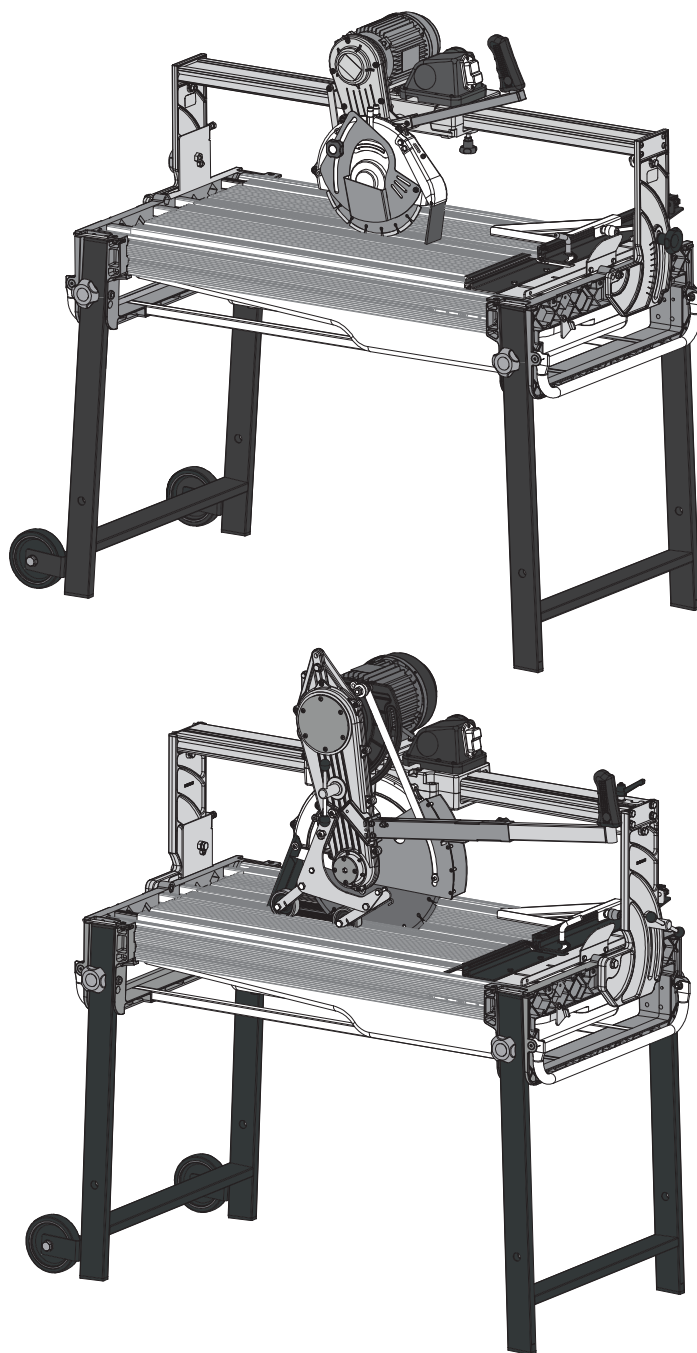




RAIMONDI

www.raimondispa.com



EN

PIKUS ADV - ZOE ADV

USE AND MAINTENANCE INSTRUCTION MANUAL

TRANSLATION OF ORIGINAL INSTRUCTIONS IN ITALIAN

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The images of the products are for illustrative purposes, therefore they may not be perfectly representative of the product characteristics.

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: PIKUS ADV - ZOE ADV

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 electrical equipment.

2.2 Responsibility

RAIMONDI S.p.A. however, is not responsible for malfunctions or generic failures caused by unauthorised use of the machine or by interventions and/or modifications carried out 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. **PIKUS ADV 130 - 425ADV**

Tipo
Type **masonry and tile bridge saw masonry and tile bridge saw**

Anno Year	2021	220/240V
Matr. Serial N	123456	50/60Hz
Peso Weight	5000Kg	2,2 Kw
		20A
		2860/3360rpm
		IP54







8 024648 1 072627



Via dei Tipografi 11, 41122 Modena, Italy - ph. +39 059 280888 - 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. FEATURES OF THE MACHINE

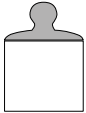
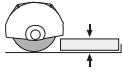
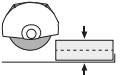
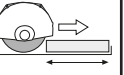
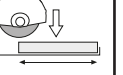
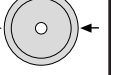
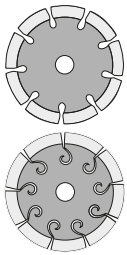
4.1 Performance

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.

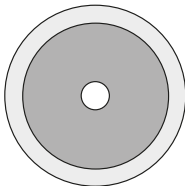
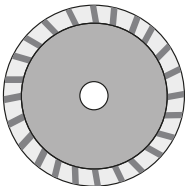
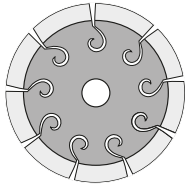
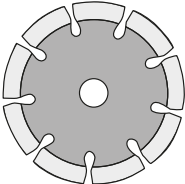
Depending on the machine model, the use of sector disks may be allowed or prohibited, refer to the following table and the information on the machine plate.



THE USE OF TOOLS OTHER THAN THOSE INDICATED IS PROHIBITED.

