



Esteemed Customer,
Thank you for choosing **ÖZÇELİK** products.

We would like this product, which has been manufactured by use of high technology and precisely checked, in order to offer you the best service quality and performance. Therefore, carefully read and keep the user's manual before using the product. In the case that the product is operated by someone other than its usual operator, ensure that such person reads this manual beforehand. In case of transferring the product to someone else, hand over the user's manual too.

This manual is prepared for introducing you to the features and operation of the machine and providing information necessary for the regular use and maintenance of the machine. The manual includes the general safety rules as well as technical data related to the product, on-site installation, commissioning, operating and periodic maintenance information. Unless otherwise stated, we recommend you not to carry out any repair or make any interruptions on the machine.

All work requiring dismantling of machine parts must be performed by qualified technical personnel. Make sure that you follow the operating and maintenance instructions in order to get the most efficiency from your machine. Remember that **ÖZÇELİK** is always at your disposal with its technological know-how and experience for any further information. **ÖZÇELİK** hopes that your product will provide you with the satisfaction that you expect from it.

- **Installation and Commissioning:** Installation and commissioning must only be carried out by **ÖZÇELİK** service staff.
- **Operation:** The machine must only be used by operators trained by **ÖZÇELİK** service staff.
- **Maintenance:** The maintenance of the machine must only be carried out by operators trained by **ÖZÇELİK** service staff.



NOTE: Remember that this user's manual may apply for other models too. The differences between the models are stated in details in the manual.



NOTE: The manufacturing company may not be held responsible for the mistakes possible to be present in this manual, and in addition, the use of the machine in a way not described herein or for any failures that may arise from faulty maintenance. All rights of the manufacturing company are reserved. No data, description or picture contained in this manual are binding. The manufacturing company reserves its right to make modifications on the machine for technical or development purposes without the requirement to notify

Necessary Details for Support

In any written or verbal communication about the machine to be held with the manufacturing company, the statement of the following information is compulsory:

- ✓ Model of machine,
- ✓ Serial number,
- ✓ Name of the dealer from which the machine has been bought,
- ✓ Date when the machine has been bought,
- ✓ Definition of the present failure,
- ✓ Description of the work done,

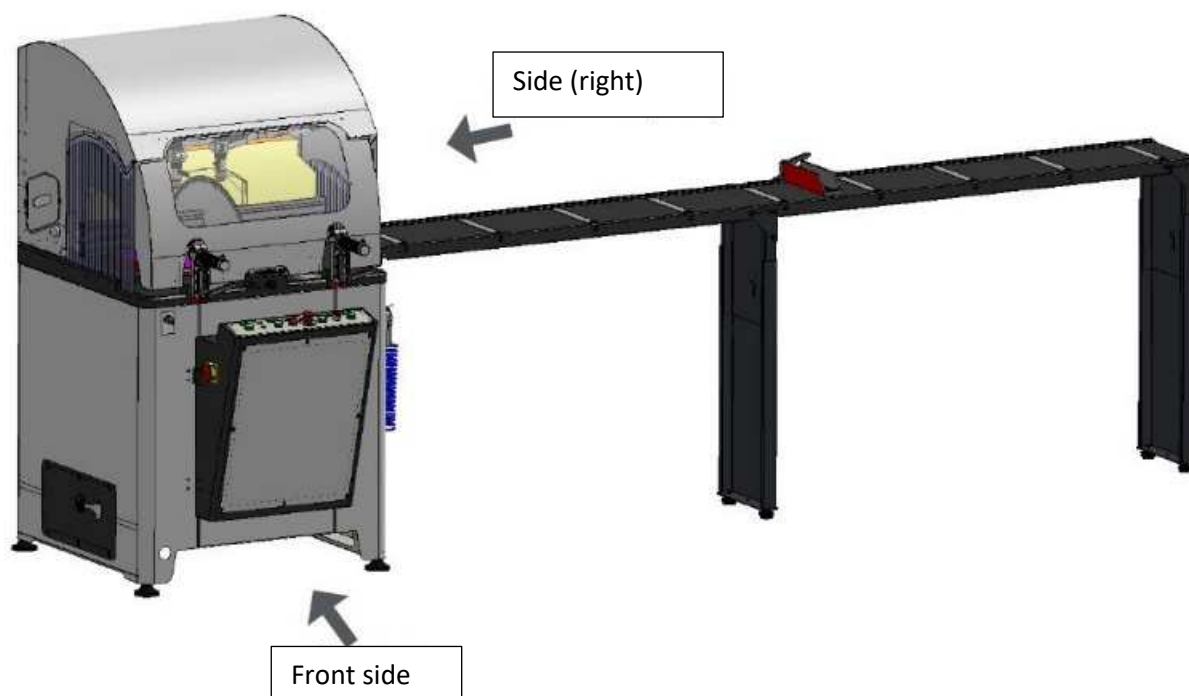
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1. INTRODUCTION

1.1. GENERAL OVERVIEW



1.2. HANDLING OF THE MACHINE

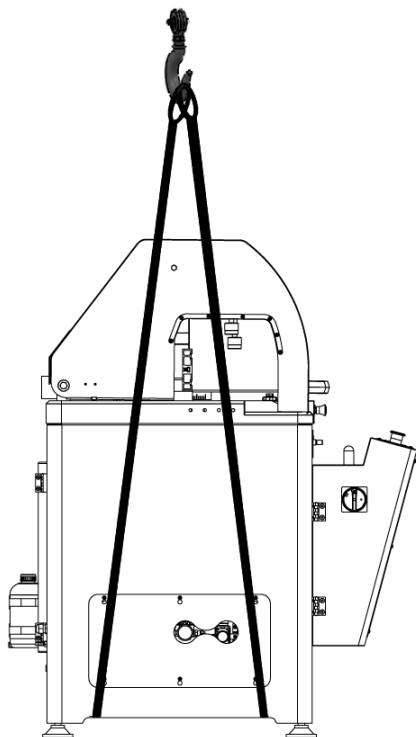
It is strictly recommended that all lifting and handling procedures of the machine is carried out by means of a forklift. In order for the forks of the forklift to be used for lifting and handling operations to be able to move suitably with the handling platform, they have to be adjusted in a way that they can move inwards and outwards.

The bearing capacity and suitability of the forklift and its forks with the weights to be handled have to be checked before handling. In addition, the length of the carrier forks have to be checked for conformity to the length of the platform to be lifted.

Recommended forklift carriage capacity: **1800 kg**,

Recommended minimum fork length: **1200 mm**,

Recommended minimum fork gap: **400 mm**.

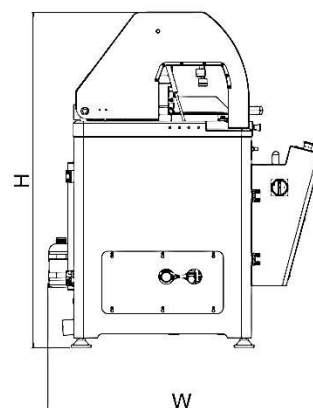
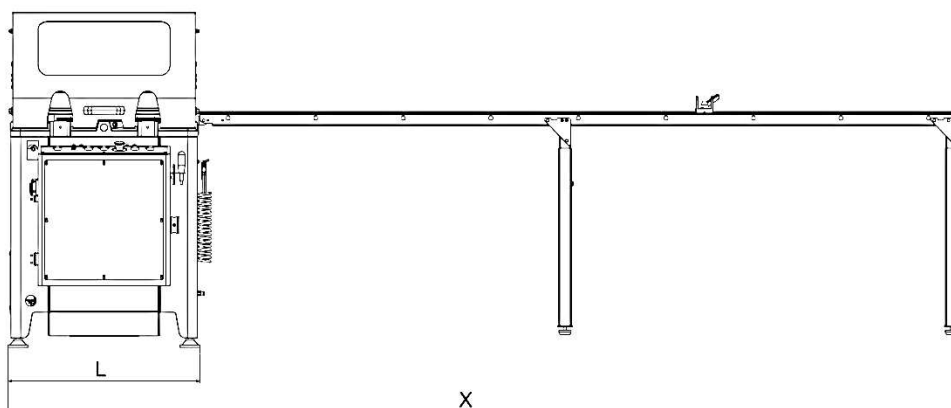


Our machines are recommended to be handled by forklift if possible. If necessary, the lifting operation with sling must necessarily be carried out by experts and responsible persons. Meanwhile, the sling must be passed under the carrying platform. At least two slings must be used during lifting and they have to be checked whether they are at the right position according to the centre of gravity before the machine is lifted. The product may be out of warranty due to the possibility of the machine sliding from the sling or swing and have a part get defected and damaged.



NOTE: All dimensions are given in millimetres (mm).

1.3 GENERAL DIMENSIONS

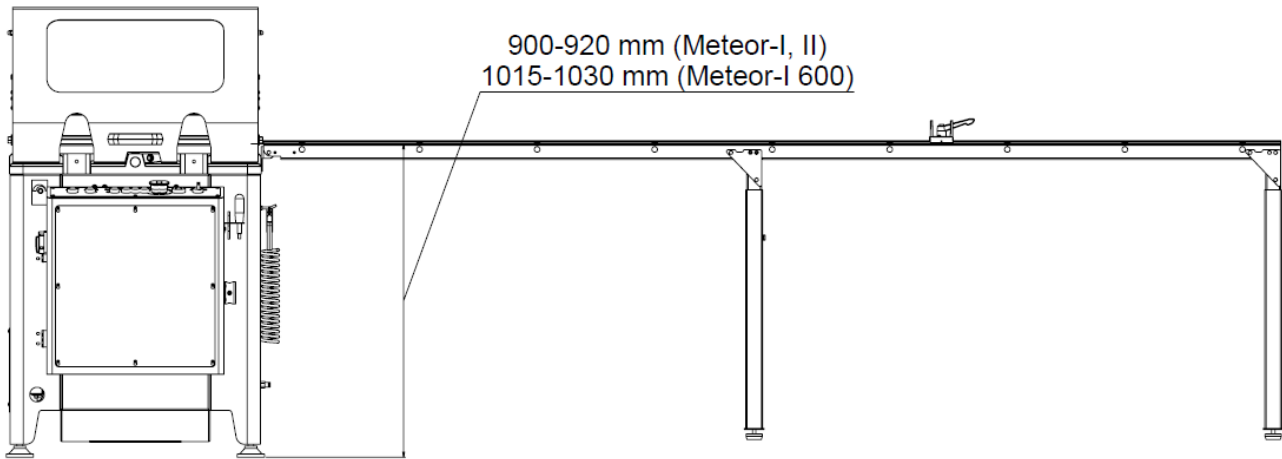


MACHINE MODEL	LENGTH (L)	CONVEYOR LENGTH (X)	WIDTH (W)	HEIGHT (H)
METEOR - I 420	760	3760	1080	1325
METEOR - II 420	760	3760	1080	1325
METEOR - I 500	815	3820	1135	1360
METEOR - II 500	815	3820	1135	1360
METEOR - I 600	920	3920	1230	1675



NOTE: All dimensions are given in millimetres (mm).

1.3.1 Operating Height



2. SAFETY REQUIREMENTS

2.1. GENERAL DESCRIPTIONS

2.1.1. Introduction

- ✓ Observe all safety and operating instructions in this user's manual. Thus, the risk of accidents will be reduced and the lifetime of the machine will be increased.
- ✓ Do not make any modifications on the machine without the written approval of ÖZÇELİK MAKİNA.
- ✓ Ensure that this user's manual has been read and understood by the relevant persons (operators, maintenance personnel, etc.) before the installation, operation and maintenance of the machine.
- ✓ Have the machine operated and maintained by persons with adequate professional training and experience.
- ✓ Failure to follow the instructions, procedures or safety warnings in this user's manual might result in accidents, damages and injuries.
- ✓ If the machine is not safe to operate;
 - Never attempt to operate the machine.
 - Inform other relevant persons about this situation.
 - Post a warning sign that notifies the situation on a visible part of the machine.
 - Cut the power off from the main switch or disconnect the power cables in order to prevent from

unauthorised operation of the machine.

2.1.2. Definition of the Safety Information

- ✓ The safety signs given in the user's manual are used in defining the potential hazards.
- ✓ When any safety sign is seen in this user's manual, it must be understood that there is a risk of injury and the subsequent explanations must be carefully read and thus, the potential hazards must be prevented.

2.1.2.1. Understanding the Safety Warnings

- ✓ Read the user's manual and the label and safety warnings on the machine carefully.
- ✓ Make sure that the warning labels on the machine are in good condition. Replace the missing and damaged labels.
- ✓ Learn how the machine is operated and how the checks will be made correctly.
- ✓ Use your machine under normal operating conditions.
- ✓ Inappropriate alterations to be made on the machine adversely affect the safe operation and lifetime of your machine.

2.1.2.2. Personal Protective Equipment

The company executives must be sensitive and careful for ensuring that all personnel using the machine take all personal safety measures and comply with all relevant standards.

2.1.2.3. Machinery Safety Tools

- ✓ Machine saw protector guard
- ✓ Cutting cancellation button
- ✓ Automatic clamp tightening system
- ✓ Emergency stop button



WARNING: Do not displace any safety tool during operation and check their functions.

2.1.2.4. Electric Shocks

Make sure that the installation procedures comply with the national electrical standards and other relevant directives and ensure that the machine is installed by authorised persons.

- ✓ Your machine must be installed in accordance with all relevant national and international standards as well as the information and recommendations contained in this user's manual. The electrical connections must necessarily be installed by a qualified electrician.
- ✓ Make sure that the grounding of the electricity line is installed correctly.
- ✓ Keep all parts of your body, hand tools and electrically conductive materials away from any equipment and cable connections on which electrical current passes.
- ✓ If you will carry out any repair or adjustment on the electrical components of the machine, make sure that your feet are not wet and that you stand on an insulating material such as a wooden pallet.
- ✓ Perform all repair and adjustment works with one hand and with the right hand as much as possible. This reduces the possibility of electric current passing through the heart in the event of an electric shock.
- ✓ Perform the maintenance and repair works in well-lit, dry, clean and well-ventilated environments.
- ✓ Always keep the door of the machine's panelboard closed. If it is necessary to open it, first stop the machine by cutting the power off through the main switch.
- ✓ Be careful when using a long mains cable.
- ✓ Carefully check all equipment and connections again before the first operation after installation.
- ✓ Check all cables frequently for possible damages. If a damaged or uninsulated cable is detected, immediately repair it or replace it with an equivalent one.
- ✓ Keep the machine turned off when not in use.

