

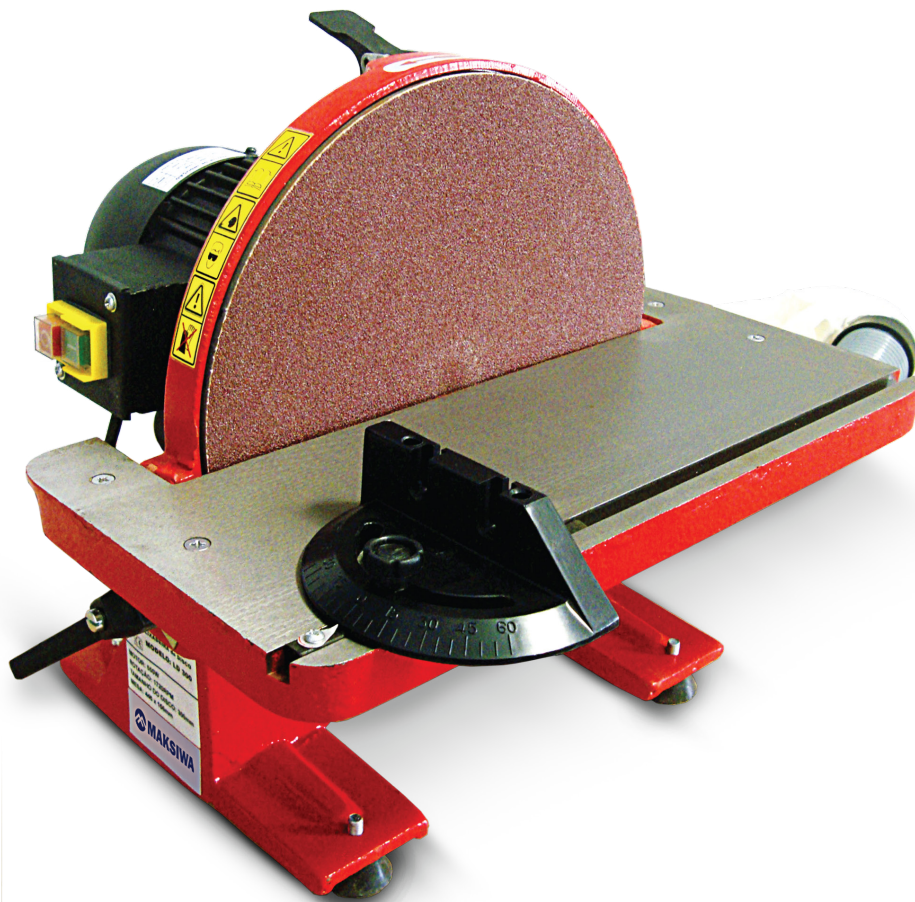


MAKSIWA®

LD.300

Disc Sander 12" (300 mm)

INSTRUCTION MANUAL



Attention: Read this manual before using the machine.

Greetings,

Congratulations, you just purchased the LD.300 – Maksiwa Disc Sander, which was developed with the Maksiwa's highest standards of technology and quality. Your Disc Sander allows you to have the highest productivity in woodworking. Besides a great finish, the LD.300 ensures that your work pieces come always precise. It should be noted that to use this machine with maximum efficiency, you should read and understand the instructions in this manual. Visit our website to know about our launches and other product lines:

www.maksiwa.com

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1 Safety Regulations

Important information you should know:

Only work with suitable sandpaper. Inappropriate sandpaper does not result in a good finish and overload the engine.



ALWAYS USE PROPER PROTECTIVE EQUIPMENT WHEN OPERATING THIS EQUIPMENT.



ATTENTION: When using power tools, always follow safety precautions to reduce the risk of fire, electric shock and personal injury, including the following.

CAUTION: WHEN MAINTAINING, REPLACE ONLY WITH IDENTICAL PARTS.

Repair or replace damaged wires.