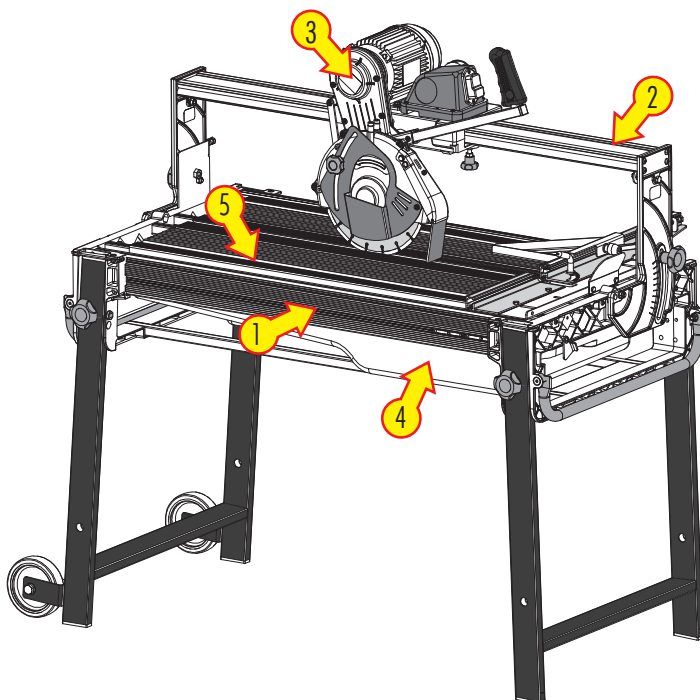
MACHINE MODEL								 rpm 50Hz/60Hz	
PIKUS 85 ADV	60 Kg 132 lb	38 lt 10 gal	80 mm	150 mm	670 mm	850 mm	250 mm	2800/3360	Allowed
PIKUS 105 ADV	64 Kg 141 lb	38 lt 10 gal	80 mm	150 mm	870 mm	1050 mm	250 mm	2800/3360	Allowed
PIKUS 130 ADV	78 Kg 172 lb	38 lt 10 gal	80 mm	150 mm	1120 mm	1300 mm	250 mm	2800/3360	Allowed
ZOE 85 ADV	80 Kg 176 lb	38 lt 10 gal	110 mm	235 mm	540 mm	850 mm	360 mm	2800/3360	Allowed
ZOE 105 ADV	84 Kg 185 lb	38 lt 10 gal	110 mm	235 mm	740 mm	1050 mm	360 mm	2800/3360	Allowed
ZOE 130 ADV	98 Kg 216 lb	38 lt 10 gal	110 mm	235 mm	1000 mm	1300 mm	360 mm	2800/3360	Allowed
ZOE 150 ADV	106 Kg 234 lb	38 lt 10 gal	110 mm	235 mm	1200 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.



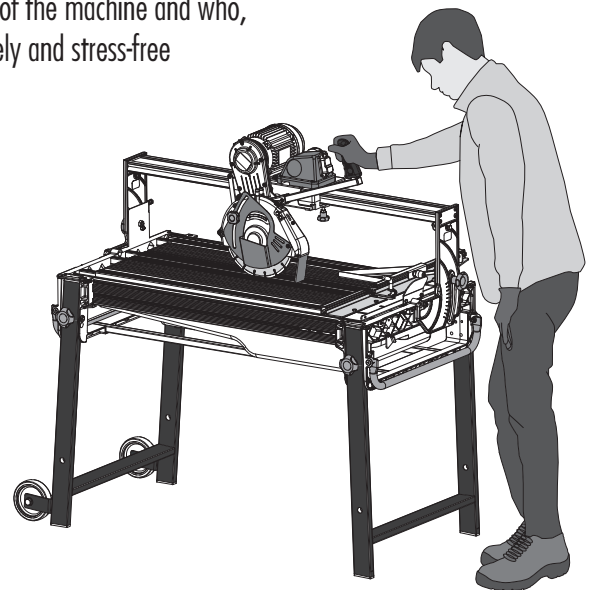
4.3 Operator position

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.



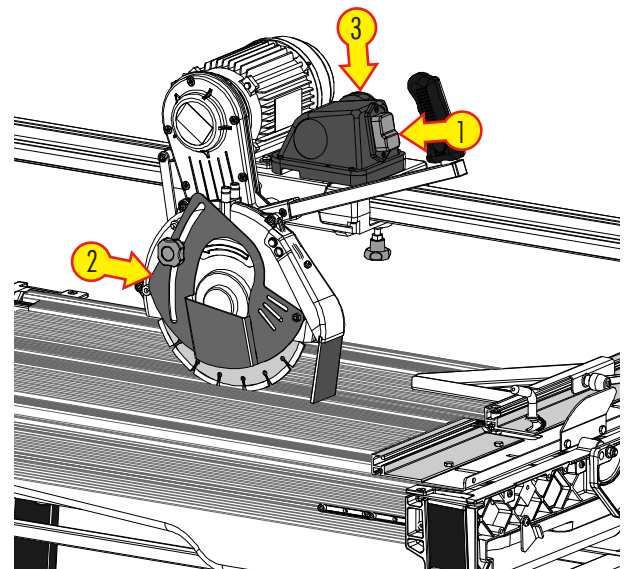
RISKS OF AN ERGONOMIC NATURE (MUSCULOSKELETAL DAMAGE).

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:

<i>L_{Aeq}</i> values [dB(A)]	unladen	Porcelain stoneware	Granite/Natural stone	Brick
PIKUS	74	92	90	87
ZOE	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 <i>A(w)_{sum}</i> [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

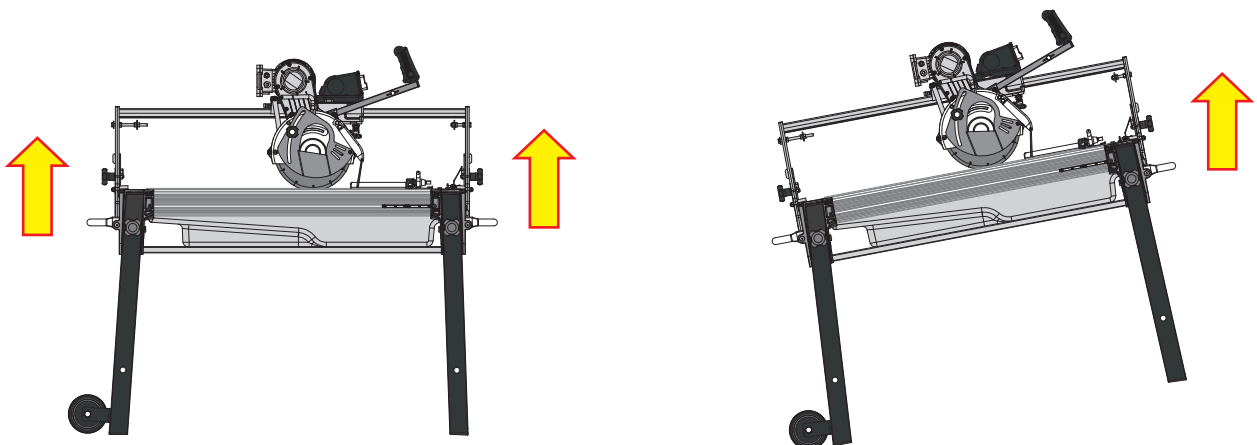
5.1 Packaging handling

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

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.

