



AMERI-CAN
MACHINERY LTD.

UCM 600



Single Up Cut Miter Saw

USE AND MAINTENANCE MANUAL

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7. MANUAL USE AND CONSERVATION



WHO IS IT FOR

This manual is intended for the machine user and for the persons in charge of moving, installation, using, surveillance, maintenance and final dismantling of the machine.

AIMS OF THE MANUAL

The manual explains the correct use of the equipment, as foreseen at the design stage and in the technical data. It includes instructions for moving the machine as well as for its correct and safe installation, assembly, adjustment and use, as well as supplying information concerning maintenance interventions and how to order replacement parts.

LIMITS OF USE

This manual is valid only for the machine with the code number it expressly mentions. No information contained in this manual may be applied to other machine models from different ranges. All of the necessary indications shall be taken from this manual and not from any similar manuals, similar equipment or from other manufacturers.

SYMBOLS

In order to draw greater attention to certain points, this manual contains the following symbols that are divided as follows:



PROHIBITION



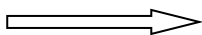
WARNING



INFORMATION



**RESERVED TO
SPECIALIST PERSONNEL**



SPECIAL INDICATIONS

RESPECT OF LEGISLATION

As well as the regulations specified in this manual, the Customer shall respect the relevant legislative dispositions concerning accident prevention in the workplace.

CONSERVATION OF THIS MANUAL

This manual is considered to be an integral part of the machine and as such, must be kept in good condition until the machine is disposed of. This manual must be kept in a safe, dry place, away from direct sunlight and it must always be easily available for consultation in the workplace.

HOW TO REQUEST A FURTHER COPY OF THE MANUAL

In the event that the original copy of the manual is damaged in any way, Customers may, at their own expense, request an additional copy from the Manufacturer.

INFORMATION FOR THE USER

- a) This manual refers to technical conditions at the time of the sale of the machine.
- b) The Manufacturer reserves the right to modify products and manuals without the obligation to upgrade previous products or manual.
- c) The characteristics of this manual may be modified at any time in accordance with technical developments and with no prior notification.
- d) In the event that the equipment is sold on, the Manufacturer should be informed of the address of the new owner in order to facilitate the sending of any additional parts to be integrated into the manual.
- e) For further information or clarifications, it is possible to contact the Assistance Service (see section 13.2)
- f) The Manufacturer declines all responsibility in the event of the following:
 - Incorrect use of the machine
 - Use of the machine by untrained personnel
 - Any use of the machine that contravenes that which is stated in this manual
 - Any use of the machine that contravenes the laws and standards in force
 - Any use with defect of primary alimentation
 - Exceeded of limits service
 - Excessive mechanicals stress
- g) The user is required to guarantee that:
 - All operations for transport, connection, use, maintenance and repair will be carried out by qualified personnel

- Qualified personnel are understood to be (as per IEC 364) persons who, in terms of their training, experience, knowledge of standards, prescriptions, accident prevention provisions and conditions of use and service, are able to carry out all necessary interventions and to recognise and avoid all possible danger and/or damage.
- These persons will avail of all of the relevant information and training required, including any local prescriptions, to which they will adhere when carrying out any operations,
- Unqualified personnel will be prohibited from carrying out any operation even directly on the machine or equipment.
- During the stages of installation, any local or special prescriptions and/or in any case, all prevention conditions that have not been discharged will be met using additional safeguards.

2. MARKING DATA AND DELIVERY CHECKS



Ensure that the equipment shows no signs of damage and that no parts are missing. In the event of damage, contact the relevant insurance company or the Manufacturer. In the event that the supplied goods are incomplete, contact the Manufacturer directly. Each machine has an identification plate.

2.1 MACHINE IDENTIFICATION PLATE

This plate contains information about the Manufacturer as well as the model and progressive serial number of the machine. For any communication regarding the machine (problems, interventions under guarantee, replacement parts, etc.) always refer to this plate and to the information it contains.

2.2 CE MARKING

The CE marking on the machine means that it conforms to the European Community Directives with regard to Health and Safety in the workplace.



3. HANDLING

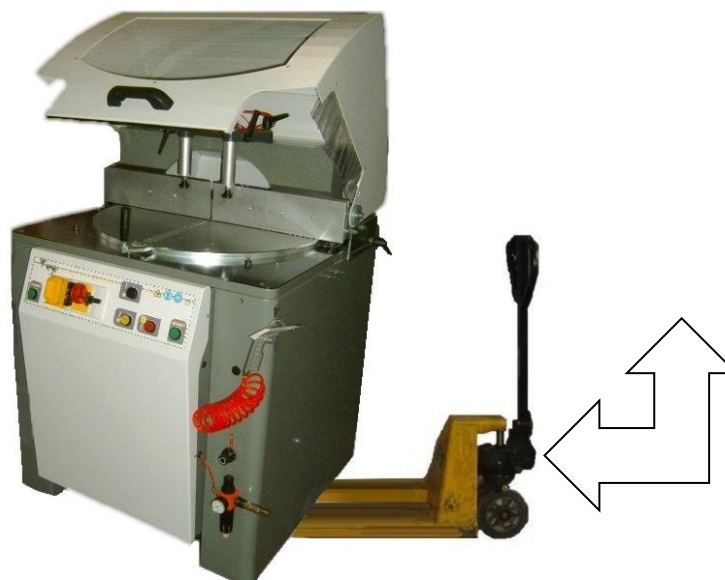


Machines are delivered in a protective plastic covering or packed on pallets with crates - wooden crates cardboard coverings, according to the requirement stated at the time of order.

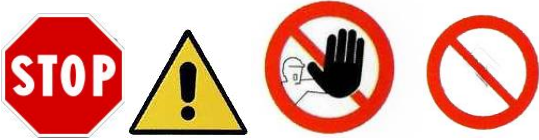


WARNING!

Once the packing has been removed, the machine may only be moved using a suitable forklift.



4. OPERATION NECESSARY FOR THE INSTALLATION



All stages of installation must be carried out by qualified personnel

4.1 POSITIONING

It is necessary to make sure that the machine is correctly positioned in order to guarantee its stability and to ensure the correctness of the operator's working position. The machine must be placed in a sufficiently large area to permit the handling of the material to be machined. The machine must be placed on a flat, horizontal and stable surface that is able to support the weight of the machine adequately. Furthermore, the machine must be situated in a place that allows its entire structure to be lit evenly.

4.2 CONNECTIONS

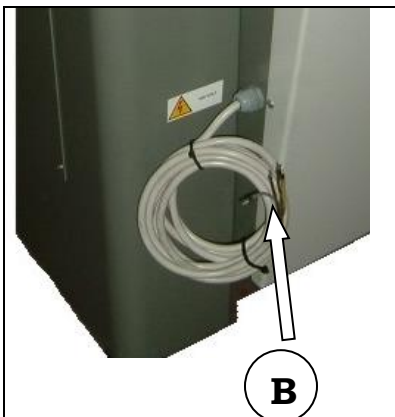
The sawing machine must be supplied from two sources: electric and pneumatic.

The pneumatic inlet (FIG.B) must be connected to a supply of compressed air using a pipe that withstand a minimum working pressure of 7 bar. A filter with an automatic condensation discharge outlet must be installed between pipe and the compressor, as must a tap to intercept the pneumatic supply. The entire supply system must guarantee a minimum internal passage with a diameter of 6mm. The machine is supplied pre-calibrated and if necessary, use the pressure reducing valve (FIG.C) to adjust the pressure from a minimum of 6 bar to a maximum of 7 bar.

The electrical connections (FIG.A) must be carried out by specialist personnel. The connection requirements are as follows: double insulation cable of type N1WK-3P+T with a section of 2,5 mm² and a 16 3P+T socket compliant with EC standards with a thermo magnetic cut-out switch 16A and ICC short circuit current that is equal to or more than 10 kA. The electrical connection must be made to a three-phase alternate current, line 50Hz with a voltage of 400 v.



A



WARNING! BEFORE SUPPLYING POWER TO THE MACHINE, MAKE SURE THAT THE CONNECTIONS HAVE BEEN MADE CORRECTLY IN ORDER TO PREVENT THE OCCURRENCE OF SITUATIONS THAT MAY ENDANGER THE OPERATOR.



WARNING! CHECK THE ROTATION OF THE BALDE. IN CASE THE ROTATION WOULD RESULT ON THE CONTRARY DIRECTION THEN INVERT TWO OF THE THREE CABLES L1/L2/L3.



5 MACHINE SAFETY AND INTENDED USE

5. MACHINE SAFETY



WARNING!

Sawing machines, like all other equipment with moving parts, can be sources of serious danger if not correctly used, protected and maintained.

Safeguards must not be removed under any circumstances

- a. The machine has not been designed, built or tested to operate in damp or wet environments, environments with a high degree of pollution from gaseous chemical substances such as chlorine, ammonia or similar, or in areas at risk from fire or explosion.
- b. The machine has been designed for the use by a single operator.
- c. Simultaneous use of the same machine by more than one operator is not permitted.
- d. During operation people other than the operator are not allowed to remain in the vicinity of the machine.

5.1 INTENDED USE

These cutting machines are intended for professional use only, they are specially designed and built to machine light-alloy profiles

Any other type of material is not compatible with the specifications of the machine.

TOOLS: Widia circular blade with internal hole for shaft Ø 30 mm..

5.2 WORK PLACE



No particular precautions with regard to the physical or chemical safety of the operator are required for the workplace. However, the use of suitable gloves to protect against the burrs of the profiles and the shards that are produced during machining, as well as of safety glasses and head-cuffs, is recommended.

5.3 FORBIDDEN USE

The machine has not been designed and built to carry out any machining other than that described in this manual. The operator must avoid carrying out any unsafe operations or operations that are not foreseen as part of machine use and which could compromise personal safety.

Under any circumstances may any machine part (attachments, boring, finishing) be modified or adapted for use with other devices. MEPAL ITALIA S.R.L. declines all liability in the event of any malfunction caused by failure to respect the above. Any modifications must be directly requested to and expressly authorized by MEPAL ITALIA SRL.

5.4 SWITCHING OFF AND PUTTING OUT OF SERVICE

The equipment is switched off by cutting off the pneumatic and electric power supplies. The machine is put out of service by removing the air supply pipe and protecting the inlet against dust, shavings, etc... Furthermore, the power cable must also be removed from the mains electricity.

5.5 MACHINE BOARD SAFETY LABELLING

Several labels have been applied to the router to draw the operator's attention to the care to be taken when using the machine.

