Scroll Saw Machine and Scroll Saw Machine With Liftable Upper Arm

Introduction and User Guide

I wish you to proudly use your machine in the most beautiful days and in beautiful works, to add value to your labor. . .

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Hello

Thank you for choosing our "Yıldızay ®" brand in your scroll saw machine. You can use your machine in healthy and peaceful days with the belief that it is your most valuable investment that you will be proud to leave to future generations, which will add value to your mastery in realizing the project applications you imagine (cutting, carving, naht art, jewelry, building model making, advertising, marquetry, inlay making, cage and ship model making, etc.). we hope.

The scroll saw you have purchased has been produced with high technology, quality materials and careful workmanship, and each part has been evaluated in very rigorous R&D processes and made the most efficient.

Your machine has been designed based on the principles of providing comfortable, safe and healthy working and environmentally friendly service to the user.

The quality, durability and aesthetic features of your machine have been adhered to in the provision and production of all equipment and accessories of your machine and their harmony in terms of visual and usability.

Your machine has the ability to perform all kinds of cutting and engraving operations easily and by adjusting it in accordance with the characteristics of your project.

Your machine is equipped with an incomparable motor (190W) and as in every other issue, no compromise has been made. It will work with the thickest bristle saw blade (bristle saw tip) and without any difficulty in cutting the hardest material, and will always be your greatest helper with its powerful performance. At the same time, it is capable of performing fine and precise work by using the thinnest bristle saw blade.

With many years of experience (Working and Technical Education, Technology and Design teaching for many years, a traditional handicrafts producer of the TR Ministry of Culture, one of Turkey's Masters, Cutting-Carving in Woodworking) so that your machine will make you happy during use and be proud of owning it. It was designed by Cemal Ayyıldız, the author of the books on Inlaying in Woodworking, Technical Painting, Local Handicrafts and Job Training, and the R&D studies were carried out personally. The machines were patented and protected by the Turkish Patent Institute and are produced under the brand "Yıldızay®".) meticulously designed, It has been produced and passed through various tests and presented to you, our precious masters, in order to add value to your work.

Explanations on Machine Models

Scroll saw machines are usually named according to the size of the working area. The working area of the machine is named by the measurement between the jigsaw blade and the upper arm connection piece located at the back of the machine (Picture 3) (neck distance). These dimensions are usually specified with inch measurement system such as 16", 18", 21".

E.g;

1 inch corresponds to 25.4 mm in length.

The nape distance of a jigsaw machine called 21 inches;

It has a length of 21x25.4=533.4 mm.

The metric system, which is also valid in our country, is used in our machines produced under the registered trademark of Yıldızay®. In machine designs and model coding, the common unit of millimeter known to each of us has been acted upon.

According to the nape distance dimensions, our machines also have "fixed upper arm" and "upper arm liftable" models (Picture 13).

Machine models are named as follows:

1. YM-SB-410 **1.** YM-HR-410

2. YM-SB-460 **2.** YM-HR-460

3. YM-SB-555 **3.** YM-HR-555

The expression "YM" in the first two digits of the model numbers indicates the "Yıldızay® Machine" code.

The "SB" code in the second section refers to machine models with a fixed upper arm, and the "HR" code refers to machine models whose upper arm can be lifted.

The codes "410", "460" and "555" in the third section express the measure of the machine neck distances.

E.g; Model "YM-SB-410" refers to a scroll saw with a fixed upper arm and 410 mm nape distance. A YM-HR-460 model machine, on the other hand, refers to a Scroll saw with a lifting upper arm and a 460 mm nape distance.

neck distance comparisons of the machines named in accordance with the inch system and the machines produced by Yıldızay® can be made as follows;

For 16 inch machine: 16x25.4= 406.4 mm	Yıldızay ® 410 mm
For 18 inch machine: 18x25.4= 457.2 mm	Yıldızay ® 460 mm
For 21 inch machine: 21x25.4= 533.4 mm	Yıldızay ® 555 mm

Approximate weight and dimensions of the machines (dimensions are given as width, height, height.)

YM-SB-410, YM-HR-410 models machines are 33 kg and their dimensions are 350x577x480 mm.

YM-SB-460, YM-HR-460 models machines are 35 kg and their dimensions are 350x627x480 mm.

YM-SB-555, YM-HR-555 models machines are 39 kg and their dimensions are 350x722x480 mm.