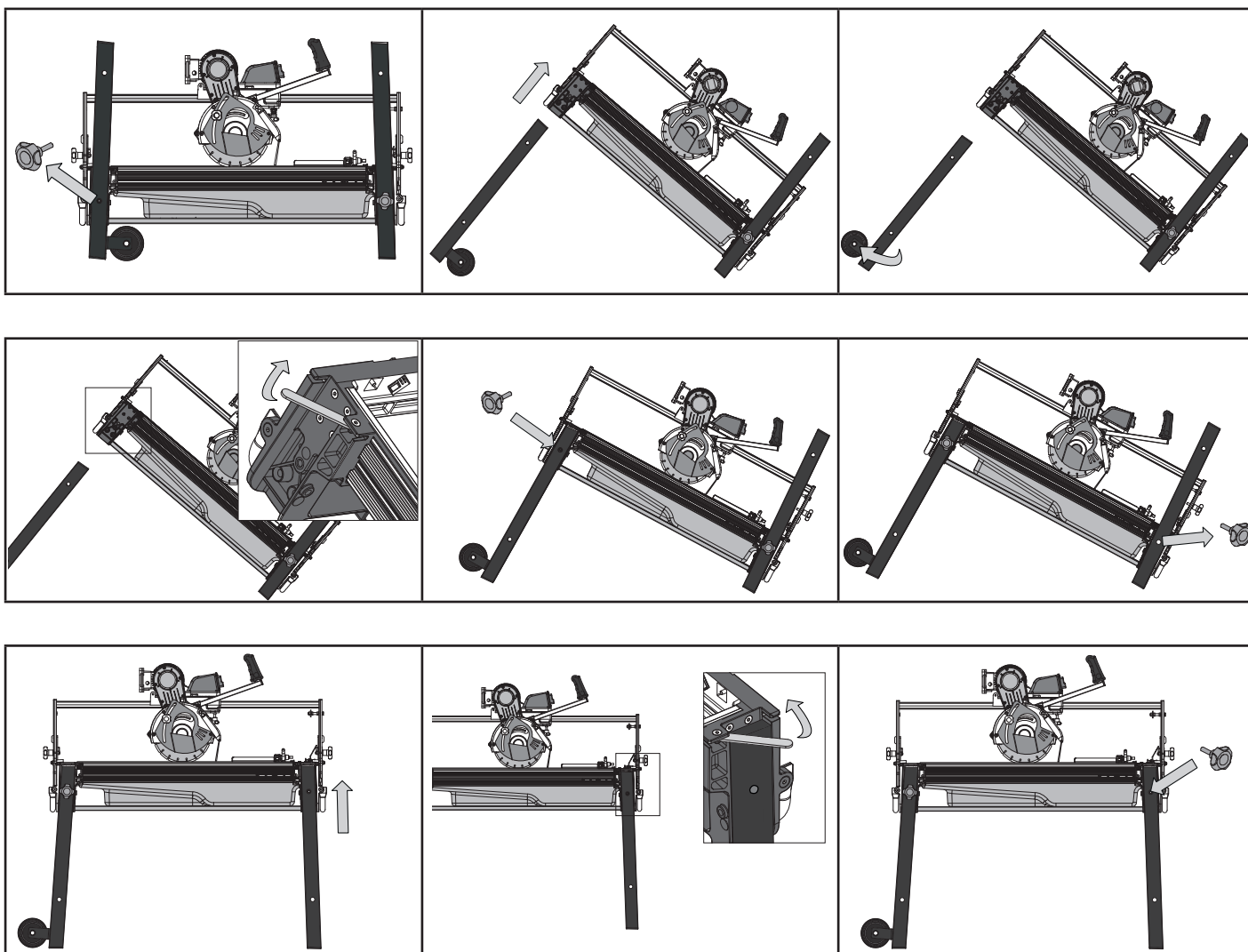
5.3 Assembly of the machine



AT LEAST TWO PEOPLE ARE REQUIRED FOR THESE OPERATIONS.



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



5.4 Tank filling



After closing the drain hole with the appropriate cap, pour cold and clean water into the tank until it reaches a level that exceeds 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.