Electrical socket



Glass use

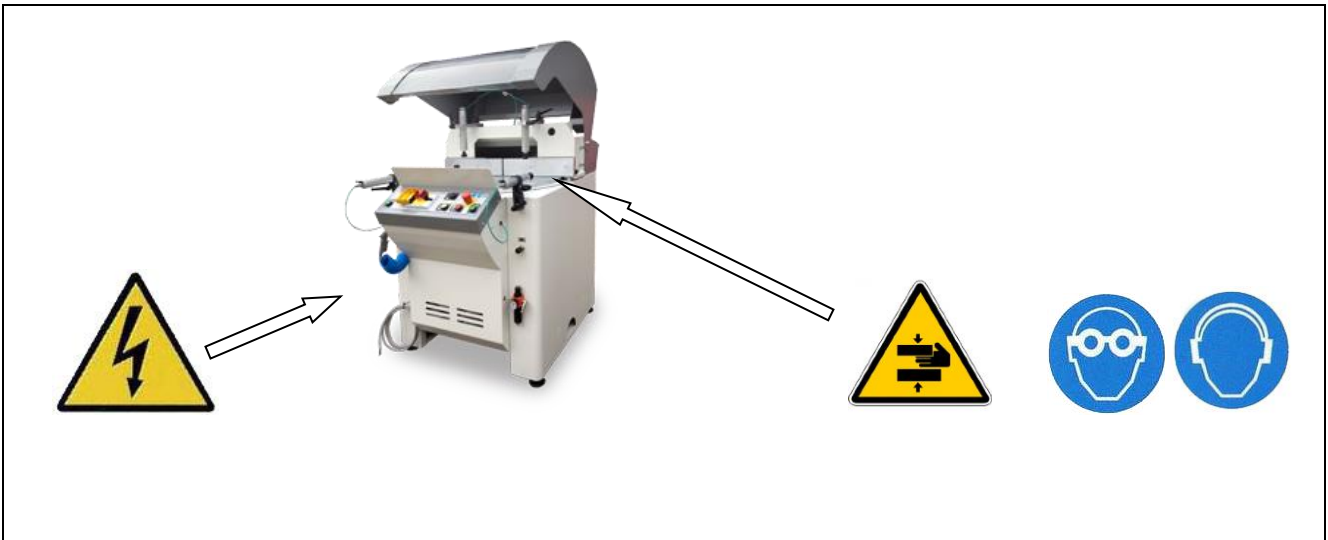


Danger crushing parts



Headset use





GENERAL SAFETY WARNINGS

The machinery was designed to be used from only one operator that must position himself in front of the machine where is possible to reach easily all machine commands including the emergency commands. Moreover the operator must have the complete control of the work cycle.

The operator must immediately stop the operations in progress if for every reason the blade does not go down in the rest position or if any anomaly is noted.

The operator must stop the operations in progress if other people approach the machine.

LIGHTING

Must be provided adequate lighting, natural or artificial in accordance with ISO 8995-89 on lighting at the workplace.

GROUNDING SYSTEM

Must be performed at CEI 64-8.

The operator must necessarily turn off and lock the main switch and unplug the machine from the air by venting the pressure from the air system if:

- must clean or remove protective casing to make any type of operations, he must wait the time required for the stopping of the blades and their return to the rest position.*
- to carry out maintenance work in the machine working areas.*
- to carry on whatever operation in correspondence of the machine blade.*
- to carry on whatever adjustment operation on the machine.*

The machine is equipped with safety devices: it is prohibited any alteration, modification or partial removal of these devices.

Check at the beginning of each work shift their presence and efficiency, otherwise alert immediately the responsible person.

The use of compressed air to clean or to blow up the chips must be carried on only with adequate eyes protection (glass).

The electrical equipments can cause accidents.

The work areas should not be approached with the hands, being present in the machine components with sharp or high pressures and movements unwary can cause injury.

For every reason do not let unauthorized personnel to operate on the machine.

Do not wear jewels, unfastened, loose-fitting and dangling clothes that could catch in the moving parts.

It is advised the use of suitable clothing, safety shoes, safety glass, face masks.

Do not start the machine if there is any anomaly.

The working area must be always clean and dry.

During the assembly and disassembly of casing or other parts, do not align any holes with your fingers but with appropriate tools as there may be danger of crushing.

INTENDED USE

The cutting machine is adequate to cut light aluminium profiles using appropriate blades.

NOISINESS

average sound vacuum pressure: 71,0 dba

average sound pressure at work: 86,4 dba

vacuum sound pressure: 87,0 dbwa

sound pressure at work: 101,0 dbwa

vacuum l0p user place: 81,0 dba

l0p user place at work: 97,0 dba

maximum sound pressure level in the user place 119,0db

It is advised the use of individual safety protection devices against noise in the case of prolonged use of the machine.

PACKING

The machine is supplied with a shrink-wrapping.

LEVELLING

The machine has to be levelled transversely and longitudinally.

OPERATING TEMPERATURE

From 10 °C to 40 °C.

CLEANING

The machine should be cleaned with detergents, non-acids or non-aggressive to paints, we recommend specific industrial products.

Do not use acids, gasoline, paint thinner, turpentine or petroleum.

Use gloves and suitable clothing

SAFETY DEVICES

Pressure switch of minimum pressure, if the pressure is not sufficient the blade will not start.

Valve of low and high pressure: when closing the clamps the pressure is about 2.5 bar only when pressing the two buttons and the work cycle begins then takes over a pressure of about 7 bar, to prevent crushing even if slight of the hands.

One way valves on the clamps: if the pressure is missing the clamps will remain closed and the profile locked.

Command cycle with two hands: you have to press both buttons simultaneously to start the cutting phase, with two-hand safety valve. The working cycle is interrupted releasing one of the two buttons.

Fixed protective casing.

Blade casing with protective strips of plastic against-intrusion. Replace them immediately if they get weared.

At the rear of the turntable were applied two mechanical stops that prevent direct the plane in positions that may cause the meeting of the blade with the iron structure.

RESIDUAL RISKS

Despite the barriers and safety devices, the machine has the residual risks caused by improper use of the machine or unpredictable situations. These risks are reported with technique symbols:



Please be aware that in the electric panel even with main switch off there is electricity.

The pneumatic circuit even if disconnected remains under pressure. If in case of malfunction the blade does not come down, do not put your hands near to the work area until the blade is fully back and stopped. The operator must use precautions and individual devices according to the current legislation: glasses, gloves, headsets and all that is necessary according to the residual risk analysis in the workplace.

The use of compressed air to clean or to blow up the chips must be carried on only with adequate eyes protection (glass).

It is advised the use of suitable clothing, safety shoes, safety glass, face masks.

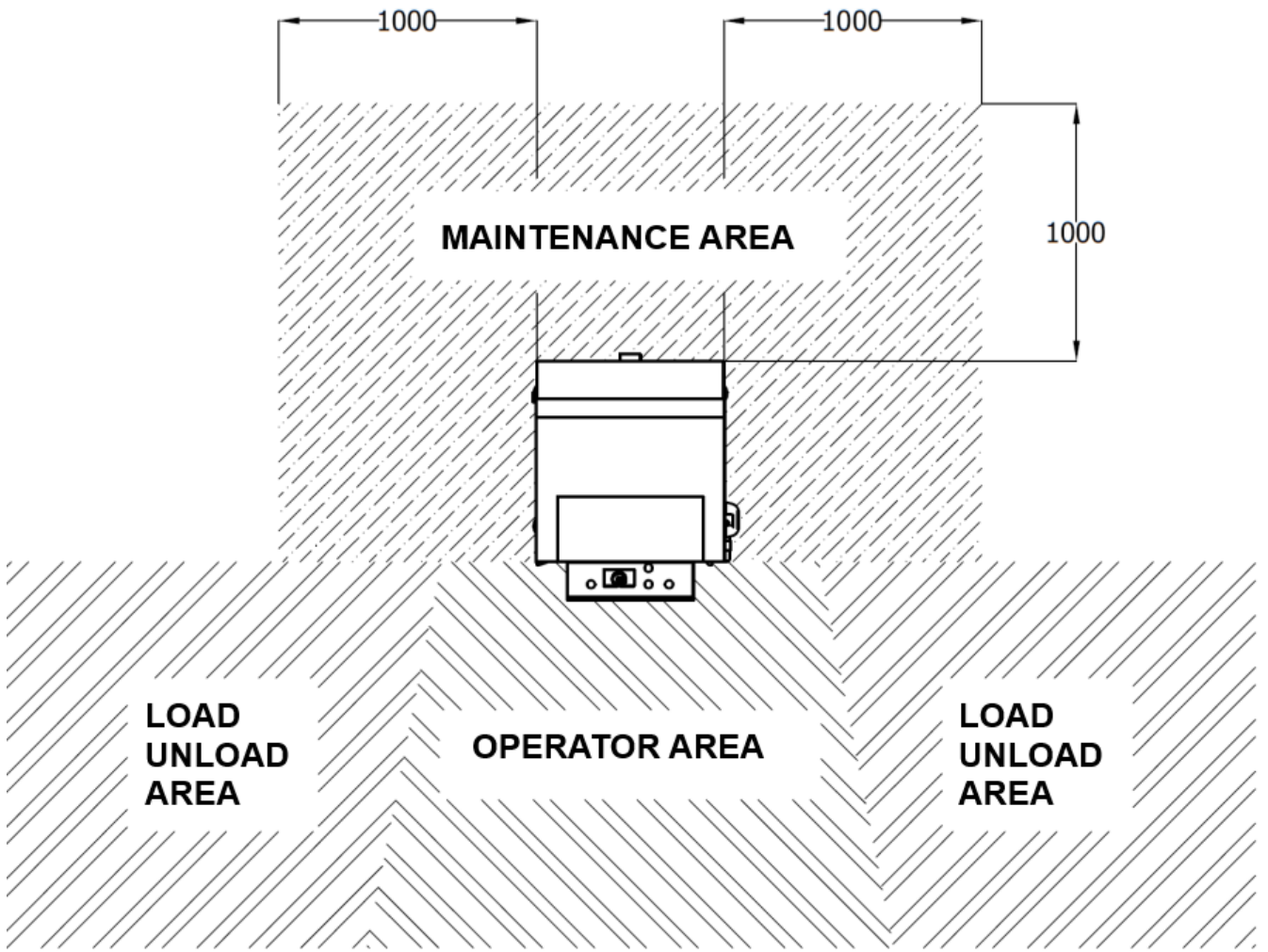
Do not start the machine if there is any anomaly.

During the assembly and disassembly of casing or other parts, do not align any holes with your fingers but with appropriate tools as there may be danger of crushing.

The safe area is the area indicated as **operator area**, in the rear area indicated as **maintenance area** must not stay anyone, particularly if you do not equip the machine with a chips and fumes extractor, as there is a filler pipe from which chips and fumes can be expelled. It is therefore necessary to provide optionally a bag or a suitable container for the collection of any chips.

