

OPERATOR'S SAFETY AND SERVICE MANUAL

RED BAND
CONSTRUCTION EQUIPMENT

RED BAND MB MASONRY BRIDGE SAW RANGE



MODELS: MB65, MB100, MB120 & MB150

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CONSTRUCTION EQUIPMENT

NB.
EVERY MACHINE IS TESTED AND CHECKED BEFORE LEAVING OUR FACTORY.

GENERAL INFORMATION

Read the instructions and advice given in this manual with care. Important information is provided on: safe installation, use and maintenance of the machine.

The manufacturer declines all responsibility for damage caused by failure to follow the instructions and advice given in this manual.

KEEP THIS MANUAL CAREFULLY.

After removing the packing, check that all parts of the machine are free from damage. If they are not, contact your local dealer.

Packing materials must be disposed of at an authorized collection point.

THEY ARE NOT TO BE USED FOR CHILDREN'S GAMES!

Any necessary repairs to the machine must be carried out only by a specialized technician.

IN THE CASE OF MALFUNCTION, DISCONNECT THE MACHINE BY REMOVING THE PLUG FROM THE POWER SOCKET.

When the machine is thrown away, it must be made unserviceable. Remove the plug and cut the power cable. Consign the machine to a collection point for bulky wastes.

PURPOSE OF THIS MANUAL

The purpose of this manual is to assist the operator in the correct use of the machine, to provide information on the relevant safety regulations currently in force in the European Community, and to eliminate any risks that might be caused by incorrect use of the machine.

This machine must be used only for the purpose for which it has been made, namely the cutting of marble, granite, brick products, ceramic tiles, etc. Any other use is to be considered improper, and consequently dangerous. The manufacturer cannot be held responsible for any damage to persons or things caused by improper, incorrect or unreasonable use of the machine.

IDENTIFYING THE MACHINE

The identification plate bearing the type or model of the machine, with the serial number and the motor name and data is located on the front of the machine. PHOTO 1

TECHNICAL DATA

| TYPE | CUT LENGTH Cm | DEPTH Cm | Ø DISC mm | MOTOR Kw | LxBxH Cm | WEIGHT Kg |
|--------|------------------|-------------|--------------|-------------|-------------|--------------|
| MB 65 | 65 | 11 | 350 | 2,2 | 107x66x77 | 90 |
| MB 85 | 85 | 11 | 350 | 2,2 | 127x66x77 | 105 |
| MB 100 | 100 | 11 | 350 | 2,2 | 140x66x77 | 120 |
| MB 120 | 120 | 11 | 350 | 2,2 | 160x66x77 | 160 |
| MB 150 | 150 | 11 | 350 | 2,2 | 197x66x77 | 180 |

NB.

For the voltage and the power of the machine to make reference the identification nameplate.

INSTALLATION

N.B.:

FOLLOW THE INSTRUCTIONS BELOW WHEN INSTALLING THE MACHINE

- 1] Before connecting the machine to a power socket, it is essential to check that the data shown on the identification plate correspond exactly to the type of power supply available.
- 2] If the power socket and the plug on the machine are of different types, have the machine plug replaced with a suitable one by a qualified technician.
- 3] Never allow the machine to be used by children or by incapable or mentally disabled persons. Keep all extraneous persons at least 5 metres away from the work area.
- 4] Remove the plug from the power socket when the machine is not being used, when it is being cleaned and when blades are being mounted or dismantled.
- 5] Ensure that the machine is placed on a flat surface. This will increase its stability.

| |
|---|
| !!!ATTENTION!!! DO NOT TOUCH THE BLADE WHILE IT IS MOVING! |
|---|

- 6] Do not use the machine in conditions of insufficient lighting.
- 7] Do not use the machine in the rain or in the vicinity of inflammable or explosive materials.

INSTRUCTIONS FOR CORRECT USE

- 1] The control for switching the machine on is on the motor head, in an easily accessible position (REF.37 EUROPE).
- 2] This machine must be used only for the purpose for which it has been made, namely the cutting of marble, granite, brick products, ceramic tiles, etc. Any other use is to be considered improper, and consequently dangerous. The manufacturer cannot be held responsible for any damage to persons or things caused by improper, incorrect or unreasonable use of the machine.
- 3] Do not use the machine if a malfunction has occurred. In this case the machine should be switched off and should not be tampered with. Consult your local dealer for advice on any necessary repairs. The dealer will provide you with authorized technicians and original spare parts if required. Failure to respect this procedure may impair the safety of your machine and be a risk for the operator. The responsibility of the manufacturer will consequently be invalidated.
- 4] Do not use the machine without the blade guard (REF.22), as this protects against fragments of waste that might be expelled.
- 5] Regularly check the condition of power cables and have them replaced if they are damaged. They should be replaced by a qualified technician.
- 6] Operator position: PHOTO 2
- 7] On EUROPE versions, the ON button is green and is inset above the projecting red STOP button.