2.1.2.5. Moving Parts

- ✓ Do not operate the machine with the electrical panelboard doors open or with the belt and fan guards dislocated.
- ✓ Keep your hands, arms and clothing, especially the sleeves and hems, away from the moving parts of the machine. Wear full-fitting clothing, tie your hair if your hair is long and wear a protecting cap.
- ✓ Beware of entrapment of your hands and fingers when the machine is in operation.
- ✓ While operating the machine, keep all other personnel away from the machine in order to protect from damages due to bouncing parts, sawdust and sparks.
- ✓ Before starting repair, maintenance or adjustment works, plug out the power cable from the main switch and lock the switch in order to prevent any other person from accidentally starting the machine.
- ✓ Protect the walking grounds and corridors around the machine from oil and water in order to prevent slipping or falling.
- ✓ Provide sufficient lighting in the environment where the machine is operated so that the moving parts are easily seen.
- ✓ Do not use your hand for doing the function checking of the saw, belt, pulley, fan propeller, etc.
- ✓ Do not try to stop the moving parts with your hands or feet.
- ✓ Wear steel toe shoes against the possibility of falling heavy objects.

2.1.2.6. Fumes and Oils

It may be hazardous to inhale the fumes and lubricants coming out during the cutting and piercing operations for a long time.

- ✓ Sense of burning and irritations in eyes, nose and throat is the indication of insufficient ventilation. In such case, immediately enhance the ventilation.
- ✓ Establish a natural or artificial ventilation system in the working environment.
- ✓ Use a fume vacuum system in places where cutting and piercing operations are performed.

2.1.2.7. Eye and Skin Hazards

- ✓ Use protective mask suitable for protecting your eyes and face from bouncing burrs, spark and parts.
- ✓ Post warning signs for protecting the people around from bouncing burrs, spark and parts.
- ✓ Protect the uncovered parts of your body with suitable protective clothing.
- ✓ Do not touch the cut parts with bare hands.
- ✓ When it is necessary to hold sharp parts, use suitable tools or gloves.
- ✓ Do not put your head into the machine for getting a closer look inside during operation or your hands or feet for checking something inside. Do not use a stick, bar, wire, etc. for such purpose.
- ✓ Do not try to stop the moving parts or parts that move with joints with your hands or feet.
- ✓ Keep a FIRST AID KIT available at the working area. Consult a doctor in case of any injury. Do not ignore minor abrasions and cuts that may cause catching microbes.

2.1.2.8. Noise Hazards

- ✓ The noise generated by some equipment and operations might damage your hearing.
- ✓ If the noise level is high, use notified protective earmuffs.

2.1.2.9. Maintenance by Unauthorised Persons

- ✓ The electrical equipment must not be repaired by unauthorised persons. The failures to be made in these parts might cause severe injuries and death during use.
- ✓ The parts such as saw, motor, belt and pulley groups operate in high rates. If the connection points are not tightened by unauthorised persons as necessary, users might be seriously injured.



NOTE: In the event of modifications made on the machine by unauthorised persons without the knowledge of ÖZCELİK Makine After Sales Services or acquiring services such as technical services, the machine may be partially or completely excluded from the warranty depending on the work done.

2.1.2.10. Falling Objects
The failure to properly position the machine and other equipment may cause serious injury to persons and

material damage to other objects.

- ✓ Use your machine on a floor and platform where it will not fall or tumble down.
- ✓ Prefer areas which does not block material flow, does not constitute the risk of tripping over cable and hoses, still but broad, can be easily ventilated and dust-free.
- ✓ Enable the operators to access the settings and connections on the machine easily.

2.1.2.11. Overuse

- ✓ In case of continuous and non-stop operation, allow the machine to cool down.
- ✓ Do not block in front of the ventilation inlets of the machine.
- ✓ Do not place filters in front of the ventilation inlets of the machine without the approval of the manufacturer.
- ✓ Do not overload the machine to work with blunt tools and saws.

2.1.2.12. Protection

The machines manufactured by ÖZÇELİK must be used in indoor areas protected from rain, and where temperature conditions between 0 and 45 degrees are provided. Due to the fact that the viscosity of the operation lubricants would change under or above these temperatures, lubrication problems or problems such as leaking, jamming, premature wear can be encountered in the hydropneumatic system. In addition, the possibility of failure in electronic systems highly increases under temperatures out of the mentioned range. In failures occurring on machines operated under environment conditions out of the specified ranges, ÖZÇELİK reserves its right to remove the coverage of warranty.

2.1.2.13. Energy Efficiency

Preferring the power and machine suitable for the operation of cutting, puncturing or welding that you will perform will provide energy efficiency and long lifetime.

2.1.2.14. Economic Lifetime

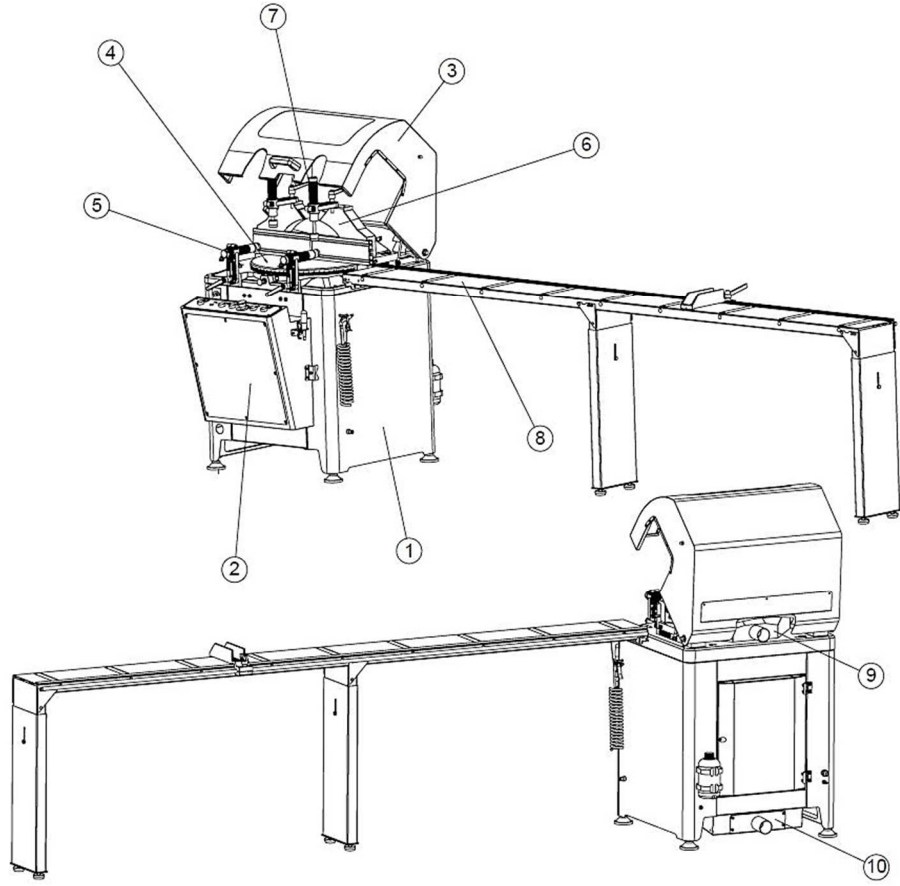
The economic lifetime determined for this machine by the Ministry of Science, Industry and Technology is 10 years. Pursuant to the relevant law, the manufacturing and selling companies undertake to keep spare parts necessary for the operation of the equipment available and to provide service for the machine within the mentioned duration.

3. TECHNICAL INFORMATION

3.1. GENERAL DESCRIPTIONS

Meteor series machines are single head cutting machines designed for cutting the PVC, aluminium and wooden materials. They perform the cutting of profiles with different widths and lengths at different angles and thicknesses. The saw diameters are in Ø420, Ø500 and Ø600 mm sizes and they vary according to their series. Thanks to their hydro-pneumatic equipment, the Meteor series offer precise and fast cutting processes and they prioritise safety with their part holding horizontal and vertical pneumatic clamps and protective guarding system in these cutting processes. Cutting is provided at all desired angles between -45° and + 45° in Meteor – I 420/500 series, between -90° and + 45° in Meteor – II 420/500 series, and between -67,5° and + 67,5° Meteor – I 600 series.

3.1.1 Machinery Components



GROUP NUMBER	GROUP NAME
1	Bench Group
2	Electrical Panelboard Group
3	Casing Group
4	Table Group
5	Horizontal Clamp Group
6	Square Group
7	Vertical Clamp Group
8	Conveyor Group
9	Upper Sawdust Discharge Unit
10	Lower Sawdust Discharge Group

3.1.2 Product Plate

**özçelik**

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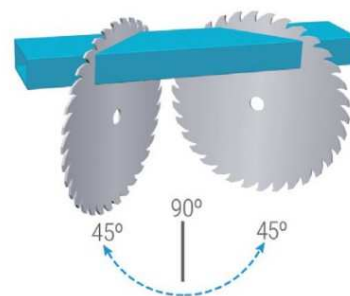
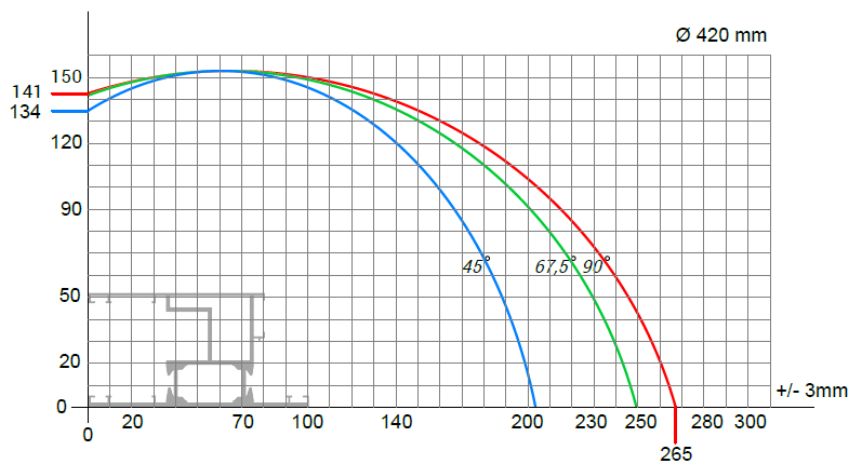


Açıklama :
Description :

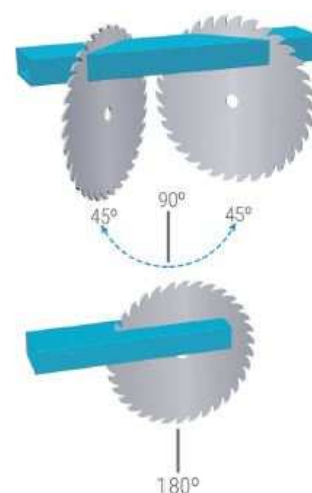
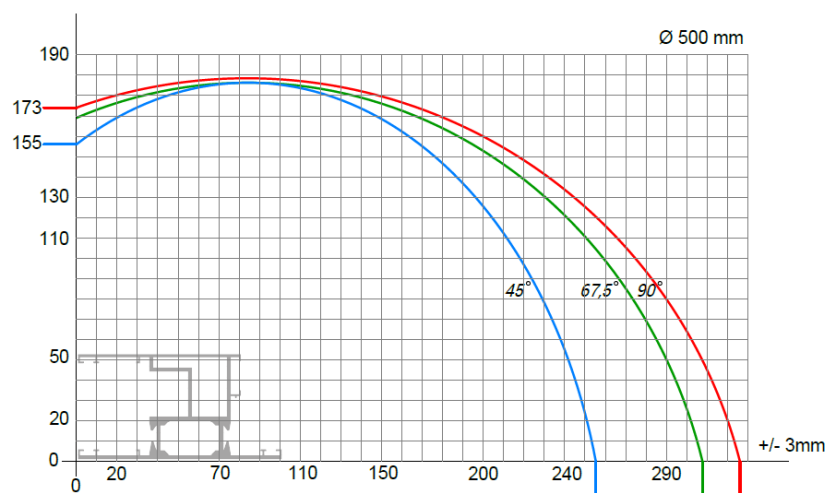
Model Model	Seri numarası Serial Number
Toplam Güç Total Power	Üretim Yılı Production Date
Frekans Frequency	Voltaj Voltage
Ölçüler (LxWxH mm) Dimensions	Akım Current
Hava Basıncı Air Pressure	Ağırlık Weight
Çalışma Devri Idling Revolutions	Hava Tüketimi Air Consumption
	Testere Çapı Saw Diameter

3.1.3 Cutting Curves

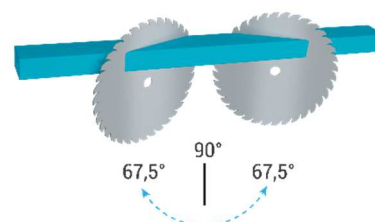
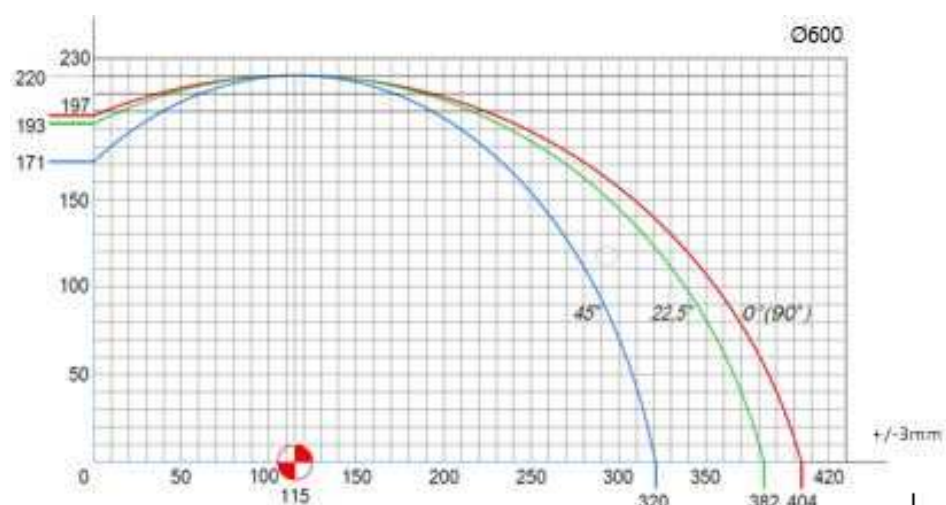
METEOR – I, II 420

