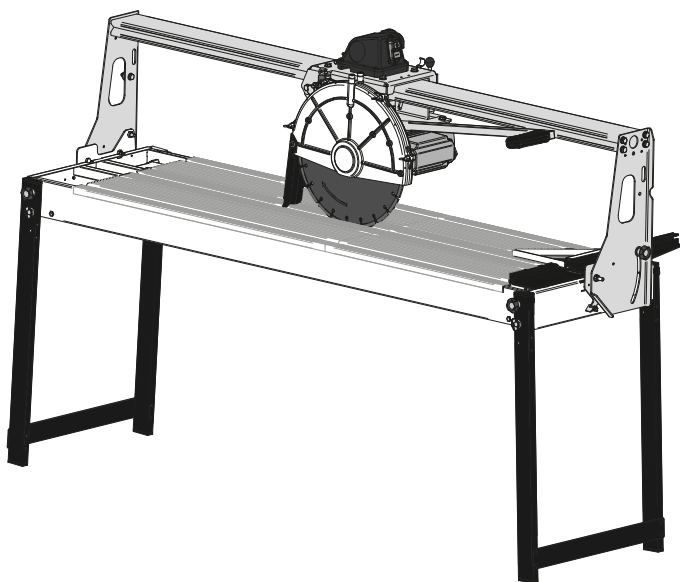
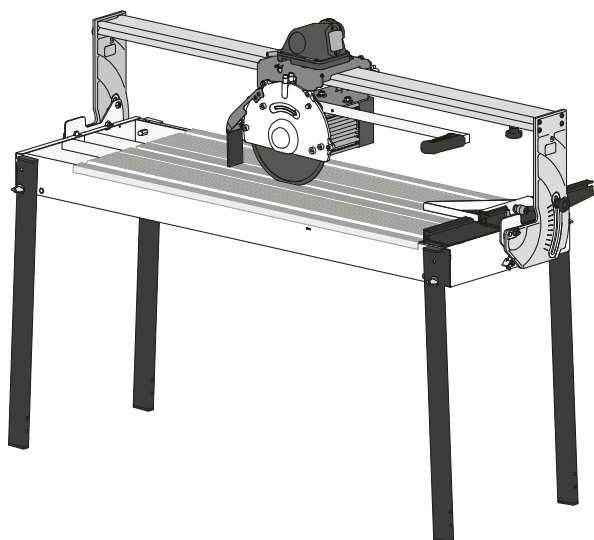
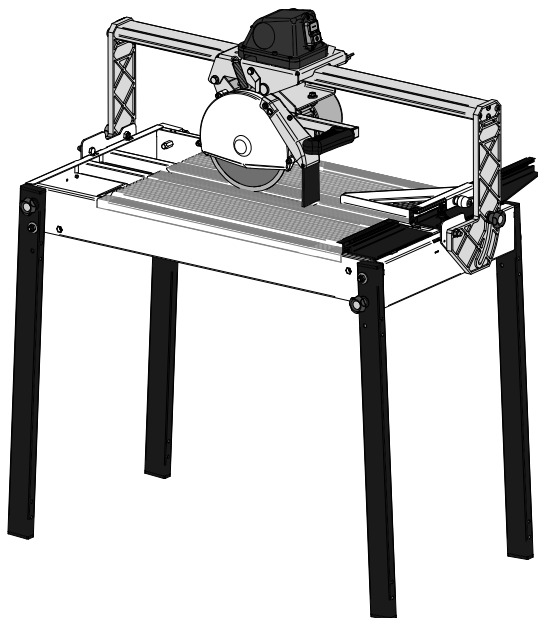




RAIMONDI

www.raimondipa.com



EN

EXPLOIT - BOLT - MISTRAL

USE AND MAINTENANCE INSTRUCTION MANUAL

TRANSLATION OF ORIGINAL INSTRUCTIONS IN ITALIAN

TABLE OF CONTENTS

CHAPTER 1. COPY OF THE EC DECLARATION OF CONFORMITY.....	3
CHAPTER 2. GENERAL TERMS AND CONDITIONS.....	4
2.1 TESTING	4
2.2 RESPONSIBILITY	4
2.3 WARRANTY	4
2.4 REGISTER YOUR MACHINE	5
2.5 TECHNICAL SUPPORT AND SPARE PARTS	5
2.6 DEMOLITION AND DISPOSAL	5
CHAPTER 3. SAFE USE OF THE PRODUCT	7
3.1 ENVIRONMENTAL CONDITIONS	7
3.2 MARKING	7
3.3 GENERAL SAFETY NOTES	8
3.4 SAFETY SIGNS	9
3.5 PERSONAL PROTECTIVE EQUIPMENT	10
3.6 INTENDED USE	10
3.7 RESTRICTIONS ON USE, IT IS FORBIDDEN:	10
3.8 REASONABLY FORESEEABLE MISUSES, IT IS FORBIDDEN:	10
CHAPTER 4. MACHINE CHARACTERISTICS.....	11
4.1 PERFORMANCE	11
4.2 DESCRIPTION OF THE MACHINE COMPONENTS	12
4.3 OPERATOR POSITION	13
4.4 SAFETY DEVICES	13
4.5 NOISE AND VIBRATION	14
CHAPTER 5. PRODUCT USAGE	15
5.1 PACKAGING HANDLING	15
5.2 MACHINE HANDLING	15
5.3 ASSEMBLY OF THE MACHINE	16
5.4 TANK FILLING	16
5.5 POWER SUPPLY	17
CHAPTER 6. EXECUTION OF CUTS	18
6.1 POSITIONING OF THE SQUARE STOPS	18
6.2 PRELIMINARY ADJUSTMENTS	19
6.3 CUTTING	20
6.4 JOLLY 45° CUT	21
CHAPTER 7. MAINTENANCE	22
7.1 DISK REPLACEMENT	22
7.2 CLEANING THE SLIDE BAR	22
7.3 EMPTYING AND CLEANING THE TANK	22
CHAPTER 8. TROUBLESHOOTING	23
CHAPTER 9. WIRING DIAGRAM	24
9.1 SINGLE-PHASE MACHINES	24
CHAPTER 10. SPARE PARTS.....	25
10.1 EXPLOIT	25
10.2 BOLT	27
10.3 MISTRAL	29

1. COPY OF THE EC DECLARATION OF CONFORMITY

(2006/42/EC, Annex. II, part 1, let. A)

THE MANUFACTURER/PERSON AUTHORISED TO COMPILE THE TECHNICAL FILE:

Raimondi S.p.A.

Company

Via dei Tipografi, 11

Address

Modena

City

41122

Postal Code

MO

Province

Italy

Status

DECLARES
UNDER ITS OWN RESPONSIBILITY THAT THE MACHINE:

Type: BRIDGE SAWS FOR BRICKS AND TILES

Model: EXPLOIT - BOLT - MISTRAL

Function: CUTTING OF STONE MATERIAL AND BRICKS

COMPLIES WITH ALL RELEVANT PROVISIONS OF THE FOLLOWING EU COMMUNITY DIRECTIVES:

Machines 2006/42/EC

Electromagnetic Compatibility 2014/30/EU

And the following harmonised standards, standards and/or technical specifications applied:

EN ISO 12100

EN ISO 13732-1

EN 12418

Location

Modena

Legal Representative

Mr. Ivan Raimondi

2. GENERAL TERMS AND CONDITIONS

2.1 Testing

Environmental conditions other than those specified can cause serious damage to the machine and in particular to the electrical equipment.

2.2 Responsibility

Raimondi S.p.A. is not in any case responsible for anomalies in operation or general faults, caused by the unauthorised use of the machine or by interventions and/or changes made by external persons not authorised by Raimondi S.p.A.

2.3 Warranty

The Raimondi S.p.A. electrical machines for professional use meet the highest quality requirements. For this reason Raimondi S.p.A. guarantees that your product is free from manufacturing defects.

WARRANTY CLAUSES

1. The device is guaranteed for a period of 12 months from the date of purchase.
2. The purchase date is the one indicated on the tax receipt or invoice issued at the time of delivery of the appliance by the dealer.
3. Warranty means the free replacement or repair of components recognised to be defective in manufacture.
4. Complete replacement of the product is not foreseen.
5. The replacement of components, if performed by the dealer, will be recognised free of charge after the replaced components have been returned to our office to be examined and have been found to be defective. Labour costs are not included in the warranty.
6. All transportation costs are payable by the buyer. All travel, boarding, lodging, transportation and labour costs are excluded from the guarantee
7. Parts subject to wear are excluded from the warranty. Damage caused by carelessness, use, improper installation and storage and in any case by phenomena not dependent on the normal operation of the appliance.
8. The warranty is voided if the appliance has been tampered with or repaired by unauthorised personnel.
9. Any repair under warranty does not imply the extension of the original terms of the product warranty.
10. No-one is authorised to modify the warranty terms or to issue other ones, verbal or written, without the written authorisation of RAIMONDI S.p.A.
11. Compensation for direct or indirect damages of any kind to persons or property for the use or suspension of use of the appliance is excluded.
12. Outside the Italian territory and where official importers are present, the implementation of the after-sales service is the responsibility of the afore-mentioned importers.



2.4 Register your machine

Raimondi S.p.A. machines are guaranteed for a period of 12 months from the date of purchase.

By registering your machine you will receive a quick and effective assistance service.

And the benefits don't stop here!

HOW TO CARRY OUT REGISTRATION?

Registering your device is very easy.

Simply access the page of the dedicated site by capturing the QR CODE on the side with your smartphone or by accessing the address:

www.raimondispa.com/registrazione-garanzia



2.5 Technical support and spare parts

Contacts:

- Technical Support Service
- E.mail: info@raimondispa.com

Specify:

- Model, serial number and date of production;
- defects found;

In case of warranty request attach:

- tax document that proves the date of purchase by the user

2.6 Demolition and disposal

The manufacturer expects an estimated life of 15,000 hours of operation under normal conditions of use.

At the end of the actual life cycle, the user company must proceed with disposal of the machine in compliance with the regulations in force, first emptying the lubricating fluids and arranging for general cleaning of the various elements followed by separation of the parts that compose the machine.

After disassembling the machine, the various materials must be separated in accordance with the regulations of the country in which the machine must be disposed of. The machine does not contain any components or hazardous substances that require special removal procedures.

DURING THE DISPOSAL PROCESS IT WILL BE NECESSARY TO FOLLOW THE REGULATIONS IN FORCE IN THE COUNTRY OF USE. STORE POLLUTANTS SUCH AS OILS AND SOLVENTS ONLY IN METAL DRUMS.



EC - ROHS/WEEE MANUFACTURER'S DECLARATION

DIRECTIVE (EU) 2015/863 (RoHS III Directive) of the European Parliament and of the Council of 15 March 2015 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

DIRECTIVE 2002/96/CE (WEEE Directive) of the European Parliament and of the Council of 27 January 2003, on waste of electrical and electronic equipment.

With reference to the Directives in question, and in particular to ANNEXES "I A" and "I B" of **Directive 2002/96/CE**, Raimondi S.p.A. declares that its own products

DO NOT FALL WITHIN THE FIELD OF APPLICATION OF DIRECTIVE 2011/65/EU

The Directive in question also provides for the specific restrictions on use referred to in article 4, paragraph 1 and the values of the maximum tolerated concentrations by weight in homogeneous materials.

The raw materials used by RAIMONDI S.p.A., for the manufacture of its components, fall within these EXEMPTION limits.

All surface treatments and plastics present in Raimondi S.p.A. products do not contain the prohibited substances listed in Directive (EU) 2015/863.

EC MANUFACTURER'S DECLARATION – REACH REGULATION (EC) No 1907/2006 of the EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.

