## TECHNICAL FEATURES

							kg	kg
CRATER- 02 A/550	2.2 kW 50 Hz 400 V AC 3 P PE	3000 D/dak. RPM	<b>D =</b> 420 mm <b>d =</b> 30-32 mm	6/8 Bar	34 Lt/dak Lt/min	<b>W</b> = 85 L = 95 <b>H</b> = 145	210	260

## OVERALL DIMENSIONS





#### PARTS LIST







NO	STOCK CODE	QTY	NO	STOCK CODE	QTY
1	1SA010000-0091	1	40	2TU012510-0573	1
2	1SC170000-0007	2	41	2TU012310-0007	2
10	* 1PL010000-0019	1	43	3UA040030-0011	2
11	1HD050000-0001	1	44	2TU012510-0557	1
15	1PL050000-0035	1	52	2TU012610-0044	2
17	3UA120030-0200	1	53	3UA060030-0004	2
17-1	1EL020000-0005	2	54	2TU012610-0010	1
17-2	2ET022441-0090	1	55	2TU012610-0054	1
17-3	1EL010000-0046	1	56	* 3UA060030-0017	2
17-4	1EL090000-0016	1	58	3UA040030-0002	2
17-5	1EL090000-0001	1	60	3UA040030-0017	2
17-6	1EL090000-0009	2	62	1SA030000-0131	1
17-7	1PN010000-0055	1	64	1SA030000-0131-1	1
18	1SC140000-0002	3	65	1SA030000-0131-2	1
20	2TU012550-0556	1	69	1EL020000-0005	1
21	3UA030030-0008	1	75	2TU012510-0574	2
22	2TU011441-0017	1	76	2TU011441-1107	2
28	2TU011110-0024	2	79	1YY030000-0013	2
31	2TU011110-0144	1	80	4UN300030-0001	1
39	1PL010000-0103	1			

\* OPTIONAL



NO	STOCK CODE	QTY	NO	STOCK CODE	QTY
1	2TU011610-0015	1	14	2TU011110-0422	1
2	2TU015010-0053	2	15	2TU011110-0423	1
3	1PL010000-0103	1	16	2TU011441-0016	1
4	2TU011210-0291	2	17	2TU011110-0488	1
5	1SA050000-0003	1	18	1SK010000-0074	1
6	1PL010000-0016	1	19	1SR070000-0015	1
7	2TU012510-0274	1	20	2TU012110-0011	1
7-1	2TU011110-0476	2	21	2TU011110-0010	1
7-2	2TU011110-1027	1	22	2TU012510-0574-0	2
8	2TU011210-0106	1	24	*1PN010000-0012	1
9	2TU012510-0204	1	26	1SC021000-0008	7
10	1PN020000-0007	1	27	1SC041000-0011	4
11	3UA050030-0001	1	31	1SC011000-0018	4
12	1EL070001-0001	1	33	1SC021000-0003	1
13	2TU012510-0203	1			

\* OPTIONAL

SPARE PARTS LIST					
PART NO	FIGURE	CODE	PART NAME		
17-1	-	1EL020000-0005	GUARD SWITCH		
		1EL020000-0025	COVER SWITCH (CE)		
17-4		1EL090000-0017	START-STOP SWITCH		
17-5		1EL090000-0001	EMERGENCY STOP BUTTON		
17-7		1PN010000-0055	TOGGLE SWITCH		
17-6		1EL090000-0009	BUTTON		
17-3		1EL010000-0046	MAIN SWITCH		
41		2TU012310-0007	MOVING BACK FENCE		
52		2TU012610-0044	CLAMP MOUNTING BRACKET		

52	0	3UA046030-0004	PNEUMATIC CLAMP PISTON
	5	1PL010000-0033	CLAMP PISTON TIP
10		1PN020000-0007	PISTON (PNY-AY 50x160)
11		3UA050030-0001	HYDRO-PNEUMATIC CYLINDER SET
79		1YY030000-0013	SHOCK ABSORVER
		3UA110030-0020	AIR CONDITIONER
24		1PN010000-0012	SPRAY MIST VALVE
		1PN140000-0005	1/8-6 FITTING
12		1EL070001-0002 (230V-1P 50 Hz) 1EL070001-0017 (240V-1P 50 Hz) 1EL070001-0019 (220V-1P 60 Hz) 1EL070001-0001 (400V-415V 3P 50 Hz) (440V-3P 60 Hz)	MOTOR
	0	1SR070000-0015	MOTOR BELT

18	1SK010000-0074	T SAW BLADE
	1SC140000-0006	HINGE
52-2	3UA040030-0001	M12*60 HANDLE
52-1	3UA040030-0005	M8*45 HANDLE
	1PL040000-0022	GUARD GLASS

## ENGLISH

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#### **1.GENERAL INFORMATION**

#### 1. Introduction

This user's manual contains necessary information about the machine and its operation. Each operator should read these instructions carefully, and the machine should be operated after fully understanding them.