FITTING BLADES

- 1] Set the locking rings and carriage end-of-travel stops (REF.6) according to the diameter of the blade being used. This is essential to prevent the blade from coming into contact with the base of the machine. PHOTO 3, 4
- 2] Before mounting or replacing the blade, **ALWAYS REMOVE THE PLUG FROM THE POWER SOCKET.**
- 3] Fill the tank with water until the pump is completely covered. This will prevent it from overheating and seizing up.
- 4] To mount a blade, remove the front section of the blade guard (REF.21/22). PHOTO 5, 6
- 5] Raise the motor carriage by moving the handwheel in a clockwise direction (REF.1). PHOTO 7
- 6] Unscrew the blade locknut (left-hand thread REF.29) with the service tools provided PHOTO 8
- 7] Remove the counterflange (REF.28) and mount or dismount the blade (use only diamond blades or special blades for the material to be cut). PHOTO 9
- 8] Replace the counterflange and the nut (REF.29/28) and the front section of the blade guard (REF.22).
- 9] Before cutting, check that the two locking levers on the shoulders are correctly tightened (REF.13) and that the knobs or bolts of the legs (REF.18) are tight. PHOTO 10
- 10] For slanted cuts, slacken the two levers (REF.13). Raise the motor carriage (section 5, page 8), lift the motor head (see photo) and move it to the desired angle. Then retighten the two levers (REF.13). PHOTO 11

TRANSPORTING THE MACHINE

Four carrying handles are provided for manual transport of the machine. These are located beneath the tank (REF.19). Proceed as follows.

- 1] Raise the motor carriage (see photo 11).
- 2] Tilt the motor to an angle of 45°.
- 3] Move the motor carriage to the centre of the machine.
- 4] Tighten the two locking rings against the motor carriage. PHOTO 12
- 5] Pull out the four carrying handles and grasp them. Lift the machine (**2 PERSONS ARE REQUIRED**). PHOTO 13
- 6] The machine can also be transported with a forklift truck, a pallet loader or self-balancing forks* attached to a construction site crane. When not fitted with legs, the standard space of 10 cm is available beneath the machine for the passage of the forks of any of the above lifting devices.

SPARE PARTS

N.B.
PLEASE CONSULT THE ACCOMPANYING DIAGRAM

OPTIONAL ACCESSORIES

Extension table, Extension rollers, Long side square, Diagonal square adjustable 0-45°. PHOTO 14, 15, 16

MAINTENANCE AND CLEANING OF THE MACHINE

- 1] Before carrying out any work on the machine, disconnect the plug from the power socket.
- 2] Regularly change the water in the tank (REF.20), using the drain plug to empty it. Remove any sludge deposits in the tank. PHOTO 17.
- 3] To remove the bench surfaces, unscrew the bolts (see photo) with the service tools provided. The bolts should be changed when they start to deteriorate, and should be greased every time they are remounted. PHOTO 18
- 4] Clean the pump (REF.15) every day by submerging it in a container of clean water.
- 5] If the machine is stopped for a long period, before being used again the pump must be removed and inspected to check that there are no deposits blocking the vanes. The vanes should be turned with a screwdriver. PHOTO 19
- 6] Grease the slide bushes (REF. 32) and the threaded lifting bar (REF.38) once a month. PHOTO 21
- 7] If the machine is to be out of use for a long period, it is advisable to clean it and to empty the tank, so as to avoid the possibility of water coming into contact with electrical parts. The slide bushes (see photo 21 and REF.4 on diagram) should also be lubricated.

THE MANUFACTURER RESERVES THE RIGHT TO MAKE ANY MODIFICATIONS DEEMED NECESSARY TO THE MACHINES PRODUCED, WITHOUT GIVING PRIOR NOTICE.

NOISE EMISSION

The noise emission of this machine was measured in a semi-anechoic chamber complying with standard ISO 3745-77 (test carried out by CSR, Rimini). The values below are calculated on a working day of 8 hours. These values may decrease by 3 dba if exposure is reduced by 50%.

The following results were obtained when running without load, using a blade with standard sectors and the standard blade guard:

- 1] Running without load L.ep (operator position) 73.4 dba
- 2] In operation 98.4 dba

Better results can be obtained by using these accessories:

- Silenced blade guard, available on request.
- Silenced blade, available on request.

The following values can be obtained:

