPPORT
10	89 568	KIT CACHES VIS – VIS MMP (X3+X4)	MMP SCREW- SCREW+CAP SCREW KIT (X3+X4)
11	89 067	VENTILATEUR MMP - VIS-CACHES VIS	MMP VENTILATOR- SCREW+CAP SCREW
12	89 066	CONDUIT VENTILATEUR MMP - VIS-CACHES VIS	MMP VENTILATOR PIPE- SCREW+CAP SCREW
13	89 065	BAGUE MOTEUR MMP - VIS-CACHES VIS	MMP MOTOR RING- SCREW+CAP SCREW
14	89 100	VIROLE MMP 160 V.V.- VIS-CACHES VIS	MMP FERRULE 160 V.V.- SCREW+CAP SCREW
15	89 070	VIROLE MOTEUR MMP- VIS-CACHES VIS	MMP MOTOR FERRULE- SCREW+CAP SCREW
16	89 158	JOINT MOTEUR MMP -CACHES VIS	MMP MOTOR O RING - SCREW+CAP SCREW
17	89 159	CARTER MOTEUR MMP - VIS-CACHES VIS	MMP MOTOR CASING - SCREW+CAP SCREW

Index	Désignation	Description
A	PLATINE	CIRCUIT BOARD
B	CABLE D'ALIMENTATION	POWER CORD
D	CHARBONS (X2)	BRUSHES (X2)
E	FILS	ELECTRICAL WIRING
M	MOTEUR	MOTOR

Machine	Voltage	A	B	D	E	M
34 694 BRA	220/60/1	89 169	89 116	89 173	89 171	89 175
34 698 Arabie			89 165			
34 694			89 163			
34 690	230/50/1	89 168	89 164			
34 696 Suisse			89 165			
34 691 UK			89 166			
34 692 Aust	240/50/1		89 167			
34 695	120/60/1	89 170	89 167			89 176
34 699 Japon			89 524			