Safe and efficient use of the machine for long term depends on understanding and following the instructions contained in this manual. The technical drawings and details contained in this manual constitute a guide for the operator.

#### 2. Service Information

In case of any technical problem please contact your nearest ATech dealer, or ATech head office.

Technical labels with the model description of the machine are attached onto the front side of each machine.

The machine's serial number and manufacturing year are stipulated on the technical label.

# Average life of your saw is 10 years. For support, failure or complaints please contact us using the following contact information:

AUTHORIZED TECHNICAL SERVICE CENTER ADDRESS					
ATech M	achine, Inc., 309 Ridgemont Ave., R	ockville, MD 20850 - USA			
Tel	+1-240-505-1967				
Fax	+1-301-560-6627				
E-mail	info@ATechMachinery.com				
Web	www.ATechMachinery.com				
To minim	ize documentation, it is necessary	to stipulate the following details			
• N	Machine model  Voltage and frequency				
• N	Machine's serial number  Date of purchase				
• D	Description of the machine fault  Name of dealer where machine was purchased				
• A	Average daily operation period				



#### 2. SAFETY

#### 1. Safety Symbols and Their Meanings

	Read the user guide	$\textcircled{\begin{subarray}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	Ensure safe working position, always keep your balance.
0	Wear ear protectors	A	Elektrical excitation
0	Wear safety goggles	$\mathbb{A}$	Don't place your hands between parts in motion
	If the power cable should be damaged during operation, don't touch it and unplug it. Never use damaged power cables.		High temperature warning
	During saw blade change operations, use protective gloves	$\triangle$	Keep your fingers clear of the movable parts of the glide arm.
	The above symbol <b>DANGER WARNING</b> , warns you against specific dangers, and you have definitely to read them		The <b>IMPORTANT</b> symbol above is one telling to apply special care and to be careful at carrying out the specified operation

#### 1. Accidents Prevention

- 1. Our machines are manufactured in accordance with CE, UL and CSA safety directives, which cover national and international safety directives.
- 2. It is the task of the employer to warn his staff against accident risks, to train them on prevention of accidents, to provide for necessary safety equipment and devices for the operator's safety.
- 3. It is the task of the employer to warn his staff against accident risks, to train them on prevention of accidents, to provide for necessary safety equipment and devices for the operator's safety.
- 4. Machine should be operated only by staff members, who have read and understood the contents of this manual.
- 5. All directives, recommendations and general safety rules contained in this manual have to be observed fully. The machine cannot be operated in any way for purposes other than those described herein. Otherwise, the manufacturer shall not be deemed responsible for any damages or injuries. And such circumstances would lead to the termination of the warranty

#### 2. General Safety Information

- 1. The power cable should be led in such a way that nobody can step on it or nothing can be placed on it. Special care has to be taken regarding the inlet and outlet sockets
- 2. Don't overload machines for drilling and cutting. Your machine will operate more safely with power supply in accordance with the stipulated values.
- 3. Use correct illumination for the safety of the operator. (ISO 8995-89 Standard The lighting of indoor work system)
- 4. Use correct illumination for the safety of the operator. (ISO 8995-89 Standard The lighting of indoor work system)
- 5. Don't use any materials other than those recommended by the manufacturer for cutting operations on the machine.
- 6. Ensure that the work piece is clamped appropriately by the machine's clamp or vice
- 7. Ensure safe working position, always keep your balance.
- 8. Keep your machine always clean for safe operation. Follow the instructions at maintenance and replacement of accessories. Check the plug and cable regularly. If damaged, let it replace by a qualified electrician. Keep handles and grips free of any oil and grease.
- 9. Unplug first, before conducting and maintenance works.
- 10. Ensure that any keys or adjustment tools have been removed before operating the machine...
- 11. If you are required to operate the machine outside, use only appropriate extension cables.
- 12. Repairs should be carried out by qualified technicians only. Otherwise, accidents may occur.
- **13.** Before starting a new operation, check the appropriate function of protective devices and tools, ensure that they work properly. All conditions have to be fulfilled in order to ensure proper operation of your machine. Damaged protective parts and equipment have to be replaced or repaired properly (by the manufacturer or dealer).
- 14. Don't use machines with improper functioning buttons and switches
- 15. Don't keep flammable, combustive liquids and materials next to the machine and electric connections.