- 1] Running without load 73.0 dba
- 2] In operation 88.5 dba

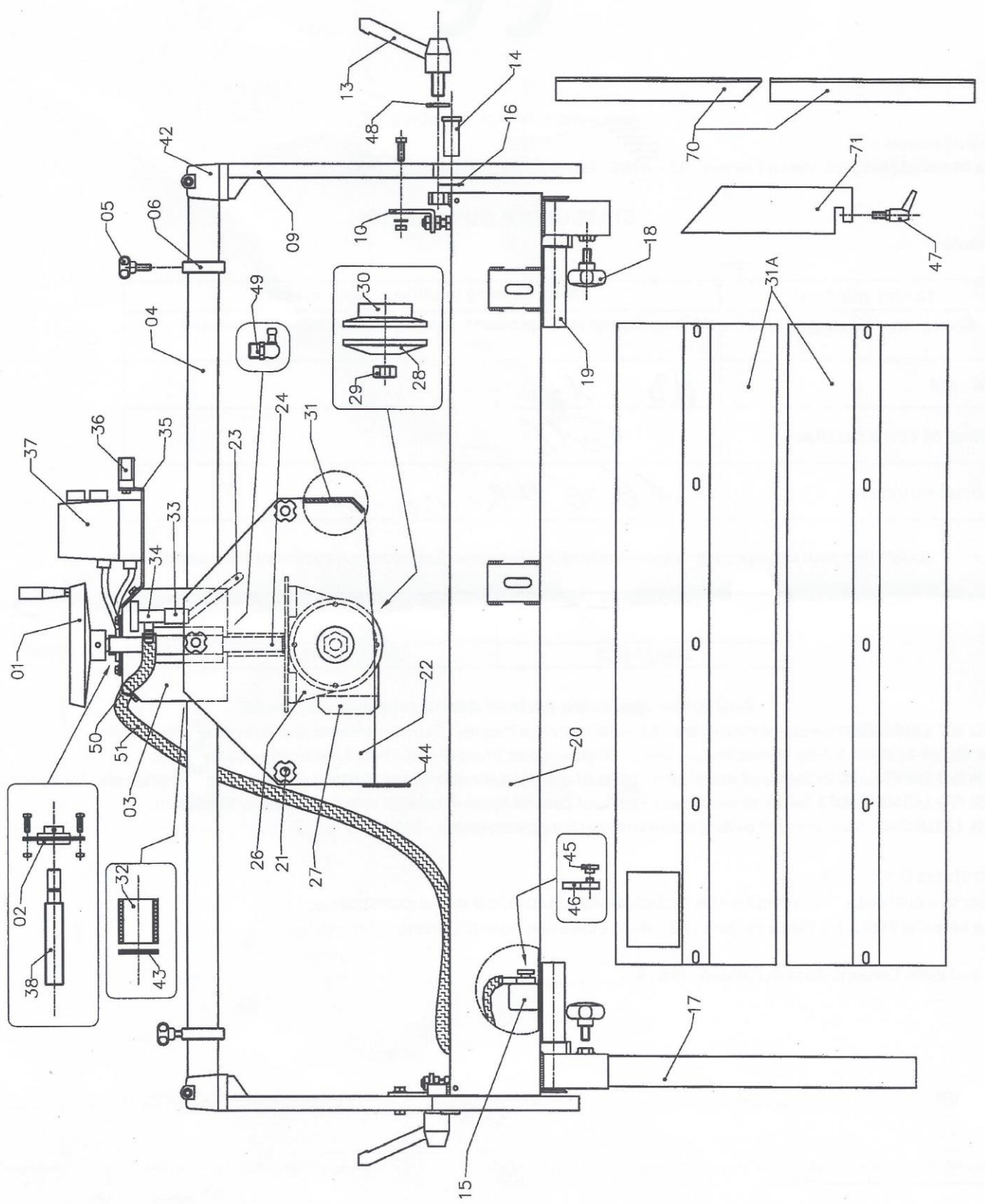
N.B.

We do not manufacture diamond blades, and are obviously unable to guarantee the quality of articles that we have not produced. Levels of noise emission may vary according to the type of blade fitted. The above values are only indicative, given the wide range of blades available commercially. To safeguard the hearing, it is compulsory to use ear protection muffs or ear-plugs, which can be obtained from any pharmacist's shop.