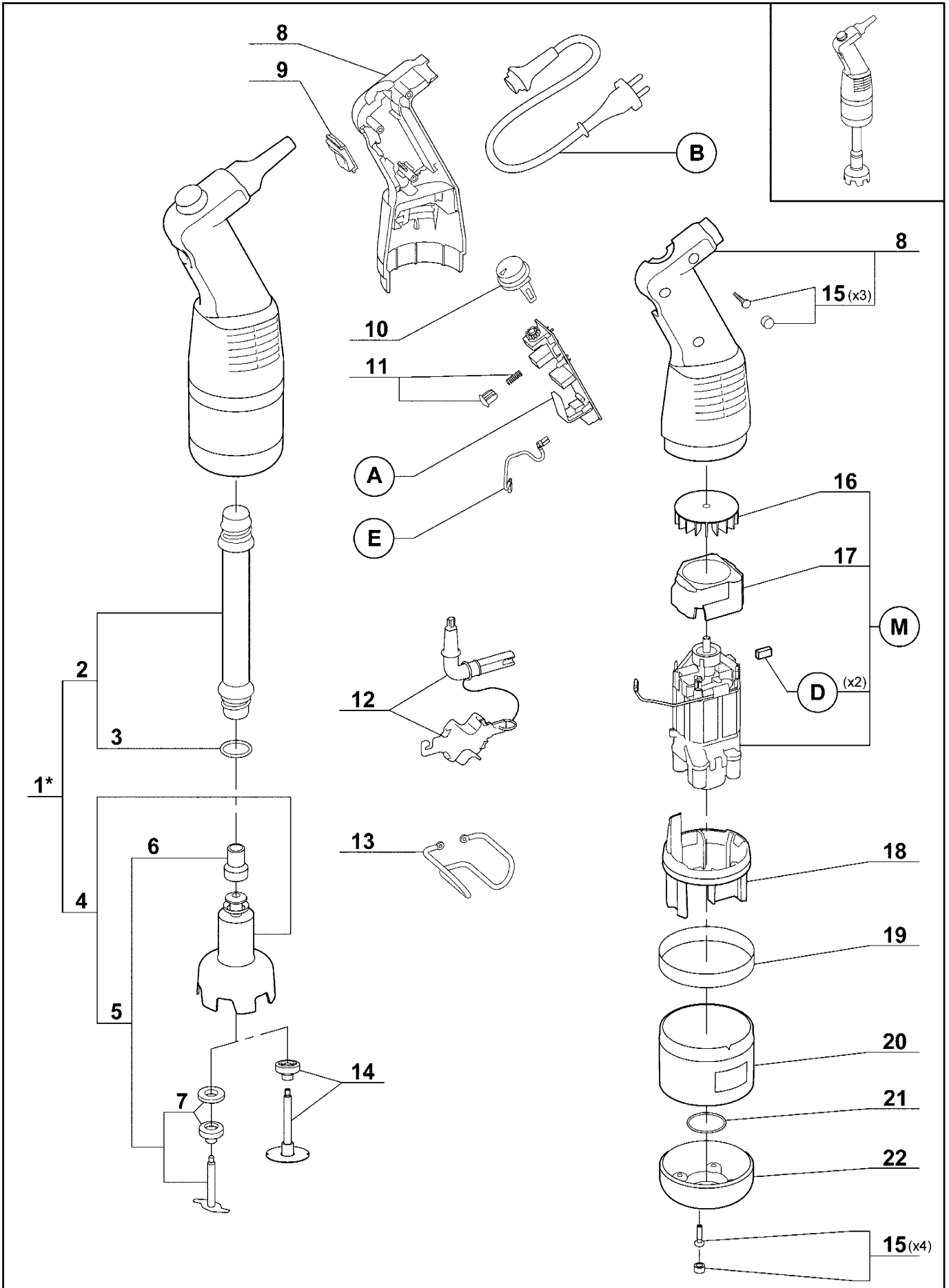


* Voir tarif machines / See export price list

Index	Pièce / Part	Désignation	Description
1	27 361	PIED MMP 190 COMPLET	MMP 190 FOOT COMPLET
2	89 096	PIED MMP 190 EQUIPE	MMP 190 FOOT
3	89 616	JOINT TORIQUE Ø 21,6 X 2,4	SEAL Ø 21,6 X 2,4
4	89 053	CLOCHE MMP EQUIPE	MMP BELL COVER
5	89 054	COUTEAU MMP	MMP BLADE
6	89 617	CAGE D'ENTRAINEMENT MMP	MMP DRIVING FRAME
7	89 618	GARNITURE D'ETANCHEITE MMP	MMP SEAL RING
8	89 551	POIGNEES (G+D)+VIS+CACHES MMP	MMP HANDLES (L+R)+SCREW+CAP SCREW
9	89 056	ETANCHEITE BOUTON MMP-VIS-CACHES VIS	MMP CAP KNOB- SCREW+CAP SCREW
10	89 059	BOUTON VARIATEUR MMP- VIS-CACHES VIS	MMP VARIATOR SWITCH- SCREW+CAP SCREW
11	89 550	KIT BOUTON- RESSORT- VIS-CACHES VIS	KNOB- SPRING- SCREW+CAP SCREW KIT
12	89 058	OUTIL DEMONTAGE MMP	MMP DISMOUNT TOOL
13	89 614	SUPPORT MURAL MMP	MMP WALL SUPPORT
14	89 150	DISQUE EMULSION PLEIN	MMP EMULSION DISC
15	89 568	KITCACHES VIS – VIS MMP (X3+X4)	MMP SCREW- SCREW+CAP SCREW KIT (X3+X4)
16	89 067	VENTILATEUR MMP - VIS-CACHES VIS	MMP VENTILATOR- SCREW+CAP SCREW
17	89 066	CONDUIT VENTILATEUR MMP - VIS-CACHES VIS	MMP VENTILATOR PIPE- SCREW+CAP SCREW
18	89 065	BAGUE MOTEUR MMP - VIS-CACHES VIS	MMP MOTOR RING- SCREW+CAP SCREW
19	89 098	VIROLE MMP 190 V.V.- VIS-CACHES VIS	MMP FERRULE 190 V.V.- SCREW+CAP SCREW
20	89 070	VIROLE MOTEUR MMP- VIS-CACHES VIS	MMP MOTOR FERRULE- SCREW+CAP SCREW
21	89 158	JOINT MOTEUR MMP -CACHES VIS	MMP MOTOR O RING - SCREW+CAP SCREW
22	89 159	CARTER MOTEUR MMP - VIS-CACHES VIS	MMP MOTOR CASING - SCREW+CAP SCREW