1. Preparing the Machine for Use

a. Unpacking the machine;

- Carefully cut open the packaging cardboard, strips and tapes of your machine.

- Carefully remove the protective material inside the packaging carton. You will see your machine, which is protected by a plastic wrap.

- Take your machine out of the packaging carton by holding it by its body and lifting it carefully.

b. Leveling the machine;

- It is very important that your machine is operated on a smooth ground. In terms of ease of use and safety, we recommend that you choose the machine stand specially designed for your machine by our company (Picture 7). You will be able to use your machine easily by mounting it on its original stand (Picture 8).

- After placing your machine on the workbench, make sure that your machine is properly seated on the floor by turning the four machine feet (Picture 1.1). Otherwise, your machine may vibrate during operation.

- You can use your scroll saw by fixing it to your workbench. For this, you can remove the four machine feet and tighten them with bolts from the holes here and fix them to your

workbench. However, in this way, it will take up space on your workbench and will prevent your other work.

- To use your machine without fixing it, make sure that your machine is properly seated on the floor by turning the four adjustable machine feet (Picture 1-1) after placing it on your work bench. You can make this adjustment by shaking your machine lightly with your hand and checking whether it sits on the feet completely.

- After making sure that your machine is placed on the floor properly, rotate the domed nuts (Picture 1-2) to the parts remaining at the ends of the machine feet for adjustment fixation and fix your adjustment by slightly tightening.

2. Introduction of Machinery Equipment

In this section, what is explained under each heading is shown in practice in the videos section of the www.yildizay.net web pages.

- **Protection shield:** For your working safety, your machine is equipped with a protection shield (Picture 1-12). The protection guard is fixed to the machine by tightening it with a butterfly bolt (Picture 1-11). This bolt is used to adjust, replace or remove the guard. The transparent protection guard (Picture 1-12) has the feature of being adjustable according to the thickness of the material to be cut. The guard adjustment butterfly bolt (Picture 1-13) is used to make the adjustments. This bolt is opened and the transparent protection shield is brought to the desired vertical position and then the butterfly bolt used for adjustment is fixed by hand tightening slightly.

Note: During the operation of your machine, the blade of the jigsaw will vibrate and cut your workpiece. Your machine is equipped with a protection guard system for your working safety so that your fingers do not come close to the cut area. We recommend that you use the guard at all times.

- **Pressure bar:** One of the equipment that will help work safety and comfort is the pressure bar (Picture 2-16) system. The pressure bar is first adjusted in accordance with the thickness of the workpiece to be cut. Then, the pressure bar fixing butterfly bolt (Picture 2-17) is slightly tightened by hand so that the settings are permanent. The presser foot assembly (Picture 2-18) located at the bottom of the presser bar is equipped with positioning settings suitable for different cutting methods.

Note: During the operation of your machine, the blade of the jigsaw cuts when it goes down. When the jigsaw blade moves up, it wants to lift the workpiece, which is being cut, even a little. Of course, it is possible to avoid this, even if the pressure bar assembly is not used. However, in this case, it is necessary to focus more attention at any time and press the workpiece on the work table in such a way that the jigsaw blade cannot lift it. Cutting without using a pressure bar can cause arm pain after a while. In addition, light shaking means that the workpiece goes out of the project line at the places where the cutting is applied. This is undesirable in terms of the precision of the work. It is also possible to break the blade of the saw blade in a harder shaking. In order to avoid all these problems, we recommend that you use the pressure bar hardware of your machine.

- **Blower:** Dust particles and fine sawdust particles removed from the workpiece by the jigsaw blade during operation cover the project lines. In order to prevent this, your machine is equipped with a modern, comfortable and high quality blower system. The blower system has a fan motor located inside the machine body. The fan motor is started by opening the blower fan motor switch (Picture 1-6). When the blower is not needed, the fan motor switch is turned off and the air blowing process is interrupted.

The air from the fan motor passes through the air hose (Picture 1-9) and comes to the blower pipe (Picture 1-8). The tip of the blower tube is inclined towards the workpiece. The air

coming out of the end of the blower tube should be adjusted exactly towards the cutting zone. To make the adjustment, the blower adjustment wing bolt (Picture 1-10) is opened manually. By checking the desired positioning, the blower adjustment wing bolt is tightened slightly by hand.