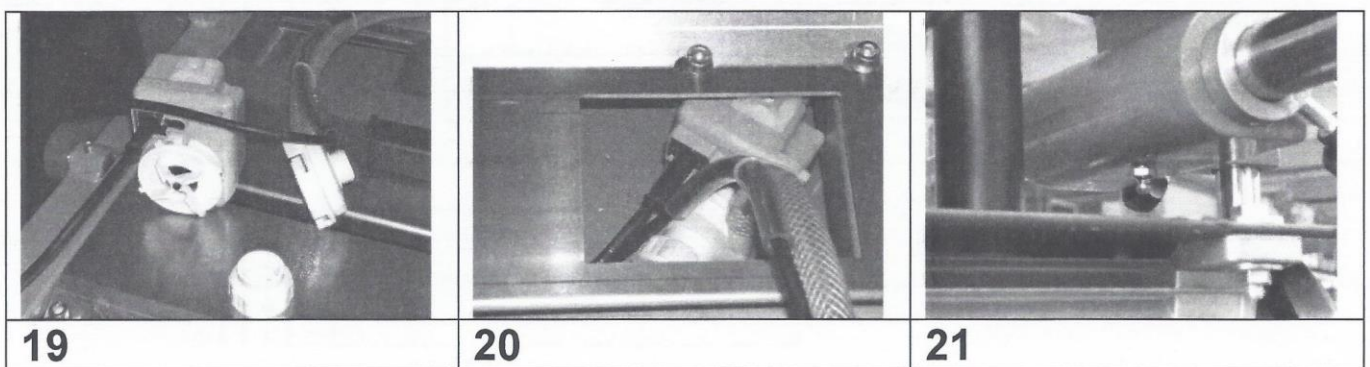
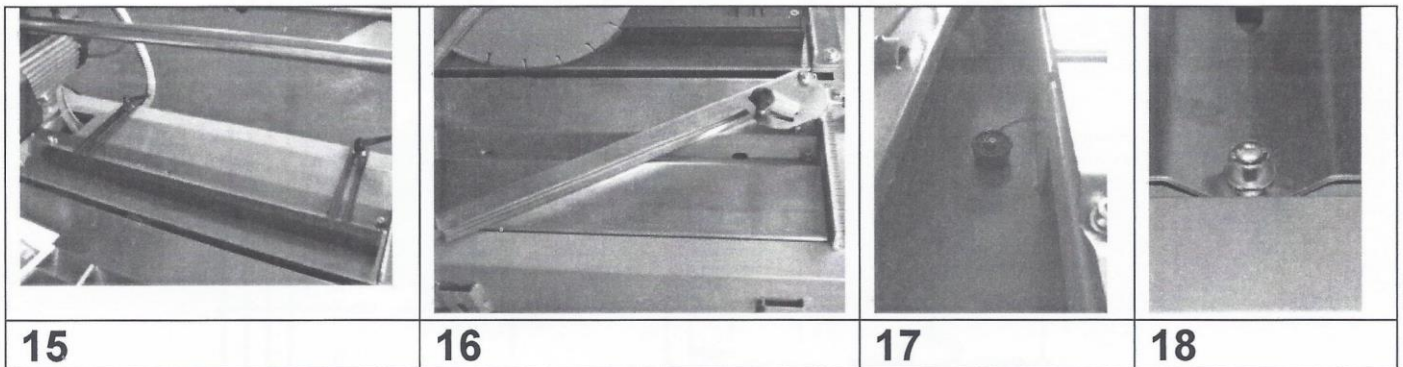
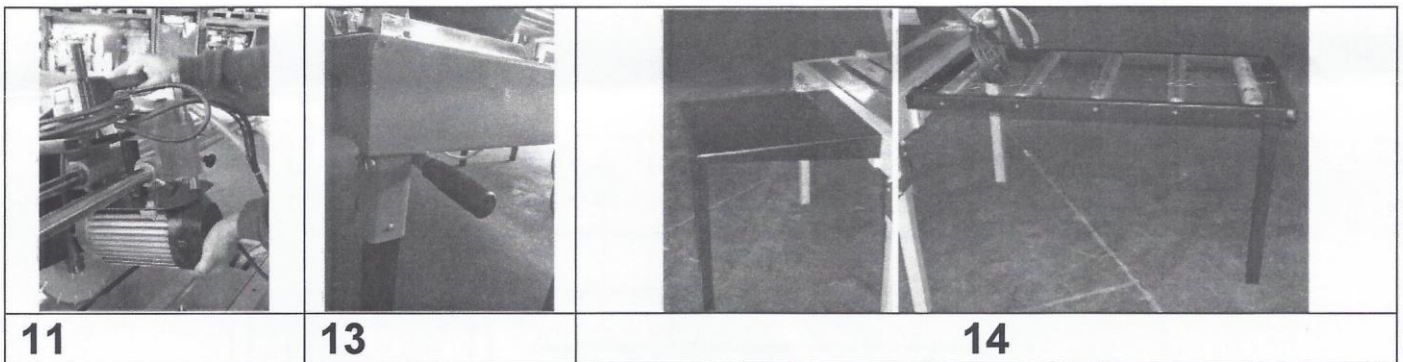
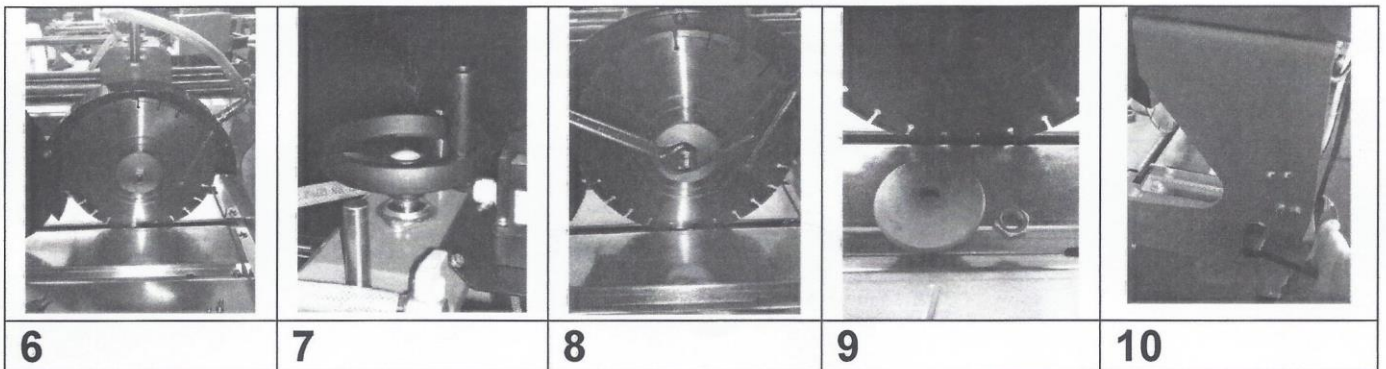
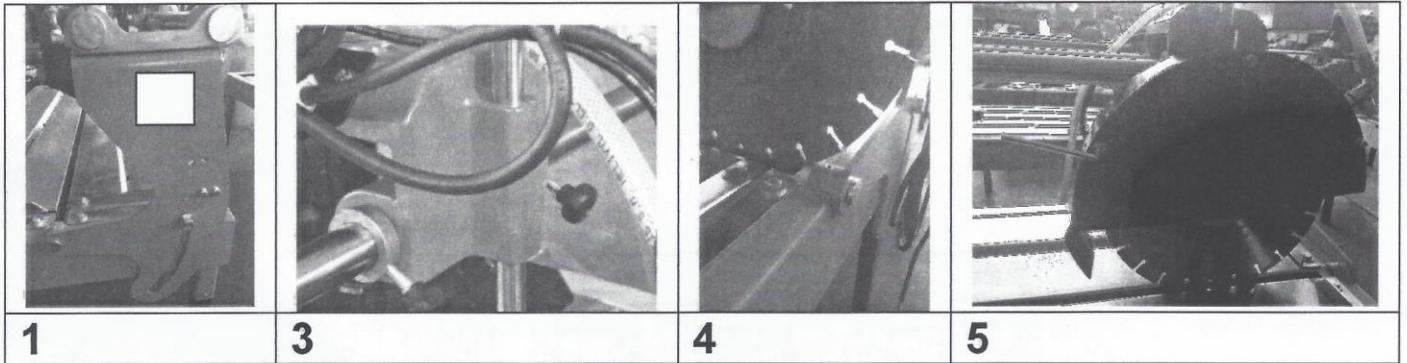
* If the machine is lifted to a height of over 2 metres, it must be secured to the forks with ropes or other fastenings.