With reference to the Directives in question, Raimondi S.p.A. declares that the products marketed by it have been pre-registered by our suppliers as of 1 December 2008.

We also inform that Raimondi S.p.A. products do not contain any SVHCs (substances of high concern) in an overall percentage exceeding 0.1%.

3. SAFE USE OF THE PRODUCT

3.1 Environmental conditions



THE MACHINE MUST BE STORED AND INSTALLED ON A STABLE, FLAT AND NOT INCLINED SURFACE



THE MACHINE MUST BE POSITIONED
IN AN AREA PROTECTED FROM THE RAIN.



THE POSITIONING OF THE MACHINE IN AREAS NOT CORRESPONDING TO THOSE INDICATED WILL VOID THE WARRANTY.

Environmental working conditions:

Temperature +5°C (41°F) +50°C (122°F)
Humidity 10% - 90% (non-condensing)

Environmental storage conditions:

Temperature 0°C (32°F) +60°C (140°F)

3.2 Marking

The identification plate is placed on the machine.

 RAIMONDI		MADE IN ITALY	CE
Mod.	MISTRAL 150 - 224MS 150EU		
Tipo	masonry and tile bridge		
Type	saw		
Anno	2021	220/240V	  8 024648 072627
Year		50/60Hz	
Matr.	123456	2,2 Kw	
Serial N		20A	
Peso	5000Kg	2860/3360rpm	  
Weight			
Via dei Tipografi 11, 41122 Modena, Italy - ph. +39.059.282.808 - info@raimondispa.com - www.raimondispa.com			



IT IS STRICTLY FORBIDDEN TO REMOVE OR TAMPER WITH THE IDENTIFICATION PLATE.

3.3 General safety notes



THE RULES LISTED BELOW MUST BE READ CAREFULLY AND MUST BECOME A FUNDAMENTAL PART OF THE DAILY PRACTICE IN THE USE AND MAINTENANCE OF ALL EQUIPMENT, IN ORDER TO PREVENT ANY KIND OF PERSONAL ACCIDENT AND/OR DAMAGE.

1. Do not attempt to operate the machine until its operation has been clearly understood.
2. If doubts arise, despite having carefully and completely read this manual, contact RAIMONDI S.p.A.
3. Make sure that all safety requirements are known to all personnel involved in use of the machine.
4. The operator must be familiar with the function and position of the STOP and START keys.
5. Do not wear clothes, ornaments or accessories that can become entangled in moving parts.
6. Keep the area surrounding the machine constantly free from obstructions.
7. Always wear protective goggles, ear protectors, a mask appropriate for the product to be processed and any other personal protection equipment in the areas that require it.
8. Pay the utmost attention to all signs of precaution, warning and danger located on the machine.
9. Always apply and enforce the safety regulations. If any doubts arise, before taking action, consult this manual again.
10. The machine must be used only and exclusively for the purposes it is intended for and in correspondence with the contract with RAIMONDI S.p.A.
11. Never start the machine before having warned and removed all the personnel near it.
12. Before starting the machine, the operator must check for any visible defects on the machine. In this case, immediately notify RAIMONDI S.p.A. or the nearest Assistance Centre of any evident breakage.
13. It is forbidden to use the machine with removed or damaged electrical casings.
14. Before use, check the operation of the water recirculation system.
15. Do not come into contact with the rotating tool
16. To stop the machine in case of emergency, press the STOP button.
17. It is forbidden to use the machine with tools that are damaged or which do not comply with the manufacturer's instructions.
18. Check the correct operation of all the switches daily.
19. Safety devices must never be removed or made ineffective.
20. Periodically check the efficiency of the guards.
21. During maintenance, adjustment or repair operations it may be necessary to exclude certain safety devices from service. This operation must only be carried out by authorised personnel. The machine must be disconnected from the mains. The machine must not be started up without having reset all the safety devices and guards.
22. It is necessary to maintain in a perfect condition all the plates and signs affixed to the machine. Should they become damaged, they must be promptly replaced.
23. Replace the parts considered faulty with original spare parts, guaranteed by the manufacturer.
24. All work on live parts must be carried out only by authorised personnel equipped with PPE (gloves, safety shoes and clothing) suitable for operating near electrical components.
25. Do not make any kind of junctions in the electrical connections of the electrical circuits.
26. Do not intervene for any reason on moving parts, even if to clear a clogging.

27. Above an altitude of 1000m it is necessary to take into account possible variations in the parameters of dielectric stiffness and cut off capacity of the devices.
28. Never attempt makeshift solutions!



FOR ALL OPERATIONS INDICATED IN THIS MANUAL, USE OF ALL NECESSARY PPE IS REQUIRED, ALL MAINTENANCE AND TROUBLESHOOTING OPERATIONS MUST BE PERFORMED WITH POWER DISCONNECTED AND BY REPAIR TECHNICIANS



DO NOT USE THE MACHINE FOR USES OTHER THAN THOSE INDICATED IN THE MANUAL



DO NOT PROCESS PRODUCTS OTHER THAN THOSE INDICATED IN THE MANUAL.



IN THE EVENT OF AN UNEXPECTED FAILURE OR INTERRUPTION OF THE MACHINE OPERATION, IT IS NECESSARY TO STOP THE MACHINE AND DISCONNECT THE MACHINE FROM THE ELECTRIC POWER SUPPLY BY USING THE SOCKET-PLUG COMBINATION, BEFORE ACCESSING THE MECHANICAL PARTS OR THE CUTTING DISC FOR TROUBLESHOOTING

Improper use of the machine can cause danger to personnel involved in the management and damage the machine itself.

For any problem that could arise during the operational lifetime of the machine, but not in any case covered in this technical documentation, it will be necessary to contact our Customer Assistance Service in order to resolve the issue as quickly as possible.

3.4 Safety signs

Signage on the machine and its meaning:

	Prohibition to climb on the machine		Danger: high temperature surfaces		Danger: mechanical parts (only available on some models)
	Danger of cutting		Danger: live electrical parts		

3.5 Personal protective equipment

The operators of the machine must be equipped with the following personal protection equipment:

	Gloves for mechanical risks		Ear protectors (earplugs or headphones)		Eye protection glasses
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All the personal protection equipment must ensure the requirements that comply with the applicable technical standards. Check the presence of the plate showing:

- The CE Marking
- References of the EN standard to which they comply.

3.6 Intended use

The machine is an abrasive sawmill with sliding motor with which it is possible to make cuts and chamfers (jolly 45°) on the following types of material: Ceramics, porcelain stoneware, natural stone, concrete agglomerates, brick elements.

The use of the machine to cut materials other than those listed is not allowed by the manufacturer.

The machine is to be considered manual, the advancement of the abrasive disc is determined by human force, therefore its advancement speed must be commensurate with the hardness and thickness of the material to be cut.

The material cuts must be made with sharp discs and the addition of water, which must always be present in the tank in the required quantity.

3.7 Restrictions on use, it is forbidden:

1. Use of the machine in a constructive configuration different from that envisaged by the manufacturer.
2. Use of the equipment in places at risk of explosion and/or fire (the equipment is not certified under the 2014/34/EU ATEX directive);
3. The integration of other systems and/or equipment not considered by the manufacturer in the executive project;
4. Use of the machine with guards that have been tampered with or removed;
5. Connecting of the machine to energy sources other than those provided by the manufacturer;
6. The use of commercial devices for a purpose other than that intended by the manufacturer;
7. Use of the machine for purposes other than those intended by the respective manufacturer;
8. Use of the machine without having read and fully understood the user instructions;
9. Use of the machine to cut materials that are different or of a different format from that intended by the manufacturer;
10. Use of the machine with tools not provided by the manufacturer.

3.8 Reasonably foreseeable misuses, it is forbidden:

1. Tampering with the machine or its safety devices;
2. Tampering with fixed guards;
3. Bypassing the safety devices;
4. Climbing onto the machine.

4. MACHINE CHARACTERISTICS

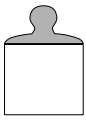
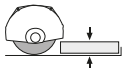
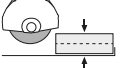
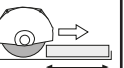
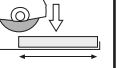
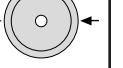
4.1 Performance

The machine plate shows the data relating to the voltage and power installed on the machine.
The direction of rotation of the disc is indicated on the protective casing.

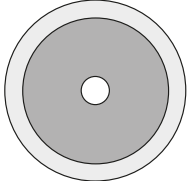
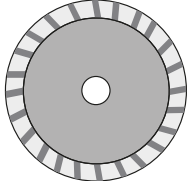
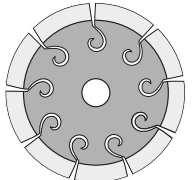
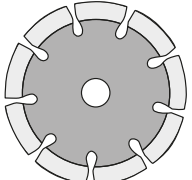
Depending on the machine model, the use of sector disks may be allowed or prohibited, refer to the following table and the information on the machine plate.



THE USE OF TOOLS OTHER THAN THOSE INDICATED IS PROHIBITED.

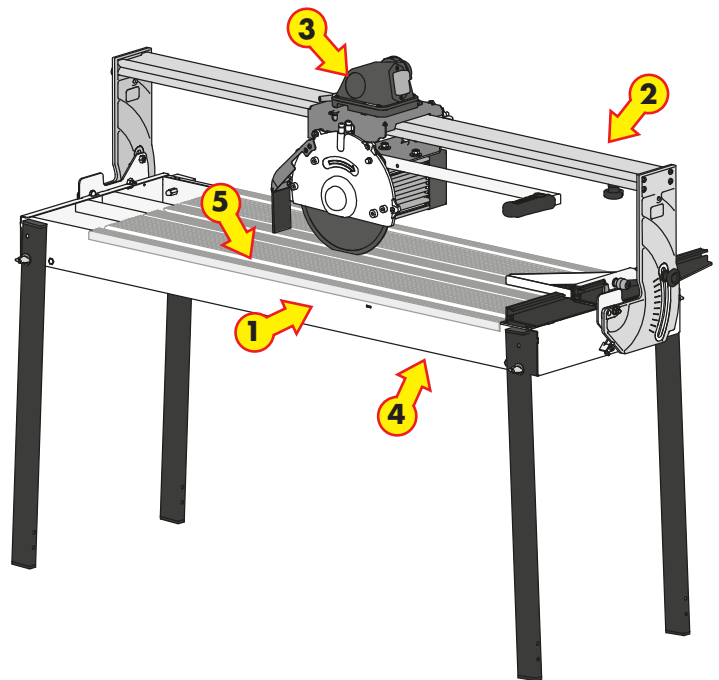
MACHINE MODEL								 rpm 50Hz/60Hz	
EXPLOIT 70	34 Kg 75 lb	32 l 8.5 gal	45 mm	60 mm	570 mm	700 mm	200 mm	2800 3360	Not permitted
EXPLOIT 90	38 Kg 84 lb	40 l 10.5 gal	45 mm	60 mm	820 mm	900 mm	200 mm	2800 3360	Not permitted
EXPLOIT 120	47 Kg 104 lb	50 l 13.2 gal	45 mm	60 mm	1120 mm	1200 mm	200 mm	2800 3360	Not permitted
BOLT 90	46 Kg 102 lb	40 l 10.5 gal	55 mm	65 mm	750 mm	900 mm	250 mm	2800 3360	Allowed
BOLT 120	50 Kg 110 lb	50 l 13.2 gal	55 mm	65 mm	1050 mm	1200 mm	250 mm	2800 3360	Allowed
BOLT 150	54 Kg 119 lb	60 l 15.9 gal	55 mm	65 mm	1350 mm	1500 mm	250 mm	2800 3360	Allowed
MISTRAL 90	60 Kg 132 lb	40 l 10.5 gal	100 mm	135 mm	650 mm	900 mm	360 mm	2800 3360	Allowed
MISTRAL 120	65 Kg 143 lb	50 l 13.2 gal	100 mm	135 mm	950 mm	1200 mm	360 mm	2800 3360	Allowed
MISTRAL 150	69 Kg 152 lb	60 l 15.9 gal	100 mm	135 mm	1250 mm	1500 mm	360 mm	2800 3360	Allowed

Disk legend:

	Continuous crown disc		Turbo continuous band disc
	Close sectors disc		Spaced sectors disc

4.2 Description of the machine components

1. **Machine structure:** metallic structure with the function of supporting the machine in its working position.
2. **Motor slide bar:** metallic support on which the motor carriage slides.
3. **Motor carriage :** carriage on which the motor is installed and moves in adherence to it, the carriage houses the abrasive disc that performs the cut and the guards dedicated to the protection of the operator. There is a handle on the carriage that the operator must use to pull the carriage.
4. **Water containment tank:** a tank that contains the water that is recirculated by a special pump for cooling the disc and the containment of dust generated during abrasion.
5. **Support surface:** surface on which the material rests to be cut.