Note: This feature for your machine is sometimes thought to be able to work in very sensitive workpiece cuts (jewelry, jewelry making, inlay making, etc.) in areas where a blower is not required. In the design of the blower, care was taken not to cover the project line with dust and sawdust only in the cutting area. It should not be forgotten that excessive air blowing can mix these dusts into the inhaled air and should not be expected from the blower system. In order to obtain the desired efficiency, it is recommended to check the adjustment of the blower tube before each cutting operation.

- **Dust extraction system:** During the cutting and carving process, sawdust and dust are poured from the lower part of the workpiece, where the blade saw blade cuts, from the cutting gap of the table flange to the bottom of the machine. It is undesirable for them to mix with the exhaled air. At the same time, these dust and fine shavings spilled on the floor can also pollute your working environment. In order to prevent this, your machine has a vacuum cleaner or a dust extraction system that you can suction by connecting the hoses of different dust suction machines. The dust suction system is formed by the dust suction channel (Picture 3-45) and the dust suction system hose connection outlet (Picture 3-25) placed at the back. In addition, a universal adapter (Picture 3-26) supplied with your machine will give you the ability to connect the hose of any type of vacuum cleaner to your dust extraction system.

Note: It is recommended to use the dust extraction system designed to work together with the blower system of your machine in terms of your working health and the cleaning of the area you work in.

- Lighting system: During the work, the intensity and attention will be on the project lines on the workpiece. The reflection of the lamp hanging on the ceiling or the sunlight sources coming from different angles to the area where the cut is made will be different. Most of the time, shadows will cause confusion in the work lines, limiting your ability to cut into your workpiece with the desired efficiency and will tire you out. To prevent this and to provide a comfortable working environment, your machine is equipped with a magnetic lighting system to increase both your desire to work and the quality of the work done. This system, which will be supplied with the machine, is used by plugging it into a lighting power connector (Picture 4-32) located on the lower and front of the upper arm of the machine. You can preferably fix the magnetic body of the lighting system, which you can easily illuminate anywhere in the working area, to its place in the image given in Picture 4.

The lighting switch (Picture 4-31) is used to turn on or off the electricity required for the lighting (Picture 4-30) to work. The flexible lighting system movable extension tube (Picture 4-46) will give you ease of adjustment.

Note: Like every piece of equipment supplied with your machine, the lighting system is designed to work only with your scroll saw. For both your machine and your own safety, it must be used by connecting to its own connector. Likewise, no other means should be attached or connected to the connector and hardware, connection, mechanical or electrical parts of the machine body.

If you disconnect the electrical connection of your lighting system from the connector, be sure to replace the plastic connector cover on the connector so that it covers the connector. Thus, since there will be no electrical access from the outside, you will make the connector safe. While making all kinds of electrical connections, the system illuminated power switch should be in the "0" position and the light should not be lit.

- Engine speed regulation system: One of the most important features of the scroll saw is that the engine speed can be adjusted. You can easily use your machine at any speed between 0 - 1400 dv / min. This feature means you have absolute control during the cutting process.

Scroll saw, you can cut and carve with materials of different structures and thicknesses. You can also use a jigsaw blade suitable for the properties of the material. When used in a setting that vibrates rapidly with some materials, the blade of the jigsaw may break as a result of overheating. It is also known that some wood materials are too hard and need a vibration at an appropriate speed depending on their thickness.

Your scroll saw has an electronic circuit that regulates the engine speed. The engine speed, in other words, your cutting speed is controlled by the engine speed adjustment button (Picture 2-7). You can decrease or increase your vibration speed as much as you want before starting the cutting process or while cutting.

Note: Your scroll saw is equipped with a high quality and powerful motor and an electronic power supply that drives it. Your 190W engine will give you the power you want at every revolution speed.

It should not be forgotten that an efficient cutting is necessary for any project you are working on to result in the quality you want. For this, the cutting process and speed must be completely under your control. You may think that cuttings made using more speed than necessary will save you time. However, on the basis of a good mastery, it should be known how important planning is with patience and meticulous work. We recommend that you work by paying attention to the fact that the cuts you will make at the appropriate speed give cleaner and error-free results.

- Electrical equipment: 220V power input connector is used in your scroll saw to prevent damage to the cable connection during transportation and use. The grounded power cable to be used by plugging into this input will be supplied with the machine. The fuse holder is located just below the 220V connector input (Picture 1-3). In any undesired situation, the fuse in this slot will blow and prevent your machine from having an electrical malfunction. The fuse in the fuse holder, which can be opened when necessary, can be replaced with a new one (8 amps). Spare fuse will be supplied with the machine.