#### 3. MACHINE'S DESCRIPTION

Heavy duty automatic upcut miter saw designed for straight and miter cut of PVC (vinyl), aluminum profiles and wood.

- > Two hand control system application is available in terms of employee safety.
- > Moveable back fences to maximize cutting capacity.
- > Positive locating pin lock at 0-15°- 22, 5°-  $30^{\circ}$   $45^{\circ}$   $60^{\circ}$   $75^{\circ}$  intermediate angles set with a table lock.
- > Hydro-pneumatic saw blade feed with variable speed control to suit different profiles & materials
- > Saw complies with CE, UL and CSA Safety Directives

STANDARD ACCESSORIES	OPTIONAL ACCESSORIES
16-1/2" (420) mm saw blade	Additional 16-1/2" (420 mm) saw blade
Air Gun	Pneumatic spray mist lubrication system

Twin horizontal & vertical pneumatic clamps	Saw Fixtures
User's manual	

#### 4. TRANSPORT OF THE MACHINE

# IMPORTANT

#### 1. The transport should be done by qualified personnel only.

2. The machine should be transported by lifting with proper equipment (not touching the ground during the transport).

- 3. Unless customer requests the contrary, the machine will be delivered in wooden crate.
- 4. Movable parts on the machine should be fixed before carrying out the transport.
- 5. The machine dimensions and weight are stipulated in the technical specification sheet.

#### 5. INSTALLATION OF THE MACHINE

#### **1.Preparation**

- 1. The ground, where the machine will be placed, should be even, solid enough to bear the weight of the machine
- 2. The machine should be located approx. 100 cm (40") away from the rear wall
- 3. You can provide the balance of the machine with adjustable counterforts (FIGURE 1 NO.2) in the bottom part.
- 4. Attach the MKN 300 conveyor (FIGURE 1 NO.80), if purchased, to the saw on the right side surface of the machine as seen in the FIGURE 1 by using the screws on the machine. Provide the conveyor bobbins and machine top surface to be the same parallelism by using a sensitive and calibrated water gauge.
- 5. Side protective covers (FIGURE 1 NO.64/65) are sent in dismantled form. Mount the covers as shown in Figure 1.
- 6. To use chip collection manifolds, the absorption flow rate of air for dry chips has to be considered to be min.20m/ sec. , and 28 m/sec absorption flow rate of air wet chips (>=%18 humidity) can be decided to operate the manifolds

#### 2. Connecting to Power Source

- 1. The Electrical connection must be made by a licensed electrician
- 2. The power outlet socket on the machine should be available.
- 3. Plug the machine to a grounded socket.
- 4. Main voltage of the machine is 3-Phase 220V or 440V 60 Hz.



5. Check the power source voltage. It has to be in accordance with the values stipulated on the machine's type label.

6. After electrical connection is made, machine must be operated in idle running and check whether the saw blade rotates in correct direction. If the rotation direction is wrong, correct the power connection by switching 2 phases.

#### 6. MACHINE SAFETY INFORMATION

1. Lifting, installation, electric maintenance of the machine should be carried out by qualified personnel only.

2. Routine maintenance and scheduled maintenance should be carried out by qualified personnel after unplugging the machine first.

- 3. Ensure that the machine has been cleaned, tested and maintained before starting to operate it.
- **4.**Check the safety devices, power cable and moving parts regularly. Don't operate the machine before having r e p I a c e d defective safety devices or faulty parts.

5. Never replace the saw blade before unplugging first.



Keep foreign materials away from the working area of the machine, keep away from the machine's moving parts

Do not work on the machine by removing the protective parts



The safety data have been defined above. In order to prevent physical damage or damage to the equipment, please read the safety information carefully and keep the manual always in an easy accessible place.