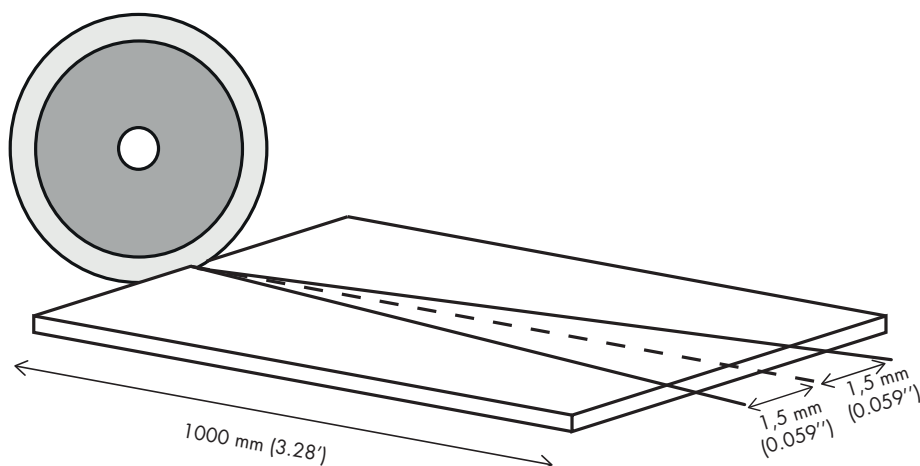
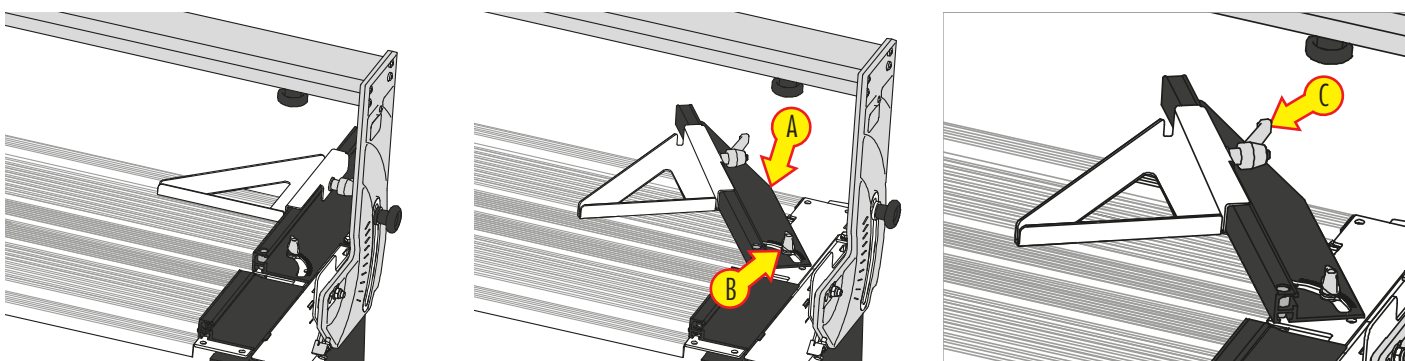
The use of extensions that are too long or not completely unwound and the use of current generators can give rise to the following disadvantages:

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

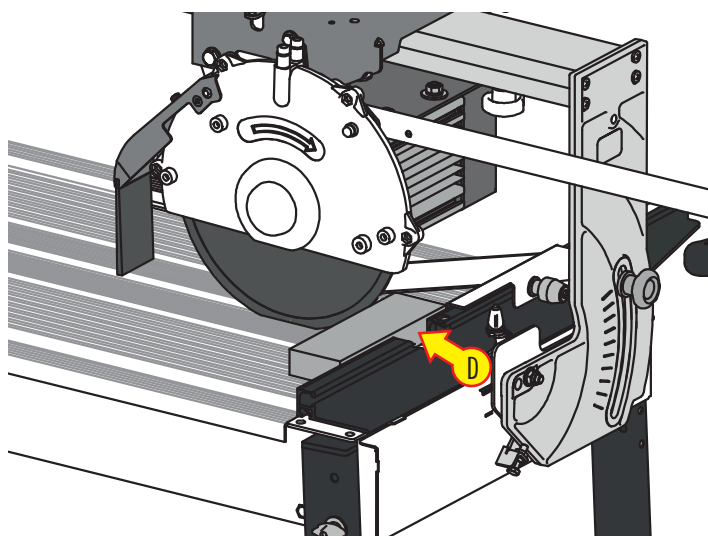
6. EXECUTION OF CUTS

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.

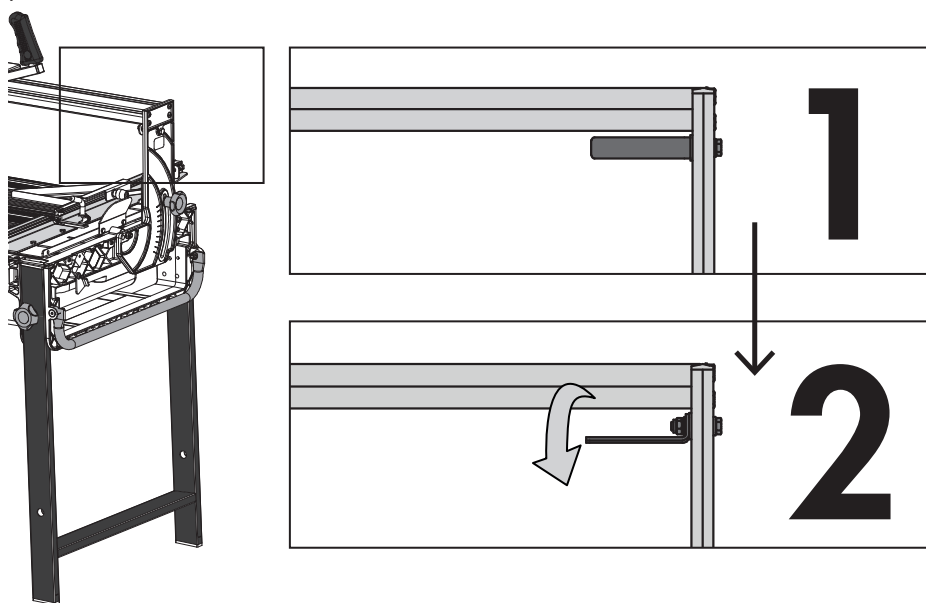
For proper dressing, perform repeated cuts
on the disc-dressing stone **(D)**.