Note: The electrical connections of the equipment such as the motor, power supply, speed regulation circuit, blower fan motor, lighting energy cable located in the body of your machine and the inner part of the upper arm are grounded, insulated and fixed in place to work safely. Make sure to plug the power cord of your machine into a grounded socket. Intervention of your machine by people outside of our production and maintenance facilities will lead to undesirable results. In such a case, your machine will be out of warranty. The machine plate and body parts are mounted with combination bolts. In addition, the security labels on your machine are placed for this purpose and should not be torn, damaged or removed.

- Security labels: Damage to security labels and combination bolts means that the machine has been tampered with and this will void your machine's warranty.

When you encounter a problem with your machine, send an e-mail describing the situation "cemalayyildiz@gmail.com" e- mail addresses.

- Serial, no : There is a label under the upper arm front head part of the machine, which contains the "serial" and " no " information specific to your machine. This serial number is the

number given to your machine by our company. Thanks to the serial numbers, your registered customer information will be kept up to date by our company and the usage process of your machine will be followed by us. You will also use your serial number in your work and transactions related to your warranty certificate.

Note: You will be given access to the environment where application videos, visual contents, information notes and machine-related features will be shared on www.yildizay.net.

- Angled (oblique) cutting feature: One of the unique and incomparable features of your machine is its ability to make angled (oblique) cuts. The cutter system of your machine is designed with the ability to make the oblique cuts required for your projects by tilting $0^{\circ}-45^{\circ}$ on both sides, right (Picture 9) and left (Picture 10).

You can easily make the angle and direction you want to cut by using the gradation on the angle dial (Picture 2-40) on the front of your machine. For this, you must first loosen the front ball bolt (Picture 1-27), the rear ball bolt (Picture 4-28) and the center shaft fixing ball nut (Picture 4-29) that fix the tilt arm system of your machine by hand. Then tilt the upper arm (Picture 2-22) with horizontal movement feature until the angled cut mark (Picture 1-39) coincides with the angle measurement line on the dial that you will cut. Finally, fix your adjustment by tightening the ball bolts and ball nut you have loosened.

One of the many important features of the ability to make angled cuts is that the upper table (Picture 1.41) always remains stable. Thus, you will be able to easily perform the cutting process you are accustomed to, and the cutting process and machine equipment will always be under your control.

Note: When making angle cut adjustments, the previously introduced presser bar must be lifted up and thus the presser foot should be moved away from the cutting area. Otherwise, when you tilt the upper arm to the left, the presser foot will touch the table and prevent you from making the desired adjustments. After tilting the upper arm in accordance with the cutting angle, you can easily adjust and use the presser bar and the presser foot in the horizontal cutting position and in accordance with the thickness of your material.

- Movable upper arm feature: The upper arms of the models of your machine that start with the "HR" code have the feature of being able to move upwards. This feature will provide you with a wide working area during use. It will be more comfortable and safe for you to pass your jigsaw blade through the workpiece in your precision work. E.g; Suppose you are threading a size 0 jigsaw blade and into a workpiece with a 1 mm diameter guide hole. It will be very difficult for you to stretch your jigsaw blade too much and you will be able to both see and pass the part of the guide hole under the workpiece. This can cause either damage to your workpiece or breakage of your jigsaw blade, especially in large workpieces. Especially in marquetry applications where you place many coatings on top of each other and open the guide hole with a needle, the fact that the upper arm of your machine can be lifted upwards will provide you with great convenience. Of course, you will be lifting the upper arm according to your own will.

In order to raise the upper arm, the upper arm action adjustment knob bolt (Picture 1-23) and the upper arm action center knob bolt (Picture 3-24) must be loosened slightly by hand. Then the upper arm is lifted upwards and meanwhile, the upper arm holding latch (Picture 11-47) automatically engages and keeps the upper arm where you lift it. After you have finished your work on the work piece you are working on, you can easily push the trigger of the latch (Picture 11-48) forward to allow the upper arm of the machine to settle into place.

On the lower part of the movable upper arm, there is a grub screw that makes the fine adjustment of the upper arm by turning it with an hex key (Picture 11-49). This setting was checked for you at our production facilities and your machine was then packaged.