#### 7. OPERATION

1. Preparation

6.

- 1. Degrease and dry the machine table. Especially ensure that the holding grips and handles are clean and dry.
- 2. Clean all surfaces of the machine from chip and foreign particles. Use eye glasses for protection.
- 3. This upcut miter saw is capable of cutting rigid plastic and non-ferrous metals like aluminum, as well as wood.
- 4. Check whether the cutting tool (FIGURE 4 NO.18) is installed safely.
- 5. Check cutting tools against corrosion, distortion and fractions. If cutting tools are damaged, replace them.
- 6. Cutting tool must process on the part after machine is operated and cycled.
- 7. Definitely check and make sure the direction of rotation of the saw blade is correct.



- 8. Do not start cutting before clamping the work piece properly.
- 9. Adjust the reducer speed adjustment screw (FIGURE 2 NO.11) by rotating in the direction of clockwise until providing the desired progress if the saw group cutting progress is fast. Make the opposite of the above action if the saw group cutting progress is slow.



10. When cutting, ensure that the clap pistons and brackets are out of the rising area of the saw blade.





#### 2. Operation

- 1. Switch the main start switch to "1" (FIGURE 1 NO.17-3)
- 2. Open the top guard(FIGURE 1 NO. 62). The top guard operates manually.
- It is possible to make a straight or miter cuts on this saw. 0-15 22.5 30 45 60 and 75 degrees can be set via positive pin locks (FIGURE 2 NO. 21), while intermediate angles are set by tightening a screw at the respective angle position (FIGURE 2 NO. 31).
- 4. In order to make a miter cut, pull the table locking pin (FIGURE 2 NO.21), which will release the turn table. At the same time, hold the grip on the table and turn it to the desired cutting angle (FIGURE 4 NO.1) (FIGURE 4 NO. 3). The angles are marked precisely via CNC machining center onto the rotating table (FIGURE 2 NO.22) (FIGURE 2 NO.20).
- 5. In order to provide the right or left movement of the movable set square (back fence) (FIGURE 2 NO.41) loosen the fixing pipe (FIGURE 3 No.43) by turning half-round. Towards the right or left direction of the movable set square after completing the movement, provide the parallelism of the movable set square against each other in both of the set squares with the help of the setscrews on the fixed set square (FIGURE 2 NO.40). After finishing all of the set-tings fix the set squares by tightening the fixing pipes.

# **IMPORTANT** Distance between set screws cannot be less than table channel's dimension. (Dimension of TABLE CHANNEL is 8 mm.)

- 6. If the profile to be cut is wide or high, loosen the M8 bolts (FIGURE 3 NO.51) on the square (FIGURE 2 NO.40) and move them until you reach the backstop pins (FIGURE 3 NO.28). Limit of backwards movement is 100 mm. Look at the cutting diagram for the maximum measurements and positions of the materials to be cut. Fix the square to the table by tightening the M8 bolts.
- Place the PVC or aluminum profile that you will work with on the tray (FIGURE 2 NO.20). Using the toggle switch (FIGURE 1 NO.17-7) located on the control Panel (FIGURE 1 NO. 17) clamp the material with the clamps (FIGURE 2 No.53/56) located on the set square.
- 8. The clamps operate pneumatically at the Crater (ACK 420) models. You can adjust the back and forth and up and down position of the clamps with special clamping parts (FIGURE 2, NO.58/60/52-1/52-2). The clamps are controlled via toggle switch (FIGURE 1 NO.17-7) on the control panel (FIGURE 1 NO.17).
- 9. Close the top guard (FIGURE 1 NO.62). Due to safety reasons, cutting operation will not start unless the top guard is closed.
- 10. Start the saw blade rotation by pressing the Motor Start button (FIGURE 1 NO.17-4) on the control panel.
- 11. The saw blade will start to rise when the 2 green buttons on the control panel are pressed simultaneously (FIGURE 1 NO.17-6). Once these buttons are depressed the saw blade moves down to its starting position.
- 12. Once the cut is finished, release the green cutting start buttons. Saw blade will move back down.
- 13. The optional pneumatic spray mist lubrication system can be used with this machine. In particular, when cutting aluminum it is highly recommended to use this system, which sprays coolant onto the saw blade during the cutting operation. You can adjust the flow rate of the coolant by using the injection valve (FIGURE 4 NO.24).
- 14. Open the top guard (FIGURE 1 NO.62)
- 15. Take the cut piece out after releasing the clamps via the toggle switch.
- 16. Use the motor stop button to stop the saw rotation.