Index	Désignation	Description
A	PLATINE	CIRCUIT BOARD
B	CABLE D'ALIMENTATION	POWER CORD
D	CHARBONS (X2)	BRUSHES (X2)
E	FILS	ELECTRICAL WIRING
M	MOTEUR	MOTOR

Machine	Voltage	A	B	D	E	M
34 704 BRA	220/60/1	89 169	89 116	89 173	89 171	89 133
34 708 Arabie			89 165			
34 704			89 163			
34 700	230/50/1	89 168	89 164			
34 706 Suisse			89 109			
34 700 ZAF			89 165			
34 701 UK			89 166			
34 702 Aust	240/50/1	89 170	89 167			
34 705			89 167			
34 709 Japon			89 524			
	120/60/1					89 134

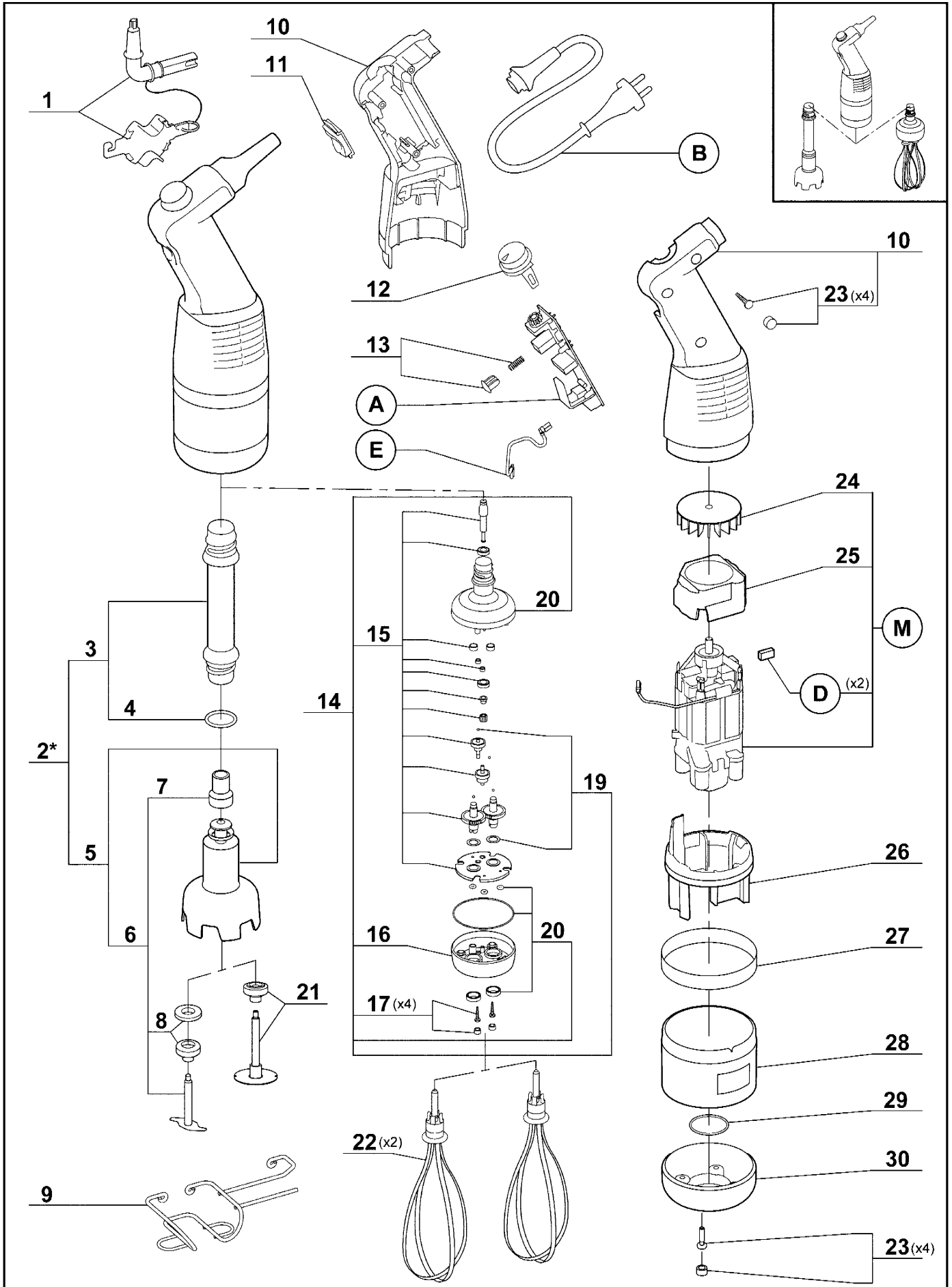


* Voir tarif machines / See export price list

Index	Pièce / Part	Désignation	Description
1	27 362	PIED MMP 240 COMPLET	MMP 240 FOOT COMPLET
2	89 097	PIED MMP 240 EQUIPE	MMP 240 FOOT
3	89 616	JOINT TORIQUE Ø 21,6 X 2,4	SEAL Ø 21,6 X 2,4
4	89 053	CLOCHE MMP EQUIPE	MMP BELL COVER
5	89 054	COUTEAU MMP	MMP BLADE
6	89 617	CAGE D'ENTRAINEMENT MMP	MMP DRIVING FRAME
7	89 618	GARNITURE D'ETANCHEITE MMP	MMP SEAL RING
8	89 551	POIGNEES (G+D)+VIS+CACHES MMP	MMP HANDLES (L+R)+SCREW+CAP SCREW
9	89 056	ETANCHEITE BOUTON MMP- VIS-CACHES VIS	MMP CAP KNOB- SCREW+CAP SCREW