Models with a fixed upper arm starting with the code "SB" do not have the ability to lift the upper arm upwards (Picture 8).

- **Bit holders:** The scroll saw has a movable system in which the jigsaw blade is attached and operated. The jigsaw blade mounting process is done without the use of any additional tools. For this, butterfly head bolts that can be easily tightened by hand are specially designed and produced by us (Picture 2-21), (Picture 1-38). In the lower bit holder (Picture 2-37) and upper end holder (Picture 2-20) systems, there are also pin slots (Picture 5-44) where the pins of the pin-shaped bristle saw blades will fit.

Note: Bit holder systems are made of steel materials and also heat treated. This is because the bolts that will open and close most often work here. Relevant surfaces have been prepared as rough so that the jigsaw blade can be easily clamped in the bit holder system. The parts of the bit holder system are also chrome plated for aesthetics and corrosion resistance throughout the machine.

A unique feature of the bit holder system is that it can be adapted to left-handed users. When you replace the bit holders attached to the lower movable jaw part (Picture 2-36) and the upper movable jaw part (Picture 2-19), you can easily use this feature by turning them to the left.

- **Replacing the jigsaw blade:** Your scroll saw is designed to be able to use all kinds of metal and wooden jigsaw blades (tips), straight, pin, spiral and in different numbers from the thinnest to the thickest.

The lower bit holder system is mounted on the lower movable jaw part, and the upper tip holder system is mounted on the upper movable jaw part using bolts.

The jigsaw blade is used by attaching to the bit holder systems mounted on the lower and upper movable jaws.

The sharp direction of the teeth is checked first, while the jigsaw blade is put in its place. The sharp side of the teeth should point downwards and towards the front of the machine. There is a clamping section without teeth at both ends of the jigsaw blade. First, the lower part of the jigsaw blade is placed in the lower end holder system and the butterfly bolt is tightened. Then the upper end of the jigsaw blade is placed in the upper clamping system and the upper butterfly bolt is tightened.

It is required that the jigsaw blade be at a certain tension (the hardness and thickness of the material to be used and the thickness of the jigsaw blade should be taken into account). There is a tension spring (Picture 1-14) and a tension latch (Picture 1-15) at the top to keep the jigsaw blade taut where it is attached. When the tension latch is in the open position, it is turned clockwise to get the clearance of the tension spring. Then, the tensioning latch is closed and the tension of the jigsaw blade is provided. If desired, the jigsaw blade is controlled by hand and the tension can be changed easily by turning the tension latch.

Note: It is very important that the jigsaw blade is at the proper tension during cutting. When cutting with a jigsaw blade that is not tight enough, it becomes difficult to follow the project line segment. If you experience such a problem, you should understand that the tension of the jigsaw blade is not sufficient. When cutting with a bristle saw blade that is stretched too much, the machine shakes more than necessary. At the same time, you increase the possibility of breaking your jigsaw blade. After stretching your jigsaw blade at the tension suitable for your job, it is recommended to check it by hand and develop a habit in this regard.

To cut the inner parts of the workpiece by passing your jigsaw blade through the guide hole, first open the clamping latch. Then loosen the upper-end clamping wing bolt by hand so that the upper end of the jigsaw blade remains free. Next, pass the jigsaw blade through the bottom of the guide hole and clamp it in place in the top-end clamping system. Ensure the tension of the jigsaw blade by closing the tension latch.

If you are not going to cut horizontally, the angle cut mark of your machine should be at "0". In this regard, you can adjust the verticality of the jigsaw blade by using the control square supplied with your machine.

If you encounter an unfamiliar situation during the cutting process, check the direction of the teeth of your jigsaw blade, make sure that you have adjusted your tension and that the tensioning latch is closed. In addition, you should not forget that you cannot perform an efficient cutting process with a bristle saw blade with dulled cutting teeth.

We would like to remind you that the cutting work is carried out by the cutting teeth of the jigsaw blade during cutting and engraving. It would not be correct to press the workpiece against the blade of the jigsaw too much while cutting. During such a cut, the jigsaw blade first stretches and then breaks. A certain speed of vibration, patience and meticulousness are needed to achieve a harmonious and enjoyable cut. We recommend that you make a comfortable cut without haste in the appropriate oscillation of the vibration of the jigsaw blade.