1.1 Safety Instructions for All Tools

- Keep the work surface clean. Disorganized areas may increase the chances of an accident.
- Do not use the sander in hazardous environments. Do not use power tools in damp or wet locations or exposed to rain. Keep the work area well lit.
- Keep children away. All visitors must be kept at a safe distance from the work area.
- Make the workplace childproof by using padlocks, master keys or by removing the ignition key.
- Do not force the tool. It will do the job better and safer for the intended use.
- Use the correct sandpaper. Do not force the sander when doing work for which it was not designed.
- Use suitable equipment. Do not wear loose clothing, gloves, chains, rings, bracelets or other accessories that could get caught in moving parts.
- Wear non-slip shoes. Use hair protection to secure it.
- Always wear safety glasses, breathing mask and gloves.
- Secure the part to be worked. Ensure that the workpiece is held firmly. This will give you a better finish and prevents accidents.
- Do not overreach. Keep your balance and your feet in a comfortable position at all times.
- Keep your tools clean and in order for better and safer performance. Follow instructions on lubricating and changing accessories.
- Unplug the machine from the outlet before servicing or changing accessories, such as sandpaper, etc.
- Reduce the risk of unintentional starting. Make sure the switch is in the "OFF" position before connecting the wire to the plug.

- Only use recommended accessories. Refer to the instruction manual to check the recommended accessories. Improper use of accessories can cause a risk of accident.
- Never step on the tool. A serious accident can occur if the tool is tilted or if the tool is touched accidentally.
- Check for damaged parts before continuing to use the tool, a guard or other part that is damaged must be carefully examined to determine its proper functioning and perform its function properly. Check the alignment of moving parts, breakage of parts, assembly and any other condition that may affect its operation. Any part that is damaged must be repaired or replaced immediately. Do not use the tool if the switch does not turn it on or off.
- Never leave a tool running unattended. Turn off the ignition key. The engines of these tools can emit sparks and explode flammable gases.
- Extension cords: Make sure your extension is in good condition, make sure you are able to transmit the electrical current used by your product. An undersized cable will cause a voltage drop resulting in loss of power and overheating. The following table shows the correct size to be used depending on the cable diameter and the amperage rating. If in doubt, use a cable with a higher capacity level. **IMPORTANT:** Do not use extensions over 20 meters in length.

2-Way Cable		3-Way Cable	
Ø (mm ²)	Amperage	Ø (mm ²)	Amperage
0,5	9	0,5	8
1,0	13	1,0	12
1,5	16,5	1,5	15
2,5	23	2,5	20

1.2 Additional Safety Rules for Sanders

CAUTION: FAILURE TO COMPLY WITH THESE WARNINGS MAY RESULT IN PERSONAL ACCIDENT AND SERIOUS DAMAGE TO THE MACHINE.

- Protect the power supply line with at least a 15-amp fuse or a circuit breaker.
- Make sure the shaft is turning in the correct direction.
- Make sure the handles and screws are secure before starting any operation.
- Make sure that the shaft screw is firmly tightened.
- Keep the engine vents free of chips or dirt.
- Keep your hands safe enough, out of the way of the tool.
- Turn off the machine, disconnect the cable from the power outlet and wait until the shaft stops completely before performing maintenance or adjustments to the tool.
- Support long pieces with a wood fixing device.
- Do not attempt to operate the machine at a voltage other than the rated voltage.

- Do not use sandpaper larger or smaller than recommended.
- Do not force anything against the fan to hold the motor shaft.
- Do not force sanding. Partial or total forced shutdown of the engine can cause serious damage. Allow the engine to reach full speed before starting sanding.
- Do not allow anyone to remain behind the machine.
- Do not apply lubricant to the tool when in operation.
- Do not put any hand on the sanding area when the machine is connected to power.
- Do not work with small pieces without the aid of fasteners. Keep your hands away from the sandpaper.
- Do not operate the sander without all parts properly assembled.
- Maintain a minimum distance between the table and sandpaper of a maximum of 1/13 " (2 mm).
- Do not perform any operation with your hands free.
- Do not stretch around or behind the machine.
- Do not move your hands from the workpiece or raise your arms until the sandpaper has stopped.
- Do not use lubricants or cleaning products (particularly sprays and aerosols) in the vicinity of plastic materials. The polycarbonate material used is sensitive to certain chemicals.