10	89 059	BOUTON VARIATEUR MMP- VIS-CACHES VIS	MMP VARIATOR SWITCH- SCREW+CAP SCREW
11	89 550	KIT BOUTON- RESSORT- VIS-CACHES VIS	KNOB- SPRING- SCREW+CAP SCREW KIT
12	89 058	OUTIL DEMONTAGE MMP	MMP DISMOUNT TOOL
13	89 614	SUPPORT MURAL MMP	MMP WALL SUPPORT
14	89 150	DISQUE EMULSION PLEIN	MMP EMULSION DISC
15	89 568	KITCACHES VIS – VIS MMP (X3+X4)	MMP SCREW-CAP SCREW KIT (X3+X4)
16	89 067	VENTILATEUR MMP - VIS-CACHES VIS	MMP VENTILATOR- SCREW+CAP SCREW
17	89 066	CONDUIT VENTILATEUR MMP - VIS-CACHES VIS	MMP VENTILATOR PIPE- SCREW+CAP SCREW
18	89 065	BAGUE MOTEUR MMP - VIS-CACHES VIS	MMP MOTOR RING- SCREW+CAP SCREW
19	89 099	VIROLE MMP 240 V.V.- VIS-CACHES VIS	MMP FERRULE 240 V.V.- SCREW+CAP SCREW
20	89 070	VIROLE MOTEUR MMP- VIS-CACHES VIS	MMP MOTOR FERRULE- SCREW+CAP SCREW
21	89 158	JOINT MOTEUR MM- VIS-CACHES VIS	MMP MOTOR O RING - SCREW+CAP SCREW
22	89 159	CARTER MOTEUR MMP - VIS-CACHES VIS	MMP MOTOR CASING - SCREW+CAP SCREW

Index	Désignation	Description
A	PLATINE	CIRCUIT BOARD
B	CABLE D'ALIMENTATION	POWER CORD
D	CHARBONS (X2)	BRUSHES (X2)
E	FILS	ELECTRICAL WIRING
M	MOTEUR	MOTOR