6.2 Preliminary adjustments

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

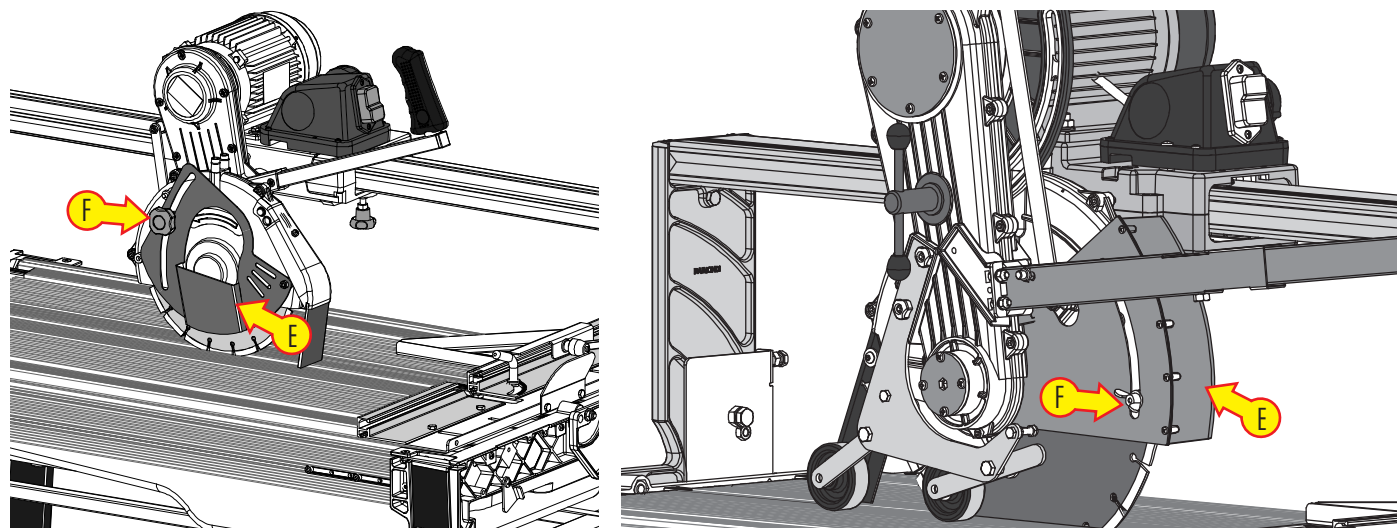
FEED LIMIT SWITCH ADJUSTMENT

Some models are equipped with a 2-position stop to limit the stroke of the motor unit and prevent the disc from accidentally hitting parts of the machine. The stop must be set according to the diameter of the disc used: in position **1** if a Ø360 disc is mounted on the machine or in position **2** if a Ø300mm disc is mounted.

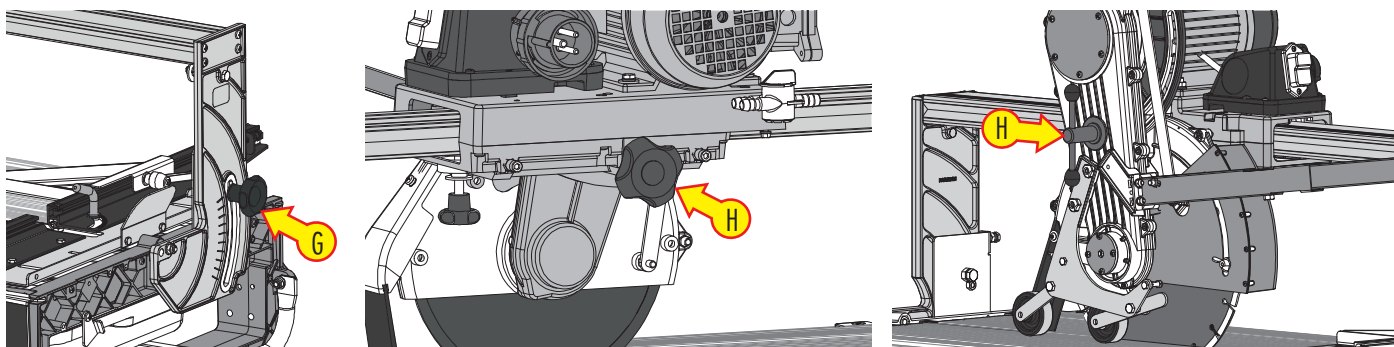


SIDE PROTECTION ADJUSTMENT

On the machines there is a side guard **(E)** adjustable by means of the knob **(F)**. On the Pikus model it is possible to leave the protection free to adapt to the material or, as on the Zoe model, it is possible to adjust it so that it is slightly higher than the thickness of the material.



6.3 Cutting



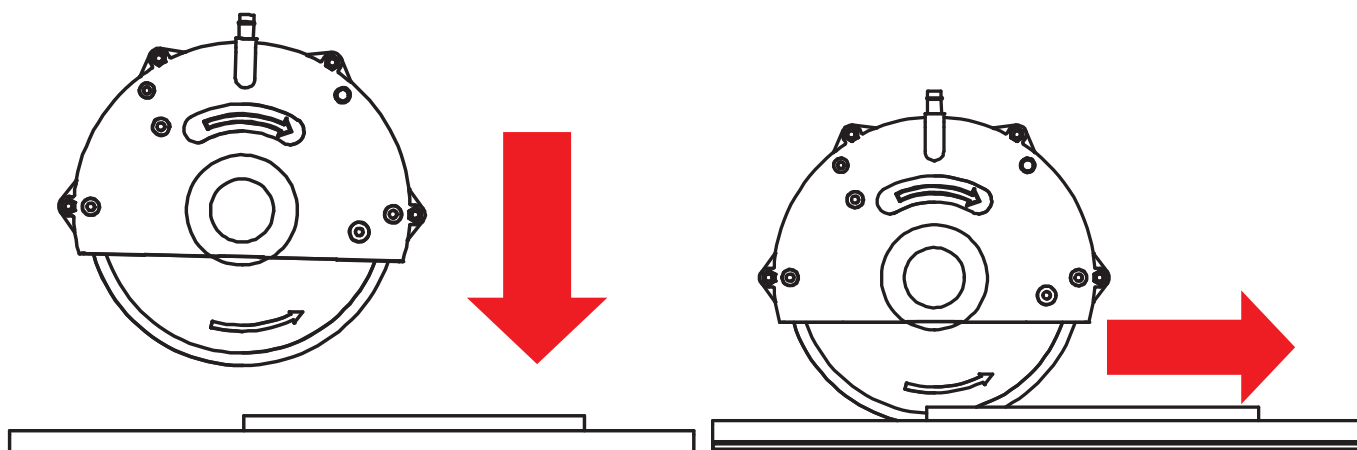
BEFORE MAKING CUTS MAKE SURE THAT THE TILT LOCKING HANDLES OR KNOBS (G) AND DISC LIFT (H) ARE SCREWED FULLY AND THAT THE ABRASIVE DISC DOES NOT IMPACT PARTS OF THE MACHINE



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.