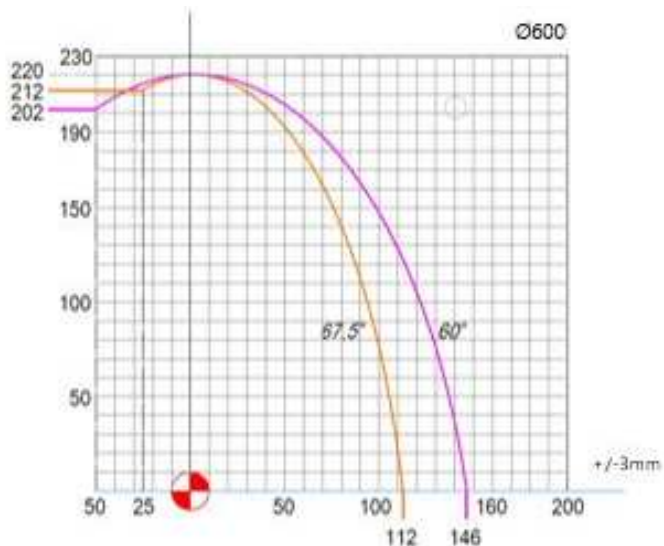


METEOR – I, II 500



METEOR – I 600





3.1.4 Technical Specifications

DESCRIPTION	TECHNICAL SPECIFICATIONS							
Model / Machine Name	Total Power	Motor Rate	Voltage / Frequency	Sawblade Diameter / Thickness	Sawblade Rate	Air Pressure	Air Consumption	Cutting Material Used
METEOR – I 420 Cutting Machine with Automatic Bottom Sawblade Ø 420	3 kW	3000 rpm	400 V / 3~, 50-60 Hz	Ø 420 mm / 3,6 mm	3000 rate/min	6-8 bars	30 lit/min.	Alu / Pvc / Wd
METEOR – II 420 Cutting Machine with Automatic Bottom Sawblade Ø 420	3 kW			Ø 420 mm / 3,6 mm	3000 rate/min		38 lit/min.	
METEOR – I 500 Cutting Machine with Automatic Bottom Sawblade Ø 500	3 kW			Ø 500 mm / 4 mm	3000 rate/min		38 lit/min.	
METEOR – II 500 Cutting Machine with Automatic Bottom Sawblade Ø 500	3 kW			Ø 500 mm / 4 mm	3000 rate/min		38 lit/min.	
METEOR – I 600 Cutting Machine with Automatic Bottom Sawblade Ø 600	4 kW			Ø 600 mm / 4,7 mm	3000 rate/min		58 lit/min.	



NOTE: Technical specifications may be changed without prior notice in order to improve product quality. The figures in the user's manual are schematic and they may not be identical with the product.

3.1.5 Installation Information

3.1.5.1 Points to Consider on Delivery

Make sure that all materials that you have ordered are delivered and if there is any missing or damaged material, immediately contact the dealer you have purchased the machine from.

In the case of damaged or defective delivery;



WARNING: Keep a report, take the photo of the damage and report the transport company and ÖZCELİK AŞ with the photocopy of the delivery note.

Standard delivery contents

- ✓ Main machine and the mains cable connected to it
- ✓ Warranty certificate
- ✓ User's manual

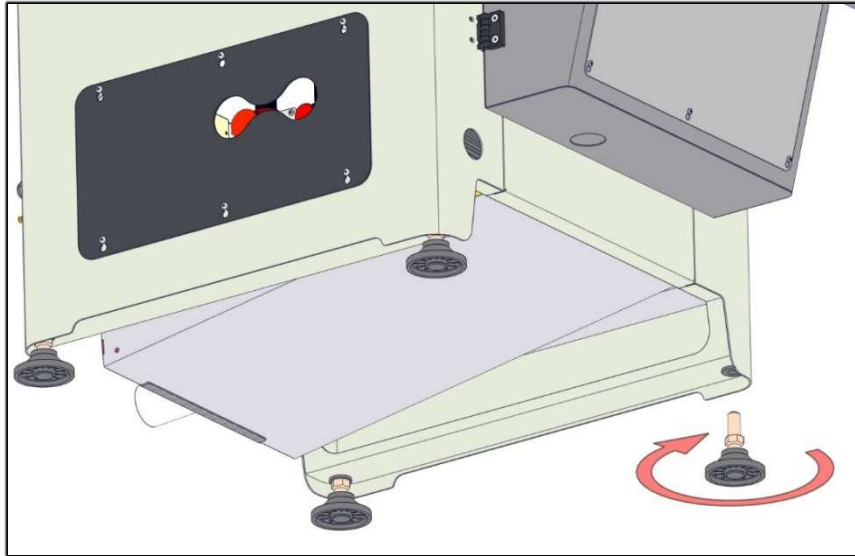
- ✓ Declaration
- ✓ Maintenance record form

3.1.5.2 Specifications related to the Area to Locate the Product if any

The machine should be placed on smooth surfaces with a declination less than 0.5°. If there are ground defects in the area where the machine will be used, its correction is the responsibility of the customer.

3.1.5.3 Machine Foot Connection

Screw in the feet supplied with your machine into the screw sockets. Adjust the feet so that your machine is balance depending on the condition of the floor. (Figure 3-1)



■ 3-1



WARNING: Make sure that the floor on which the machine will be placed is flat and made up of solid concrete.

3.1.5.4 Recommendations of Installation and Operation

The selection of the place of operation is highly important for a high production quality and for achieving the best functioning of the machine.

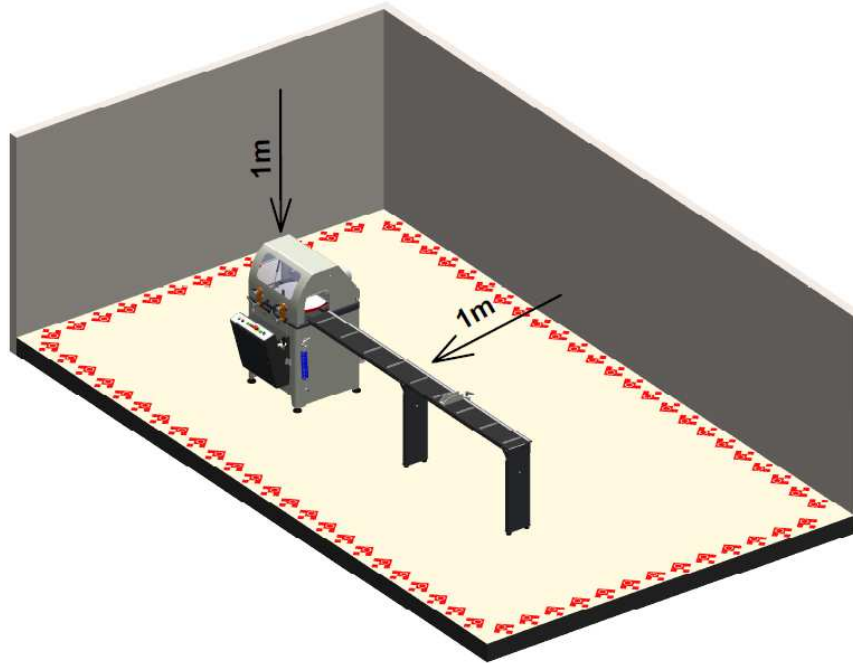
For the selection of the area to place the machine, the overall machine dimensions and the moving components and the input and output of the material to be processed must be taken into consideration.

When positioning the machine near walls or other immovable obstacles, the aspects such as easy access from all directions, cleaning area and maintenance must be considered.

The machine must be connected to the line through a suitable fuse and overheating, dust and moisture must be observed in the working environment.

3.1.5.5 Layout and Connections of the Machine

- ✓ The ground to place the machine on must be smooth and dry and have a capacity to bear the weight. Place your machine on this surface. It is not necessary to fix it on the ground (with anchorage bolt, etc.).
- ✓ The machine room must be easily accessible and sufficiently illuminated.
- ✓ There must be at least 1 m distance from the ceiling and at least 1 m distance from the walls around the machine for service.
- ✓ The operation distance of the machine must be positioned according to the profile to be cut.
- ✓ The conditions that may cause fire or corrosion in the working environment have to be avoided.
- ✓ Your machine is manufactured according to intra-workshop use. The appropriate workshop and layout plan is shown in the figure.
- ✓ If there are different requirements for the machine or air system, contact the service or sales representative.



3.1.5.6 Electrical Connection and Connection to the Grid

Three-phase machines have the mains connection cable shown in the figure. For connection;

Machine Cable

GREEN-YELLOW		- Grounding
BLUE		N - Neutral
BLACK		L1 - 1 st Phase
GREY		L2 - 2 nd Phase
BROWN		L3 - 3 rd Phase

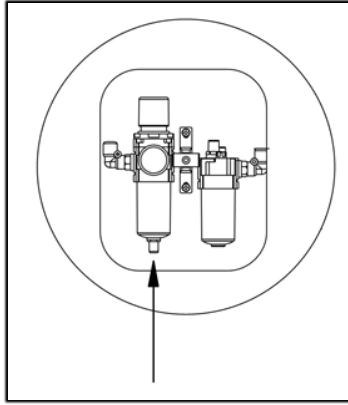
- ✓ Firstly make sure that the switch of your machine is off.
- ✓ Make sure that the phase intervals are $380 \pm 5\%$.
- ✓ Turn off the fuse on the mains side.
- ✓ The blue cable is neutral, green and yellow are grounding and black, green and brown (or 3 black) are phase cables.
- ✓ If the screen is not receiving power after the connection is made, the place of the phase cables must be changed.



WARNING: The installation must only be carried out by qualified personnel.

3.1.5.7 Air Connection

- ✓ The air feed of the machine is at the rear (**Figure 3-2**).
- ✓ Connect to an appropriate air flow system according to the prescribed flow rate.
- ✓ Make sure that the installation pressure is not under 6 bars.
- ✓ It is recommended to use an air dryer since the presence of humidity in the pressurised air would cause premature wearing on the pneumatic system.

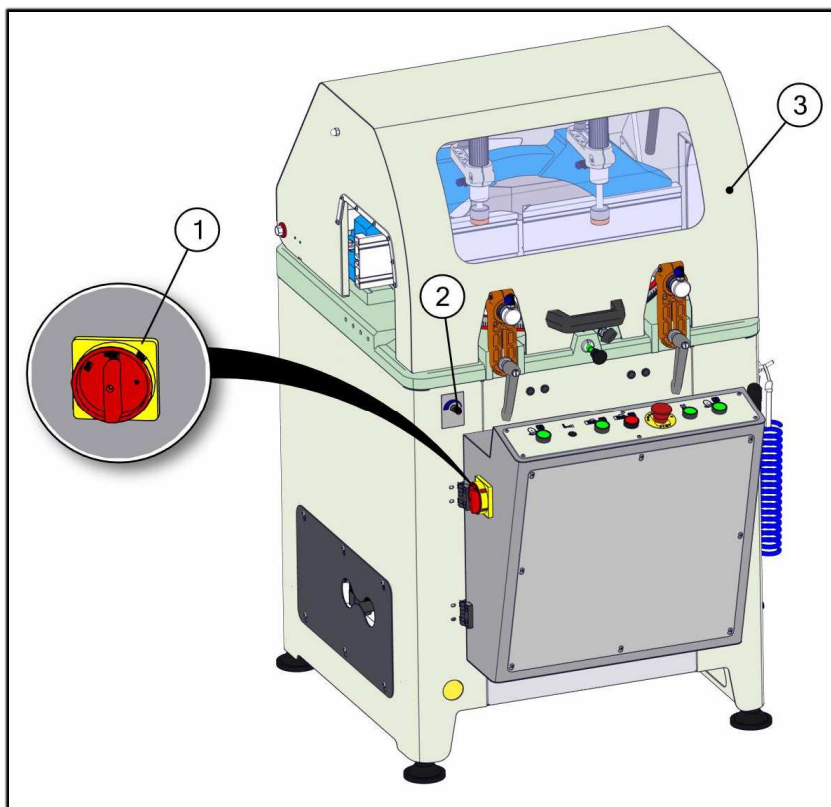


■ 3-2

4. FIRST OPERATION and USING THE MACHINE

4.1 FIRST OPERATION and USING of METEOR SERIES MACHINES (METEOR – I 420/500, METEOR – II 420/500)

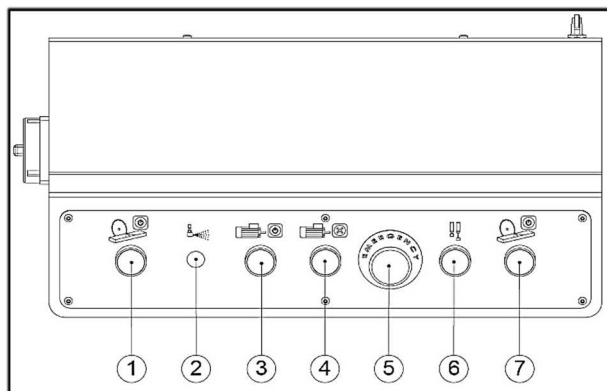
1. Bring the switch (1) on the electrical panel to active mode. (Figure 4-1)
2. Fix the workpiece to be cut so that it does not move on the machine by pressing the clamp button.(Figure 4-2, 4-3)
3. Close the top cover casing for you to be able to work safely.
4. Run the motor by pressing the Motor Start Button (Figure 4-2) (3) - (Figure 4-3) (4) on the control panel (Figure 4-2, 4-3). The sawblade will start rotating.
5. **Meteor – I 420/500:** Your machine is available for Two-Hand operation. For this reason, you need to push the Start buttons (1) (7) on the left and right hand sides simultaneously in order to start a cutting operation as seen below (Figure 4-2). If you remove one your hands from the start buttons, the sawblade will go downwards and the machine will automatically stop.
6. **Meteor – II 420/500:** Press the Cutting Start Button to start the cutting operation. (Figure 4-3)(1) The sawblade will rise upwards. Press the Cutting Stop button if you want to lower down the sawblade earlier (Figure 4-3) (2).
7. Adjust the upwards movement of the sawblade with the Cutting Speed button (Figure 4-1) (2) by turning it in + and - directions. You can adjust the cutting speed of the upwards sawblade according to the property of your material.
8. The sawblade will stop the cutting operation and automatically get back when it reaches the top point.
9. Press the Motor Stop button to stop the motor. (Figure 4-2)(4) - (Figure 4-3)(5)
10. Press the Emergency Stop Button on the control panel in any case of danger. (Figure 4-2)(5) - (Figure 4-3)(6)
11. An Emergency Stop Button is available on the machine. (Figure 4-2)(5) - (Figure 4-3) (6). Press this button in order to stop the machine or to cancel cutting operation in any case that may occur unexpectedly. All functions of the machine, except of the clamp, will stop. Turn the button clockwise in order to restart the machine. (Figure 4-2)
12. Shut down the switch when the machine is not in use.