NOTE: Release the pressure on the cutting buttons in a possible hazard, or press the emergency stop button. (FIGURE 1 NO.17-5)

17. Switch the main switch to "0" (FIGURE 1 NO.17-3)

#### 8. MAINTENANCE, SERVICE AND REPAIR

#### 1. Maintenance

- 1. Cut the electric and pneumatic power connections off.
- 2. Clean all surfaces of the machine from burr, chips and foreign substances. If the machine will not be used for a long time, lubricate unpainted parts with oil to prevents rusting.
- 3. When cleaning the machine, do not use materials that may damage the paint.
- 4. Check the saw blade for corrosion, distortion and fractions. Replace the saw blade if it is damaged.
- 5. Before using a new saw blade on the machine, run it idle first to see whether the saw blade has been installed correctly and rotates in the correct direction. Use proper saw blades in accordance with the purpose of this saw.
- 6. If the saw teeth are blunt, have it resharpened or install a new saw blade.
- 7. Sharpen with proper sharpening machines by taking the angular value of the saw into consideration.

#### 2. Changing the saw blade

- 1. First, disconnect power supply to the machine.
- 2. Open the saw blade housing cover (FIGURE 1 NO. 17).



12.

#### NOTE : Make sure not to damage the components inside the cabinet.

- 3. Remove the cover (FIGURE 4 NO. 5).of the housing by removing the four butterfly nuts (FIGURE 4 NO. 5-2) located on the saw protective enclosure (FIGURE 4 NO. 5-1).
- 4. Remove the M10 screw (FIGURE 4 NO.33) with the help of an 8 mm Allen wrench. When removing the bolt counterhold the saw blade shaft (FIGURE 4 NO.7-1) from the other end with a 19 mm wrench.
- 5. Remove the string (FIGURE 4 NO.16) and saw coupling (FIGURE 4 NO.15) respectively.
- 6. Take out the saw blade (FIGURE 4 NO.18) carefully.
- 7. Install the new saw blade onto the shaft ensuring the correct rotation direction.
- 8. Install the guard group parts applying the reverse order as described above.
- 9. It is necessary to sharpen / replace the saw blade in certain intervals depending on the cutting material. If the cut material leaves burr after the cutting operation or if the saw blade is strained, it needs to be sharpened / replaced.
- 10. When replacing the saw blade, use the part of the blade washer which is appropriate for the blade shaft diameter. The outer diameter of the blade washer is 30 and 32 mm.
- 11. During saw blade change operations, use protective gloves.

Saw blade must be selected according to DIN EN 847-1.



13. A saw blade rotating in reverse direction, causes danger both for the operator and the equipment. The teeth of the saw blade would be damaged and even broken.

#### 3. Changing the belt

- 1. Cut the electric connection of the machine.
- 2. Dismantle the saw blade by applying the saw replacement process (Clause 8.2).
- 3. After taking the saw blade out, put it somewhere inside the machine base or take it out by removing saw blade housing connection screws (FIGURE 4 NO.27).
- 4. Take out the connection screws (FIGURE 4 NO.26) of the belt housing (FIGURE 4 NO.13) by removing them.
- 5. Loosen the motor connection bolts (FIGURE 4 NO.31) with the wrench.
- 6. Provide the slackening of the belt by pushing the Motor (FIGURE 4 NO.12) upwards.
- 7. Replace the belt with the new one. Be careful when fixing the belt to the channels of balancing wheel (FIGURE 4 NO.20) of the channels of the belt.
- After placing the new belt in its seat, arrange tensioning of the belt by turning belt tensioning part (FIGURE 4 NO. 7-2) with the help of 8 mm Allen wrench. After you set to the appropriate tension, tighten the motor connection bolts (FIGURE 4 NO.31) with your unused hand without leaving the part.
- 9. Fix the removed parts by following the reverse sequence that your removed them before.

#### 4. Angular and run out adjustment control of saw blade and set sguare

- 1. Cut the electric connection of the machine.
- 2. Control the run out of the saw blade via naked eye. If possible use a dial gage.
- 3. If there is any problem in the inclined cut, control the saw's 90 degrees orthogonal to the set square with the aid of the set-square. If it is not proper, loosen the stay bolt at the top which tightens the spring (FIGURE 2 NO.83) Have the pin located to its place by turning the spring in way that it can provide it to be proper by setting it to the 90 degrees. Tighten the screw at the top again which fastens the spring.