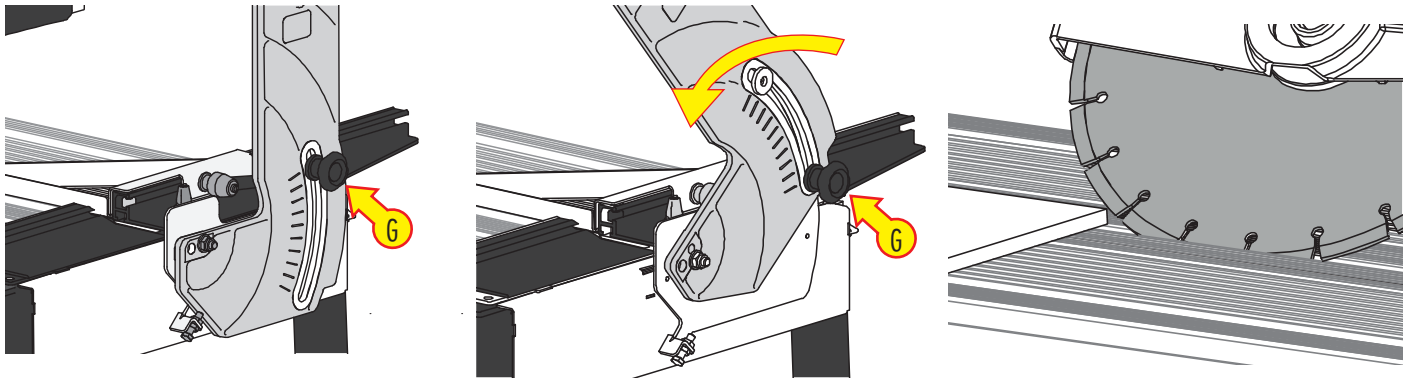
Proceed with cutting by slowly bringing the disc closer to the material, continue cutting while maintaining a constant feed rate proportional to the hardness of the material, slow down the feed rate near the end of cutting and switch off the machine.



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



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.

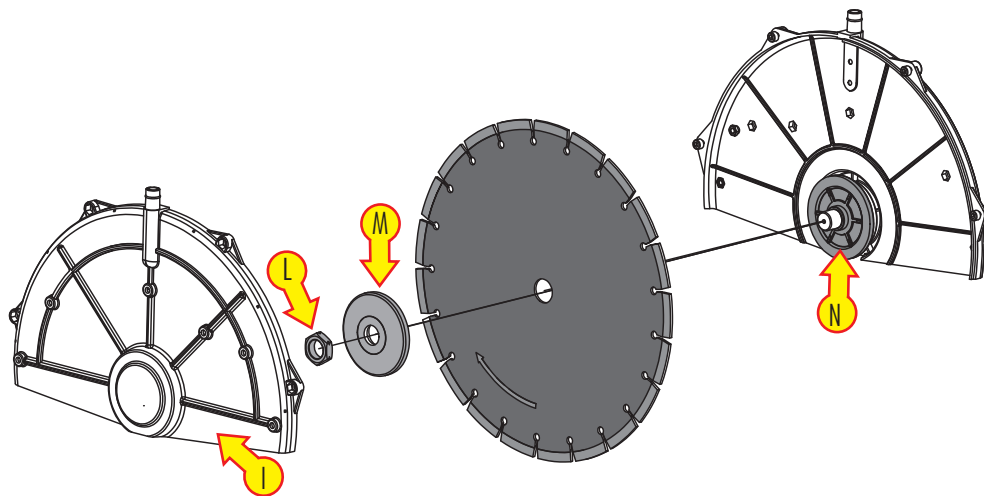
Make sure that the sides of the material to be machined are perfectly square with each other.

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 proper 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



MAKE SURE YOU WEAR ALL THE PPE INDICATED IN CHAPTER 3.5

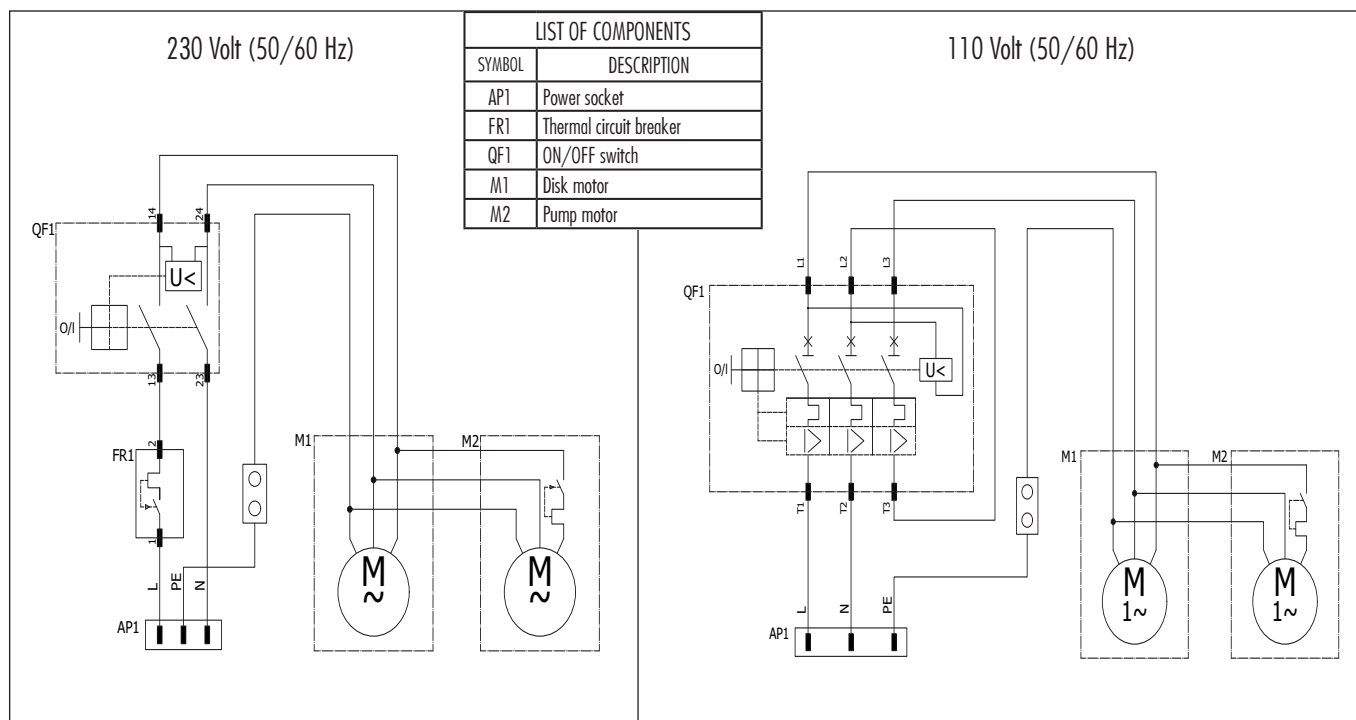
If the engine does not run, check:	1. presence of voltage in the socket; 2. correct plug-to-socket insertion; 3. wait 5 minutes for the motor protection to reset if necessary.
If the disc does not turn but the motor does check the:	1. correct tightening of the disc; 2. transmission belt status (where 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