■ 4-1

4.1.1 User Panels

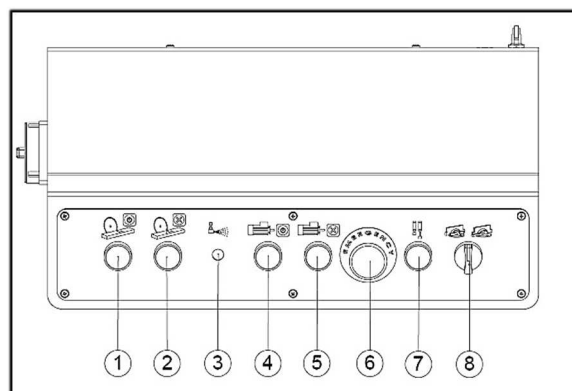
METEOR – I 420/500 CONTROL LABEL



1. Cutting Start Button
2. Liquid Cooler Reducer
3. Motor Start Button
4. Motor Stop Button
5. Emergency Stop Button
6. Clamp Button
7. Cutting Start Button

■ 4-2

METEOR – II 420/500 CONTROL LABEL

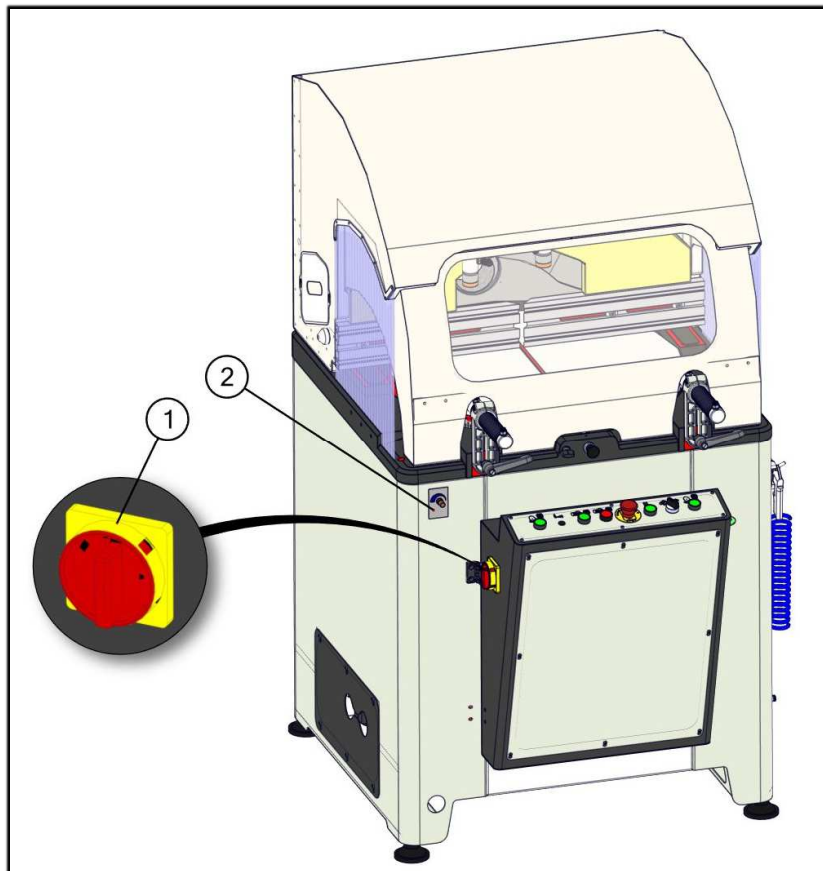


1. Cutting Start Button
2. Cutting Stop Button
3. Liquid Cooler Reducer
4. Motor Start Button
5. Motor Stop Button
6. Emergency Stop Button
7. Clamp Button
8. Selector Switch (Automatic/180°)

■ 4-3

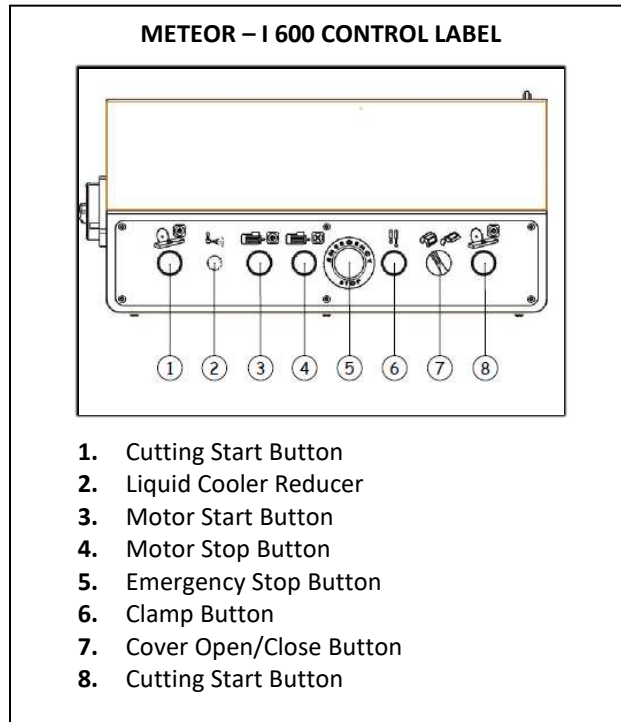
4.2 FIRST OPERATION and USING of METEOR SERIES MACHINES (METEOR – I 600)

1. Bring the switch **(1)** on the electrical panel to active mode. **(Figure 4-4)**
2. Open the cover by turning the cover open/close button **(7)** on the control panel **(Figure 4-5)**.
3. Fix the workpiece to be cut so that it does not move on the machine by pressing the clamp button **(Figure 4-5) (6)**.
4. For safe operation, close the upper cover by turning the cover open/close button **(7)** located on the control panel **(Figure 4-5)**.
5. Start the motor by pressing the motor start button **(3)** on the control panel **(Figure 4-5)**. The sawblade will start rotating.
6. Your machine is available for Two-Hand operation. For this reason, you need to push the Start buttons **(1) (8)** on the left and right hand sides simultaneously in order to start a cutting operation as seen below **(Figure 4-5)**. If you remove one of your hands from the start buttons, the sawblade will go downwards and the machine will automatically stop.
7. Adjust the upwards movement of the sawblade with the Cutting Speed button **(Figure 4-4) (2)** by turning it in + and - directions. You can adjust the cutting speed of the upwards sawblade according to the properties of your material.
8. Press the Motor Stop button **(4)** to stop the motor. **(Figure 4-5) (4)**
9. Press the Emergency Stop Button on the control panel in a case of danger. **(Figure 4-5)(5)**
10. An Emergency Stop Button is available on the machine. **(Figure 4-5) (5)**. Press this button in order to stop the machine or to cancel cutting operation in any case that may occur unexpectedly. All functions of the machine, except of the clamp, will stop. Turn the button clockwise in order to restart the machine. **(Figure 4-5)**
11. Turn down the switch **(1)** when the machine is not in use. **(Figure 4-4)**



■ 4-4

4.2.1 User Panel (METEOR – I 600)



■ 4-5



NOTE: Unlike other Meteor series, the cover of Meteor – I 600 series product runs pneumatically with the "Cover Open/Close Button" (7) on the control panel indicated in **Figure 4-5**.

4.3 MECHANICAL OPERATIONS

4.3.1 Assembly of the Lower Sawdust Discharge Group

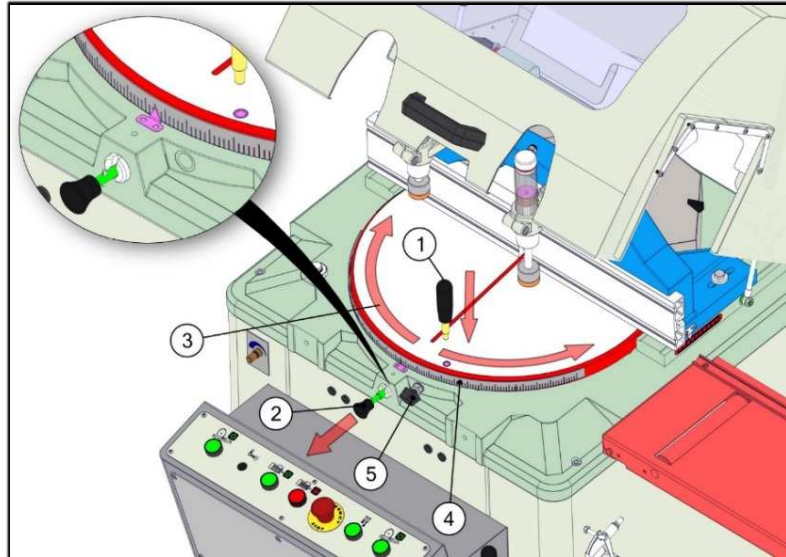


WARNING: Make sure that you cut the power off of the machine before carrying out these procedures.

1. Make sure that you have adjusted the feet (1) supplied with the machine as the machine will be balanced. (Figure 4-6)
2. Open the cover (2) on the backside of the machine by removing the bolt. (Figure 4-6)
3. Remove the bolts and bolts (4) attached to the bench from the holes at the bottom of both sides of the sawdust discharge plate (3). (Figure 4-6)
4. Lower down the sawdust discharge plate (3) and attach the detached bolts and bolts (4) to the bench from the holes on the upper part of the sawdust discharge plate (3).
5. Attach the sawdust discharge pipe (5) to the sawdust discharge plate (3) through the bolts and bolts (6). (Figure 4-7)
6. Close the cover of the machine (2).

4.3.3 Table (Core) Angle Adjustment

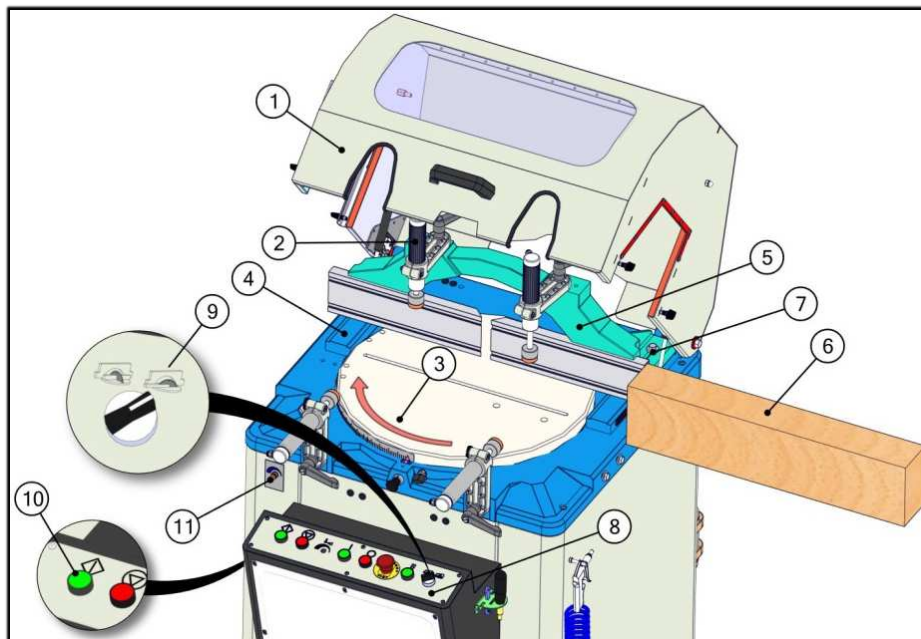
The rotating table (core) (3) can be fixed at all desired angles between -45° and $+45^{\circ}$ and by fixing at angles 15° , 22.5° , 30° , 45° to the right or left in Meteor – I 420/500 series; and in addition, at -90° (180°), which is the central position, in Meteor-II 420/500 series. In Meteor – I 600 series, cutting can be performed at all desired angles between -45° and $+45^{\circ}$ and by fixing at angles 15° , 22.5° , 30° , 45° , 60° and 67.5° to the right or left. In order to turn the table into these positions, first insert the turning apparatus (1) supplied with the machine into the slot on the table. Pull the spring (2) in the direction of the arrow. Turn the table (3) until it comes at the desired angle shown on the Angle Indicator Label (4) and release the spring, and check whether it has placed in its bearing. For cutting at angles other than shown above, take the table at the angle you desire, and block it by means of the butterfly bolt (5). (Figure 4-9)



■ 4-9

4.3.4 Sawmill Cutting Adjustment (METEOR-II 420, 500)

1. Lift up the casing cap (1).
2. Bring the table (core) (3) at -90° (180°) by rotating as shown in Figure 4-10.
3. Loosen the bolts (7) connecting the square to the table for square (5) adjustment according to the size of the piece to be cut (6). Retighten the bolts after bringing them to the size you desire.
4. Bring the selector switch (9) to the manual position on the control panel (8).
5. Press the Cutting Start Button (10) to start the cutting operation. Fix the sawblade height by adjusting with the reducer (11).

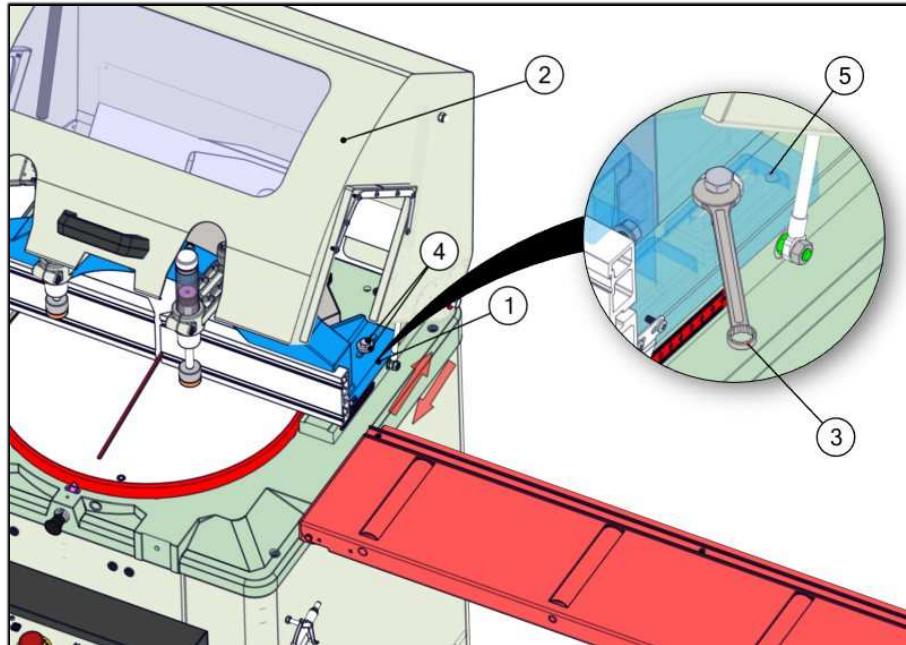


■ 4-10

4.3.5 Square Adjustment

4.3.5.1 METEOR - I 420/500, METEOR - II 420/500

1. Lift the casing group (2) for the square (1) forward-backward distance adjustment. (Figure 4-11)
2. Loosen the bolt and washer (4) on the square by means of a suitable wrench (3), and adjust the square distance.
3. For cutting operations with larger sizes, remove the bolts to which the square is attached. Slide the square to the second hole on the table (5) and place the bolts. Adjust the square distance and tighten (4).