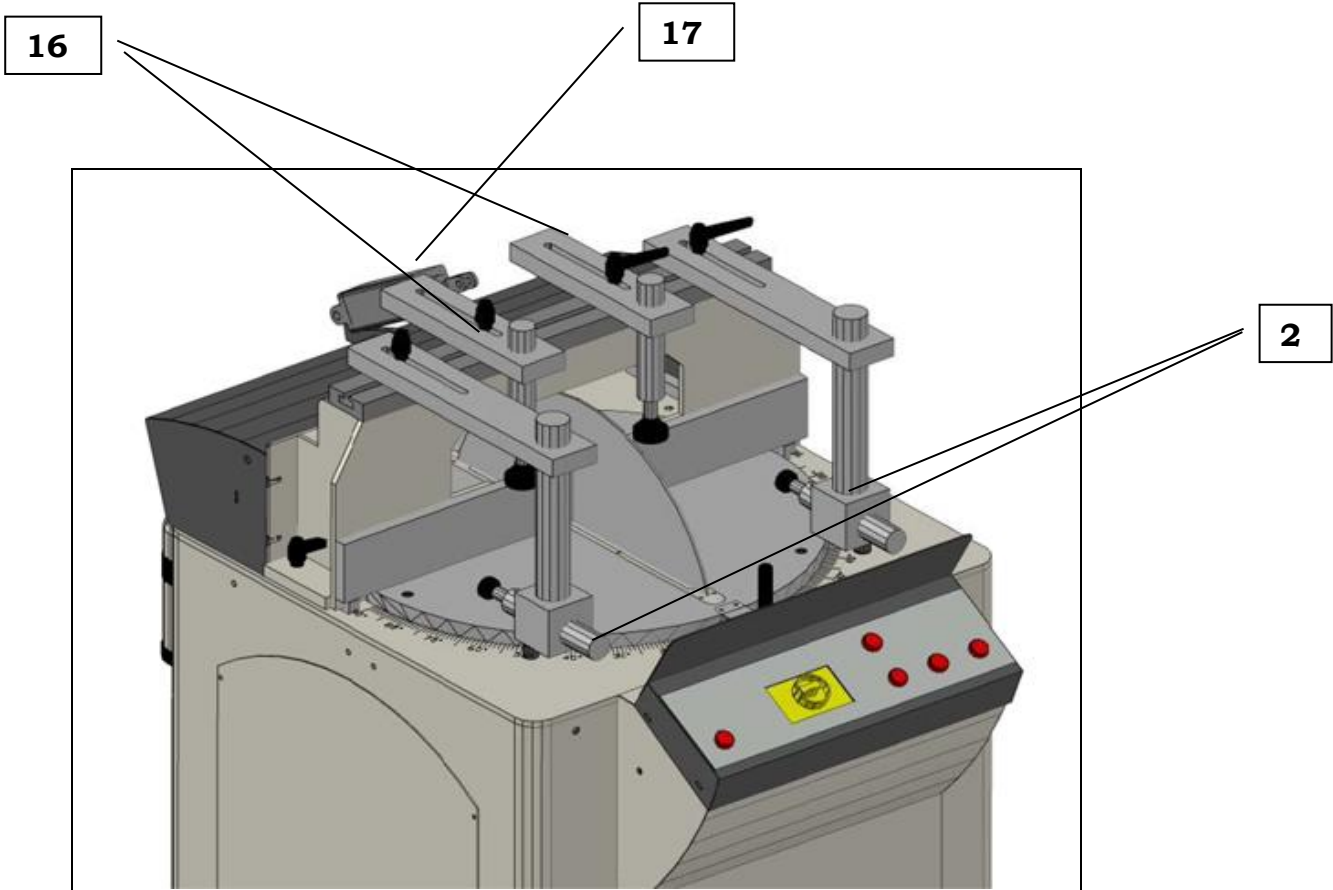
It is forbidden to insert objects, tools or body parts inside the filler pipe for the suction of the chips: this action can cause damage to people and/or property.

The lateral area indicated as **load area** must be used only for the eventual loading and unloading of profiles, only when the machine is off.



6 LIST OF MACHINE COMPONENTS



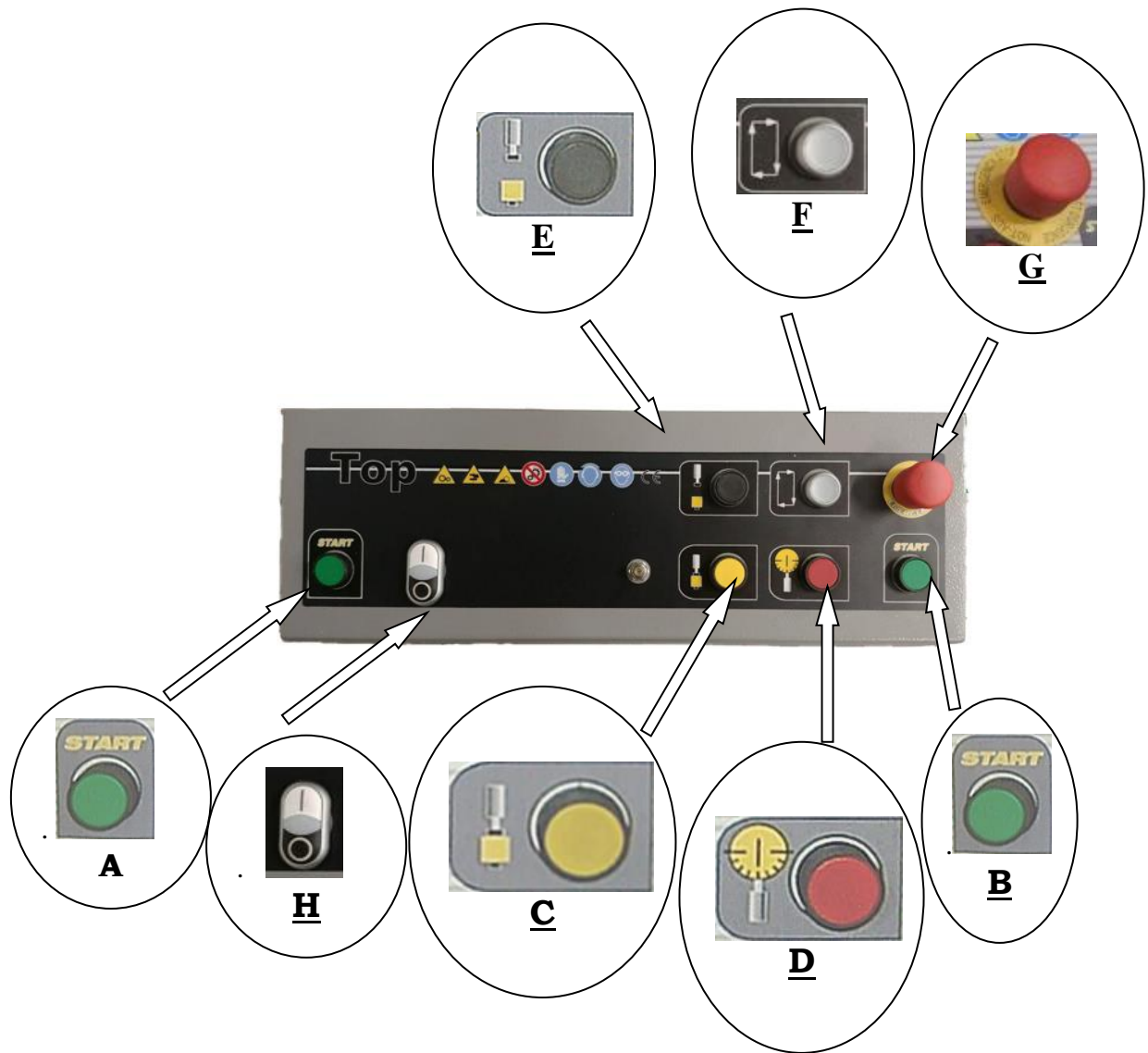


UCM 600

1	PROTECTION COVER
2	HORIZONTAL CLAMPS
3	VERTICAL SQUARE
4	WORKING TURNING TABLE
5	SQUARE REGULATION HANDLE
6	-45° LOCKING OF THE TABLE
7	AIR GUN
8	BLADE RISING REGULATOR
9	PRESSURE SWITCH

10	CONTROL PANEL
11	LOCKABLE SWITCH
12	45° LOCKING OF THE TABLE
13	GONIOMETER
14	MOVING HANDLE
15	SHEET METAL SQUARE
16	VERTICAL CLAMPS
17	PNEUMATIC CYLINDER FOR PROTECTION
18	

6 LIST OF MACHINE COMPONENTS

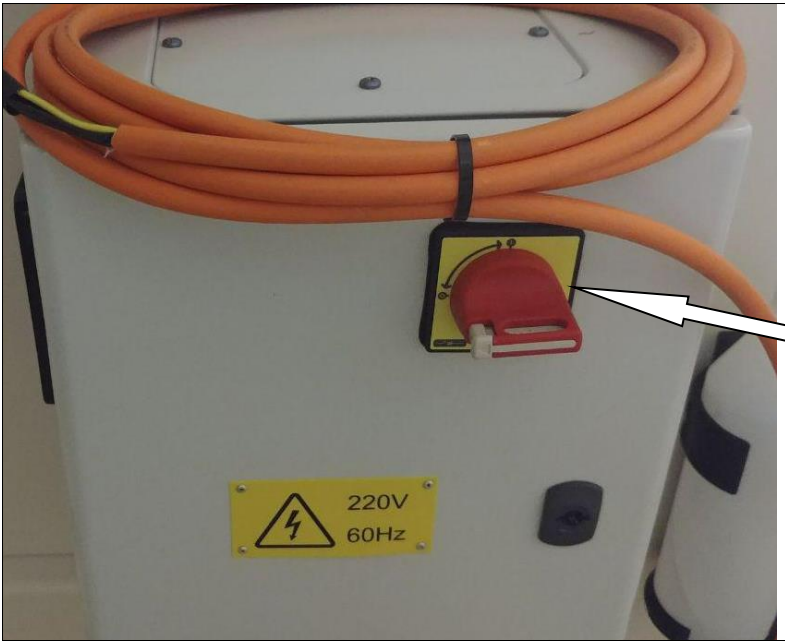


<u>A</u>	BLADE CUTTING START BUTTONS
<u>B</u>	
<u>C</u>	CLAMPS CLOSING BUTTON
<u>D</u>	UNLOCKIN/ LOCKING WORKING TABLE BUTTON
<u>E</u>	CLAMPS OPENING BUTTON
<u>F</u>	ENABLE MACHINE BUTTON
<u>G</u>	EMERGENCY BUTTON
<u>H</u>	START/STOP MOTOR BUTTONS

7 HOW TO USE

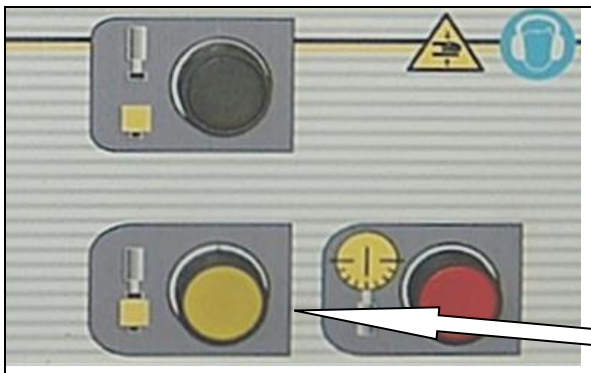


7.1 PRELIMINARY WORK SEQUENCE



To turn on the cutting off machine the lockable switch must be activated (A).

A



It is necessary to close the clamps otherwise the blade motor will not run. To close the clamps the CLAMPS CLOSING BUTTON (B) must be pressed.