Machine	Voltage	A	B	D	E	M
34 714 BRA	220/60/1	89 169	89 116	89 173	89 171	89 104
34 718 Arabie			89 165			
34 714			89 163			
34 710	230/50/1	89 168	89 164			
34 716 Suisse			89 165			
34 711 UK			89 166			
34 712 Aust	240/50/1	89 170	89 167			
34 715			89 167			
34 719 Japon			89 524			
	120/60/1					89 105



* Voir tarif machines / See export price list

Index	Pièce / Part	Désignation	Description
1	89 058	OUTIL DEMONTAGE MMP	MMP DISMOUNT TOOL
2	27 361	PIED MMP 190 COMPLET	MMP 190 FOOT COMPLET
3	89 096	PIED MMP 190 EQUIPE	Mini MP 190 FOOT
4	89 616	JOINT TORIQUE Ø 21,6 X 2,4	SEAL Ø 21,6 X 2,4
5	89 053	CLOCHE MMP EQUIPE	MMP BELL COVER
6	89 054	COUTEAU MMP	MMP BLADE
7	89 617	CAGE D'ENTRAINEMENT MMP	MMP DRIVING FRAME
8	89 618	GARNITURE D'ETANCHEITE MMP	MMP SEAL RING
9	39 521	SUPPORT MURAL MMPC	MMPC WALL SUPPORT
10	89 551	POIGNEES (G+D)+VIS+CACHES MMP	MMP HANDLES (L+R)+SCREW+CAP SCREW
11	89 056	ETANCHEITE BOUTON MMP- VIS+CACHES VIS	MMP CAP KNOB- SCREW+CAP SCREW
12	89 059	BOUTON VARIATEUR MMP- VIS+CACHES VIS	MMP VARIATOR SWITCH- SCREW+CAP SCREW
13	89 550	KIT BOUTON- RESSORT- VIS+CACHES VIS	KNOB- SPRING- SCREW+CAP SCREW KIT
14	39 507	BOITE FOUET MMP	MMP WHIP BOX
15	39 500	PIGNON BF MMP- VIS+CACHES VIS	BF MMP GEARS- SCREW+CAP SCREW
16	39 501	COQUE INF BF MMP- VIS+CACHES VIS	BF MMP LOWER BODY- SCREW+CAP SCREW
17	39 503	VIS-CACHES VIS BF MMP (X4)	BF MMP SREW - CAP SCREW (X4)
18	39 504	COQUE SUP BF MMP- VIS+CACHES VIS	BF MMP UPPER BODY- SCREW+CAP SCREW
19	39 505	BILLE RONDELLE BF MMP- VIS+CACHES VIS	MMP BALLS WASHERS- SCREW+CAP SCREW
20	39 506	JOINTS BF MMP- VIS+CACHES VIS	BF MMP SEALS- SCREW+CAP SCREW
21	89 150	DISQUE EMULSION PLEIN	MMP EMULSION DISC
22	39 502	FOUET MMP (X2)	MMP WHIP (x2)
23	89 568	KITCACHES VIS – VIS MMP (X3+X4)	MMP SCREW-CAP SCREW KIT (X3+X4)
24	89 067	VENTILATEUR MMP - VIS+CACHES VIS	MMP VENTILATOR- SCREW+CAP SCREW
25	89 066	CONDUIT VENTILATEUR MMP - VIS+CACHES VIS	MMP VENTILATOR PIPE- SCREW+CAP SCREW
26	89 065	BAGUE MOTEUR MMP - VIS+CACHES VIS	MMP MOTOR RING- SCREW+CAP SCREW
27	89 098	VIROLE MMP 190 V.V.- VIS+CACHES VIS	MMP 190 V.V. FERRULE- SCREW+CAP SCREW
28	89 070	VIROLE MOTEUR MMP- VIS+CACHES VIS	MMP MOTOR FERRULE- SCREW+CAP SCREW
29	89 158	JOINT MOTEUR MMP - VIS+CACHES VIS	MMP MOTOR O RING - SCREW+CAP SCREW
30	89 159	CARTER MOTEUR MMP - VIS+CACHES VIS	MMP MOTOR CASING - SCREW+CAP SCREW