DIAGRAM

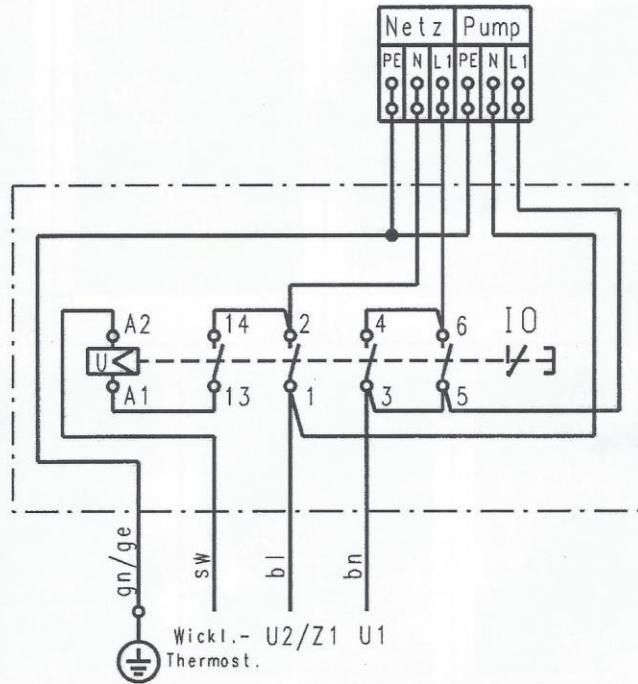
DESCRIPTION OF COMPONENTS



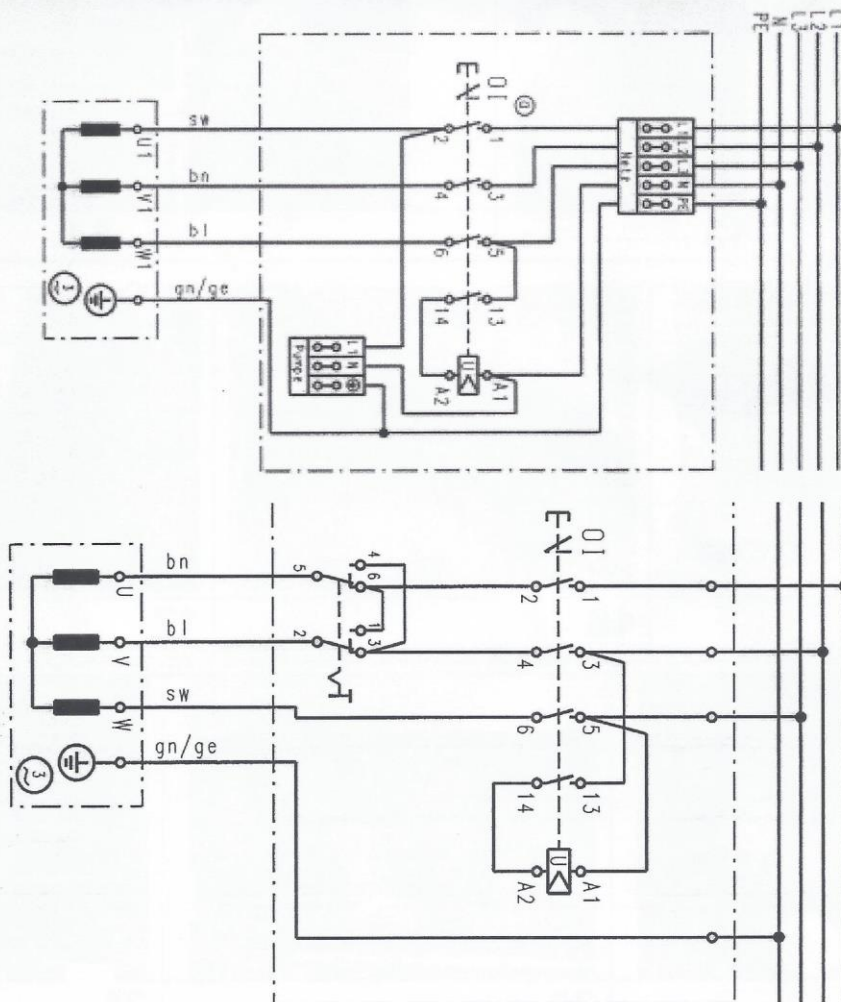
PHOTO



SINGLE-PHASE ELECTRICAL DIAGRAM



THREE-PHASE ELECTRICAL



DECLARATION OF CONFORMITY



Annex II B of Directive 2006/42 / EC

The manufacturer :

Nuova Mondial Mec S.r.l. Via La Pastora , 82 – 47852 Cerasolo Ausa di Coriano - (RN)