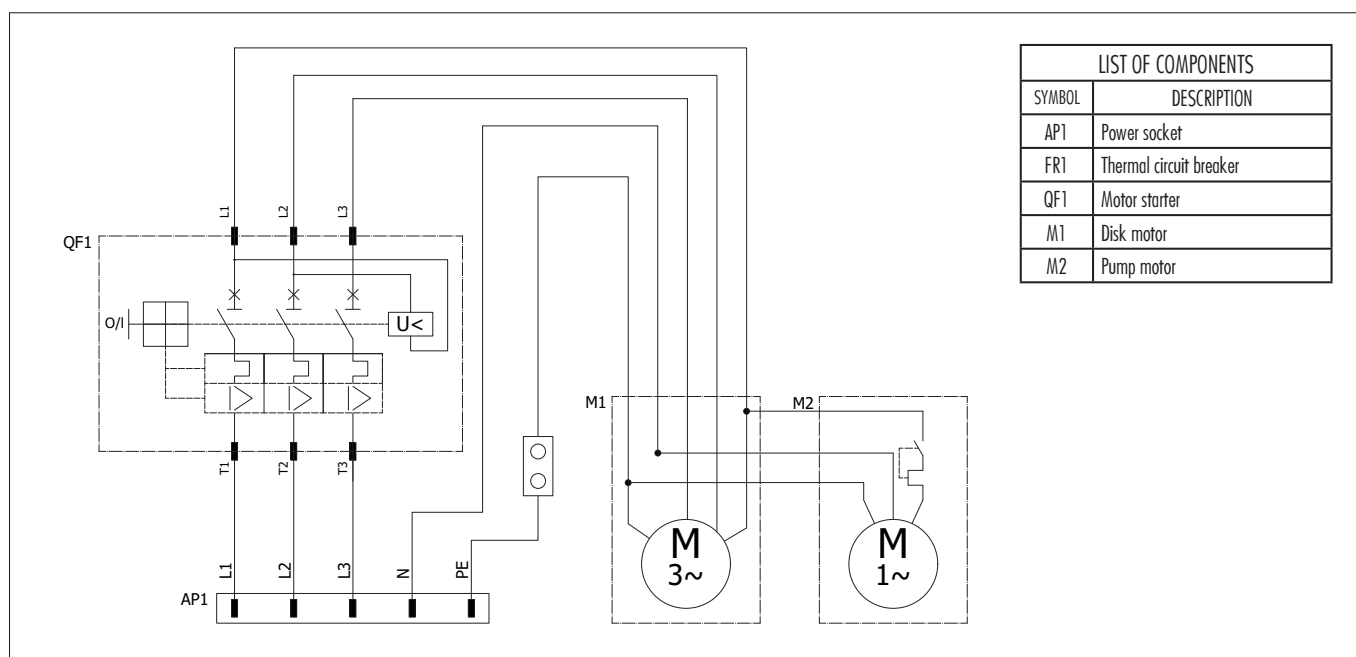
9.1 Single-phase machines

The following diagrams are valid for the machine versions with 230 Volt (50/60 Hz) and 110 Volt (50/60 Hz).



9.2 Three-phase machines

The following wiring diagram is valid for the machine version with 400 Volt (50/60 Hz).



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

10. SPARE PARTS**10.1 Pikus ADV**

ELEM.	COD. ARTICLE
1	114RE15D
1	114RE15D1
1	114RE15D2
2	156NL15D
2	156NL15D1
3	191AE07D
4	191AF02D
5	191GE02D
6	192SQ04A
6.1	191TL07D
6.2	305MR03C
6.3	900CH8X12
7	202BP02D
8	202BP03D
9	202FS05D
10	251RE05D
11	263FE12D1
12	264PV04C
13	305MF01D
14	305PM13D
15	305PM35C
16	311GH02A
17	311GH03A
18	314AN02D
19	315CB10C
20	318T1107D
21	318T1114D
21	318T1111D
21	318T1113D
22	320PG04C

ELEM.	COD. ARTICLE
23	322CN03C
24	324RD01D
25	325VP01A
25	325VP02A
25	325VP03A
26	326SE08A
27	420LETTOR
28	423GD 230
28	423GD 230/6
28	423GD 115
28	423GD 115/6
28/1	2873001C
28/1	2875001C
28/2	263PE01A
28/3	179SET250BE
28/4	235PR 01A
28/4	235ZW04A60RIC
28/4	235PR 03A
28/4-1	3200PR01C
28/4-2	246PM03D
28/4-3	264SI01C
28/4-4	234MT01A
28/4-4	234MT04A
28/5	309CS01A
29	240
29	240422
29	240110
30	903MMPIK
30	420POLL