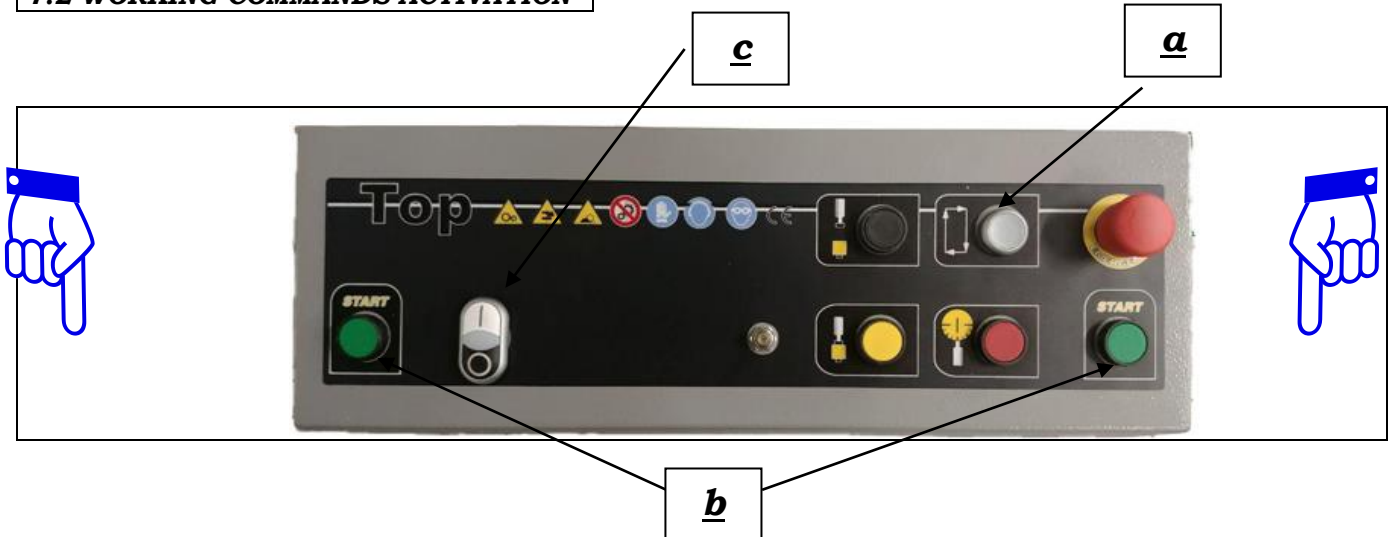
B

IMPORTANT!



Start the work sequences below only after a complete reading of this manual and the consciousness that you understand the correct use of the machine. If the above mentioned conditions are not respected, serious damage can be caused to persons and property.

7.2 WORKING COMMANDS ACTIVATION

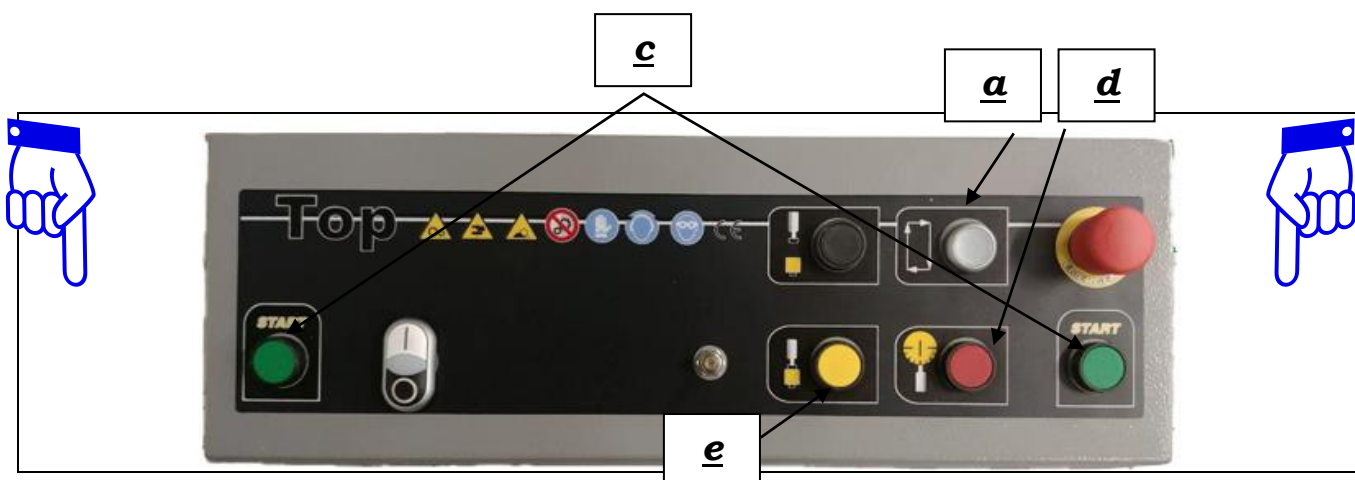


<u>a</u>	LOCKABLE SWITCH TO RUN BLADE MOTOR
<u>b</u>	BLADE RISING BUTTON
<u>c</u>	START/STOP BLADE MOTOR BUTTON

After the clamps are closed and the enable machine button (a) is activated, it will be possible to start the blade motor (c). Press both the (b) buttons to start working. If one of the two buttons is released the blade will return to the original position.

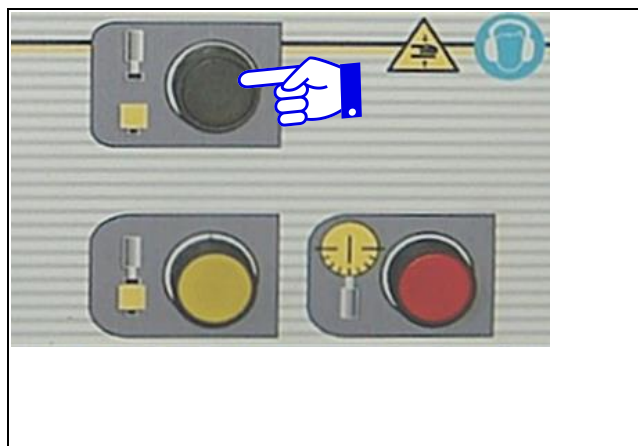
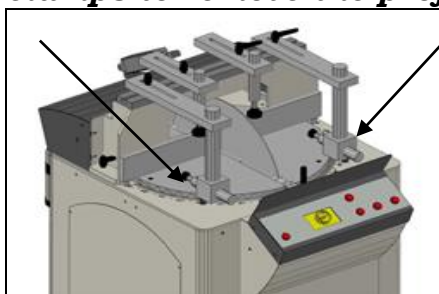
7.3 WORKING PHASE

Unlock the head keeping pressed the unlocking button (d). Move the working table and leave in the desired working angle. Lock the profile between the clamps pressing the (e) button.



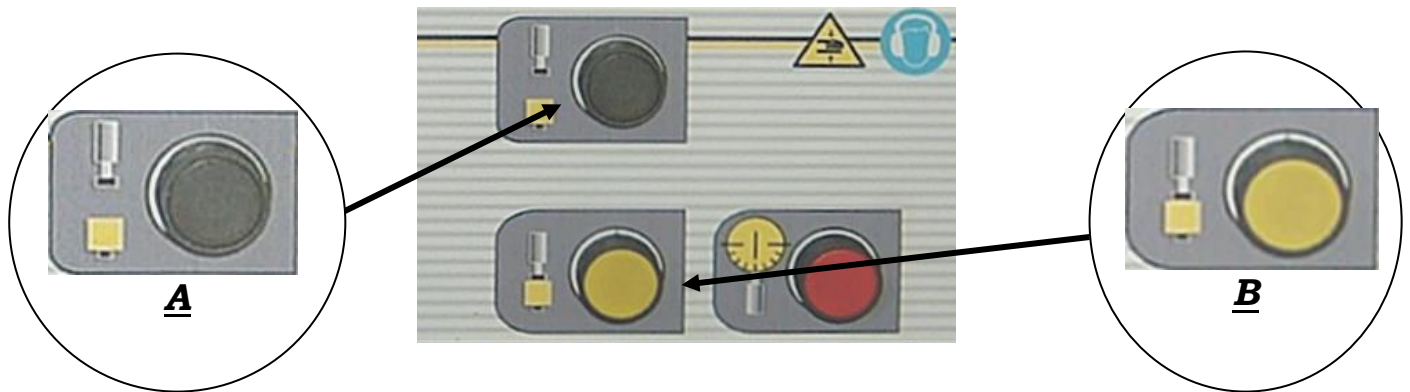
Press at the same time both (c) buttons to close the protection cover and start the blade rising. Once finished release both the buttons to permit the descending of the blade.

When the work is completed open the protective cover and the pneumatic clamps to remove the profile.



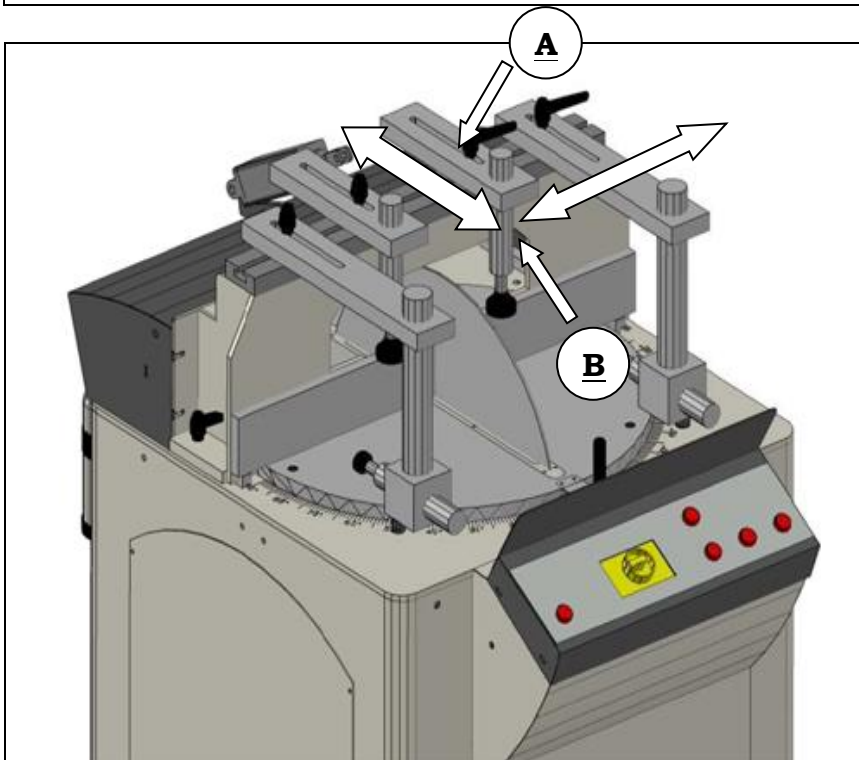


BE SURE IN EVERY WAY OF THE CORRECT POSITIONING OF THE PROFILE BETWEEN WORKING TABLE AND CLAMPS.