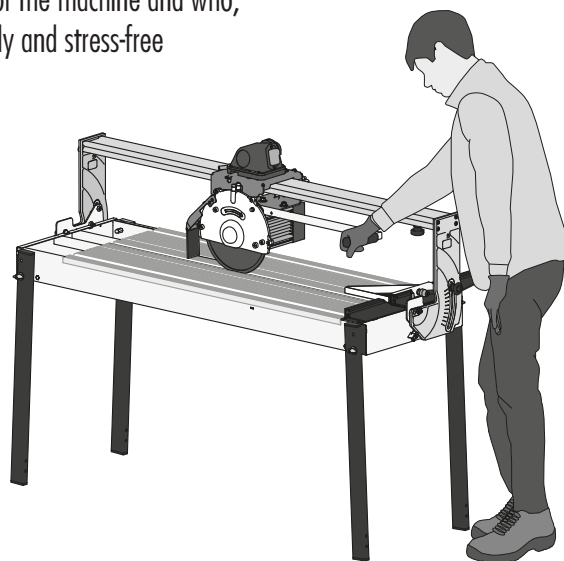
4.3 Operator position

The machine requires the use of a single operator, who must be positioned in front of the machine and who, grabbing the ergonomic handle with one hand, will be able to perform the cuts safely and stress-free keeping the material in position against the reference square stop.



CUTTING HAZARD.

THE MACHINE MUST BE SWITCHED ON ONLY WHEN THE OPERATOR IS IN THE WORKING POSITION. THE MACHINE MUST BE SWITCHED OFF AT THE END OF EACH CUT. IT IS ABSOLUTELY FORBIDDEN TO BRING YOUR HANDS NEAR THE ABRASIVE DISC WHEN IT IS IN OPERATION.



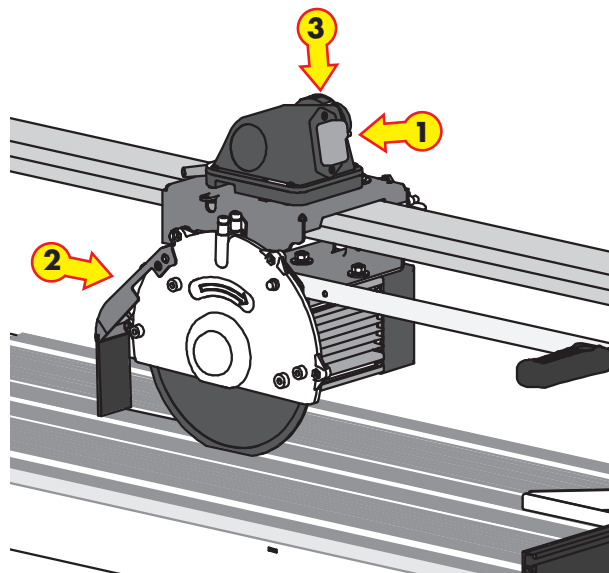
RISKS OF AN ERGONOMIC NATURE (MUSCULOSKELETAL DAMAGE).

THE USER OF THE MACHINE MUST EVALUATE THE OPERATOR'S WORKLOAD DURING THE LOADING OPERATIONS OF THE ELEMENTS TO BE CUT. IF NECESSARY REDUCE THE LIFTING DURATION / FREQUENCY / MASS TO BE LIFTED DURING THE OPERATIONAL TASK.

4.4 Safety devices

The machine has the following safety devices:

1. **ON/OFF switch:** Allows the machine to start and stop. In the presence of a potential hazard, the machine must be switched off using the red OFF button.
2. **Disc guard (abrasive tool):** Prevents water, debris due to cutting and any portions of the tool from reaching the operator. If there are brushes or rubber parts subject to wear, these must be replaced regularly.
3. **Plug:** An additional protective device is the plug of the power supply, which in case of danger must be disconnected immediately.



RAIMONDI S.P.A. WILL NOT BE HELD RESPONSIBLE FOR DAMAGE DUE TO EJECTION CAUSED BY POOR MAINTENANCE OF THE PROTECTION DEVICES, THEIR TAMPERING OR INCORRECT OPERATOR POSTURE (SEE "SECTION 4.3").

4.5 Noise and vibration

The machine has been designed and built in such a way as to reduce the noise of the machine at the source. It is evident that the acoustic pressure is variable depending on the type of disc used, its wear condition and the material to be cut; therefore, we have prepared a series of measurements using various types of disc and different materials.

The measurements carried out at the operator's station on a similar machine led to the following values:

Noise

Based on the measurements carried out with operational simulation, and applying the UNI EN ISO 11201 standard, the values found are:

L _{Aeq} values [dB(A)]	unladen	Porcelain stoneware	Granite/Natural stone	Brick
EXPLOIT - BOLT	74	92	90	87
MISTRAL	77	88	91	92

The measurement uncertainty has been determined in accordance with UNI EN ISO 1120 and is equal to 2 dB.

Vibrations

Based on the measurements, performed with operational simulation with 2 types of disc and on 3 different materials applying the UNI EN ISO 5349 standard, the values found are:

Values of $A(w)_{sum}$ [m/sec ²]	Porcelain stoneware	Granite/Natural stone	Brick
Close sector disc	1.94	2.61	1.63
Sector disc	1.84	2.20	1.93

The test documents and instrument certificates are deposited with Raimondi S.p.A. at the disposal of the supervisory authorities.

The analysis of the measurement uncertainty is reported in detail on the test documents. The uncertainty factors considered relevant are systematic errors due to the acquisition system (less than 4%) and errors due to random fluctuations in the physical parameters involved, calculated with a coefficient of variation on at least 3 measures.

5. PRODUCT USAGE

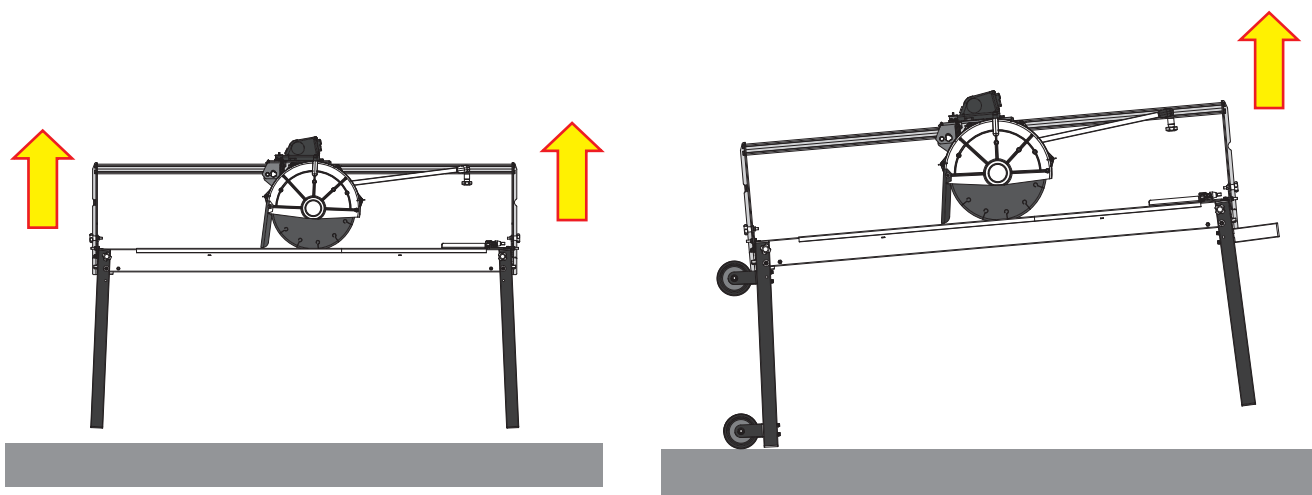
5.1 Packaging handling

Transport by forklift truck with adequate capacity (>200 Kg), inserting the forks in the appropriate seats of the pallet.

5.2 Machine handling



BEFORE EACH MOVEMENT CHECK THAT THE MOTOR UNIT IS CORRECTLY SECURED.



For manual handling, if allowed by local regulations based on the weight of the machine, at least two people are required.

For lifting, grasp the front and rear sides of the machine.

On some models there are standard wheels or available as optional, in this case lift the machine from the front side until the wheels touch the ground.

Lifting devices may be used to move the machine, for this purpose:

- The machine must be lifted using special harnesses that must pass around the body of the machine embracing the tank and the cutting surface;
- Lifting must be carried out with vehicles and equipment with an adequate capacity and in good condition;
- Lifting and transport of the lifted machine must take place slowly, in a controlled manner and without impulses.

5.3 Assembly of the machine

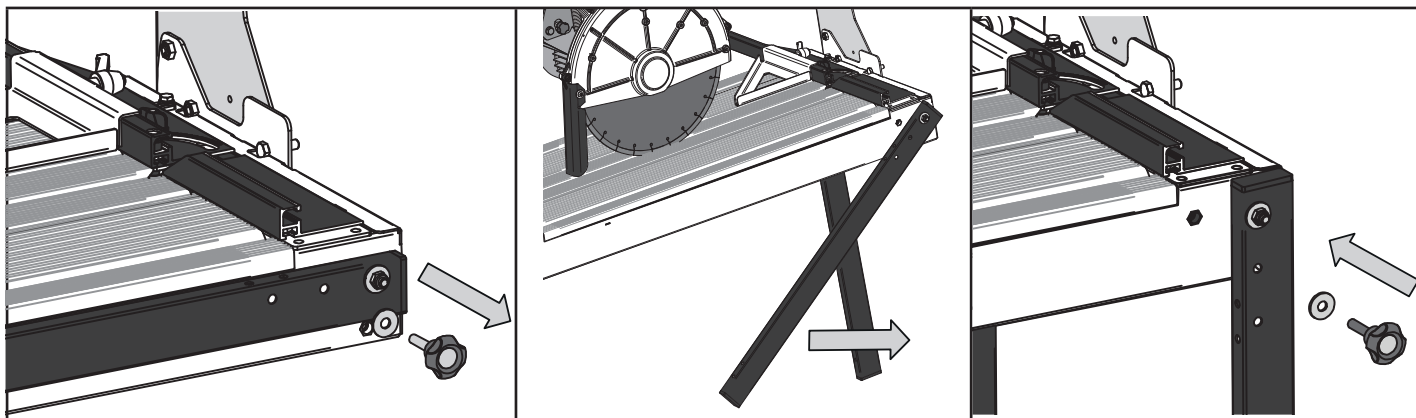


AT LEAST TWO PEOPLE ARE REQUIRED FOR THESE OPERATIONS.