ATTENTION: Some dust created by sanding, cutting, grinding, drilling and other construction-related activities contains chemicals that can cause cancer, birth defects and other reproductive harm. Some examples of these products are: lead-based paints; brick silica crystal, cement and other masonry products; and arsenic and chromium from chemically treated wood.

CAUTION: Do not connect the unit to the power outlet until all instructions have been read and understood.

Always tighten the adjustment clips before using the machine. Never perform hands-free operations. Never cross your arms in front of the tool. Think: "I can avoid accidents", always wear safety glasses. Turn off the machine and wait for the tool to stop before restarting service, making adjustments or moving your hands.

1.3 Electrical Connection

The LD.300 MAKSIWA sander has a single-phase motor. To avoid the risk of burning the engine, check the electrical voltage of your outlet before starting the machine. If necessary, change the electrical connection of the motor with the help of a specialized technician. Make sure your power supply is as designed. A 10% decrease in voltage or more will cause loss of power and overheating. All MAKSIWA equipment is tested at the factory. If this tool does not work, check the power supply. Check the compatibility between your outlet and the machine's plug. Avoid making patches and adaptations.

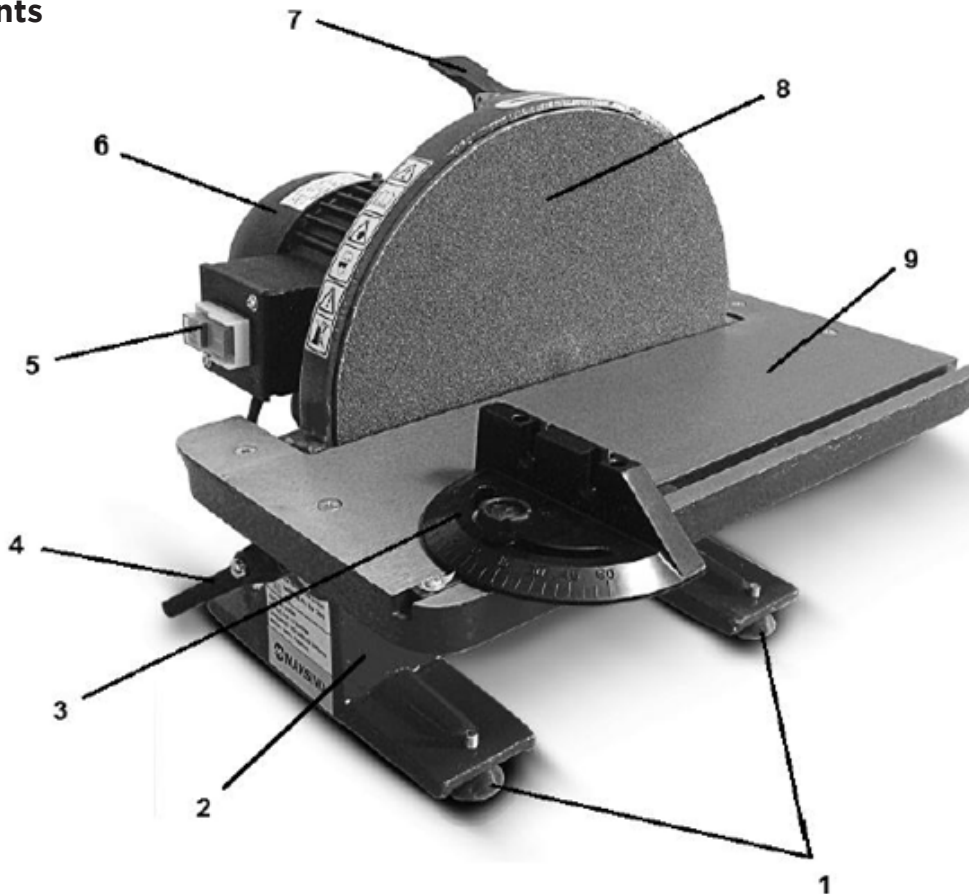
2 Description

Place the machine on a smooth, flat surface. Check the figures and pay attention to the description of the parts to familiarize yourself with its different components. The next section will deal with the necessary adjustments for a good functioning of the machine, and will refer to the termination that goes along with the illustrations. To do this, you must know these parts and you must know where they are.