To close the clamps press (B) button. When the working phase is finished press (A) button to open the clamps unlocking the worked profile.

9. CLAMPS REGULATION



9.1 HORIZONTAL CLAMPS REGULATION

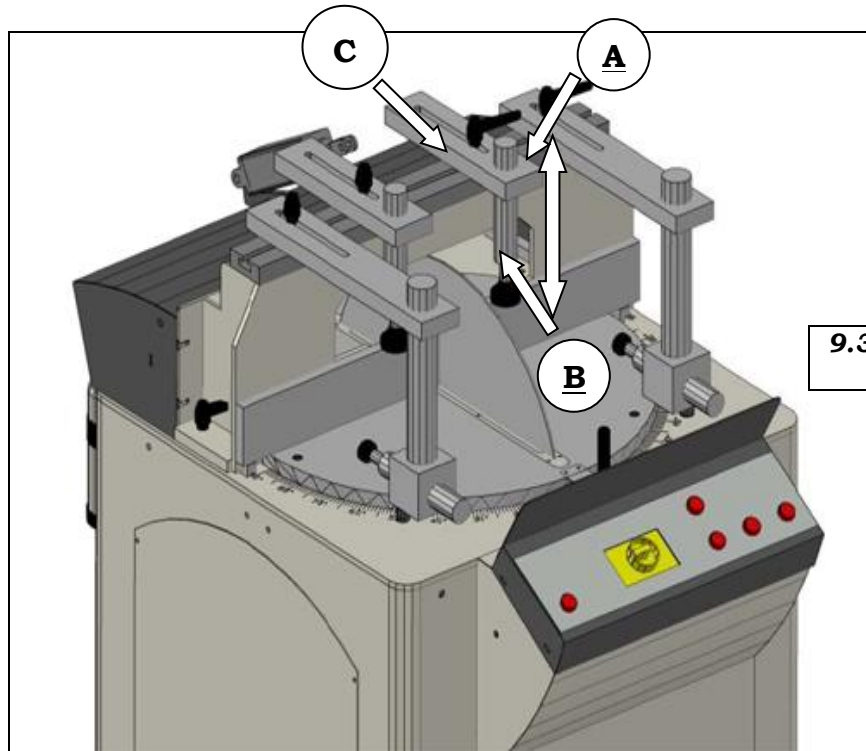
To regulate the horizontal clamp movement:

- Unscrew the jackart (A)
- Move the piston (B) forward or backward till the desired position is reached then lock the jackart (A).

9.2 TRANSVERSAL CLAMPS REGULATION

To regulate the transversal clamps movement:

- Unscrew the jackart (A)
- Move to the left or to the right the piston (B) inside the aluminum support (C) till the desired position.
- Lock the jackart (A)



9.3 HEIGHT CLAMPS REGULATION

To regulate the height of the clamps:
 Unscrew the jackart (A) on the aluminium support (C).
 Move the piston (B) up or down till the desired position is reached. Lock the jackart (A)

10. BLADE RISING REGULATIONS

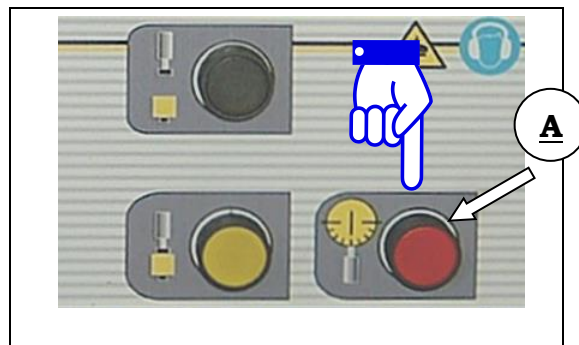
It is possible to regulate the blade rising speed depending on the profiles that the machine has to cut. Turn the knob **(A)** clockwise or anticlockwise to increase or decrease the speed.



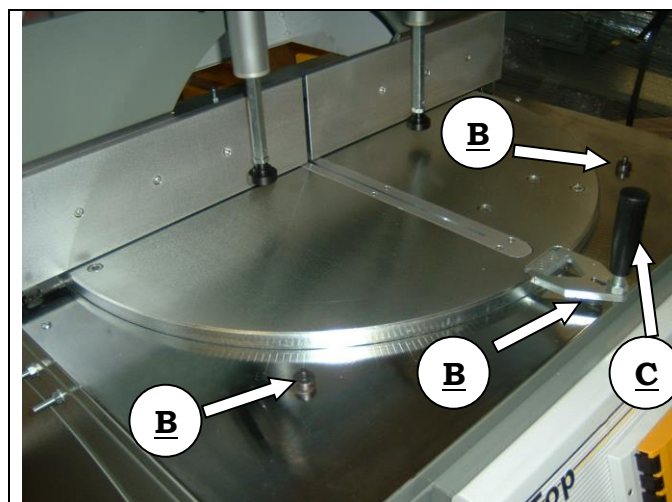
11 • TURNING TABLE ADJUSTMENT



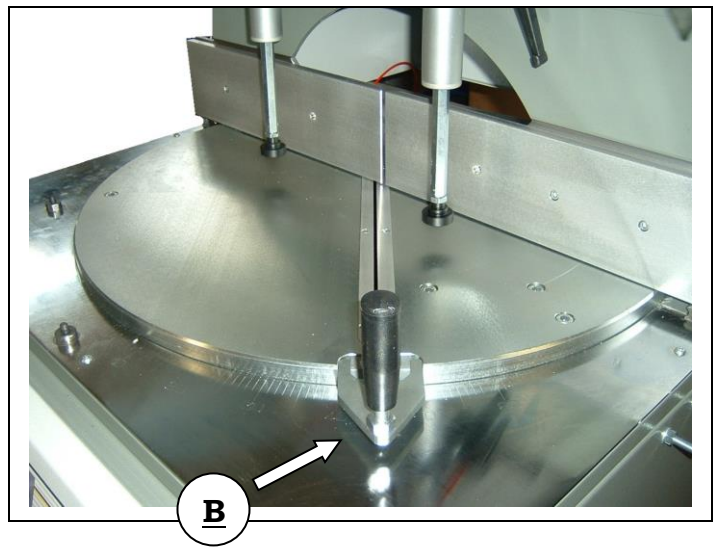
The cutting angle can be regulated through the table rotation. First the turning table has to be unlocked then the button **(A)** has to be pressed. Move the table in the desired position then release the button **(A)** to lock the table.



The machine has three fixed points **+45°**, **0°** and **-45° (B)**. To rotate the working table use the knob **(C)**.



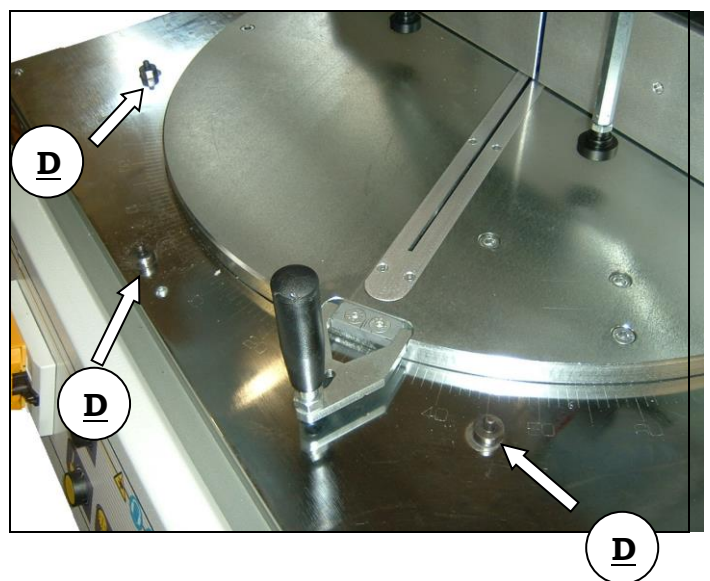
Rotate the table till it is positioned to the **45°reference (B)** if you need a 45° cutting.



To cut at intermediate angles just leave the table in the intermediate position then release the locking button.



If the machine does not cut properly in one of the imposed angles (**0°/45°/-45°**), regulate with a key the locking eccentric pin (**D**) till the cut will be the most accurate.



12. CUT WITH THE PROFILE SQUARE MOVED



It is possible to move the vertical square through the handles placed on the sides of the machine (E). Unscrew the bolts (F) and move the square where desired. Lock the bolts (F) before starting the cutting cycle.



The cutting with the square moved is possible only at 90°.



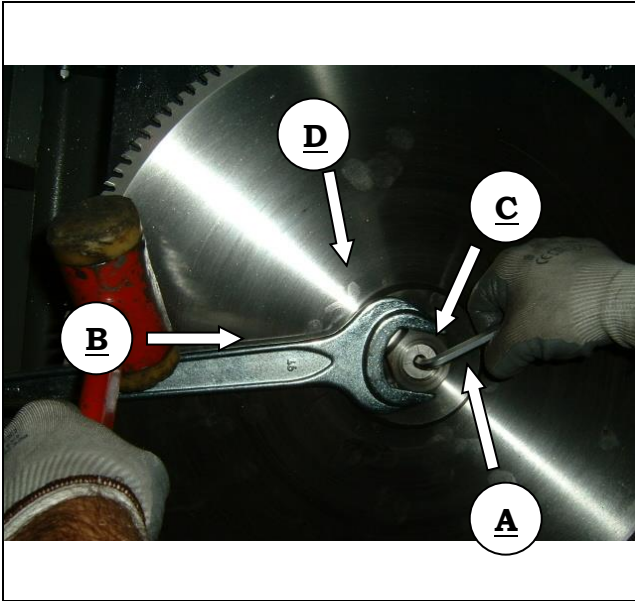
It is therefore prohibited, with the profile square moved, to start the cutting cycle with the blade in different positions from 90°.



In case of cutting with the profile square moved and the blade into different positions from 90° there is a danger of cutting the support plane in aluminum and / or its support. This can cause damage to the blade with the possibility of causing any damage to the operator.



13. REPLACING THE BLADE



To replace the blade follow these instructions:

Put the open wrench **(B)** on the nut **(C)** locking the flange **(D)**. Put the allen wrench **(A)** in the motor shaft rotating it clockwise to unscrew the nut **(C)**.

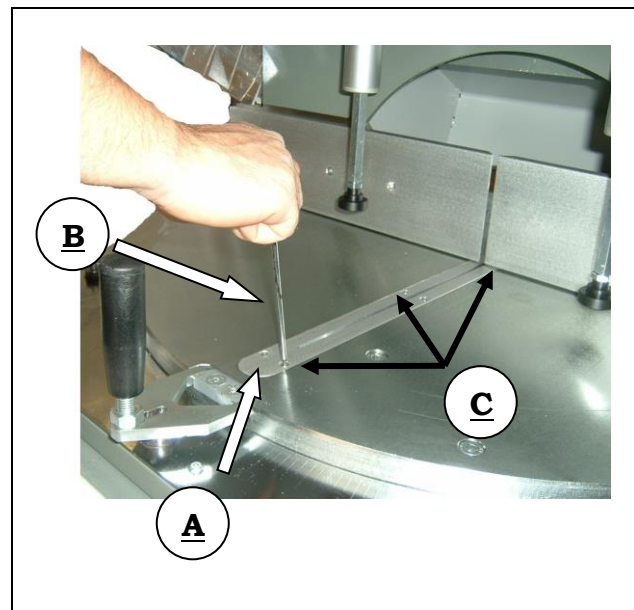
- Remove the nut **(C)** and the flange **(D)**. Insert the new blade in the motor shaft.
- Place the flange **(D)** and the nut **(C)** in the original position locking them with the wrenches.