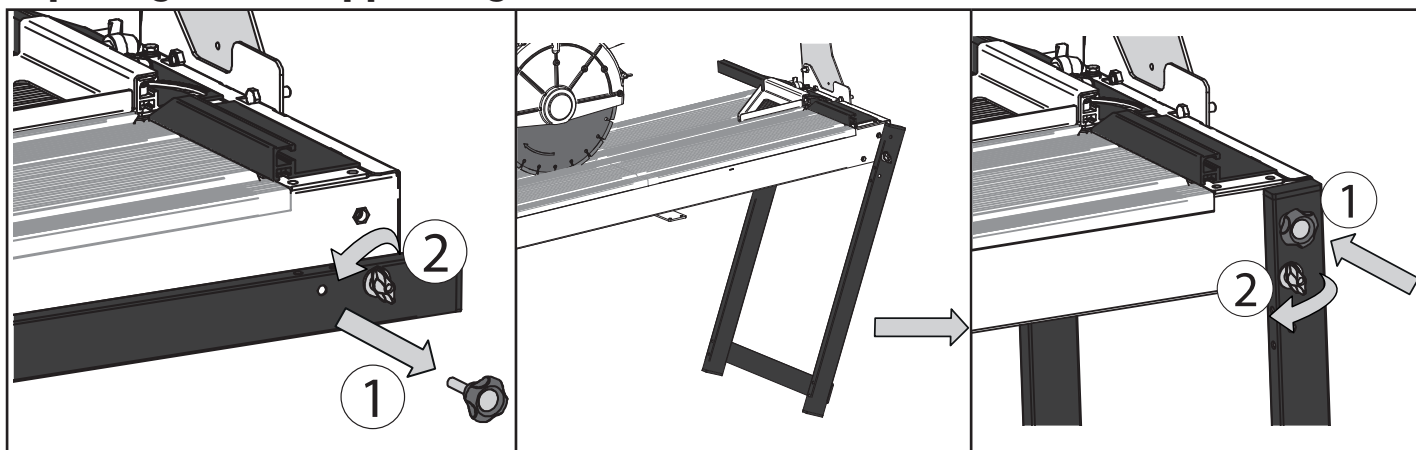


BEFORE EACH MOVEMENT CHECK THAT THE MOTOR UNIT IS CORRECTLY SECURED.

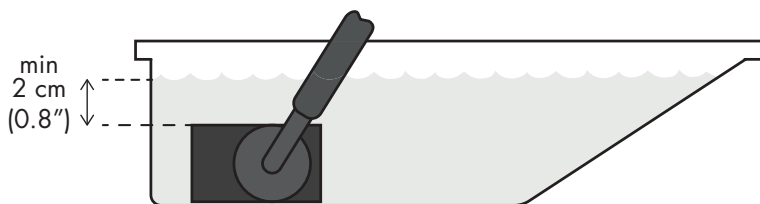
Opening of the support legs for the 70/90 models



Opening of the support legs for the 120/150 models



5.4 Tank filling



After plugging the drain hole with the drain plug, pour cold, clean water into the tank until it reaches a level that covers the recirculation pump by 2 cm (25/32").

5.5 Power supply

For the correct operation of the machine and the safety of the operators, the user is obliged to:



ENSURE THAT THE SYSTEM TO WHICH THE MACHINE IS CONNECTED IS EQUIPPED WITH AN ADEQUATE AND EFFICIENT EQUIPOTENTIAL PROTECTION CIRCUIT (GROUND);



PROTECTION AGAINST INSULATION FAULTS MUST BE PART OF THE MACHINE'S POWER SUPPLY SYSTEM, THEREFORE MAKE SURE THAT THE SOCKET OF THE SYSTEM TO WHICH THE MACHINE IS CONNECTED IS PROTECTED BY A DEDICATED CIRCUIT BREAKER WITH AN INTERVENTION CURRENT NOT EXCEEDING 30 mA;

- make sure that the system corresponds in voltage and frequency to the data shown on the machine plate;
- make sure that the section of the extension cables, the type of socket and the system to which the machine is connected must allow the maximum current to pass;
- make sure of the efficiency of the differential switch with periodic checks using the appropriate test button;
- make sure that the connection of the machine to the system complies with local standards and regulations, which may vary depending on the region/state of installation;
- If in doubt, contact the appropriate technical personnel before connecting the machine.

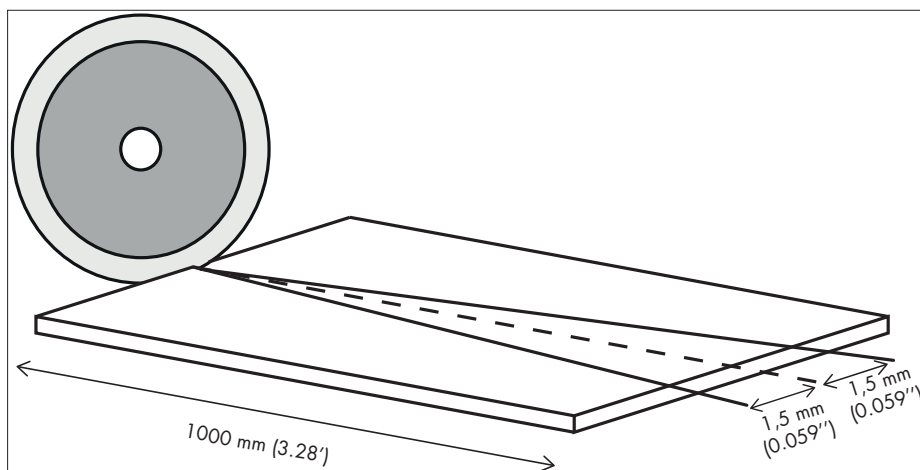
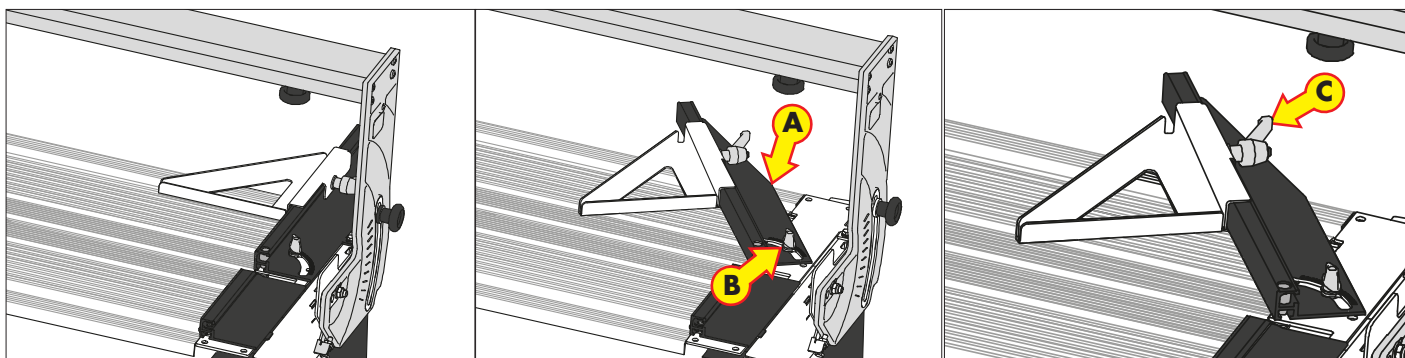
The use of extensions that are too long or not completely unwound and the use of current generators can give rise to the following disadvantages:

1. Slow start of the motor with intervention of the protections;
2. Engine overheating and damage;
3. Damage to the switch-on/off device.

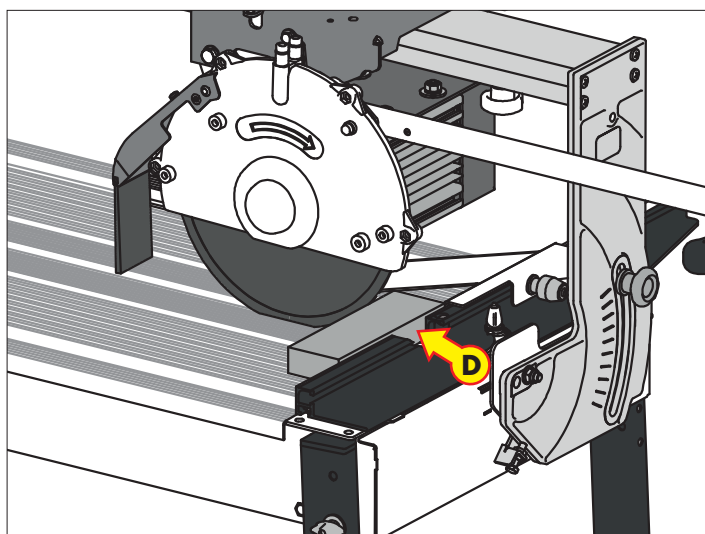
6. EXECUTION OF CUTS

6.1 Positioning of the square stops

Rotate the square holder (A) to the desired inclination and secure it by acting on the lock (B).
Bring the triangular square to the desired cutting distance and secure it by acting on the lock (C).



A DEVIATION OF $\pm 1.5\text{mm}$ (0.059")
OVER A DISTANCE OF ONE METRE
IS WITHIN THE TOLERANCE OF THE
MACHINE.



For a successful cutting, the disc must be
suitable for the material to be cut and
correctly dressed.

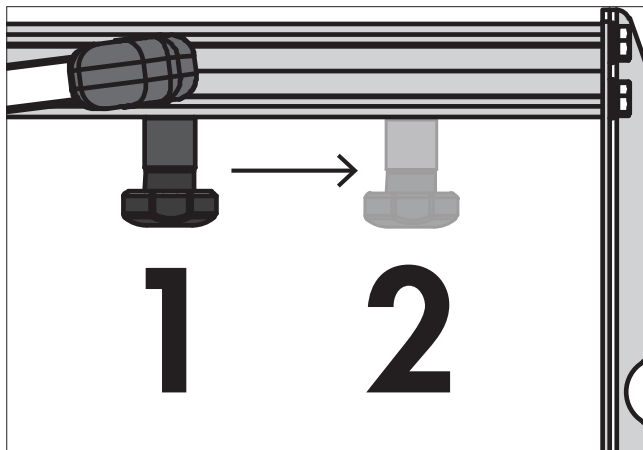
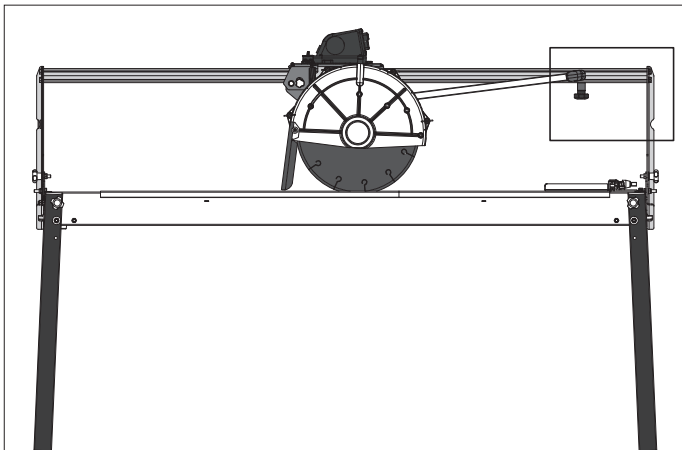
For proper dressing, perform repeated cuts
on the disc-dressing stone (D).

6.2 Preliminary adjustments

Depending on the model there may be adjustments to be made before cutting.