■ 4-11

4.3.5.2 (METEOR- I 600)

1. For the forward-backward distance setting of the square (1) (Figure 4-12), open the cover by turning the open/close button (7) on the control panel. Article 4.2.1 (Figure 4-5)
2. Remove the cover plates (2) on the right and left of the cover by loosening the bolts (3) with a screwdriver. (Figure 4-12)
3. Loosen the pipe bolt (4) and tighten again by adjusting the square distance by means of the size label (5). (Figure 4-13)
4. Due to the operation principle of the Meteor - I 600 series machine, its square moves forward-backward between 0 mm and 115 mm. When cutting at 60° and 67.5° fixed angles, the square distance must be taken to appropriate sizes.

The square distance values are as stated below:

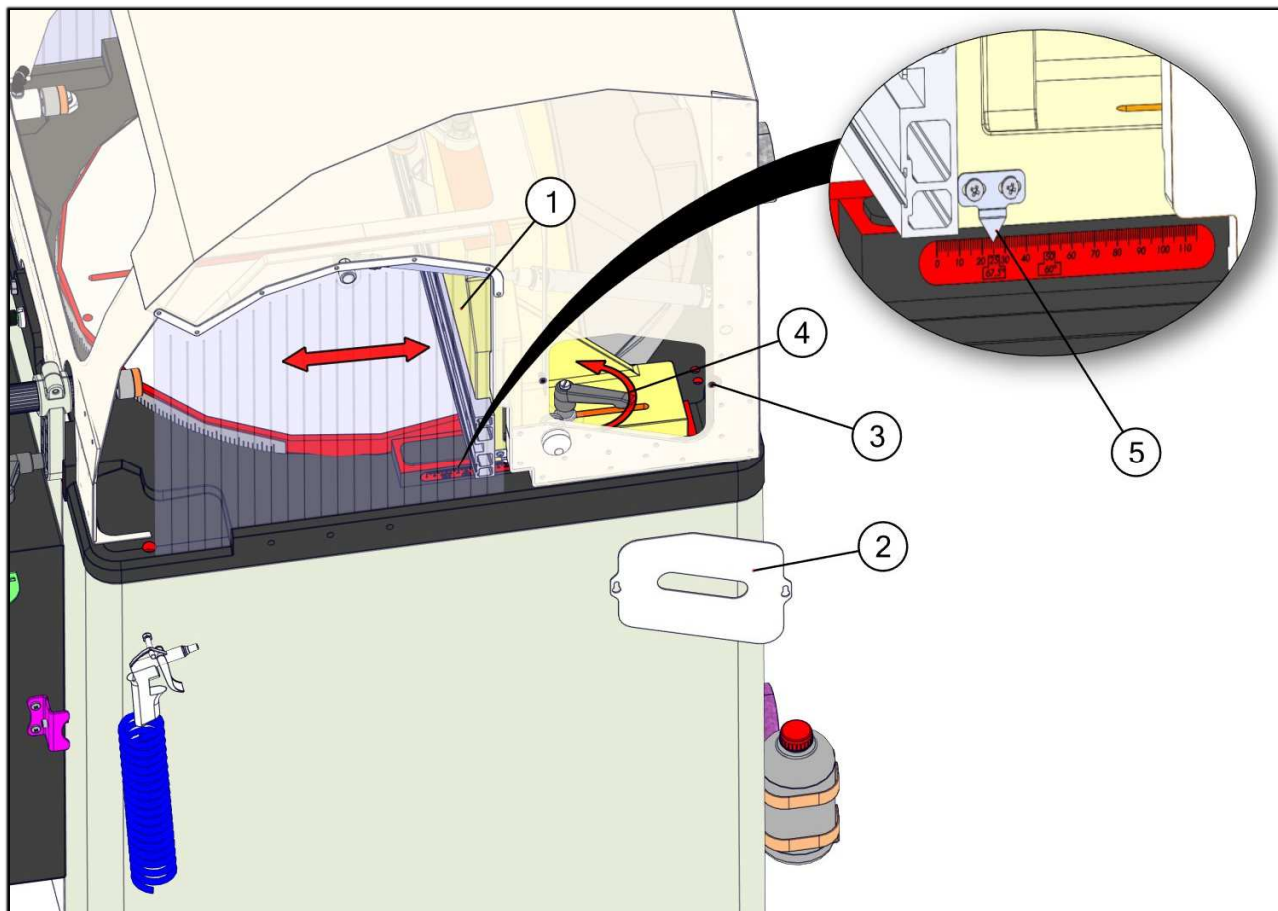
60° - 50 mm,
67.5° - 25 mm.



NOTE: When cutting between angles 60° and 67.5° other than the fixed angles mentioned above, it is necessary to do the adjustment of the square and plate in order to prevent your machine from being damaged.



WARNING: The damages that may arise due to neglecting the angles mentioned above in cutting operations between angles 60° and 67.5° are considered out of the scope of guarantee due to user error.



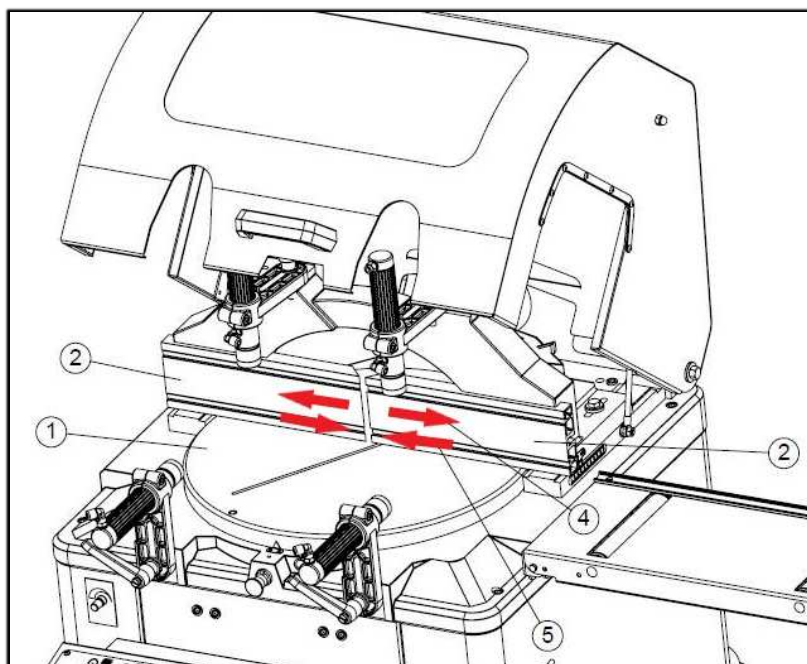
■ 4-12

4.3.6 Adjustment of Square Plates

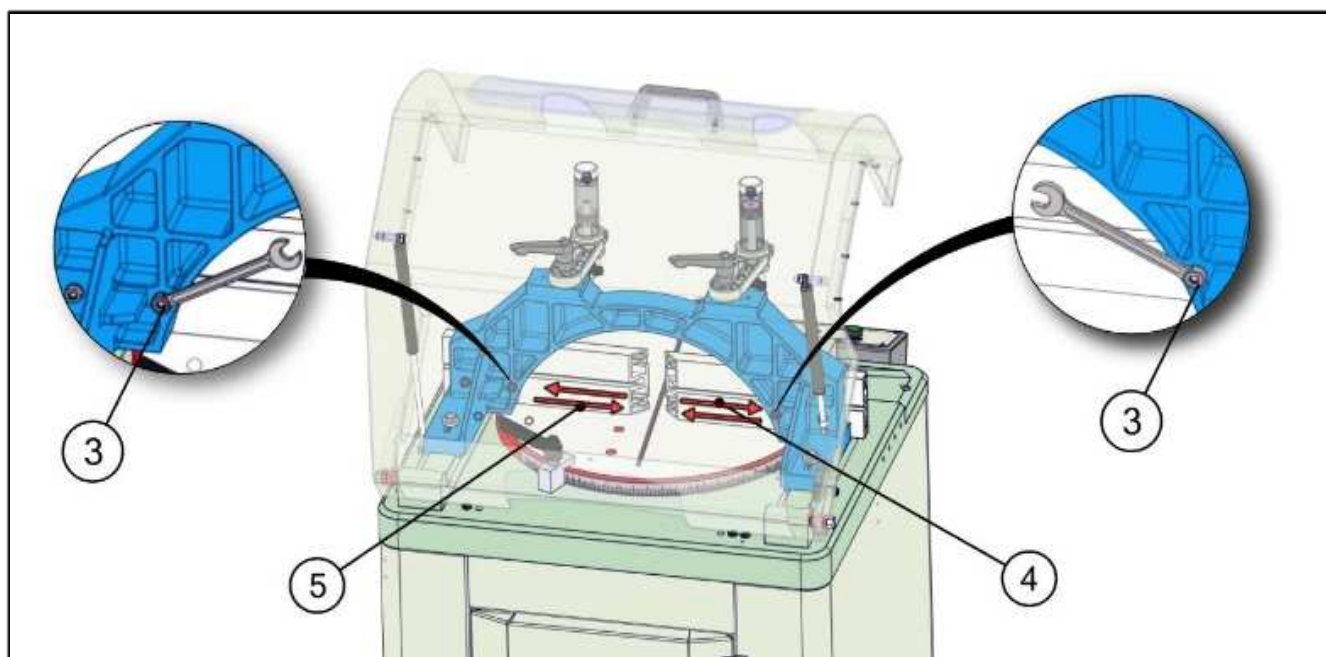
4.3.6.1 METEOR - I 420/500 METEOR - II 420/500

In your cutting operations with angles, the intermediate distances must be opened by moving the plate corresponding on the sawblade channel towards the exterior part of the machine so that it does not damage the square plates. For this;

1. Open the protection cover (**Figure 4-13**).
2. Turn the table (**1**) at the angle you will perform cutting.
3. If any of the square plates (**2**) remain on the sawblade channel, loosen the bolts (**3**) to which it is attached with an appropriate wrench. Retighten the square plate by moving the square plate towards the outside of the machine in the direction of the arrow numbered (**4**) and at a sufficient distance (**Figure 4-14**).
4. In your 0° (90°) cutting operations, you can do cutting of the square plates towards the interior of the machine in the direction of the arrow numbered (**5**) and by closing the intermediate distances as it does not block the sawblade channel (**Figure 4-14**).



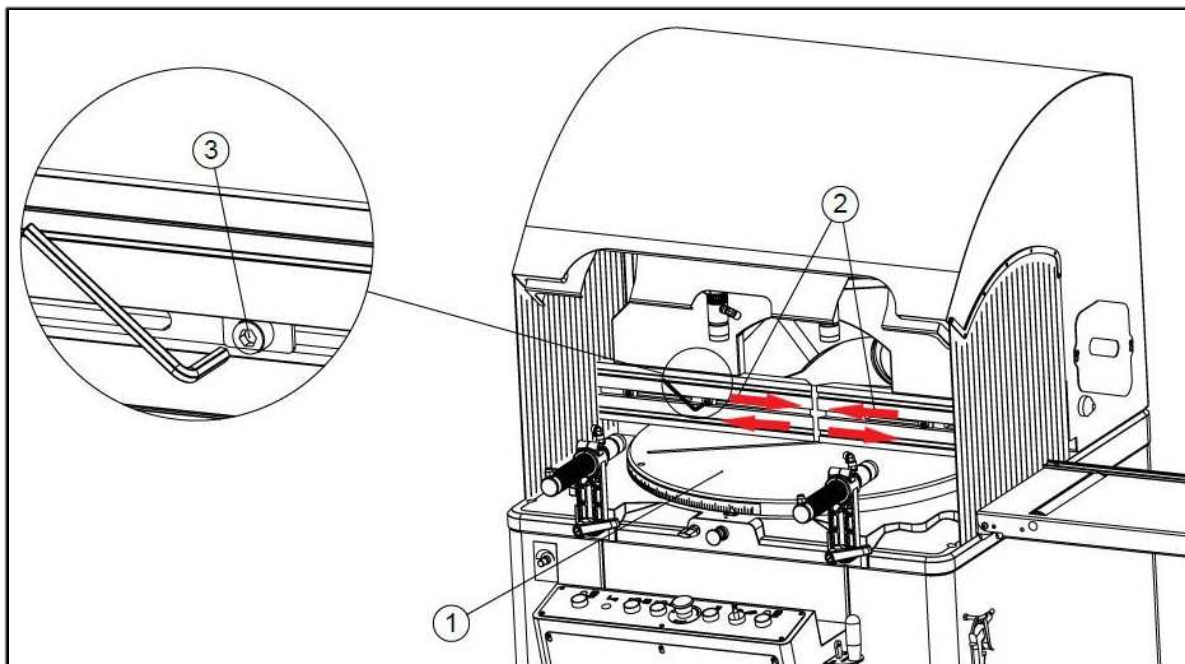
■ 4-13



■ 4-14

4.3.6.2 METEOR – I 600

1. Open the cover by turning the open/close button (7) on the control panel. **Article 4.2.1 (Figure 4-5)**
2. Turn the table (1) at the angle you will perform cutting.
3. If any of the square plates (2) remain on the sawblade channel, loosen the bolts (3) to which it is attached with an appropriate wrench. Retighten the square plate by moving the square plate towards the outside of the machine in the direction of the arrow numbered (4) and at a sufficient distance (**Figure 4-15**).
4. In your 0° (90°) cutting operations, you can do cutting of the square plates towards the interior of the machine in the direction of the arrow numbered (5) and by closing the intermediate distances as it does not block the sawblade channel (**Figure 4-15**).