14. REPLACING THE ALUMINIUM BLADE PROTECTION



To replace the aluminium blade protection **(A)** follow these instructions:

- Unscrew with an allen wrench **(B)** the screws **(C)** as in the picture.
- Remove the old protection and replace it with a new one, then lock it with the wrench **(B)**.



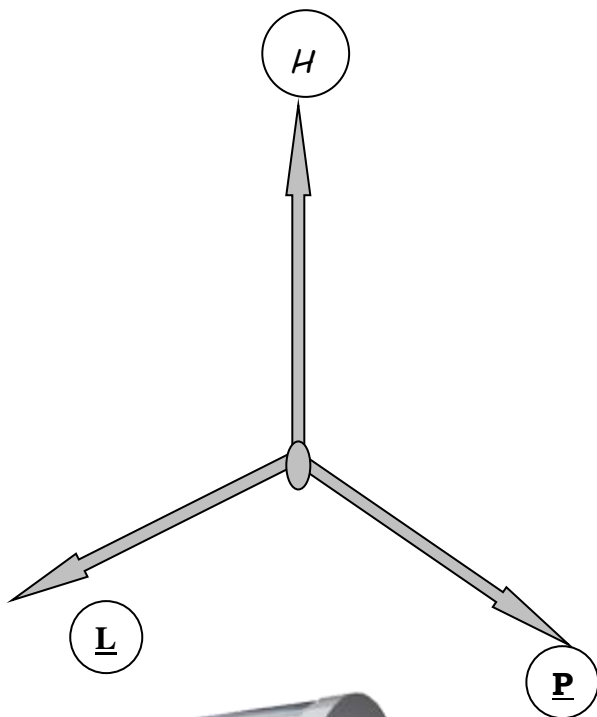
15. TECHNICAL DATA



UCM 600

HEIGHT	H	mm	1500
WIDTH	L	mm	940
DEPTH	P	mm	1090
WEIGHT		kg	450
WORKING TABLE HEIGHT		mm	940
WORKING PRESSURE		bar	7
MIN PRESSURE		bar	7

MAX PRESSURE		bar	10
BLADE MOTOR RPM		rpm	2800
MOTOR POWER		kW	4
AUTOMATIC RISING			
BLADE SHAFT		mm	30



16. CUTTING DIAGRAM



DIAGRAMMA DI TAGLIO TRONCATRICE ASCENDENTE TOP CON LAMA Ø600mm

— angolazione testa 90°

— angolazione testa 45°

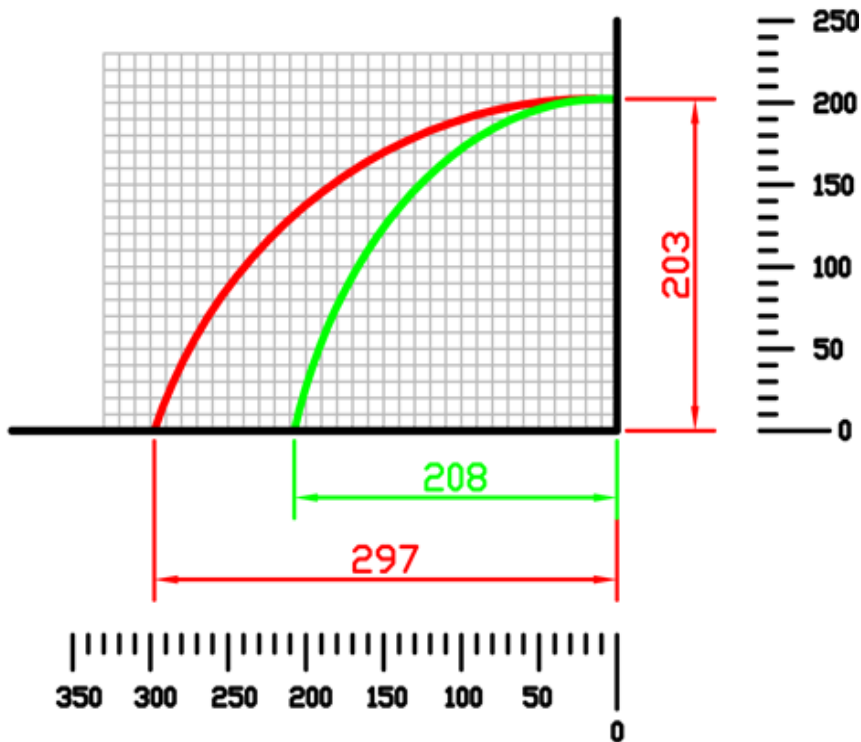
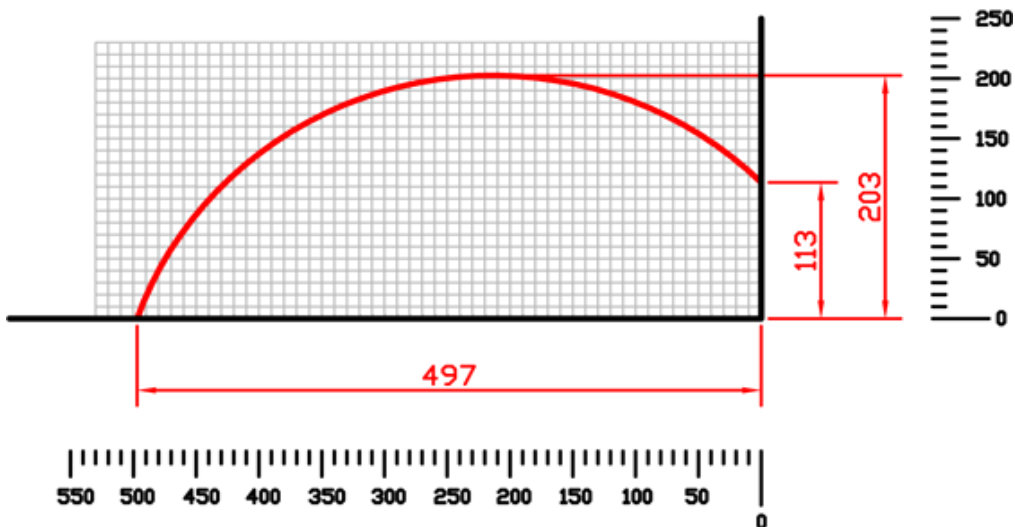


DIAGRAMMA DI TAGLIO TRONCATRICE ASCENDENTE TOP CON LAMA Ø600mm CON SQUADRO SPOSTATO DI 200mm

— angolazione testa 90°



NB: I diagrammi hanno una tolleranza di +/- 3 mm.

17. INSTRUCTIONS FOR MAINTENANCE



WARNING!!

It is important that qualified personnel carry out periodical maintenance, inspections and servicing of the unit used in order to avoid those breakdowns that may, directly or indirectly, cause damage to people, animals or property.

17.1 SETTING UP FOR MAINTENANCE

Before proceeding to carry out any maintenance, it is necessary to cut off the electrical and pneumatic supplies to the machine (remove the plug from the mains electricity and remove the pneumatic supply pipe)

17.2 MAINTENANCE PROGRAM

It is important to carry out the following maintenance operations on a regular basis:

- Clean the machine regularly in order to guarantee good working order and paying particular attention to the organs in movement,

WARNING!! DO NOT USE JETS OF WATER TO CLEAN THE MACHINE AND ESPECCIALY ON ELECTRICAL PARTS.

- Lubricate the machine tools with coolant cutting fluid so that these will never operate when dry. In this way the machining finishes are improved and the useful life of the tools is greatly increased,.

Variations in normal working conditions (noise, vibration, etc.) are indicative of incorrect machine operation, In the event of problems or the need for repair interventions, contact our assistance service or that of our dealer, In any case, follow the instructions contained in this manual for any type of maintenance and/or repair intervention, For anything not expressly contained in this manual it is necessary to contact the local Assistance Service.

17.3 SPECIAL MAINTENANCE

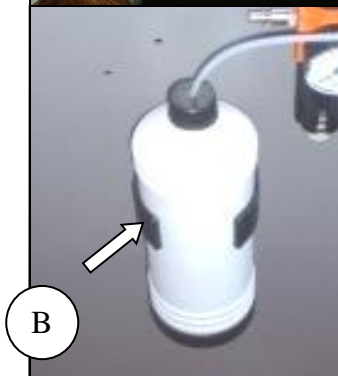
Contact the Assistance Service directly.

17.4 ROUTINE MAINTENANCE

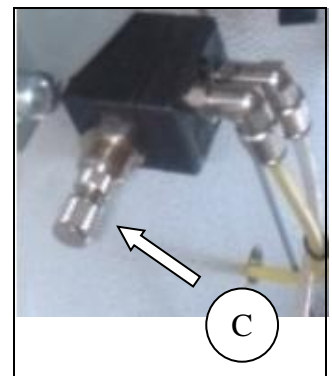
The routine maintenance that are usually requested on this machine are:



To replace the blade due to long time, breakage or simply due to the need for a mill with a different diameter it come's how illustrate in the section 12.



Periodically replace the cooling lubricant that is contained in the relevant tank (B). failure to observe this rule will invariably cause machining to be rougher and the mills to wear out more rapidly In the event that increased tool lubrication is required, use the regulator (C) of the exit of the cooling soupape which is placed inside of the machine near the blade.



18. HOW TO SOLVE ORDINARY PROBLEMS



17.1 COMMON PROBLEMS LIST

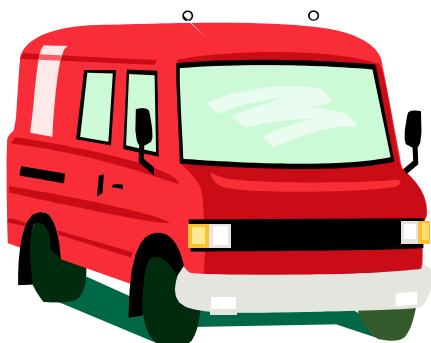


UCM 600

PROBLEMS	CAUSE	SOLUTION
THE MACHINE DOES NOT START	Main switch not enabled	Enable switch
THE MACHINE STOPS DURING OPERATIONS	Missing phase	Enable phase
	Thermal overload	Find the cause and eliminate it
BAD CUTTING	Worn blade	Replace the blade
	Insufficient lubricant	Add lubricant
THE LUBRICANT DOES NOT ARRIVE	Lubricant finished	Replace lubricant
	Lubricating circuit blocked	Check oil cleanness or blow compressed air through the atomiser connection
ANOMALOUS WEAR OF PNEUMATIC PARTS	Lack of lubricant in the pneumatic system	Add lubricant
	Compressed air not purified	Replace filter
	Water in the pneumatic system	Check and clean outlets
THE MACHINE DOES NOT CUT PROPERLY AT 90°	Eccentric pin moved	Section 11
THE MACHINE DOES NOT CUT PROPERLY AT 45°	Eccentric pin moved	Section 11

17.5 CUSTOMER SERVICE

The Assistance Service network is available both nationally and internationally. For specific problems, please contact THESE NUMBERS:



TEL.: +905-542-2055



WARNING!!