FEED LIMIT SWITCH ADJUSTMENT

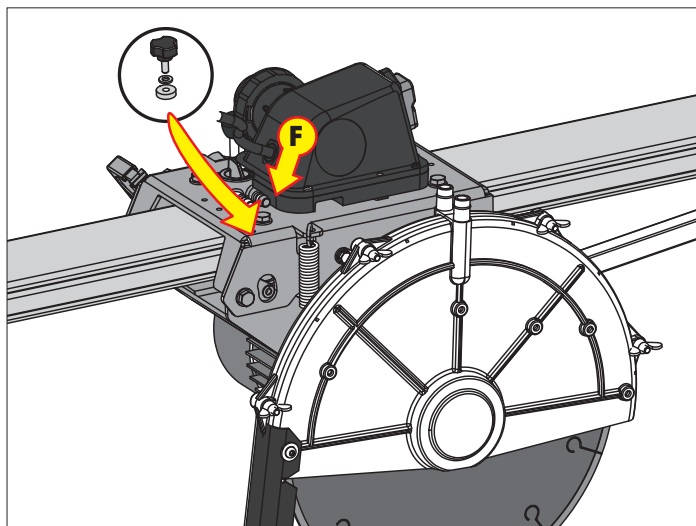
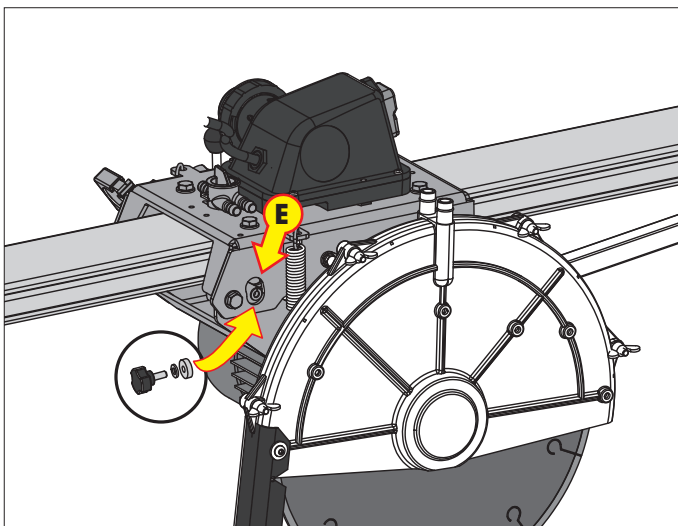
Some models are equipped with a stop under the slide bar to limit the stroke of the motor unit. In fact, in machines, where present, the knob can be adjusted along the bar for this purpose and to prevent the disc from accidentally striking parts of the machine.



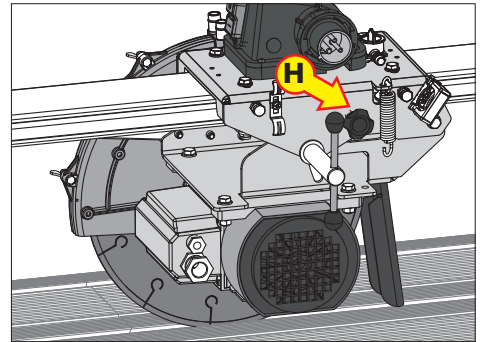
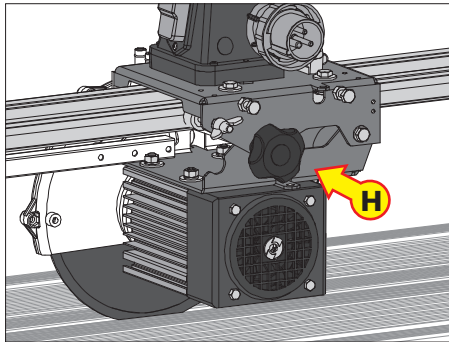
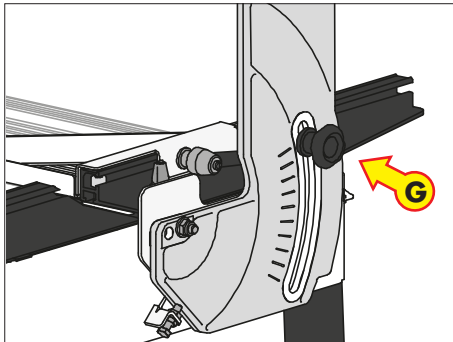
DISC HEIGHT LIMIT SWITCH EXCLUSION

On the **MISTRAL** series there is a limit switch for the minimum height of the cutting disc with respect to the machine support surface in the event that a 350 mm diameter disc is used. This prevents the disc striking the machine structure.

The limit switch can be excluded if a disc with a diameter of 300mm is used, then unscrew the knob from the hole (E) to the left of the disc cover together with the split washer and the spacer and place them in the hole (F) above the motor carriage.



6.3 Cutting



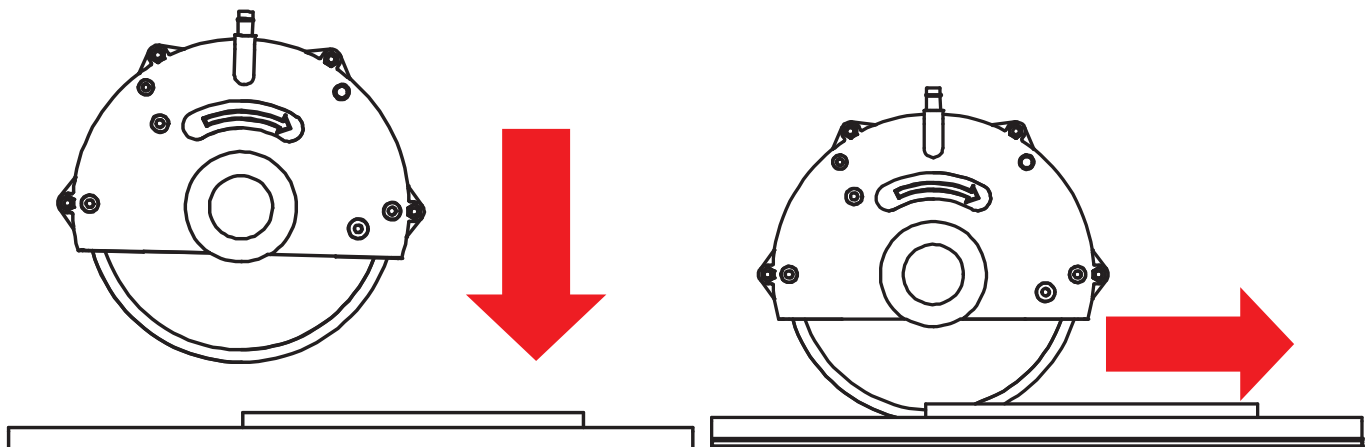
BEFORE MAKING CUTS MAKE SURE THAT THE TILT LOCKING HANDLES OR KNOBS (G) AND DISC LIFT (H) ARE SCREWED FULLY AND THAT THE ABRASIVE DISC DOES NOT STRIKE PARTS OF THE MACHINE



IF PRESENT, ADJUST THE SPLASH GUARDS SO AS TO AVOID AS MUCH AS POSSIBLE THE PROJECTION OF WATER SPLASHES.

Press the start switch, wait for the cooling water to escape from the abrasive disc.

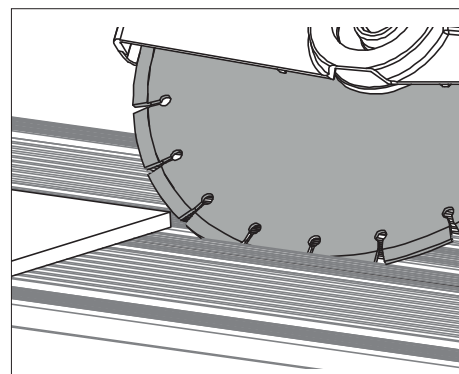
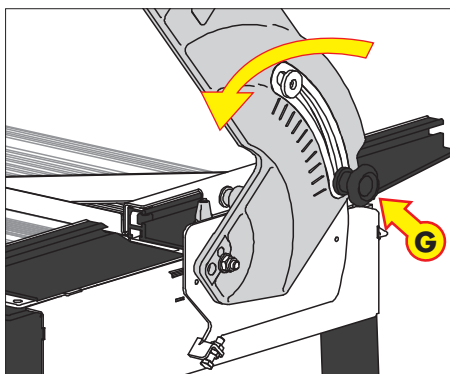
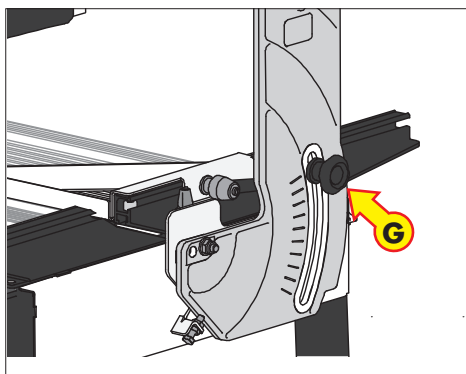
Proceed with cutting by slowly bringing the disc closer to the material, continue cutting while maintaining a constant feed rate proportional to the hardness of the material, slow down the feed rate near the end of cutting and switch off the machine.



The maximum cutting length is obtained by starting the cut by entering the material by lowering the disc, tightening the handle or locking knob raised (H) and starting the feed.

Some models can be equipped as standard or as optional with the hand wheel feeder, this is particularly useful to reduce the work effort and make the feeding speed more constant. If the hand wheel is present, rotate it manually to advance the cutting unit.

6.4 Jolly 45° cut



BEFORE MAKING CUTS MAKE SURE THAT THE TILT LOCKING HANDLES OR KNOBS **(G)** AND DISC LIFT **(H)** ARE SCREWED FULLY AND THAT THE ABRASIVE DISC DOES NOT STRIKE PARTS OF THE MACHINE



IF PRESENT, ADJUST THE SPLASH GUARDS SO AS TO AVOID AS MUCH AS POSSIBLE THE PROJECTION OF WATER SPLASHES.

Move the disc to the maximum height position, loosen the tilt locking handles **(G)**, tilt the slide bar up to the limit switch and lock it by fully tightening the handles **(G)**.

Lower the disc so that the diamond band is below the work surface and lock it by fully tightening the handle **(H)**.

Position the tile to be chamfered on the work surface with the face facing upwards and resting on the square holder **(A)**.

The position of the material must be adjusted so as to obtain the desired chamfering depth.

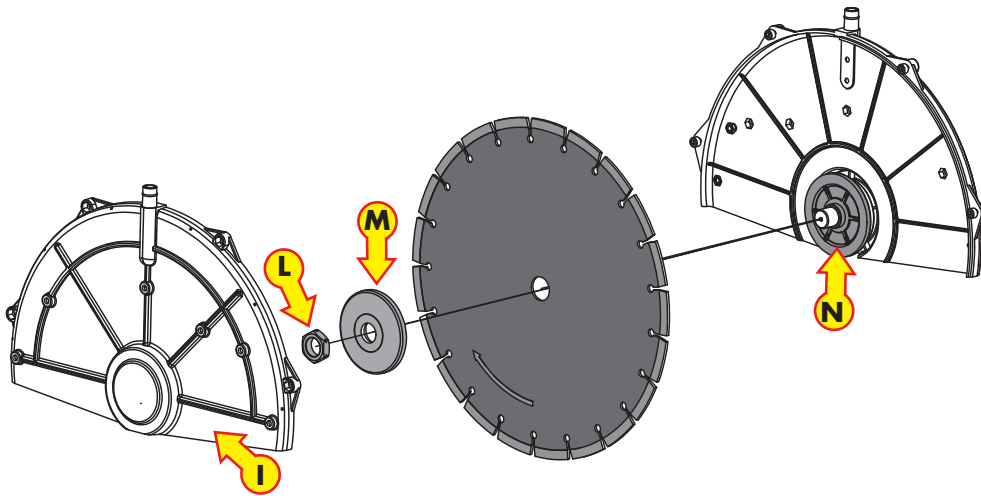
Make sure that the sides of the material to be machined are perfectly square with each other.