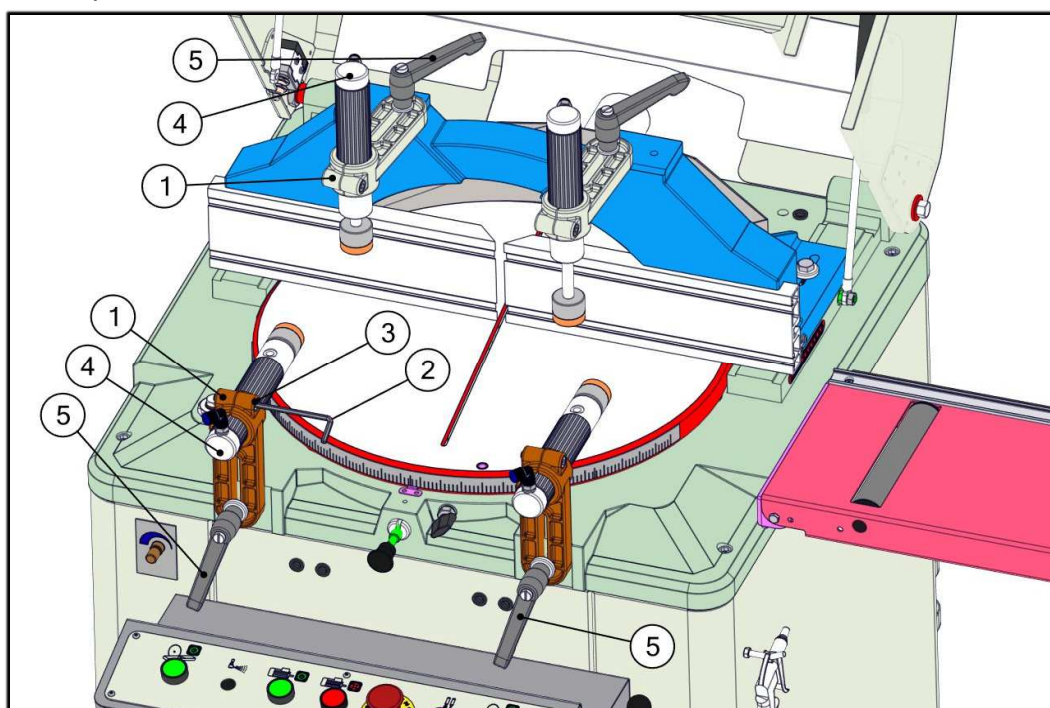
■ 4-15



WARNING: The damages that may arise due to the failure of observing the procedures mentioned above in cutting operations with angles are considered out of the scope of guarantee due to user error.

4.3.7 Clamp and Piston Adjustment

For the pneumatic pistons to fix the material properly, you can adjust the Clamp bearing (1) by loosening the pipe bolt (5) on it in multiple directions. In addition, you can adjust the distance of the pistons by means of an appropriate wrench (2) by loosening the bolt (3) on the clamp bearing and in a way to be suitable for the material to be cut, and tightening the bolt again (Figure 4-16).



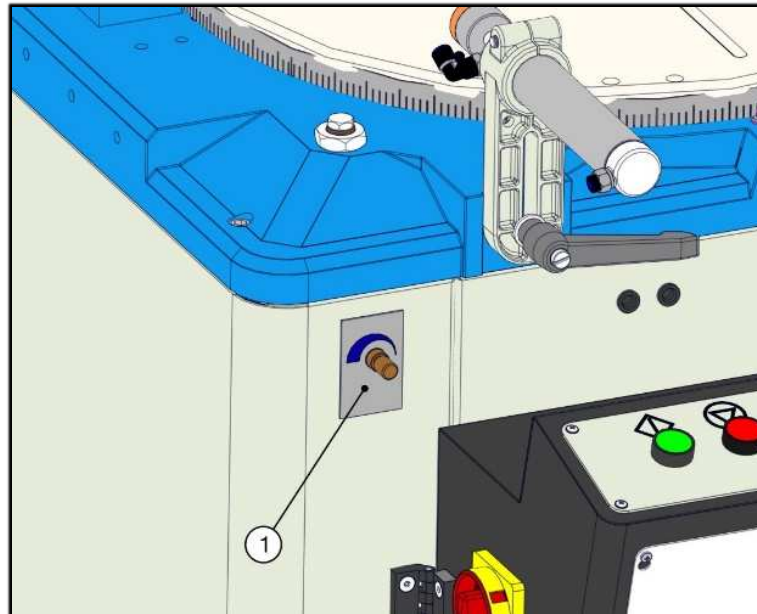
■ 4-16



WARNING: Since the machine is designed for cutting profiles in different sizes, make sure that the pistons are not in the cutting direction of the sawblade while positioning the adjustable clamps. The damages that may arise due to the failure to observe this issue are considered out of the scope of guarantee due to user error.

4.3.8 Cutting Speed Adjustment

You can adjust the drive speed of the saw blade according to the material to be cut. This setting can be adjusted by the sawblade reducer (Figure 4-17) (1) located at the front side of the square.

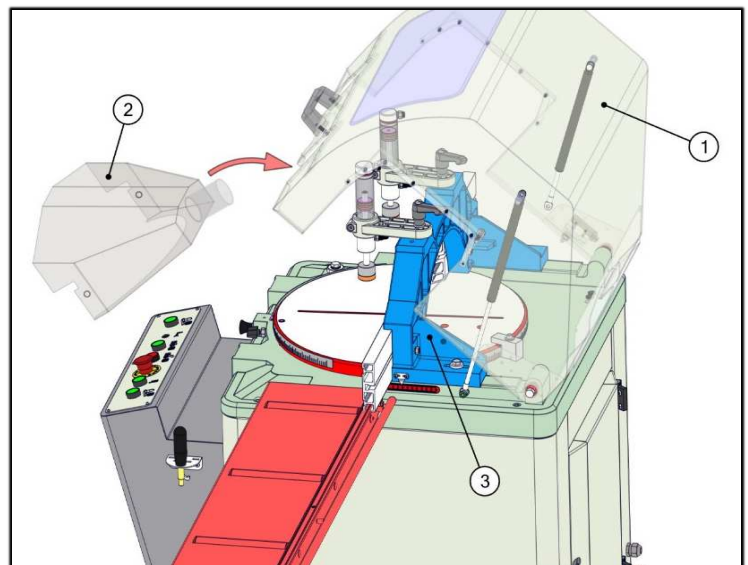


■ 4-17

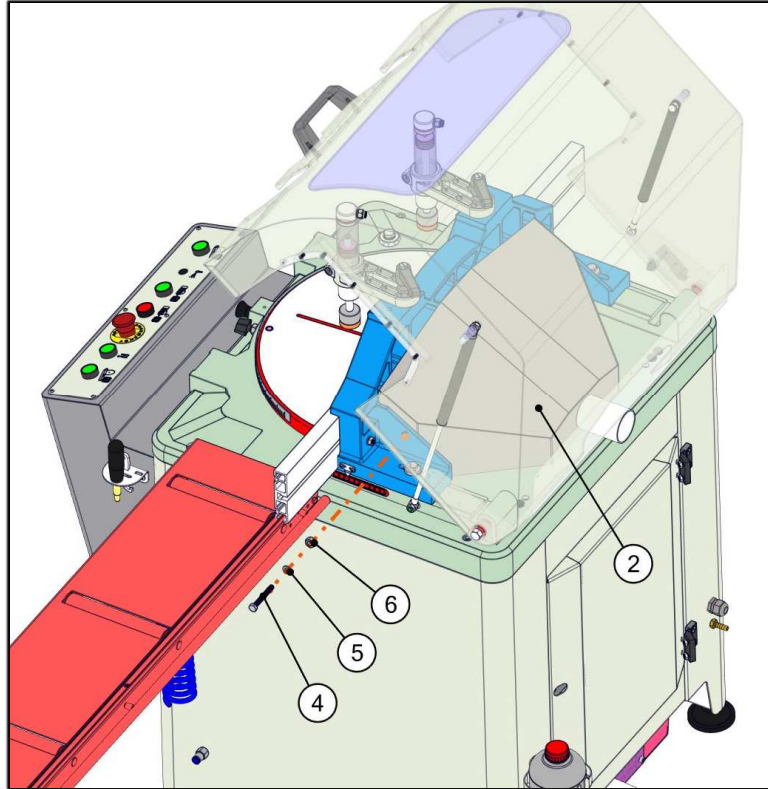
4.3.9 Assembly of the Upper Sawdust Discharge Unit

You can attach the sawdust discharge group necessary for the dust vacuum system to be adapted to your machine as shown below (Figure 4-18):

1. Open the casing cap (1).
2. Place the sawdust discharge unit (2) at the backside of the square (3) and as the hose connection will be behind.
3. Attach the sawdust discharge unit through the holes on its both sides with bolt (4), washer (5) and nut (6). (Figure 4-19)
4. Follow the procedures in reverse order in order to remove the sawdust discharge unit.



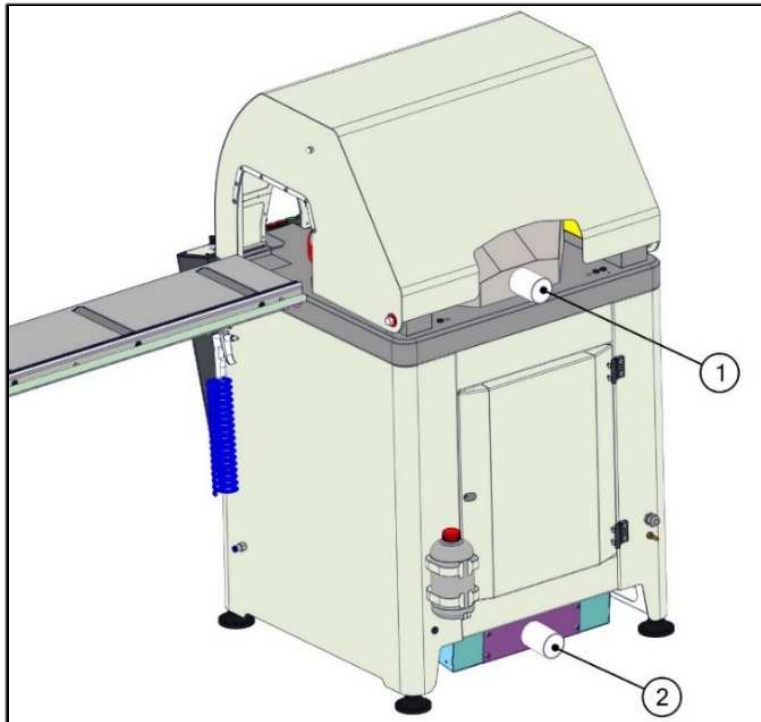
■ 4-18



■ 4-19

4.3.10 Dust/Sawblade Vacuum Hose Connection

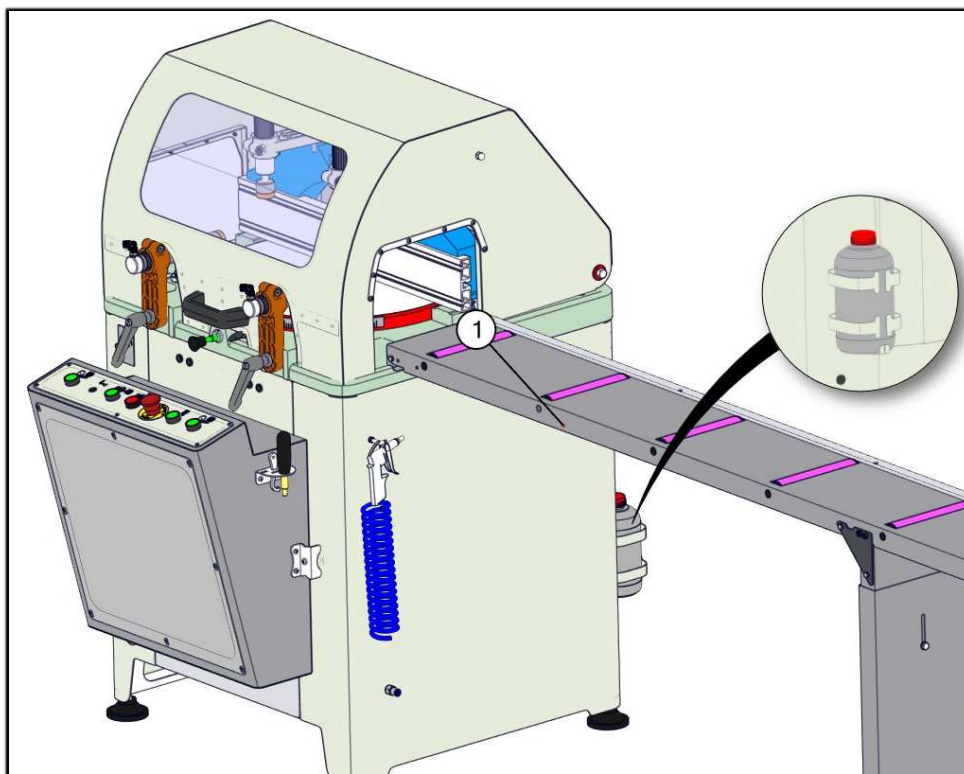
The dust/sawdust particles produced during the cutting process are discharged by the outlet pipes (1) (2) (Figure 4-16). The standard size of the dust/sawdust pipe (1) (2) is Ø60 mm for **Meteor – I 420/500** and **Meteor – II 420/500** series, Ø100 mm for **Meteor – I 600** series, and you can connect the hoses of your machine with automatic vacuum system.



■ 4-20

4.3.11 Cooling Water

Place the cooling water reservoir (1) supplied with your machine by fixing it to the holes on the backside of the machine (2). When you want to add cooling water, first remove the hose from the cap opening of the drum, and then the drum from the reservoir. Add cooling water and repeat the procedures in reverse order. (Figure 4-21)



■ 4-21

4.3.12 Replacement of the Sawblade



WARNING: Make sure that you cut the power off of the machine before carrying out these procedures.