Your machine is not suitable for the use of bristle saw blades whose length has been shortened by breaking. Do not try to re-attach broken or broken blades to the machine. Trying to cut with a blunt-toothed jigsaw blade will negatively affect machine performance and the quality of your work.

- Machine work plate and table flange: Your machine is equipped with a work plate (Picture 1-41) made of alloyed aluminum material, in dimensions that you can easily work on. The work plate, which has a robust, wide, useful and yet stylish design, has a multifunctional table flange (Picture 6-42).

flange, which has a gap in the middle where the bristle saw blade can easily work, is fixed to its slot on the work plate with the help of flange fastening bolts (Picture 6-43).

Note: There may be abrasions and cuts around the cutting gap, which can sometimes be caused by misuse of the jigsaw blade during operation. In such cases, it may be necessary to replace the table flange in order to maintain the working accuracy. The table flange is an additional part designed to prevent the machine work plate from being affected by the cuts and defects in the cutting gap. You can also use the precision worktable flange supplied with your machine in your delicate works by using a thinner bristle saw blade. You can obtain the table flange you need over time from your website www.cemalayyildiz.com.

- **Tool holder:** Only available on "YM-SB-555" and "YM-HR-555" models. The tool holder (Picture 4-33), located in the body of your machine, consists of a section where you can keep some parts that you will use with your jigsaw machine. You can use the hand-tightening door clamping knob bolts (Picture 4-35) to open and close the drawer slot cover (Picture 4-34).

Machine stand: The machine stand is an additional piece of equipment that you can purchase separately from your scroll saw. It is specially designed for machine models. You can easily assemble your coffee tables that you receive unassembled (Picture 7). Your machine is used by being fixed to the machine stand. Detailed explanations about this will come with the illustrated assembly instruction and the connecting bolts "machine stand".

Note: Having a fixed place in the workshop for the machine to be mounted on its stand provides advantages such as not occupying any additional space on your workbench. Thus, you

will prevent your machine from being damaged by other work on your workbench. In addition, you will have the opportunity to work by sitting on a stool that you can place in front of your machine. This allows you to work for a long time without getting tired.

Included with the Machine

- Introduction and user guide, cut-carving project and motif samples,
- Precision working cutting flange,
- Machine lighting system,
- Dust extraction adapter,
- Power cord,
- Spare fuse,
- Control square,
- Protection shield.

The tensioning system of your machine has been disassembled in order not to be damaged during transportation. You can assemble it by snapping and rotating it as shown in Picture 1. You can watch the videos about the parts to be assembled in the videos section of the www.yildizay.net web pages. These; Tension system with tension spring (14) and tension latch (15), pressure bar (16) system, protection shield (12) hardware and lighting system.

Assembly of Hardware and Parts

1. Tension system with tension spring (14) and tension catch (15):

You will see that there is a slot on the top of your machine in place of the tensioning system. Fasten the tensioning spindle, together with its spring, through the hole in the middle of the black bearing piece, to the upper movable jaw, as seen in Picture 1, with the threaded part of the tensioner facing downwards. In the meantime, help the upper movable jaw to be compressed comfortably by slightly lifting it upwards with your hand.

Note: The tensioning system must not be tightened all the way. Then, when you connect the jigsaw blade, the appropriate tension will be adjusted.

2. Pressure bar (16) system:

Presser rod (16), fix the presser foot assembly (18) with the presser foot fixing bolt by inserting it as shown in Picture 2.

3. Fitting of the guard (12):

Assemble it as shown in Picture 1. Bolts required for assembly are on the machine.

4. Lighting system:

Assemble it as shown in Picture 4.

You can view the videos and images about the promotion and usage described in this guide on <u>www.yildizay.net</u> and <u>www.cemalayyildiz.com</u> pages and on **yildizaymakine.** We would like to remind you that you can watch it on the youtube channel.