For best results it is recommended to use the optional counter-square to keep the material to be processed in place.

During chamfering, proceed at low speed and slow down at the beginning and end of machining.

7. MAINTENANCE

7.1 Disk replacement



! FOR THIS OPERATION, MAKE SURE THAT THE MACHINE IS DISCONNECTED FROM THE MAINS.

Move the disc to the maximum raised position, remove the splash guard (if present) and then remove the disc guard (I), then unscrew the disc locknut (L) in a direction opposed to the rotation of the disc and remove the flange (M).

Replace the abrasive disc respecting the direction of rotation indicated on the machine.

Reposition the flange (M), fully tighten the disc locknut (L), correctly reassemble the guard (I) and reset all safety devices.

For correct operation it is advisable, once the disc has been disassembled, to remove the disc-holder flange (N) and grease the bearing below.

7.2 Cleaning the slide bar

Keep the slide bar clean from dust accumulations due to work performed with the machine.

Clean the bar with a damp cloth especially on the short sides of the bar on whose surface the wheels of the motor unit slide.

! DO NOT LUBRICATE THE SLIDE BAR WITH GREASE OR OILS

7.3 Emptying and cleaning the tank

To clean the tank, place a bucket at the discharge hole and remove the support surfaces.

Remove the cap to drain dirty water and wash with plenty of water.

After cleaning, reposition the cap and the support surfaces.

On some models it is possible to remove the plastic tank for a more accurate cleaning.

! THE DISPOSAL OF WATER FROM THE WASTE CONTAINED WITHIN THE TANK MUST TAKE PLACE IN COMPLIANCE WITH THE LEGAL PROVISIONS IN FORCE IN THE COUNTRY OF USE.

8. TROUBLESHOOTING

NEVER ATTEMPT RISKY SOLUTIONS AND ALWAYS RESORT TO PROFESSIONAL TECHNICIANS FOR TROUBLESHOOTING



BE SURE TO WEAR ALL THE PPE PROVIDED FOR IN CHAPTER 3.5

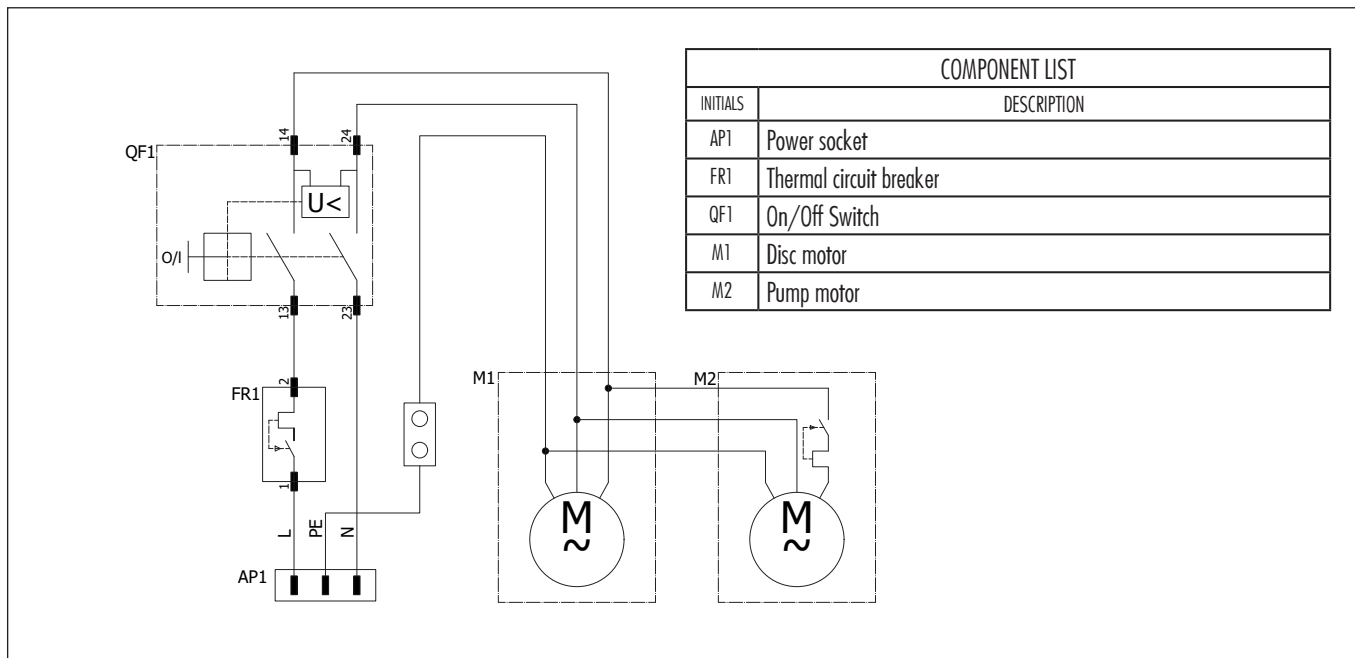
If the engine does not run, check:	1. presence of voltage in the socket; 2. correct plug-to-socket insertion; 3. wait 5 minutes for the motor protection to reset if necessary.
If the disc does not turn but the motor does check the:	1. correct tightening of the disc; 2. transmission belt status (where present).
If the disc rotates slowly or has no force, check that:	1. the system, extension cord and socket are correctly dimensioned; 2. there is no abnormal friction in the transmission or bearings.
If the machine switches off during work, check that:	1. the disc is in good condition and suitable for the material processed; 2. the feed speed is commensurate with the hardness of the processed material.
If no water reaches the disc, check that:	1. the tank is full of clean water and the pump is completely submerged; 2. there are no obstructions or restrictions in the tube; 3. the pump is clean and free of debris.
If the cut is not satisfactory, check that:	1. the disc is in good condition and suitable for the material processed; 2. the feed speed is commensurate with the hardness of the processed material; 3. there is no play in the motor unit, otherwise adjust the wheels; 4. the adjustment of the squares is correct, otherwise adjust the squares.

If the proposed solutions are not effective, contact the Technical Support.

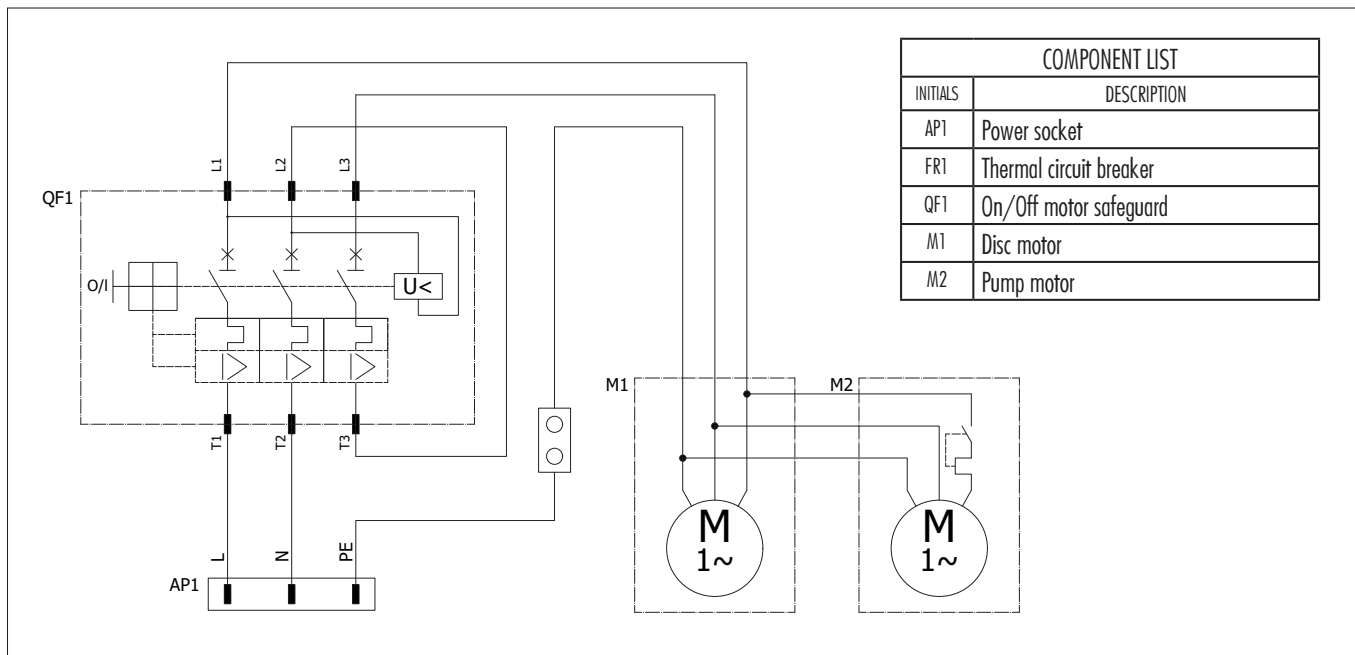
9. WIRING DIAGRAM

9.1 Single-phase machines

The following wiring diagram is valid for the machine in the 230 Volt (50 /60 Hz) version and for EXPLOIT 110 Volt version.



The following wiring diagram is valid for machines MISTRAL in the 230 Volt (60 Hz) and BOLT and MISTRAL 110 Volt versions.



For further technical data refer to the plate values shown on each component of the machine.

10. SPARE PARTS

10.1 Exploit

ELEM. COD.	ITEM	DESCRIPTION
1	114TZ08D	SLIDE BAR LL.896 EXPLOIT 70/15
1	114TZ09D	SLIDE BAR LL.1126 EXPLOIT 90
2	156NL09D	SILVER AN.AL. GRILLE LL600MM(PIKUS75/EXP70 ADV)
2	156NL15D	SILVER AL. GRILLE LL850MM ZOE/ PIK85/105ADV/SMS100
3	191AE10D	LEFT FRONT SUPPORT BRACKET 195MM BOLT
4	191SQ04A1	RIGHT TRIANGULAR SQUARE RAL9010 SAWS 2015
4/1	191TL07D	RIGHT TRIANGULAR SQUARE
4/2	900CH8X12	WRENCH 8X12 M6
4/3	305MR03C	ADJUSTABLE HANDLE 6X15
5	202FS07D	BRACKET ADJUSTMENT DEVICE Z.B. BOLT
6	240	IMMERSION PUMP 13W 230V 50HZ
6	240110	IMMERSION PUMP 120V50/60HZ 25W EXP/S99/ZOE
6	240422	IMMERSION PUMP 230V.50/60HZ 15W
7	251TZ01D	AL. COLUMN PROF.70X28 (EXPLOIT)
8	263PE01A	SPLASHGUARD WITH PIKUS EXPLOIT TRIM
9	305GF01C	FEMALE BLACK PL WING NUT M8
10	305PM23C	MALE KNOB D.40 M8X35 4 LOBES
11	311SI15A	LEG WITH PLUGS X BOLT
12	314AN02D	ANTENNA SPRING F3.5 LL180 ZB (CORRUGATED PIPE D.32)
13	320PG04C	BRIDGE SHEATH PRESS
14	322CN03C	RUBBER CONICAL CAP D.45XH45
15	325VP46D	FRAME TANK R.9010 EXPLOIT 70/2015
15	325VP11D	FRAME TANK R.9010 CUT LENGTH 900
16	393	MOT.UNIT EXPLOIT 70/90 (2015)
16/1	263PE01A	SPLASHGUARD WITH TRIM
16/2	179CC200E	DISC DIAM D.200 F25.4 CONTINUOUS RIM
16/3	309CV02A	CONCAVE PULLEY WITH 2 BEARINGS
16/4	287	CONDENSER
16/5	235ER01A	STARTER EXPLOIT ADV RAI 230V 50/60HZ TR.06A
16/5	235ER02A	STARTER 110V T1 2A SP.INC.BLUE RAI