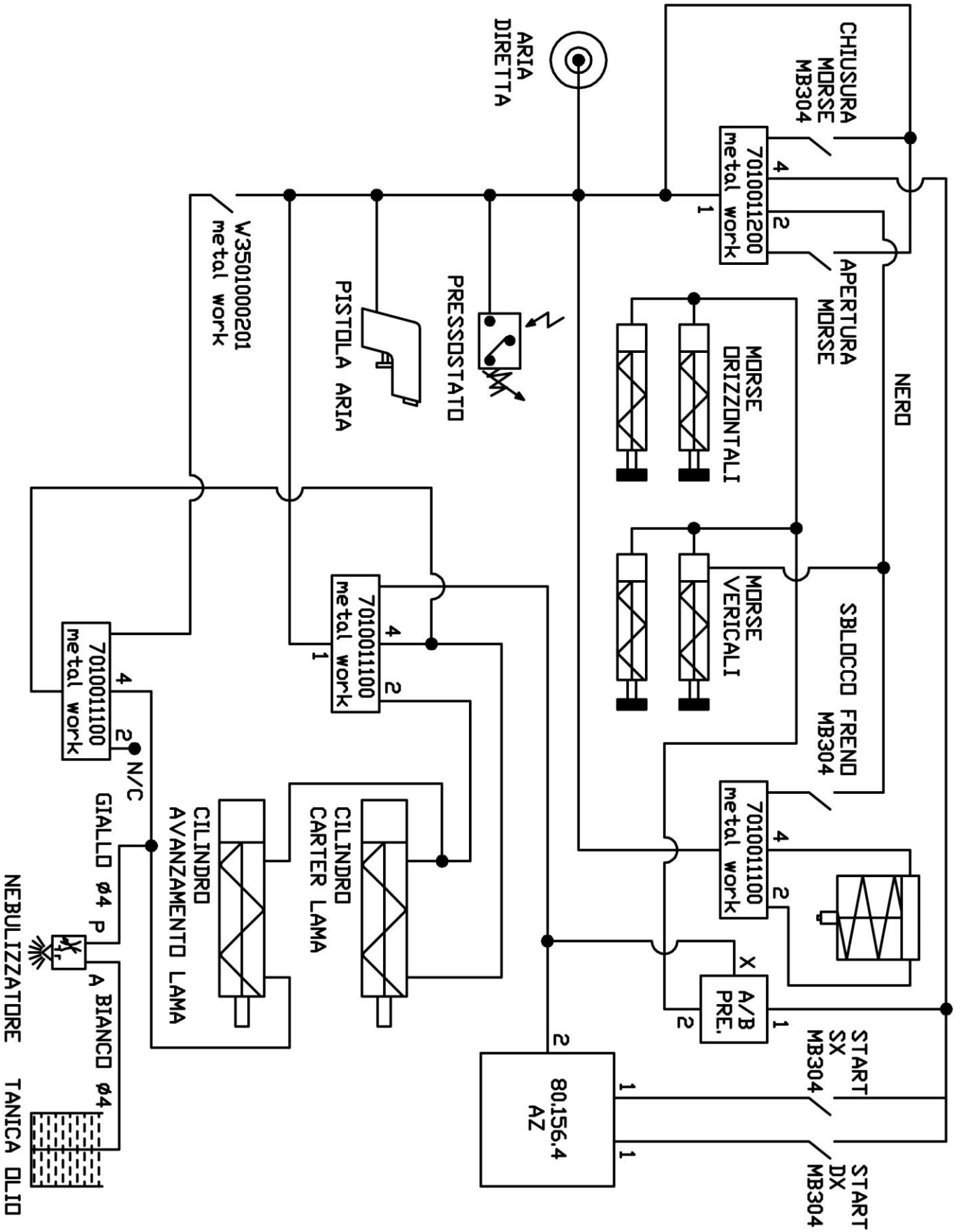
WHEN THE MACHINE IS TO BE DECOMMISSIONED BECAUSE IT HAS BECOME OBSOLETE OR IT HAS IRREMIEDIABLY BROKEN DOWN, IT MUST FIRST OF ALL BE PUT OUT OF SERVICE BY BEING RENDERED INOPERATIVE AND ANY DANGERS REMOVED. DISCONNECT THE MACHINE FROM THE MAINS ELECTRICITY, DISCONNECT THE AIR PIPES AND REMOVE ALL TOOLS AND ADDITIONAL PARTS. COVER THESE ELEMENTS WITH PROPERLY SEALED WRAPPING. SEAL THE MACHINE INSIDE STURDY PACKAGING AND PROCEED TO ITS DISPOSAL IN CONFORMITY WITH THAT SPECIFIED IN THE STANDARDS AND REGULATIONS IN FORCE. CONTACT THE RELEVANT LOCAL BODIES FOR THIS OPERATION.

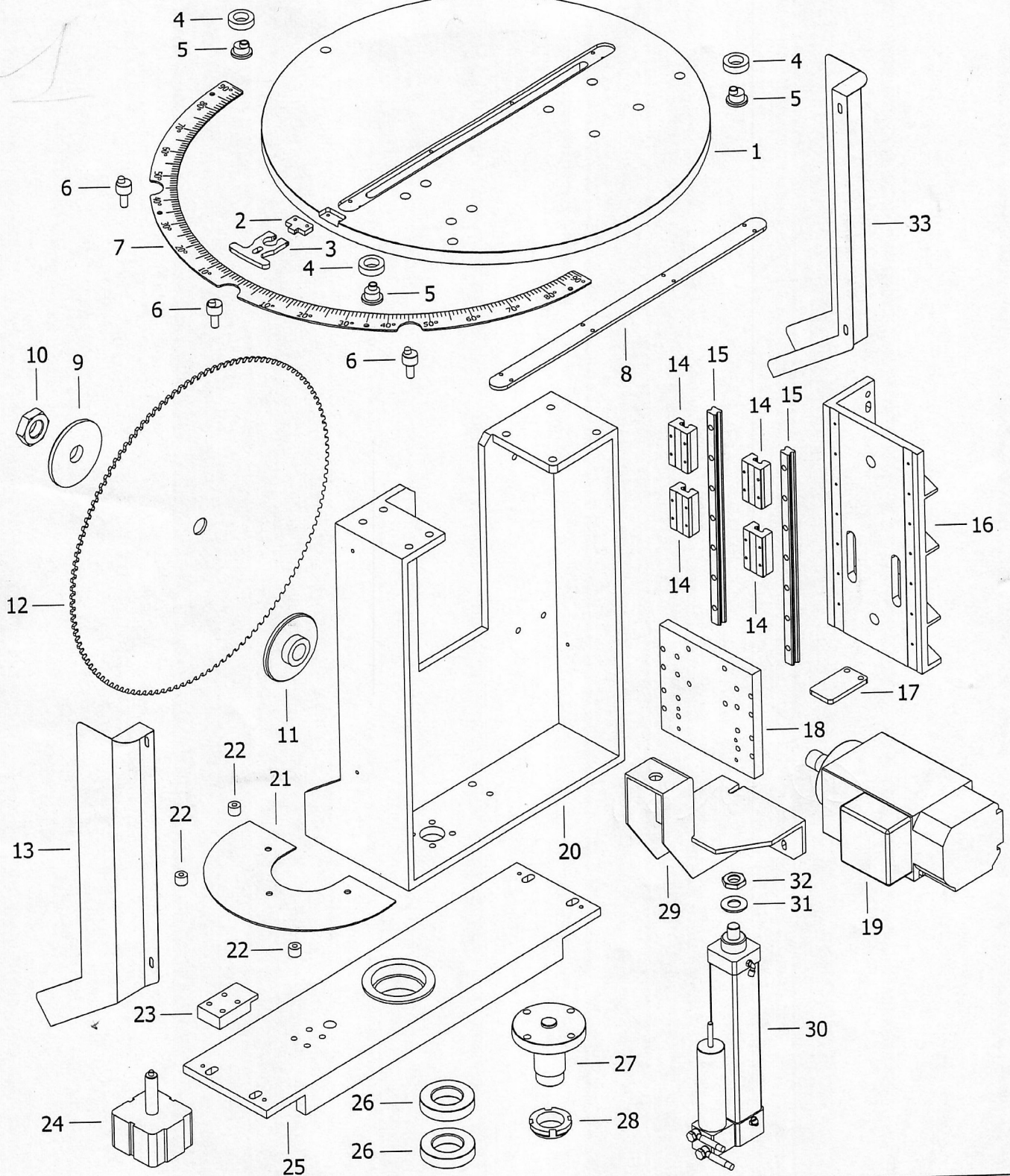
WARRANTY

AMERI-CAN Machinery ensures that the machine purchased, before being delivered to the customer, has been tested with positive result. Warranty is of 12 months and refers to the quality of the material and the lack of manufacturing defects. In case of replacement of defective parts, the customer is required to pay the shipping and packaging. Damages for alterations, drop and non correct use of the machine are excluded from the warranty. The warranty is not valid in case of non compliance with the conditions of pay-ment established at the time of acquisition of the machine.