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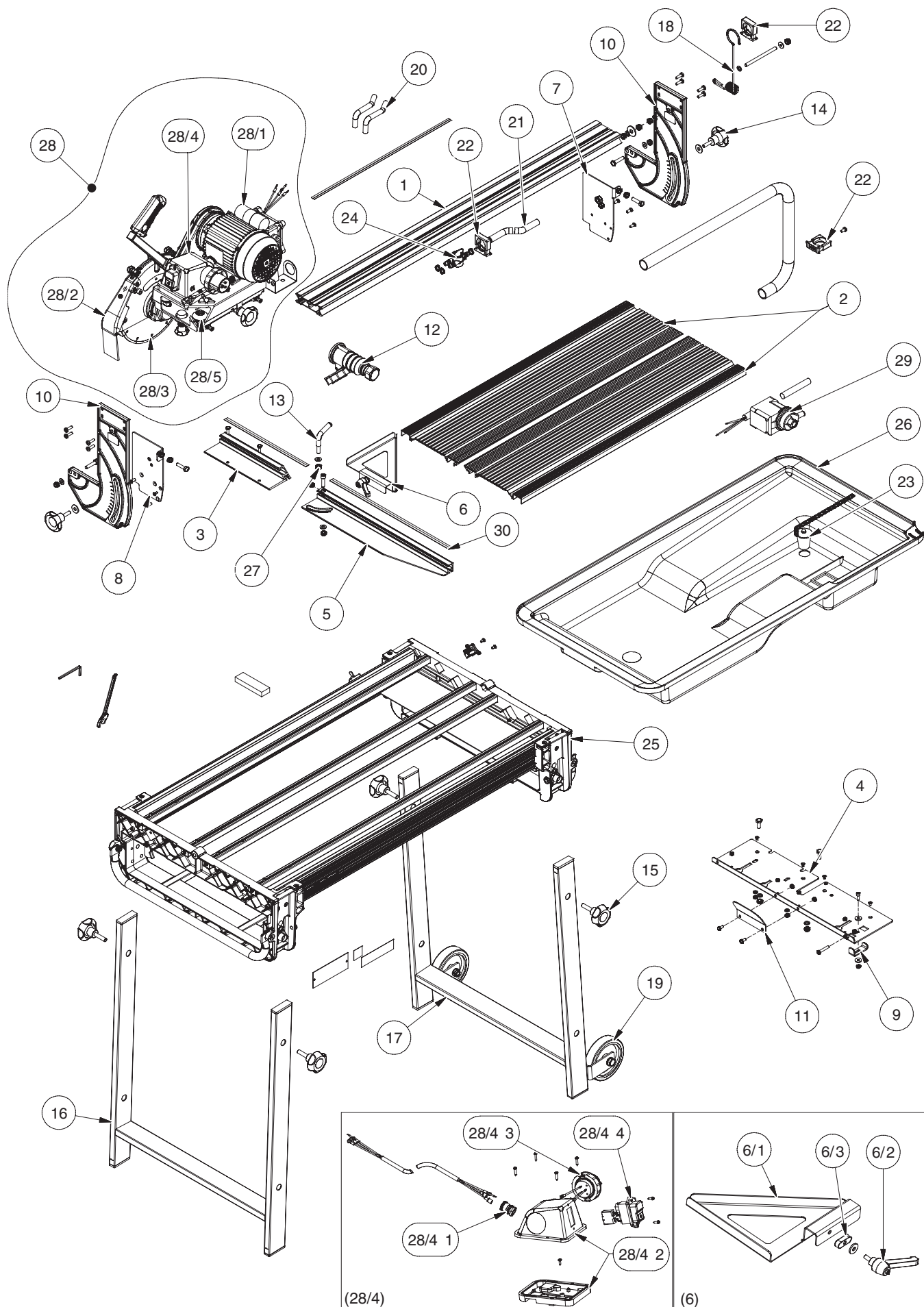
Spare parts



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10.2 Zoe ADV**ELEM. COD. ARTICLE**

1	114RE16D
1	114RE16D1
1	114RE16D2
1	114RE16D2.1
2	129DE03CDX
3	154SE12A
3.1	154SE14A
3.2	154SE13A
4	156NL15D
4	156NL15D1
4	156NL09D
5	158GB07D
6	179SET360E
7	191AE07D
8	191GE02D
9	192SQ04A
9.1	900CH8X12
9.2	305MR03C
10	202BP02D
11	202BP03D
12	202FS05D
13	202PR02D
14	235ZW03A60RIC
14	235ZW02A60RIC
14	235ZS 01A
14	235SH01C
14.1	320PR01C
14.2	246PM03D
14.3	264SI01C
14.3	264SI02C
14.4	234MT01A
14.4	234MT02A
14.4	234MD03C
14.4	234MT03A
15	240
15	240110
15	240422
15	240JET230V50HZ
16	251RE01D
17	262CP11D
18	263FE05A
19	263GM03D

ELEM. COD. ARTICLE

20	264PV04C
21	278PA12D
22	278PB03G
23	305MA01A
24	305MF01D
25	305MR15C
26	305PM35C
27	311GH02A
28	311GH03A
28.1	315CB10C
29	314TR08D
30	318T1107D
31	318T1111D
31	318T1112D
31	318T1115D
32	320PG04C
33	324RD01D
34	325VP01A
34	325VP02A
34	325VP03A
34	325VP04A
35	326SE08A
35.1	322CN03C
36	420BLOSCONW
37	420GMFS
37.1	2878001C 37.1
37.2	297IN85D
37.2	297IN85D60H
37.2	297IN85D50
37.2	297IN85D60
37.2	297IN85D400
38	420GS01A
38.1	309CS01A
39	420LETTOR
40	903MMPIK
41	425LR07D
42	900TTDE10B
43	140FU06D1
44	140FU06D2
45	158GH01D
46	158GH02D
47	202PG02D

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