ELEM. COD.	ITEM	DESCRIPTION
		EXPLOIT ADV
16/6	297IN40D	MOT.O.65KW 230V 50/60HZ M63R EXPLOIT RAI
16/6	297IN42D	MOT.O.65KW 115V 50/60HZ M63R EXPLOIT RAI
16/6	297IN43D	MOT.O.9KW 1.2HP 230V 50/60HZ EXPL MONT.
17	420LETTOR	DEGREES/SQUARE INDICATOR PL.RED
18	903MATCC	SERIAL NUMBER ALUMINIUM DISC SAWS CONT RIM
19	903MMPIK	ROD MM/POL.(2 PCS.) ADV BRIDGE SAWS
20	191GE06D	SLOTTED SQUARE GUIDE LL 400MM BOLT
21	393NKITCOR	KIT EXPLOIT KIT 2015
22	305PM19C	MALE KNOB D.40 M8X25 4 LOBES

CHAPTER 10

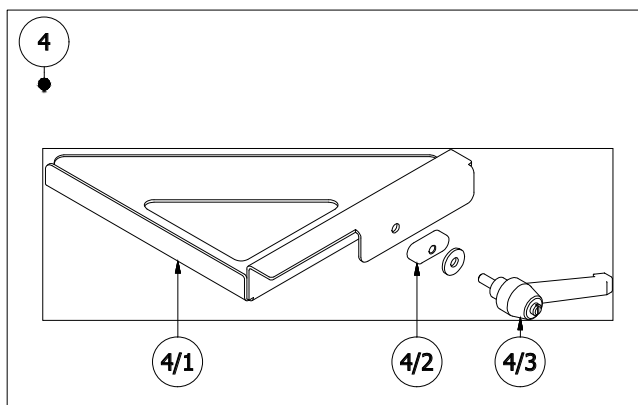
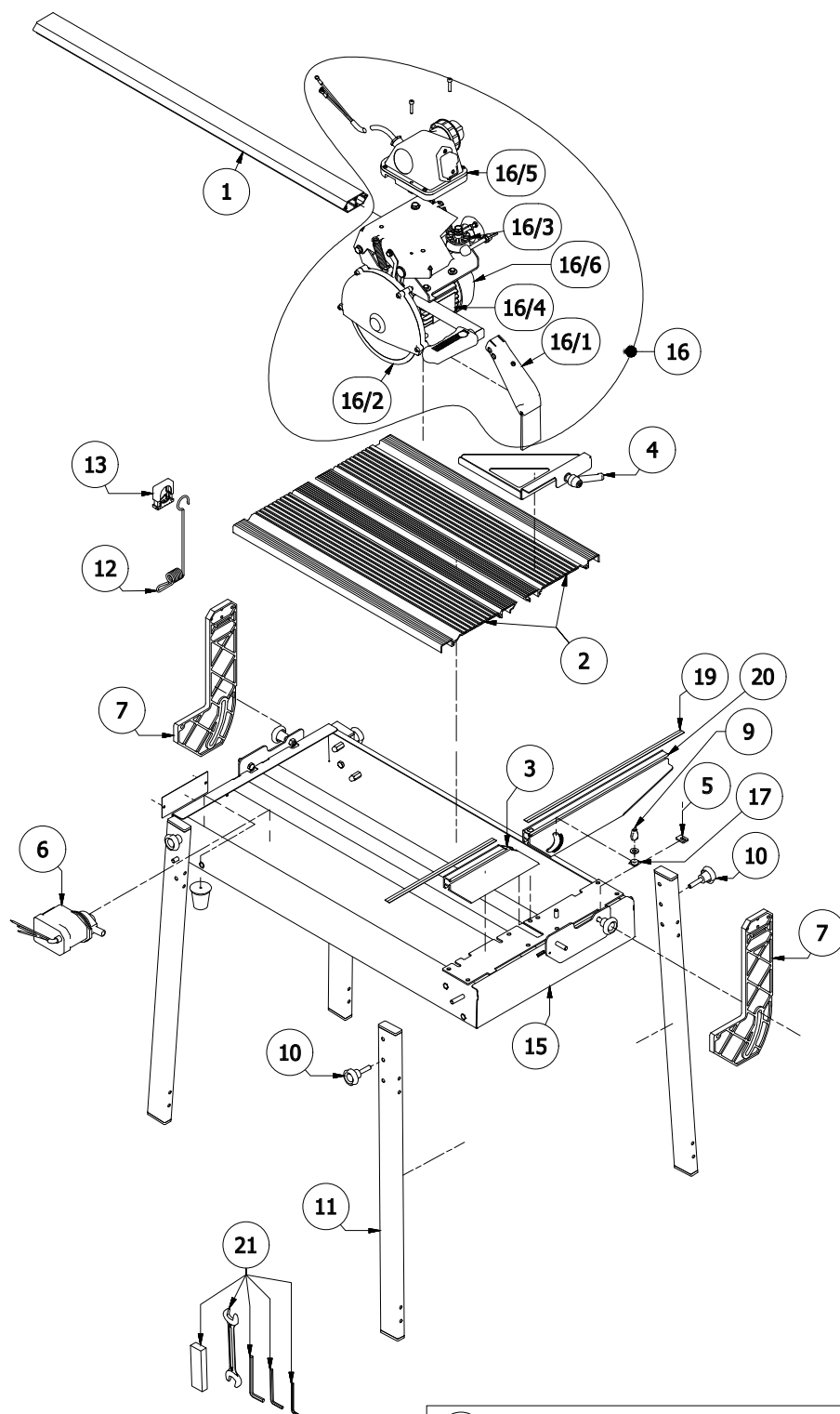
Wiring diagram



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10.2 Bolt

ELEM. COD. ITEM	DESCRIPTION
1 114RE22D	SLIDE BAR LL1428 BOLT 120
1 114RE23D	SLIDE BAR LL1728 BOLT 150
1 114RE24D	SLIDE BAR LL1128 BOLT 90
2 154SE03A	HANDLE WITH KNOB BOLT 120
2 154SE05A1	HANDLE WITH KNOB BOLT 90
2 154SE21A	HANDLE WITH KNOB BOLT 150
3 156NL09D	GRILLE LL.600MM (BOLT 150)
3 156NL15D1	SILVER AL. GRILLE LL.1120MM (BOLT 120)
3 156NL15D	SILVER AL. GRILLE LL.850MM (BOLT 90-150)
4 179SET250BE	DISC DIAM. Ø250 F25.4 PORCELAIN SECT.SP.
5 191AE10D	LEFT FRONT SUPPORT BRACKET
6 191GE06D	SQUARE GUIDE
7 191SQ04A1	RIGHT TRIANGULAR SQUARE WITH HANDLE
7.1 191TL07D	RIGHT TRIANGULAR SQUARE
7.2 900CH8X12	WRENCH 8X12 M6
7.3 305MR03C	6X15 ADJUSTABLE HANDLE
8 202FS07D	BRACKET ADJUSTMENT DEVICE
9 225GM	MOTOR UNIT BOLT NO DISC Ø250
9.1 234MT01A	CIRCUIT BREAKER MICRO SWITCH 230V 15A
9.1 234MT04A	CIRCUIT BREAKER MICRO SWITCH 115V 20A
9.2 309CS01A	PULLEY WITH BEARINGS
9.3 235PR01A	230V T1 2A STARTER
9.3 235ZW04A6ORIC	115V / 60Hz STARTER
9.3 235ZW03ARIC	110V / 50Hz STARTER
9.4 297IN91D	FLAT MOTOR 1.1KW 1.5HP 230V-50Hz
9.4 297IN91D1	FLAT MOTOR 1.1KW 1.5HP 230V-60Hz
9.4 297IN91D2	FLAT MOTOR 1.1KW 1.5HP 115V-60Hz
9.4 297IN91D3	FLAT MOTOR 1.1KW 1.5HP 115V-50Hz
9.5 2875001C	CAPACITOR 100MF (110V)
9.5 2873001C	CAPACITOR 25MF (230V)
10 240	IMMERSION PUMP 13W 230V 50Hz (BOLT 90-120)
10 240110	IMMERSION PUMP 25W 120V 50/60Hz (BOLT 90-120)
10 240422	IMMERSION PUMP 15W 230V 50/60Hz (BOLT 90)
10 240JET230V50H	230V 50Hz IMMERSION PUMP (BOLT

ELEM. COD. ITEM	DESCRIPTION
	150)
10 240JET230V60H	230V 60Hz IMMERSION PUMP (BOLT 120-150)
10 240JET110V50H	110V 50Hz IMMERSION PUMP (BOLT 120-150)
10 240JET110V60H	110V 60Hz IMMERSION PUMP (BOLT 120-150)
11 251RE05D	ALUMINIUM COLUMN
12 262C005D1	DISC GUARD WHITE CLOCKWISE ROTATION
13 263PE01A	SPLASHGUARD WITH TRIM
14 264PV04C	MOBILE PLUG IP67 230V 50/60Hz BLUE
15 278CP09D	FLANGE TORQUE ØE88 C25.4
15 278CP04D1	FLANGE TORQUE ØE75 C15.8 - 110V60Hz
16 305GF01C	FEMALE RED PLASTIC WING NUT M8
17 305PF12C	FEMALE KNOB Ø40 M6 3 LOBES
18 305PM19C	MALE KNOB Ø40 M8X25 4 LOBES
19 305PM23C	MALE KNOB Ø40 M8X35 4 LOBES
20 310BC15D	BUSHING ØE22 Øi8 H22
21 311SI15A	LEG WITH CAPS
22 311TV01D	BLACK CROSSBAR BOLT/MISTRAL 120/150
23 314AN02D	ANTENNA SPRING
24 322CN03C	RUBBER CONICAL CAP Ø45XH45
25 325VP11D	900MM FRAME TANK
25 325VP12D	1200MM FRAME TANK
25 325VP13D	1500MM FRAME TANK
26 420LETTOR	DEGREES/SQUARE INDICATOR PL.RED
27 225KITCOR	BOLT EQUIPMENT KIT
28 324DE01C	3/8"3-WAY DIVERTER (ZOE)
29 324PG04C	MALE/MALE PLASTIC RUBBER HOLDER Ø11/19
30 903MMPIK	ROD MM/POL.(2 PCS.) ADV BRIDGE SAWS