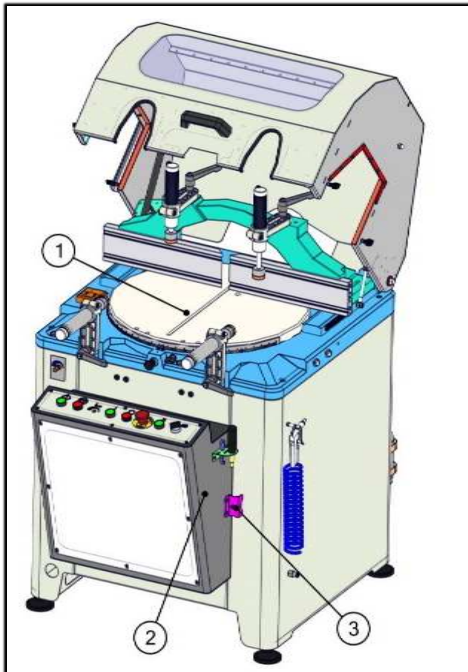


WARNING:

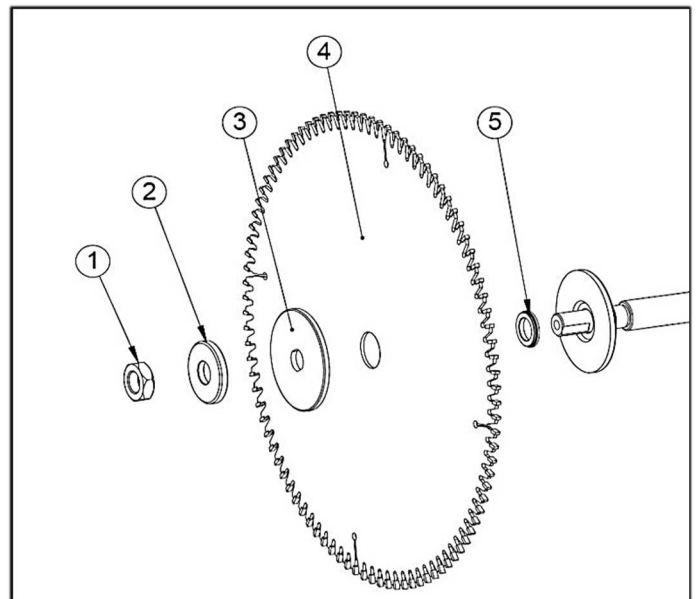
1. The cutting tool used on the machine must be compliant with EN 847–1:2017 standards.
2. Machine is designed for cutting only PVC, aluminium and wooden profiles.
3. Do not use any external cutting tool.
4. Use only the cutting tools recommended by the manufacturer.

Follow these series of procedures in order to replace the sawblade:

1. Bring the table (1) at 45° position. (Figure 4-22)
2. Open the control panel group (2) by unscrewing the fastening screw (3) with a suitable screwdriver. (Figure 4-16)
3. Hold the sawblade (4) with gloves and unscrew the nut (1) backwards using a suitable wrench. (Figure 4-23)
4. Remove the sawblade tightening nut (1), tightening washer (2) and the sawblade washer (3) respectively. (Figure 4-23)
5. Change the direction of the washer (5) according to the hole diameter of the saw ($\varnothing 30$ or $\varnothing 32$). (Figure 4-23)
6. Attach the new saw and follow the procedures in reverse order. (Figure 4-23)



■ 4-22



■ 4-23



NOTE: The sawblade will be attached by following all these procedures. If you cannot attach the sawblade, you may contact the nearest dealer or Özçelik via phone or fax.

4.3.13 Replacement of Belt

You can do the belt replacement following these series of procedures.

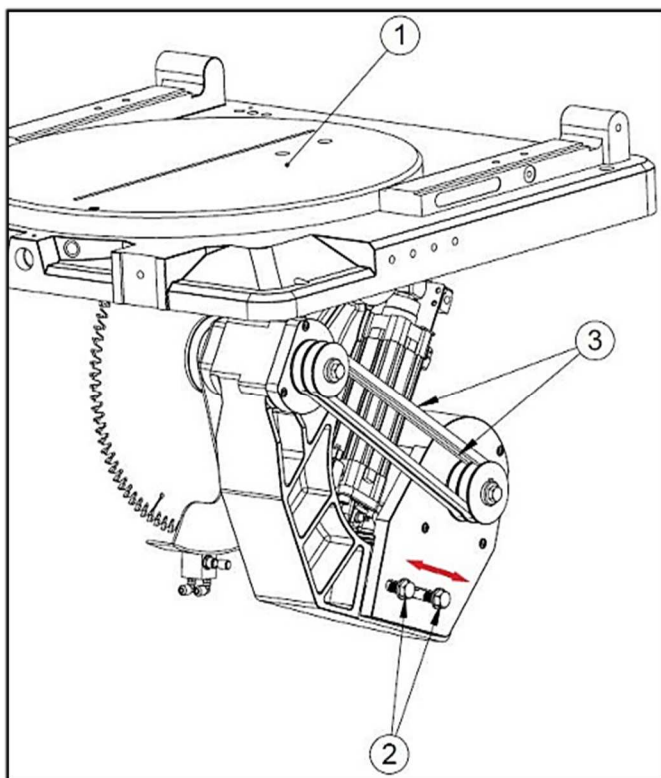


WARNING: Make sure that you cut the power off of the machine before carrying out these procedures.

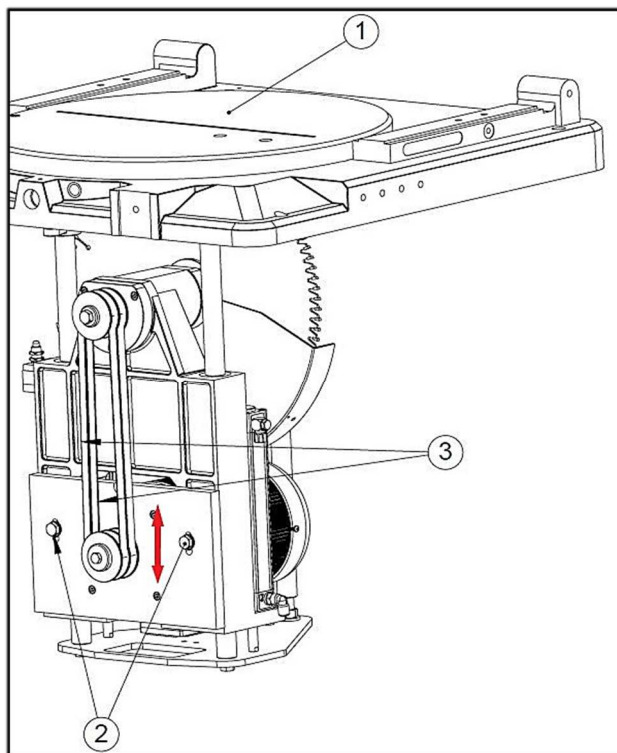
1. Open the control panel cover by unscrewing the fastening screw with a suitable screwdriver. **(Figure 4-22)**
2. Bring the table **(1)** at 45° position. **(Figure 4-24)**
3. Loosen the bolts **(2)** of the motor connector part with suitable wrench. **(Figure 4-24) - (Figure 4-25)**
4. You can move the motor connector part on which the pulley is connected in the direction of the arrow and in two-way direction as shown in the figure. **(Figure 4-24) - (Figure 4-25)**
5. In order to disassemble the pulley, move the motor connector part in a way that the pulleys will get close to each other.
6. Slowly pull and remove the strap **(3)**.
7. Place the new strap into the system and follow the same procedure in reverse order.



WARNING: Do not leave wrench on the machine.



■ 4-24

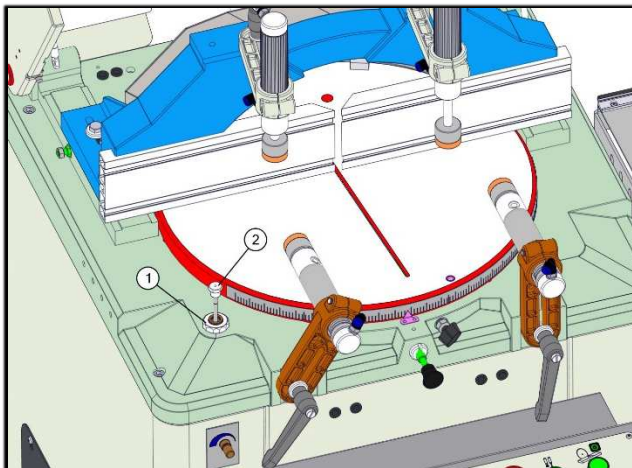


■ 4-25

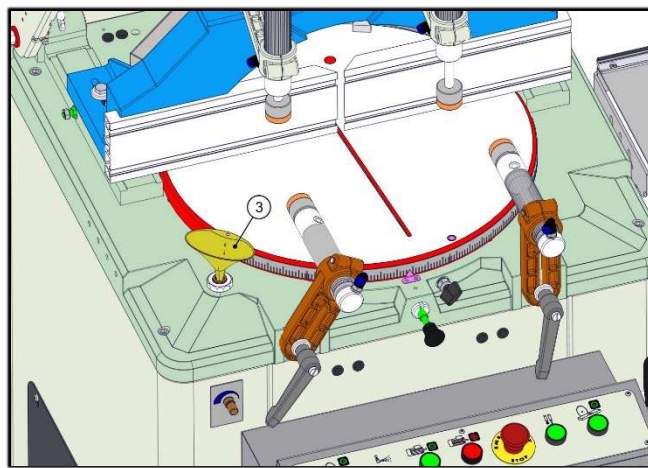
4.3.14 Oil Tank

You can check the fullness of the oil tank (1) controlling the sawblade movement with the oil indicator bar (2) (Figure 4-26).

Decreasing in the oil level causes instabilities in cutting speed. For this, unscrew the bolt (2) by means of a suitable wrench (Figure 4-26). Check the oil level with the notches on the indicator bar, and if there is a decrease, add sufficient amount of oil by means of a funnel (3) (Figure 4-27).



■ 4-26



■ 4-27

5. MAINTENANCE

5.1 GENERAL

Since your machine is a complicated product, maintenance or modifications to be made on the machine by unauthorised and untrained persons may cause the machine to be fully or partially out of warranty as well as causing damages and injuries.

Do not detach any cover or part while your machine is running. Stop the machine before carrying out maintenance, cut off the energy from the main switch and make sure that the saw is stopped.



NOTE: Read this user's manual carefully before carrying out maintenance. Having the maintenance done by authorised and trained persons will increase the lifetime of your machine.

5.2 DAILY MAINTENANCE

The following checks and procedures must be done on your machine **daily**.

- Regularly check the power cable,
- Carry out daily cleaning,
- Check whether the saw blades are blunt.
- Check the water level of the conditioner daily.
- Check and clean the sawdust discharge units on a daily basis.
- Check the cooling water.

5.3 WEEKLY MAINTENANCE

The following checks and procedures must be done on your machine **weekly**.

- Check the oil level of the conditioner weekly.

- Do the belt check.

5.4 MONTHLY MAINTENANCE

The following checks and procedures must be done on your machine **monthly**.

- Lubricate the linear shafts with the oil pump from the greasers.
- Check the belts monthly.



WARNING: Never lubricate the linear shafts with grease!

5.5 PERIODIC MAINTENANCE

Periodic maintenance must be performed by personnel trained by ÖZÇELİK or Özçelik Technical Service Personnel. Maintenance performed by unauthorised persons may cause your machine fail to operate at full capacity, irreparable damage and be out of warranty.



WARNING: Make sure that you read the maintenance instructions described in the following pages for periodical maintenance.

Maintenance to be Performed	Maintenance to be Performed			
	Daily	Weekly	Monthly	Periodic
Power cable check	✓	✓	✓	✓
General cleaning	✓	✓	✓	✓
Saw check	✓	✓	✓	✓
Conditioner water level check	✓	✓	✓	✓
Checking the sawblade discharge units	✓	✓	✓	✓
Checking the cooling water	✓	✓	✓	✓
Conditioner oil level check		✓	✓	✓
Linear shafts check		✓	✓	✓
Checking the linear bearings			✓	✓
Belts check			✓	✓
Check the tightness of the bolts and connections			✓	✓
*Pneumatic - Hydraulic piston checks				✓
*Pneumatic - Hydraulic hose checks				✓
*Electric motor check				✓
*Bearings check				✓
*Valve group check				✓
*Sensor - Switch checks				✓
* Safety equipment check				✓



NOTE: *Periodical maintenance is performed by Özçelik authorized service centre annually. Please contact the service department for the periodic maintenance of the machines of which warranty periods have expired.*

5.5.1 Power Cable Check

There may be burrs, sawdust, material drop over the power cable while your machine is operated. Therefore, it is necessary to carry out a visual inspection on whether there is any wear or any material standing on the power cable before starting cutting operations. This check will eliminate possible workplace accidents.

5.5.2 General Cleaning

When your cutting operation ends with your machine, cleaning has to be made. Always cut off the power of your machine before starting cleaning. Never use flammable substances in cleaning operations to be done. First clean square, linear shafts, etc. groups with air gun, dry cloth or a clean brush. Empty the sawdust pool of your machine. First clean square, control rack, pinion, linear guideways, linear shafts, etc. groups with air gun, dry cloth or a clean brush. This cleaning process will keep your machine's precision as well as ensuring its long lifetime. Remember that cleaning and maintenance failed to be carried out in time will cause loss of energy and time instead of saving.



WARNING: Never put any material in the sawdust pool of your machine. Forgetting any materials in the pool may cause the new heads to get damaged and your machine become out of warranty.

5.5.3 Saw Check

Keep in mind that the saws of your cutting machines are consumables. The saws may have become blunt or in a state that they cannot be used due to numerous parameters such as duration of use, the material cut, quantity of cutting, etc. You can eliminate the probability for you to cut defective parts, thus reducing your wastage and scrap with daily maintenance to be performed.

5.5.4 Conditioner Water Level Check

The conditioner that is located behind your machine consists of two parts. The tube at the left side is the **Water** reservoir. If water is collected in the conditioner, it should be removed by pressing the pin located at the bottom of the reservoir.



WARNING: Failing to discharge the water may cause more substantial failures and your machine become out of warranty.



■ 5-1

5.5.5 Checking the Sawdust Discharge Units

Clean the sawdust in the sawdust discharge units of your machine on a daily basis. The sawdust that may accumulate may prevent the movement of the moving mechanisms, affecting the operating performance of your machine, as well as causing the machine to be out of warranty.

5.5.6 Checking the Cooling Water

For cutting quality and long life of your sawblade, check the cooling water used for cutting aluminium materials on a daily basis. (Figure 4-21).

5.5.7 Conditioner Oil Level Check

The conditioner located on your machine consists of two parts. The tube at the right side is the Oil reservoir. If the level of oil in the conditioner has decreased, 5.7 (See the oil chart in article "Oil Refilling Procedure") appropriate oil must be added by observing the minimum and maximum levels.

5.5.8 Checking the Linear Shafts

The linear shafts of your machine must be lubricated with protective oil in addition to daily cleaning in order not to be exposed to corrosion. Make sure that the surface is clean before doing lubrication. This lubricating process will extend the lifetime of the shafts as well as reducing the probability of the linear bearings getting defective.



WARNING: Use protective oil for lubricating the linear shafts. Never lubricate with grease oil!

5.5.9 Checking the Linear Bearings

Since the linear bearings of your machine are continuously exposed to chips, sawdust and load, the necessary maintenance and lubrication procedures must be performed.