2.1 Specifications

- Wattage: 550 W (3/4 CV)
- Table Size: 445 x 155 mm
- Table Tilt: 0° a 45°
- Disc Measure: 12" (300 mm)
- Disc Speed: 1.725 RPM
- Structure: Cast Iron
- Net Weight: 36 kg

2.2 Components



1. Rubber Adjustment Feet
2. Cast Iron Structure
3. Angle Guide
4. Table Tilt Lever
5. On/Off Button
6. Motor
7. Quick Stop Lever
8. Disc Sanding (12" or 300mm)
9. Support Table

3 Installation

For packaging reasons, the machine is not completely assembled.

If you notice any damage caused by transportation while opening the package, notify your supplier immediately. Do not operate the machine.

Dispose of the packing in an environmentally friendly manner.

The sander is designed to operate indoors and must be placed on a firm, stable and level surface.

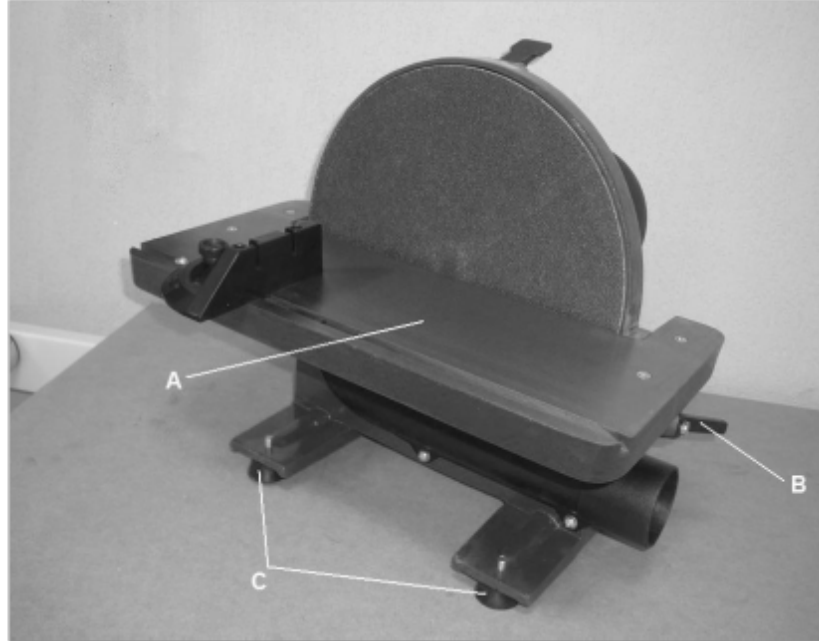
CAUTION: To prevent the machine from moving and causing a lack of precision, make sure that the base on which it is supported is not uneven. If the machine moves on the surface, place a support under the base until it is firmly on the surface.

3.1 Unpacking

Due to modern mass production techniques, it is unlikely that the LD.300 MAKSIWA sander is defective or that a part is missing. If you find something wrong, do not use the tool until the parts are replaced, or the fault is corrected. By doing this you are avoiding serious bodily injury.

Do not use the sandpaper without the table. Lack of support can result in risks and a lack of precision in the process.