STATE UNDER OUR LIABILITY

The machine:

| | |
|-------------------------|---|
| target machine | Milling / sawing machine / Cutter machine |
| Function - intended use | Milling, cutting stone products, marble, granite, natural stone and bricks. |
| Models | MB65, MB100, MB120, MB150. |

It complies with the essential requirements of the European Community Directives safety issues concerning:

| | |
|------------|--|
| MACHINERY | THE ELECTROMAGNETIC COMPATIBILITY ' I |
| 2006/42/CE | 2014/30/UE |

And to the applicable parts of the harmonized standards:

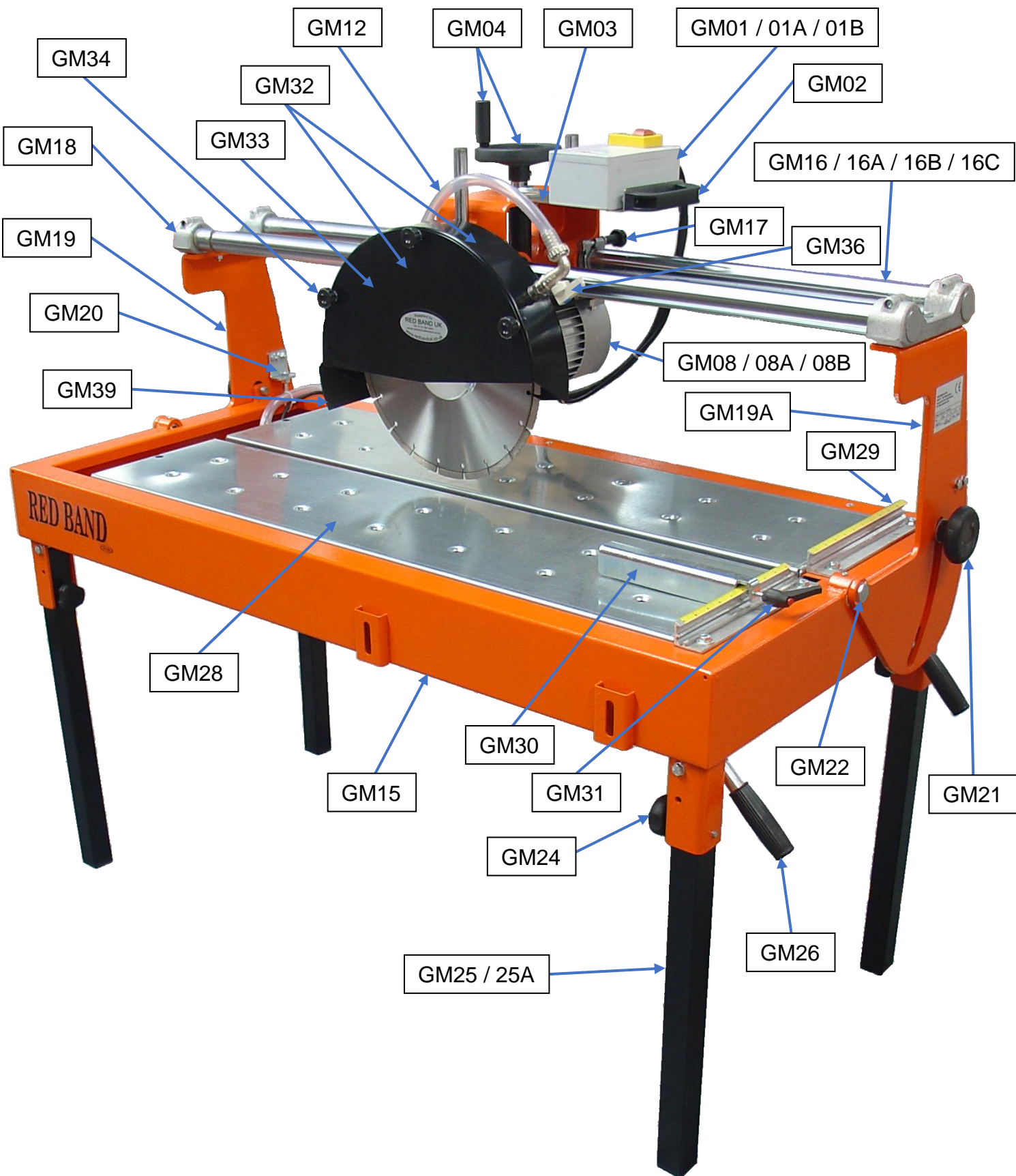
- UNI EN ISO 12100:2010** Safety of machinery - General design principles - Risk assessment and risk reduction.
- CEI EN 60204-1: 2006** Safety of machinery - Electrical equipment of machines - Part 1: General requirements.
- UNI EN ISO 13849-1: 2015** Safety of machinery - parts of control systems related to safety - Part 1: General principles for design.
- UNI EN ISO 13849-2: 2012** Safety of machinery - parts of control systems related to safety - Part 2: Validation
- UNI EN 12418:2001** Machines for cutting stone and masonry construction - Safety