Index	Désignation	Description
A	PLATINE	CIRCUIT BOARD
B	CABLE D'ALIMENTATION	POWER CORD
D	CHARBONS (x2)	BRUSHES (x2)
E	ENSEMBLE FILS	ELECTRICAL WIRING
M	MOTEUR	MOTOR

Machine	Voltage	A	B	D	E	M
34 724 BRA	220/60/1	89 169	89 116	89 173	89 171	89 133
34 728 Arabie			89 165			
34 724			89 163			
34 720	230/50/1	89 168	89 164			
34 726 Suisse			89 165			
34 721 UK			89 166			
34 722 Aust			89 167			
34 725	120/60/1	89 170	89 524			89 134
34 729 Japon						

Index	Pièce / Part	Désignation	Description
1	89 058	OUTIL DEMONTAGE MMP	MMP DISMOUNT TOOL
2	27 362	PIED MMP 240 COMPLET	MMP 240 FOOT COMPLET
3	89 097	PIED MMP 240 EQUIPE	MMP 240 FOOT
4	89 616	JOINT TORIQUE Ø 21,6 X 2,4	SEAL Ø 21,6 X 2,4
5	89 053	CLOCHE MMP EQUIPE	MMP BELL COVER
6	89 054	COUTEAU MMP	MMP BLADE
7	89 617	CAGE D'ENTRAINEMENT MMP	MMP DRIVING FRAME
8	89 618	GARNITURE D'ETANCHEITE MMP	MMP SEAL RING
9	39 521	SUPPORT MURAL MMPC	MMPC WALL SUPPORT
10	89 551	POIGNEES (G+D)+VIS+CACHES MMP	MMP HANDLES (L+R)+SCREW+CAP SCREW
11	89 056	ETANCHEITE BOUTON MMP- VIS+CACHES VIS	MMP CAP KNOB- SCREW+CAP SCREW
12	89 059	BOUTON VARIATEUR MMP- VIS+CACHES VIS	MMP VARIATOR SWITCH- SCREW+CAP SCREW
13	89 550	KIT BOUTON- RESSORT- VIS+CACHES VIS	KNOB- SPRING- SCREW+CAP SCREW KIT
14	39 507	BOITE FOUET MMP	MMP WHIP BOX
15	39 500	PIGNON BF MMP- VIS+CACHES VIS	BF MMP GEARS- SCREW+CAP SCREW
16	39 501	COQUE INF BF MMP- VIS+CACHES VIS	BF MMP LOWER BODY- SCREW+CAP SCREW
17	39 503	VIS-CACHES VIS BF MMP (X4)	BF MMP SREW - SCREW+CAP SCREW (X4)
18	39 504	COQUE SUP BF MMP- VIS+CACHES VIS	BF MMP UPPER BODY- SCREW+CAP SCREW
19	39 505	BILLE RONDELLE BF MMP- VIS+CACHES VIS	MMP BALLS WASHERS- SCREW+CAP SCREW
20	39 506	JOINTS BF MMP- VIS+CACHES VIS	BF MMP SEALS- SCREW+CAP SCREW
21	89 150	DISQUE EMULSION PLEIN	MMP EMULSION DISC
22	39 502	FOUET MMP (X2)	MMP WHIP (x2)
23	89 568	KITCACHES VIS – VIS MMP (X3+X4)	MMP SCREW-CAP SCREW KIT (X3+X4)
24	89 067	VENTILATEUR MMP - VIS+CACHES VIS	MMP VENTILATOR- SCREW+CAP SCREW
25	89 066	CONDUIT VENTILATEUR MMP - VIS+CACHES VIS	MMP VENTILATOR PIPE- SCREW+CAP SCREW
26	89 065	BAGUE MOTEUR MMP - VIS+CACHES VIS	MMP MOTOR RING- SCREW+CAP SCREW
27	89 099	VIROLE MMP 240 V.V.- VIS+CACHES VIS	MMP 240 V.V. FERRULE- SCREW+CAP SCREW
28	89 070	VIROLE MOTEUR MMP- VIS+CACHES VIS	MMP MOTOR FERRULE- SCREW+CAP SCREW
29	89 158	JOINT MOTEUR MMP - VIS+CACHES VIS	MMP MOTOR O RING - SCREW+CAP SCREW
30	89 159	CARTER MOTEUR MMP - VIS+CACHES VIS	MMP MOTOR CASING - SCREW+CAP SCREW