5.5.10 Belt Checks

Your machine is produced with Belt Pulley drive system. Checking of impacts, bruises and damages on belts, and looseness checks must be performed at least once a week. When the checking of the belt tension is made, the deflection rate is considered by applying a force of approximately 100 N (10 Kg) between the two pulleys. If it is high or if a flapping sound is heard from the belt, the tension adjustment must be made with the belt tension bolt.



NOTE: The machine will not be covered by the WARRANTY in case of any of the following circumstances.

1. In cases of the linear bearings and shafts, of which daily, weekly and monthly maintenances are failed to be performed, getting worn due to corrosion and in failures emerging on parts related to these,
2. In case of failures and defects due to conditioner oil being used up,
3. In case of failures caused by the water leaking into the system due to the conditioner's water reservoir being full and being discharged,
4. In case of improper oils such as oils of different type numbers, hydraulic oil, brake fluid, vegetable oil, etc. other than the recommended oils being used.
5. In case of replacement of defective parts by anyone other than the authorized service,

5.6 OIL ADDING OPERATION

You can add oil in your machine by referring to the figure under the title **4.3.14 Oil Tanks** and by selecting the suitable oil specified on the label on your machine.

5.7 TYPICAL PHYSICAL SPECIFICATIONS OF THE OIL (Conditioner Oil)

Specifications			Method	Morlina S2 BL 10
ISO Viscosity Class			ISO 3448	10
Kinematic Viscosity	@20°C	mm ² /s	ASTM D445	-
Kinematic Viscosity	@40°C	mm ² /s	ASTM D445	10
Kinematic Viscosity	@100°C	mm ² /s	ASTM D445	2,3
Density	@15°C	Kg/m ³	ISO 12185	881
Flash Point (COC)		°C	ASTM D93	150
Yield Point		°C	ISO 3016	-30
Pas Test (Salty Water)			ASTM D665B	Pass
Tost Life Test		Hour	ASTM D943	2000+
Rpvot		Minute	ASTM D2272	300



NOTE: The physical specifications are declared by the manufacturer. It may vary depending on the manufacturing.

5.8 MAINTENANCE RECORDS LIST

The maintenances performed must be recorded with **FR 14 02 Maintenance Record Form** that you have received with the documents of the machine.

	MAINTENANCE RECORD FORM			Form No:	FR 14 02
				Rev. No	0
				Rev. Date	-
				Publication Date	05.03.2018
Product Type					
Product Model					
Product Serial No.					
Item No.	Date	Operating Time	Description	Item No.	
				Company	Name - Surname
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

5.9 FAILURES AND TROUBLESHOOTING

FAILURE	SOLUTION
The machine does not run.	The machine is not receiving power. Check the cable, socket and mains current.
The engine does not work although the machine is receiving power.	The motor might have failure. Apply to Özçelik .
Failure in cutting angle.	The spring adjustment might be defective. After loosening the screw fixing the spring, adjust it by turning it to the right or left until the correct position is reached. Later, tighten the fixing screw.
The sawblade does not cut well.	The sawblade might be blinded. Sharpen or replace the sawblade.
The machine has power but the clamps and sawblades do not move upwards.	Check the air connection of the machine. Make sure that the pressure is not under 6 bars.
The sawblade on the machine does not move upwards.	The reducer might be left off. Appropriately turn on the reducer and ensure sawblade movement.
The sawblade of the machine runs skipping.	Check the pneumatic system oil level.
The sawblade rotates wobbly.	The sawblade might be crooked due to impact. Replace the sawblade.
The sawblade rotates wobbly.	The coupling might be crooked due to impact. Apply to the nearest dealer or Özçelik for replacement with original spare part.



WARNING: For problems that may occur except of the failures mentioned above, contact **ÖZÇELİK** authorised service.



NOTE: Unauthorised and incompetent persons must not intervene. In that case, your machine may be out of warranty.

6. DECLARATION



EC DECLARATION OF CONFORMITY Avrupa Topluluğu Uygunluk Beyanı

Manufacturer: İmalatçı:	ÖZÇELİK MAKİNA SAN. VE TİC. A.Ş.		
Production Date: Üretim Yılı:		Serial Number: Seri Numara:	
Preparing The Technical File: Teknik Dosyayı Hazırlayan:	Mesut ULUKÖYLÜ		
Address: Adres:	Anadolu Mahallesi Kanuni Caddesi No:8, 34956 Tuzla İSTANBUL / TURKEY T: +90 216 304 20 10 / F: +90 216 304 19 08		
We, OZCELIK MACHINE, declare under our sole responsibility that the products: ÖZÇELİK MAKİNA olarak belirtilen ürünlerin kendi sorumluluğumuzda olduğunu			
Product Designation: Ürün Tanımı:	Automatic Cutting Machines with Rising Blade Otomatik Alttan Çıkma Testereli Kesim Makineleri		
Type(s): Tıp:	Series: Seri:	Models: Model:	
Automatic Cutting Machine with Rising Blade Otomatik Alttan Çıkma Testereli Kesim Makinesi	METEOR	I 420 / II 420 / I 500 / II 500 / I 600	
comply with the provisions of the following European Directives and harmonised standards: ve aşağıda belirtilen Avrupa direktiflerinin ve harmonize standartlarının koşullarını sağladığını belirtiriz.			
2006/42/EC	Machinery Directive Makine Emniyeti Direktifi	EN ISO 12100:2010	Safety of machinery - General principles for design - Risk assessment and risk reduction Makinalarda güvenlik - Tasarım için genel prensipler - Risk değerlendirilmesi ve risk azaltılması
		EN 60204-1:2018	Safety of machinery - Electrical equipment of machines - Part 1: General requirements Makinalarda güvenlik - Makinaların elektrik teşvizi - Bölüm 1: Genel kurallar
		EN 1870-10:2013	Safety of woodworking machines - Circular sawing machines - Part 10: Single blade automatic and semi-automatic up-cutting cross-cut sawing machines Ağaç işleme makinelerinde güvenlik - Daire testere makineler - bölüm 10: Tek bıçaklı otomatik ve yarı otomatik yukarıya doğru çirne kesen testere makineler
2014/30/EU	Electromagnetic Compatibility Directive Elektromanyetik Uyumluluk Direktifi	EN 61000-6-2:2005/AC:2005	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments Elektromanyetik uyumluluk (EMU) - Bölüm 6-2: Genel standartlar - Endüstriyel çevreler için bağışıklık
		EN 61000-6-4:2007/A1:2011	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments Elektromanyetik uyumluluk (EMU) Bölüm 6-4: Genel Standartlar Endüstriyel Ortamlar için Emisyon Standartları
This conformance statement shall become invalid if modifications are made to the machinery without our prior written approval. Bu uygunluk beyanı, yazılı iznimiz olmadan ürünler üzerinde değişiklik yapılması durumunda geçersizdir.			
The technical file is compiled by OZCELIK MACHINERY CO. Teknik dosya ÖZÇELİK MAKİNA SAN. VE TİC. A.Ş. tarafından derlenmiştir.			
Anadolu Mahallesi Kanuni Caddesi No:8, 34956 Tuzla İSTANBUL / TURKEY			
ÖZÇELİK MAKİNA SAN. VE TİC. A.Ş. İSTANBUL / TURKEY 04.01.2019			GENERAL MANAGER GENEL MÜDÜR Hasan ÖZÇELİK

7. WARRANTY TERMS AND CONDITIONS

- 1- The warranty period is 12 months as of the date of “invoice”.
- 2- The warranty covers remedying the failures arising from the fabrication and workmanship faults and manufacturing, installation and material faults including all parts of the product, replacing the parts that are impossible to be repaired, and repairing all parts that can be reused when repaired. The warranty covers the repair or replacement of the parts by the authorised service and the labour costs incurred due to the problem arising under the warranty. The travel and accommodation costs that may arise during this process shall be borne by the customer.
- 3- In order for the warranty conditions to be valid, the periodic maintenances specified under the maintenance and operation instructions of the machine must be fully done by the authorised service.
- 4- In warranty claims, the service reports related to the periodic maintenances must be submitted.
- 5- In order for the warranty period to continue, the paid periodic maintenances and repairs of the damages incurred must be performed by the “authorised services”, and the relevant documents must be received.
- 6- In case of any failure within the warranty period of the product, the period that is spent under repair shall be added on the warranty period. The period of repair of the product is 20 working days in maximum. This period commences on the date of notice to the service station or - where there is no service station - to either one of the vendor, importer or manufacturer of the product.
- 7- Pursuant to the “Regulation on Application Principles of Warranty Certificate” published by the Ministry of Industry, in the case that a part of the machine that is not obligatory to be sold with warranty certificate being replaced by our authorised service, regardless of the age and operating hours of the machine, 6months of warranty period is granted for such part's malfunction due to material, assembly and workmanship faults, provided that it is documented that such part has been replaced by our authorised service and such document is submitted.
- 8- In the case of failure of the part within the warranty period due to whether material and workmanship or the assembly line, the necessary **replacement and repair is carried out free of charge at our authorised services without receiving the cost of workmanship and the part replaced. In the case that the company requests, the defective part must be returned to our company by the customer.**
- 9- There is a warranty of 10 years to make spare parts available for each product by the manufacturer.

CONDITIONS OUT OF WARRANTY;

- 1- Use of the product in breach of the purpose and standards specified by the manufacturer (Overloading and unbalanced loading).
- 2- In case of the installation area of the product failing to be solid and suitable for continuous operation (lack of necessary air inlet and outlet windows, lack of suitable ground and a flat platform, failure to use cables in appropriate sizes and diameters, lack of grounding, failure to take all measures in accordance with human health and safety).
- 3- If the product has been failed to be used in accordance with the specifications in the user's manual.
- 4- If the failure has arisen from improper and careless use and misuse.
- 5- If the failure is caused by the sudden increases and decreases in the mains power, stroke of lightning, thunderbolt, fire, flood, earthquake and similar natural disasters, and if voltage different from the voltage indicated on the product identification label is used.
- 6- If maintenance and repair has been performed with the technical information, special tools and equipment not required by the manufacturer as well as the authorised service, or by someone other than the authorised service or .
- 7- If the warranty certificate or purchase invoice is not submitted during the request of service.
- 8- If the name and address of the authorised seller has not been stamped on the warranty certificate.
- 9- If the model name, group number and date of purchase has not been stated on the warranty certificate.
- 10- If periodic maintenance has not been performed by the authorised service or on time.
- 11- If unoriginal spare parts or oils other than those recommended in the user's manual has been used.
- 12- All failures arising due to the power lines of the user are out of warranty.

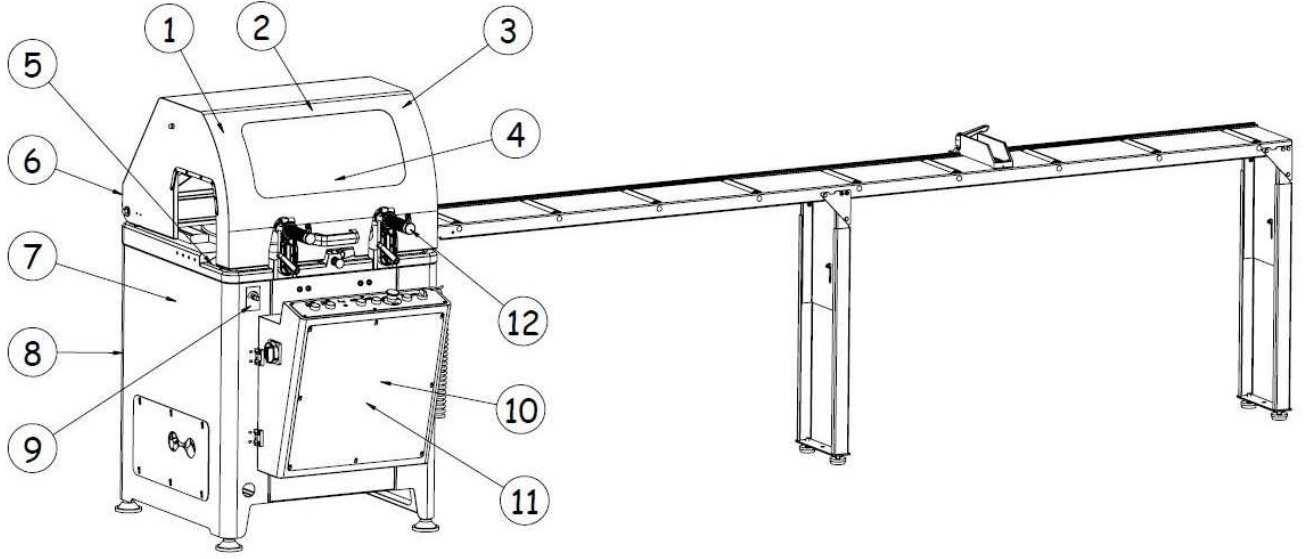
GENERAL INFORMATION REGARDING WARRANTY:

- 1- All parts that are natural to wear over time, such as filters, condensers, fuses, bulbs, belts, cables, bearings, contact kits, etc. shall be repaired or replaced for a fee.
- 2- Loss of time, damage, loss, loss of income and the transportation costs and damages occurring during the receipt of the product from the site of failure and transportation to somewhere else are out of warranty.
- 3- The customer may not demand compensation for loss and damage due to disruptions in the service provided by our company, delays in material and service delivery and such reasons. However, for delays that may arise due to the mentioned reasons, warranty period extension may be given to the customer in case deemed appropriate by our Company.
- 4- It is determined on the basis of the records in our service centre, whether the product received by the service is covered by warranty. In any case of dispute on this issue, the invoice of the product and the service forms are required to be submitted. In determination of whether the failure is within or out of warranty, the report to be issued by the service personnel about the product shall be taken as basis.
- 5- Transportation of the material to be changed is made directly from the factory or the dealers. Even if the machine returned by the customer is under warranty, the transportation cost belongs to the customer.

CONSUMER'S RESPONSIBILITIES:

The consumer is responsible for regular maintenance of periodic maintenance in accordance with the instructions given in the user's manual and the warranty certificate. The consumer is responsible for maintaining the service report given by the authorised technical service after each maintenance and submitting it if requested. It will be documented that the periodic maintenances of the product are done.

8. WARNING AND INFORMATION LABELS



NOTE: The image above is given for symbolic purposes.

1	2	3	4
Operating Instructions Warning Label	Personal Protective Equipment Label	Motor Rotation Direction Label	Arrow Direction Label
5	6	7	8
Oil Label	Grounding Label	Product Plate	Air Dryer Label
9	10	11	12
Cutting Speed Label	Sawblade Warning Label	Electricity Hazard Label	Hand Caution Label