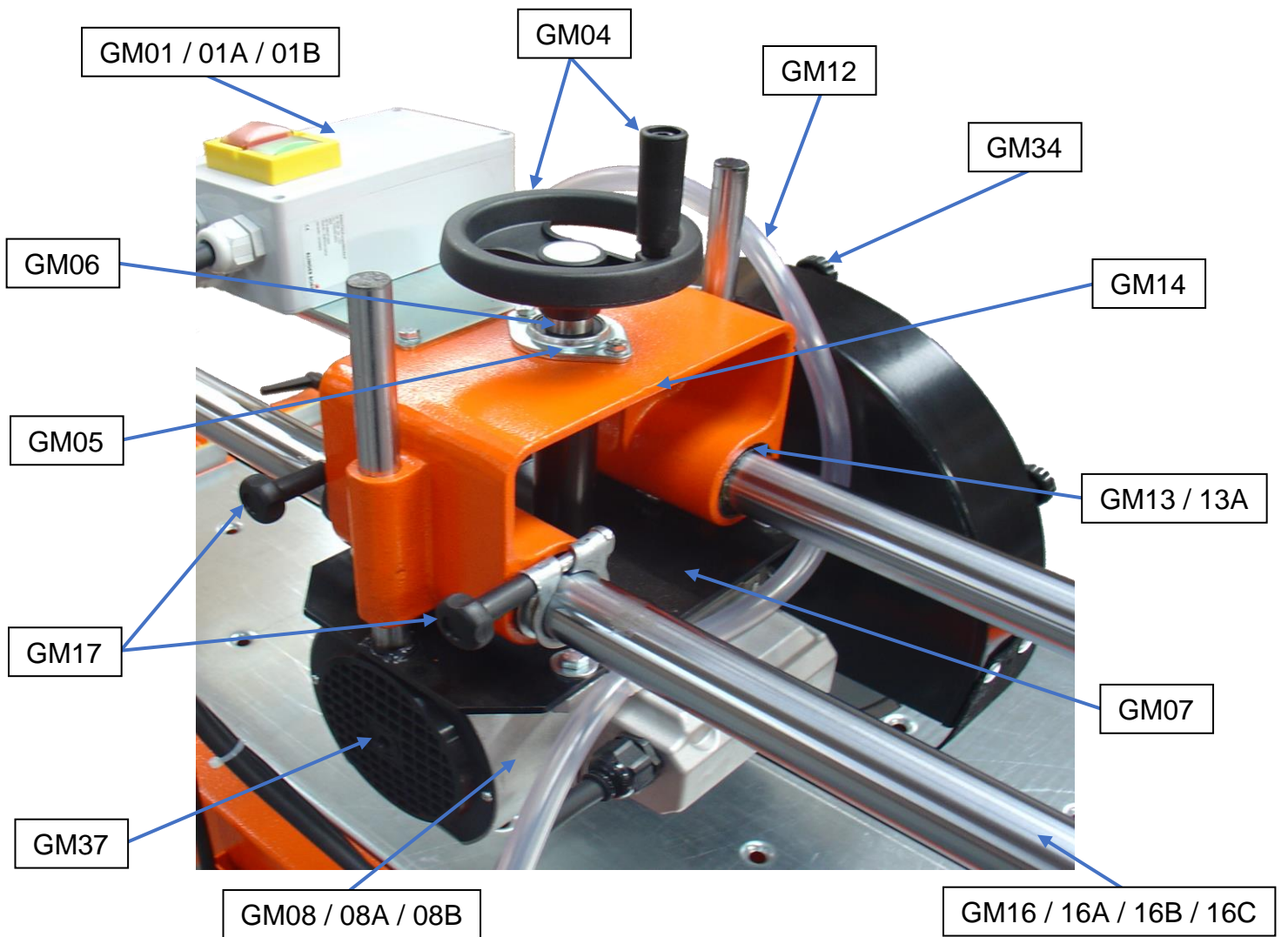
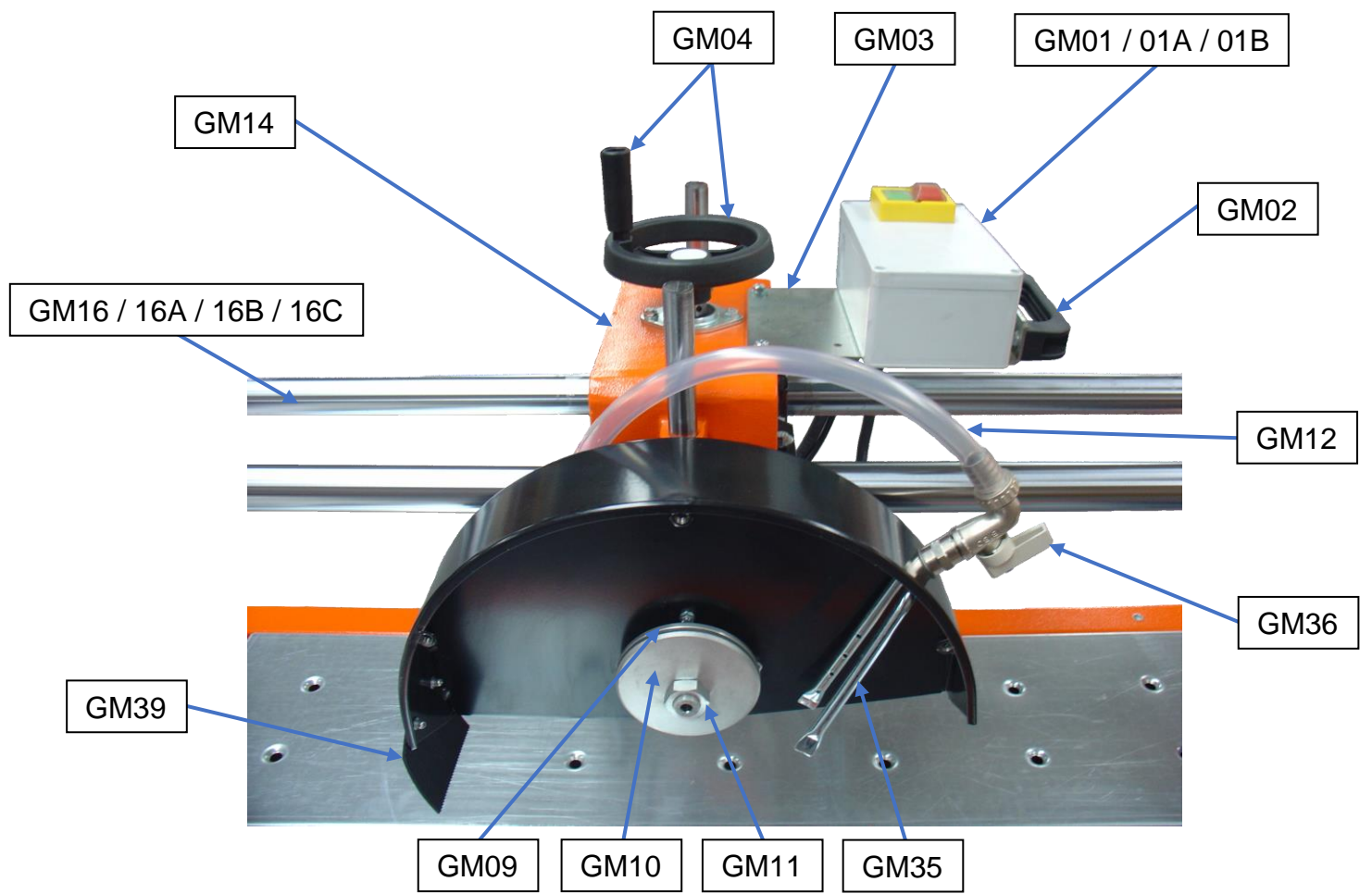
It also states that:

The person authorized to compile the technical file established in the community, is:

Nuova Mondial Mec S.r.l. Via La Pastora , 82 – 47852 Cerasolo Ausa di Coriano - (RN)

SPARE PARTS DIAGRAM





| <u>PART NO.</u> | <u>DIAGRAM REF.</u> | <u>PART DESCRIPTION</u> |
|------------------------|----------------------------|--------------------------------|
| GM01 | 37 | STARTER ASSEMBLY 110V |
| GM01A | 37 | STARTER ASSEMBLY 220V |
| GM01B | 37 | STARTER ASSEMBLY 415V |
| GM02 | 36 | HANDLE |
| GM03 | 35 | STARTER PLATE |
| GM04 | 04 | HANDWHEEL & GRIP |
| GM05 | 02 | BEARING |
| GM06 | 38 | FEED SCREW |
| GM07 | 26 | MOTOR CONSOLE |
| GM08 | 26 | MOTOR 110V |
| GM08A | 26 | MOTOR 220V |
| GM08B | 26 | MOTOR 415V |
| GM09 | 30 | INNER COLLAR |
| GM10 | 28 | OUTER COLLAR |
| GM11 | 29 | NUT – BLADE SHAFT |
| GM12 | 51 | WATER HOSE |
| GM13 | 32 | LINEAR BEARING |
| GM13A | 43 | SEAL |
| GM14 | 03 | HEAD CONSOLE |
| GM15 | 20 | WELDED FRAME (WATER TRAY) |
| GM16 | 04 | BEAM SET (PAIR) MB100 |
| GM16A | 04 | BEAM SET (PAIR) MB65 |
| GM16B | 04 | BEAM SET (PAIR) MB120 |
| GM16C | 04 | BEAM SET (PAIR) MB150 |
| GM17 | 06 | STOP RING |
| GM18 | 42 | BEAM HOLDER |
| GM19 | 09 | BRACKET L/H |
| GM19A | 09 | BRACKET R/H |
| GM20 | 10 | ANGLE ADJUSTER |
| GM21 | 13 | LOCKING HANDLE |
| GM22 | 14 | PIVOT AXLE |
| GM23 | 15 | WATER PUMP |
| GM24 | 18 | LEG LOCKING SCREW |
| GM25 | 17 | LEG (SQUARE TYPE) |
| GM25A | 17 | LEG (L SHAPE) |
| GM26 | 19 | TRANSPORT HANDLE |
| GM27 | 27 | CAPACITOR |
| GM28 | 31A | TABLE TOP (PAIR) |
| GM29 | 70 | BACK GUIDE (PAIR) |
| GM30 | 71 | GUIDE A CUT |
| GM31 | 47 | LOCK SCREW |
| GM32 | 31 | BLADE GUARD ASSEMBLY |
| GM33 | 22 | COVER – BLADE GUARD |
| GM34 | 21 | LOCKING SCREW – BLADE GUARD |
| GM35 | 23 | WATER FEED |
| GM36 | 34 | WATER TAP |
| GM37 | | FAN COVER |
| GM38 | | DRAIN BUNG |
| GM39 | 44 | SPLASH RUBBER |
| GM50 | | MOTOR & STARTER ASSEMBLY 110V |