Index	Désignation	Description
A	PLATINE	CIRCUIT BOARD
B	CABLE D'ALIMENTATION	POWER CORD
D	CHARBONS (x2)	BRUSHES (x2)
E	ENSEMBLE FILS	ELECTRICAL WIRING
M	MOTEUR	MOTOR

Machine	Voltage	A	B	D	E	M
34 734 BRA	220/60/1	89 169	89 116	89 173	89 171	89 104
34 738 Arabie			89 165			
34 734			89 163			
34 730	230/50/1	89 168	89 164			
34 736 Suisse			89 109			
34 730 ZAF			89 165			
34 731 UK			89 166			
34 732 Aust			89 167			
34 735	120/60/1	89 170	89 167			
34 739 Japon			89 524			

Mini MP 160 V.V. - Mini MP 190 V.V. - Mini MP 240 V.V. - Mini MP 190 Combi - Mini MP 240 Combi

120V/60Hz - 220V/60Hz - 230V/50Hz - 240V/50Hz 1~

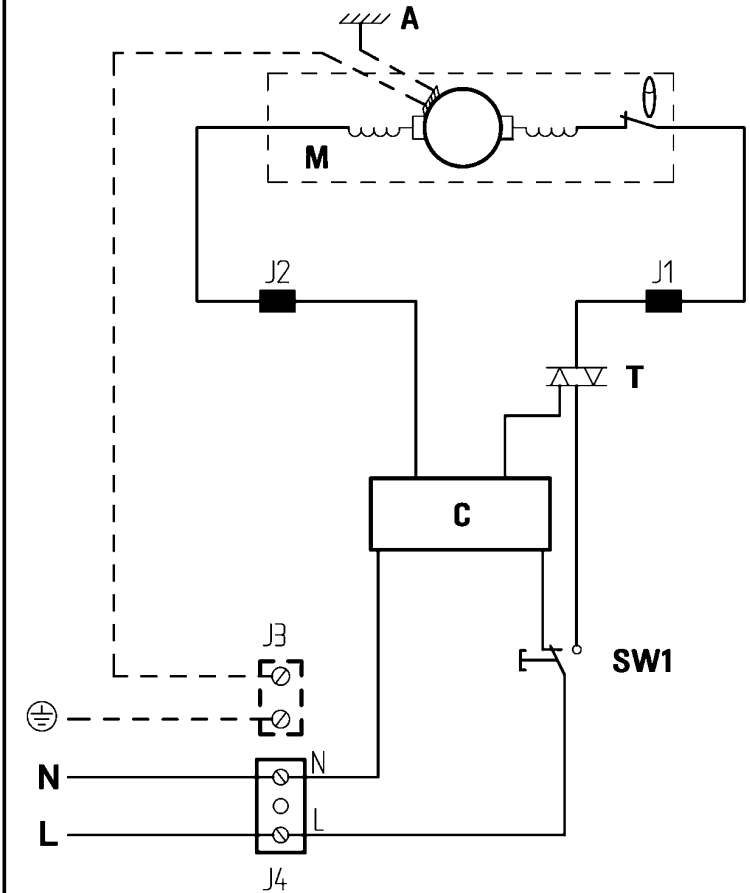
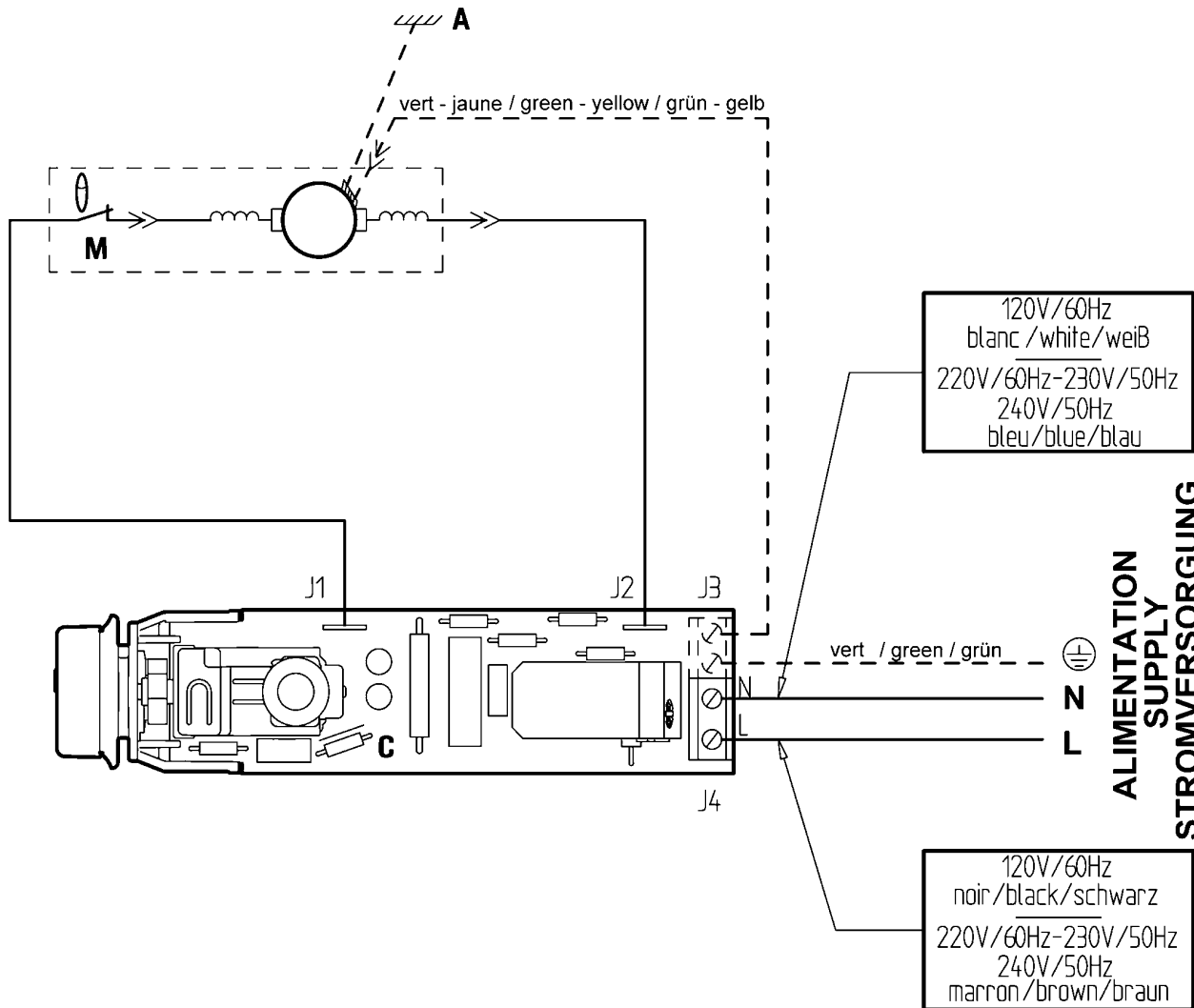
SCHEMA ELECTRIQUE

ELECTRIC DIAGRAM

ELEKTRISCHES SCHALTBILD

----- {
 Seulement sur modèles 120V
 Only on 120V version
 Gibt es nur für den 120V

	Français	English	Deutsch
A	Capot aluminium	Aluminium housing	Aluminiumhaube
C	Unité de contrôle	Control unit	Kontrolleinheit
M	Moteur	Motor	Motor
SW1	Interrupteur marche/arrêt	On/off switch	Betriebsschalter/Stopschalter
T	Triac	Triac	Triac
θ	Protecteur thermique	Thermal protector	Thermoschutz





robot coupe®

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