CHAPTER 10

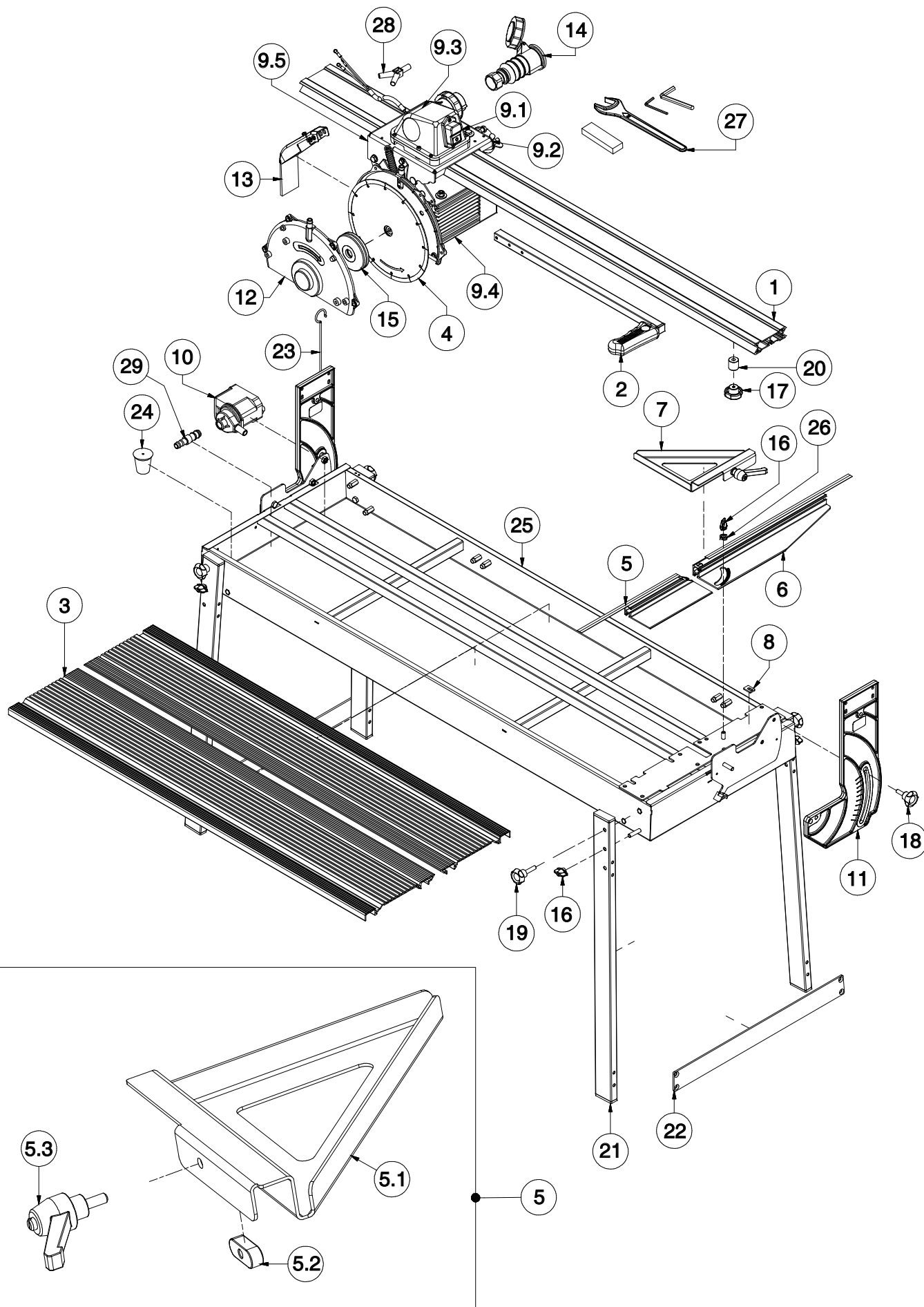
Spare parts



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10.3 Mistral

ELEM. COD.	ITEM	DESCRIPTION
1	114RE22D1	SLIDE BAR LL. 1418 MISTRAL 120
1	114RE23D1	SLIDE BAR LL. 1718 MISTRAL 150
1	114RE24D1	SLIDE BAR LL. 1118 MISTRAL 90
2	154SE03A	HANDLE WITH KNOB MISTRAL 120
2	154SE05A1	HANDLE WITH KNOB MISTRAL 90
2	154SE21A	HANDLE WITH KNOB MISTRAL 150
3	156NL15D	SILVER AL. GRILLE LL. 850MM MISTRAL 90-150
3	156NL15D1	SILVER AL. GRILLE LL. 1120MM MISTRAL 120
3	156NL09D	SILVER AL. GRILLE LL. 600MM MISTRAL 150
4	179SET350B	DISC DIAM. Ø350 F25.4/30 PORCELAIN SECT.
5	191AE10D	LEFT FRONT SUPPORT BRACKET 195MM BOLT
6	191GE06D	SLOTTED SQUARE GUIDE LL 400MM BOLT
7	191SQ04A1	RIGHT TRIANGULAR SQUARE WITH HANDLE
7.1	191TL07D1	RIGHT TRIANGULAR SQUARE
7.2	900CH8X12	WRENCH 8X12X30 M6
7.3	305MR03C	MALE ADJUSTABLE HANDLE M6X15
8	202FS07D	BRACKET ADJUSTMENT DEVICE Z.B. BOLT
9	224GM	MOT.GR.MISTRAL NO DISC Ø250
9.1	235ZS01A	STARTER 230V T 15A
9.1	235ZW03A6ORIC	STARTER 110V / 60Hz
9.1	235ZW02A6ORIC	STARTER 230V / 60Hz
9.2	297IN15D1	MOTOR 2.2KW 230V 50Hz
9.2	297IN15D2	MOTOR 2.2KW 220/240V 60Hz
9.2	297IN15D4	MOTOR 1.5KW 115V 60Hz
9.2	297IN15D5	MOTOR 2.2KW 400V 50/60Hz
9.3	309CS01A	CONVEX PULLEY
10	224KITCOR	MISTRAL EQUIPMENT KIT
11	240	IMMERSION PUMP 230V 50HZ MISTRAL 90-120
11	240110	IMMERSION PUMP 120V 50/60Hz MISTRAL 90-120
11	240422	IMMERSION PUMP 230V 50/60Hz MISTRAL 90
11	240JET230V50H	IMMERSION PUMP 230V 50Hz MISTRAL 150
11	240JET230V60H	IMMERSION PUMP 230V 60Hz MISTRAL

ELEM. COD.	ITEM	DESCRIPTION
		120-150
11	240JET110V50H	IMMERSION PUMP 110V 50Hz MISTRAL 120-150
11	240JET110V60H	IMMERSION PUMP 110V 60Hz MISTRAL 120-150
12	251DX05D	RIGHT COLUMN ZB MISTRAL
13	251SX05D	LEFT COLUMN ZB MISTRAL
14	262C011D1	WHITE DISC GUARD R9010 MISTRAL RAI
15	263GM03D	RUBBER SPLASHGUARD
16	264PV04C	MOBILE PLUG IP67 230V 50/60HZ BLUE
17	278CP09D	PAIR FLANGES ØE88 C25.4 SMS
18	305GF01C	FEMALE RED PLASTIC WING NUT M8
19	305PF12C	FEMALE KNOB Ø40 M6 3 LOBES (MONTOLIT)
20	305PM19C	MALE KNOB Ø40 M8X25 4 LOBES
21	305PM23C	MALE KNOB Ø40 M8X35 4 LOBES
22	310BC15D	BUSHING ØE22 Øi8 H22
23	311SI15A	LEG WITH PLUGS X BOLT
24	311TV01D	CROSSBAR VER. BLACK BOLT/MISTRAL 120/150
25	314AN02D	ANTENNA SPRING
26	318TU08C	PIPE Ø25X30 FLEX BLACK
27	322CN03C	RUBBER CONICAL CAP Ø45XH45
28	324RD01D	PL VALVE WITH 2-WAY DIVERTER
29	325VP11D	900MM FRAME TANK
29	325VP12D	1200MM FRAME TANK
29	325VP13D	1500MM FRAME TANK
30	420LETTOR	INDICATOR DEGREES/SQUARE PL.RED
31	902FA03C	BRIDGE CLAMP Ø16
32	903MMPIK	ROD MM/POL. (2 PCS.) ADV BRIDGE SAWS

CHAPTER 10

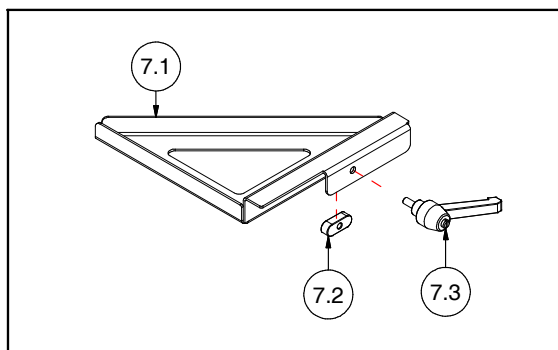
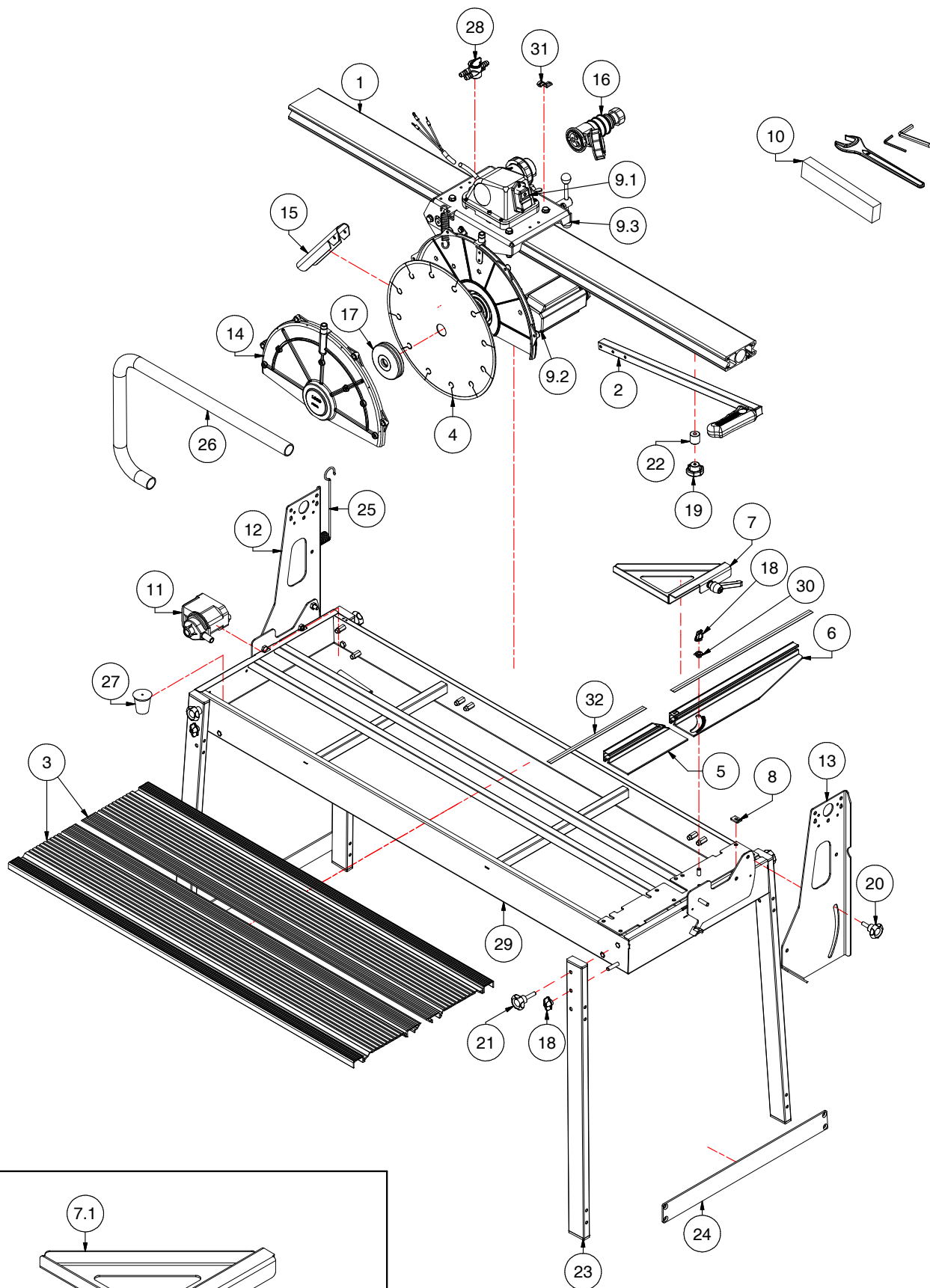
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