#### 5. Adjust the air pressure (pneumatic systems)

- 1. Pull up pressure adjustment valve. Set adjustment valve to the desired value on manometer by turning it clockwise or counter clockwise. Then lock the valve by pressing it down.
- 2. Set the air pressure between 6 and 8 BAR (90-120 psi). If air pressure drops below the stated values, accessories operating with pneumatic power do not work.
- 3. Conditioner unit accumulates the water in the air in the collection container so that it won't damage pneumatic components. At the end of the working day, empty the accumulated water by open-ing water discharge valve under the collection container.
- In order to put oil to the oil tank, remove the reservoir by turning. Oils recommended by the manufacturer are; TELLUS C10 / BP ENERGOL HLP 10 / MOBIL DTE LIGHT / PETROL OFISI SPINDURA 10.



#### 9. NOISE EMISSION VALUES

Material	Aluminum	LwA	98 dB (Measured Value)
Length	1220 mm	LpA	93 dB (Average Sound Pressure Value
Width	70 mm	К	2 dB (Uncertainity in the Measurements)
Height	20 mm		

The values given fort he noise are the emission level and it does not show that it in the safe working level. A connection between emission and exposure levels is available, however it is not used confidently for the determination whether these more advanced precautions are necessary or not. The factors that affects the real level of exposure, affecting the working power, are residence time, features of working place, in other words other noise resources, actions on other side and the number of the machines. Furthermore, the exposure level given permission can change from country to country. This informing, however, provides the machine user to evaluate the hazard and risks well.

Machine Characteristic Information		Saw Characteristic Information			
Rotation Speed of Saw	Rotation Speed of Saw 3000 rpm		550 mm (22")		
Motor Power	3 kW (opt. 4 kW)	Saw Blade Thickness	4.4 mm		
Nominal Voltage	220V or 440V	Saw Shaft Thickness	3.4 mm		
		Saw Blade Progress Speed	<b>65.</b> / sn. (Aluminum material)		

#### **10.TROUBLESHOOTING GUIDE**

Here are some recommendations for solving urgent problems. If the trouble cannot be solved, or if you have a problem other than those described hereunder, please contact our technical service or your nearest dealer.

TROUBLE	CAUSES	REMEDY
Low surface quality (at aluminum and similar materials) :	Not cooling the saw blade surfaces	Lubricating the saw blade cutting sur- faces,
Rough surface,		Using of cooling liquid
Large chip,	Using of damaged or blunt saw blade	Check the saw blade teeth. Replace if necessary.
Not homogenous surface, Saw blade traces visible	Saw blade moves to quick	The cutting speed is too high for the ma- terial. Decrease the cutting speed.
Motor does not work (Start button is pressed, not working)	No power supply to the machine.	Check the electric cable connections. Check the electric power sockets.
Motor is working but the pneumat- ic clamp pistons do not work.	The air supply connections are missing, or the air pressure is too low.	Check the air compressor connections. Adjust the air pressure between 6-8 Bar on the conditioner.
The saw blade rotates in reverse direction.	The electric connection, the power cable or the connection at the panel is wrong.	Let the electric connections carry out by a qualified electrician.

#### **11. WARRANTY CONDITIONS**

ATech guarantees that all machines have been tested and conform with international standards.

The guarantee is valid for 24 months from despatch date and does not cover the electrical parts of the machine.

During this period:

- Any repair and replacement effected at our workshop is completely free of charge (only transport costs are at customer's charge).

- For repair and replacement effected by our technician at the customer's site, we will invoice only the travel and lodging costs for our technician.

The guarantee does not cover damages caused by:

- not following of the rules indicated in the user's manual
- wrong voltage supply to the saw
- improper use or use not in accordance with what the Machine has been designed for
- use of non original tooling
- programming errors
- lack of cleaning and of ordinary maintenance by the customer
- transport or displacement (even inside the workshop)
- natural events (lightings, fires, floods)

The warranty does not cover, in any case, damages caused by the malfunction of the Machine

# ELECTRIC & PNEUMATIC SCHEMES













CE PNEUMATIC DIAGRAM