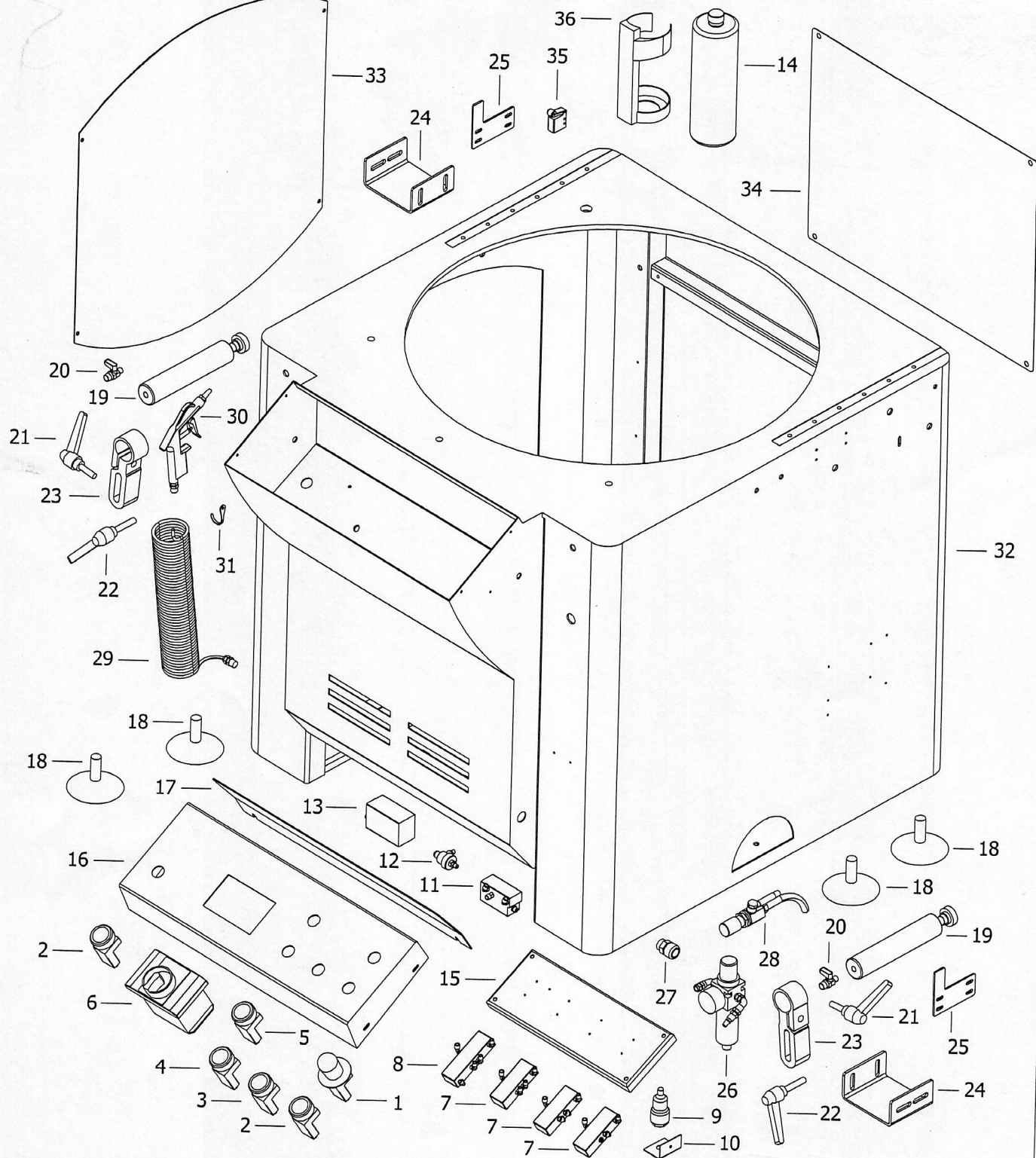
In assistance cases, expenses related to spare parts, which are not included in the warranty, and other costs incurred, must be paid directly to the technician who will take care of the technical support. For these costs you will receive an invoice.

PNEUMATIC DIAGRAM



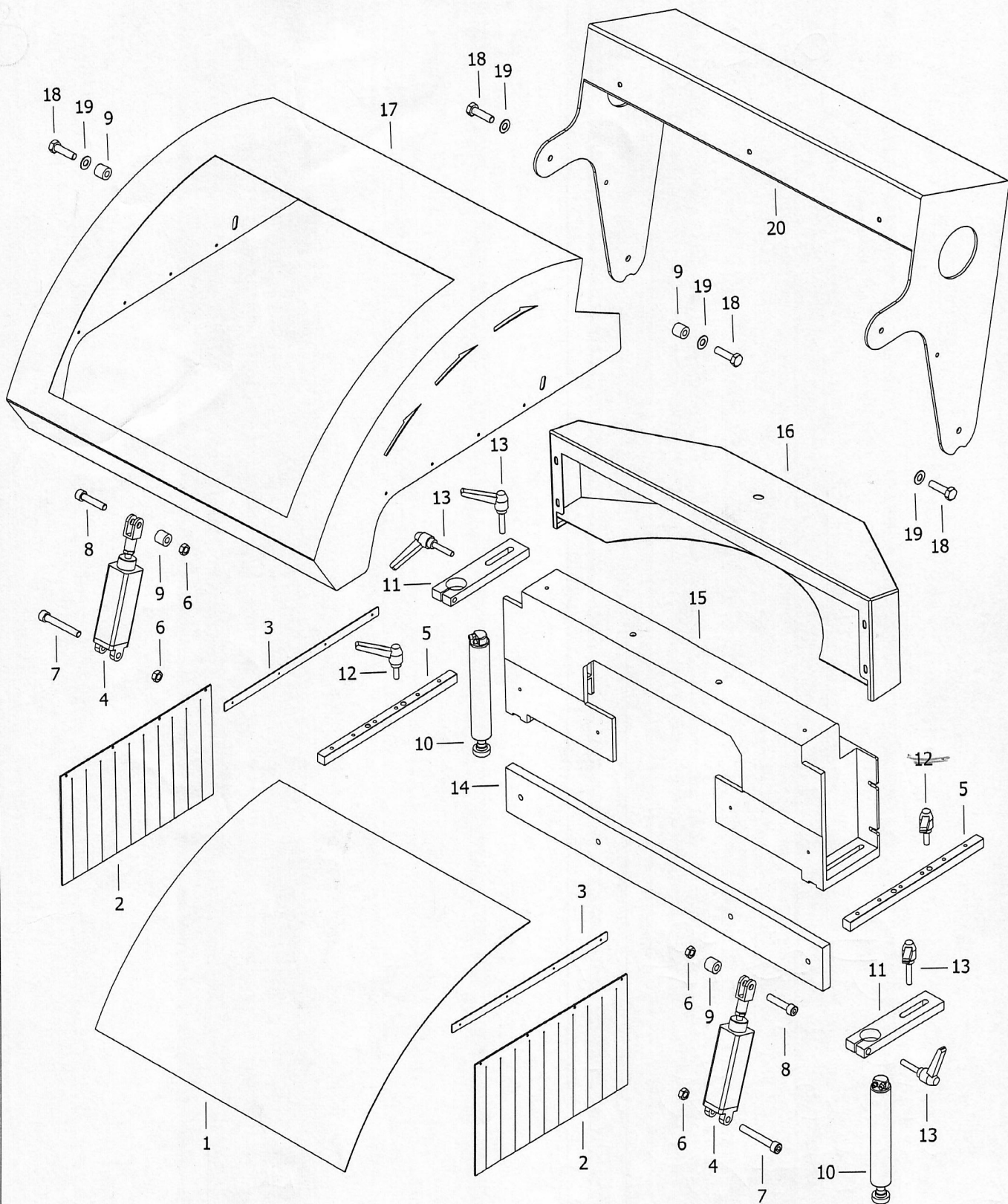


1	Disco Top600 _ LE-31444	12	Lama HM Ø600 F.30 Z.140 B.4,4 _ GP-71291	23	Blocco freno Top600 _ LE-31615
2	Attacco fermo gradi Top600 _ LE-33325	13	Scarico lama sx Top600 _ LE-32138	24	Cilindro freno trave C3 _ CN-70289
3	Fermo gradi Top600 _ LE-33326	14	Pattino guida 20x20 _ DD-70567	25	Piastra rotazione Top600 _ IR-31616
4	Cuscinetto CN 6005 _ DD-70179	15	Guida uscita lama Top600 _ KL-33274	26	Cuscinetto mod. 7210ZZ _ DD-70917
5	Eccentrico disco _ LA-32058	16	Tronco Top600 _ IR-32135	27	Perno rotazione Top600 _ LA-31617
6	Eccentrico gradi _ LA-32551	17	Battuta carrello Top600 _ LE-32137	28	Ghiera autobloccante M45x1,5 _ FL-70688
7	Goniometro Top600 _ GG-32182	18	Carrello Top600 _ LE-32143	29	Staffa motore Top600 _ IR-32134
8	Salva lama Top600 _ LE-34041	19	Motore 2,2 KW _ BK-70188	30	Cil. oleop. 50/245 RU M M20X1,5 _ CN-71361
9	Flangia anteriore lama _ LE-30855	20	Sostegno disco Top600 _ IR-32132	31	Rondella cilindro lama
10	Dado M30x1,5 h.24mm dx _ EC-71206	21	Disco freno Top600 _ LE-31608	32	Dado cilindro lama M20x1,5
11	Flangia posteriore lama _ LE-31976	22	Distanziatore disco freno Top600	33	Scarico lama dx Top600 _ LE-32139



1	Fungo di emergenza _ AA-70151	13	Valvola sicurezza bimanuale _ BT-71251	25	Battuta squadro verticale Top600 _ LE-34071
2	Pulsante start bimanuale	14	Borraccia 1Lt _ CY-70021	26	Gruppo filtro aria 1/4 _ CA-70042
3	Pulsante freno	15	Pannello impianto pneu. Top600 _ LE-32851	27	Skintop PG11 grigio _ BC-70089
4	Pulsante chiusura morse	16	Pannello pulsanti Top600 _ IR-32849	28	Regolatore flusso cilindro salita lama
5	Pulsante apertura morse	17	Paramani Top600 _ LE-32823	29	Spirale Rylsan Ø6 _ AX-70102
6	Interruttore MT PKZ0-6,3 _ AA-70146	18	Piedino M16 L60 _ EC-70000	30	Pistola aria _ CA-70052
7	Valvola monostabile 5/2 ecc. pneumatica _ BT-70307	19	Cilindro 35/115 _ CN-70110	31	Gancio pistola aria _ LE-32251
8	Valvola bistabile 5/2 ad acc. PN _ BT-70049	20	Rubinetto M/F 1/8 _ CA-70135	32	Basamento Top600 standard _ IR-34176
9	Pressostato regolabile 1/4 2,5-9 Bar _ CA-70045	21	Maniglia a ripresa M12x40 R83 _ FS-70111	33	Pannello lama Top600 _ IS-31424
10	Staffa supporto pressostato _ LE-30038	22	Maniglia a ripresa M12x60 R83 _ FS-70112	34	Chiusura post. basamentoTop600 _ LE-32136
11	Elettrovalv.2 pressioni N.C. interfaccia 1/8" _ BR-71658	23	Estruso morsa piccola MY07 _ TB-31601	35	Microvalvola leva rullo VME1-05 NO _ BT-70554
12	Valvola scarico rapido VSC588 _ CA-71076	24	Staffa attacco rulliera _ LE-30511	36	Supporto borraccia 1Lt _ CY-70160

TAB. 3



1	Plex Top600 _ GG-34328	9	Distanziatore cappotta _ LE-33245	17	Carter superiore Top600 _ IR-34179
2	Fascia cappotta Top600 _ GG-32324	10	Cilindro 35/115 + valvola blocco _ CN-70401	18	Vite M12x40
3	Bordo gomma Top600 _ LE-33265	11	Blocco morsa verticale _ LE-31628	19	Rondella per vite M12
4	Cilindro $\phi 40$ corsa 50 _ CN-71719	12	Maniglia a ripresa M10x20 R83 _ FS-70419	20	Sostegno carter lama Top600 _ IR-34070
5	Guida castello Top600 _ KL-32202	13	Maniglia a ripresa M12x40 R83 _ FS-70111	-	
6	Dado M12	14	Piano frontale Top600 _ LE-32191	-	
7	Vite M12x90	15	Castello morse orizzontali Top600 _ IR-32598	-	