Instructions, Explanations and Considerations Regarding Machinery Operation, Use, Transport and Relocation, Cleaning and Maintenance

- Before operating the machine, the **Introduction and User Manual** must be read and studied carefully.
- machine should be used as described throughout the Introduction and User's Guide
- If the machine is to be relocated due to transportation, it should be placed in its original packaging .
- The settings of the machine equipment will be made by the user according to the material to be shaped in the machine and the jigsaw blade to be used.
- Electrostatic powder paint system was used in the coloring of the machine. The dust caused by the work it does can be removed by blowing air into the machine.
- Applying a damp cloth or other wet and wet cleaning methods may damage the machine equipment and cause malfunctions in the electrical system. For this reason, it should only be cleaned by blowing air.
- Introduction and User's Guide is carefully examined, it can be seen that it is not normal to encounter a defect in the machine. However, when any undesired problem is encountered, the system switch of the machine should be set to "0", the power cable should be removed and the manufacturer should be contacted. Communication with the manufacturer should be done by e-mail stating the problem and the serialnumber of the machine. In correspondence, there will be benefits such as subjecting the problem to technical evaluation and recording it by us. This is not possible during telephone conversations.
- Apart from dust cleaning with air, the machine does not require any special maintenance. Parts such as worn cutting flange, bit holders, bit clamping wing bolt, which may cause problems in its operation, can be obtained from the manufacturer at <u>www.yildizay.net</u> and <u>www.cemalayyildiz.com</u>.
- Machine Parts box that comes in the machine packaging is done in the light of the explanations given at the top of this page.
- The machine should not be used for purposes other than its intended use. Warranty labels should not be opened, damaged or torn off. The safety precautions and recommendations described in the **Introduction and User Guide must be followed.**
- The machine should not be operated in wet or humid environments.
- innovative changes in some parts and equipment in the machine images published in this manual . We would like to state that we have the right to make system, part and color changes on the product for development purposes in order to achieve greater perfection.

Thank you for your preference and we wish you to use your machine in health and peace. Note: You can get technical support by contacting us when you have difficulties.

Reference List of Machinery Hardware and Parts

Reference No. Hardware and Part Name

- 1. Machine feet,
- 2. Foot adjustment fixing nut,
- 3. Fuse holder and 220V power input connector,
- 4. System power switch,
- 5. Engine power switch,
- 6. Blower fan motor switch,
- 7. Engine speed control knob,
- 8. Blower pipe,
- 9. Air tornado,
- 10. Blower adjustment bolt,
- 11. Protection shield bracket mounting bolt,
- **12.** Transparent protection shield,
- 13. Transparent guard adjustment bolt,
- 14. Tension spring,
- 15. Tension latch,
- **16.** Pressure bar,
- **17.** Pressure bar fixing bolt,
- **18.** Presser foot assembly,
- **19.** Upper movable jaw,
- 20. Top end holder system,
- 21. Top end clamping bolt,
- 22. Upper arm,
- 23. Upper arm movement adjustment knob bolt (Available in models with upper arm movable),
- 24. Upper arm action center ball bolt (Available in models with upper arm movable),
- **25.** Dust extraction system hose connection outlet,
- 26. Universal adapter (supplied with the machine),
- 27. Front knob bolt,
- 28. Rear knob bolt,
- **29.** Center shaft fixing ball nut,
- 30. Lighting (Supplied with the machine.),
- **31.** Lighting switch,
- **32.** Lighting power connector,
- 33. Tool holder (available on "YM-SB-555" and "YM-HR-555" models.),
- **34.** Tool slot cover,
- **35.** Cover clamping knob bolt,
- **36.** Lower movable jaw,
- 37. Lower end holder system,
- **38.** Lower end pinch bolt,
- **39.** Angled cut mark,
- 40. Angle dial,
- 41. Worktable,
- 42. Table flange,
- **43.** Flange connecting bolt,
- **44.** Pin-hole saw blade pin slot,
- **45.** Dust extraction channel,
- 46. Lighting system movable extension tube,
- **47.** Upper arm retaining latch,
- **48.** Upper arm fine adjustment grub screw.



Picture 1



Picture 2



Picture 3



Picture 4



Picture 5



Picture 6



Picture 7





Picture 9



Picture 10



Picture 11







Picture 13

Sample Motifs and Projects

In this section, we have found it appropriate to present some cut-carving projects and sample motifs that we have prepared for you. You can photocopy them, use some motifs in different projects, or use them in your own designs by taking samples. We prepared motifs and projects in mixed difficulties and did not specifically tell you what to do with them. We leave that to your imagination. We also know that you can find project examples from many different sources and sometimes you will implement projects that you will design yourself. We have done such a study with the aim of helping you in the first works you will do with your machine. I would like to express my wishes for you to put your signature under the best works in healthy days, with confidence and peace.

Cemal Ayyıldız









