1. Remove all loose parts from the packaging.
2. Remove the packaging materials around the parts.
3. Carefully lift the main packaging structure and place it on a flat surface.
4. The assembly of your sander is quite simple. Start by fixing the table (A) close to the base, using the two side handles (B), as shown in the following figure.
5. Turn the base over and install the 4 rubber feet (C) in each corner. Place the base in the correct



- position on a smooth and level surface and check that the machine is stable, without oscillating. If necessary, turn again and adjust the feet so that it does not sway when in the correct position.
6. The sandpaper is already installed. To replace it, refer to this manual in the “Maintenance” menu.
 7. Place the angle guide (A) in the groove (B) of the table, as shown below.
 8. A dust collector can also be connected directly to the dust outlet. Simply connect a hose directly to the outlet nozzle as shown in the figure below. Consult the MAKSIWA Catalog to find products that fulfill this function.

NOTE: The exhaust system is NOT included with this equipment.



3.2 Connection Test

Complete this process only after you are familiar with all instructions in this manual.
To test, follow these steps:

1. Read the entire instruction manual first, so that you are familiar with all the controls and functions of the LD.300 MAKSIWA sander.
2. Connect the machine to the power source.
3. Turn the switch to the ON position. The sander should work smoothly, with little or no vibration. Right after turning the machine off, if you suspect any problem, correct these problems before turning it on again.

4 Settings

This machine can perform many types of operations that are outside the scope of this manual. Many of these operations can be dangerous or lethal if done incorrectly. The instructions in this section are written with the understanding that the operator has the knowledge and skills necessary to operate this machine. If at any time you experience difficulties performing any operation, stop using the machine. If you are an inexperienced operator, we recommend that you read books, trade articles, or seek the training of an experienced operator, before carrying out any unknown operations. Above all, your safety must come first.

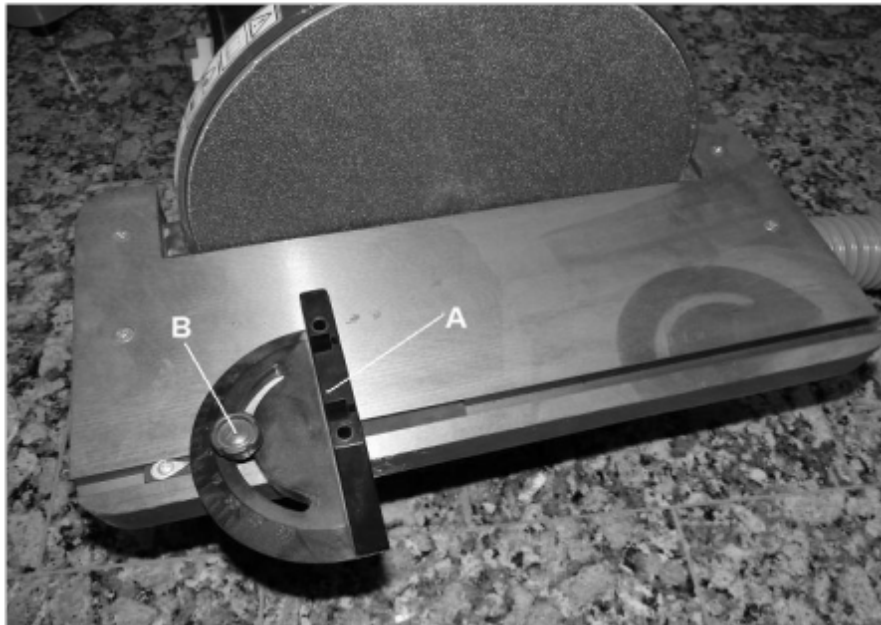
4.1 Table Angle Adjustment

The support table can be tilted between 0° and 45° using the following steps: Release the handles (A) on the sides below the table, without removing them completely. Position the table at the desired angle checking the position on the scale (B). Tighten the handles again, locking the table. To be sure that the angle is correct, check with the help of a template. If necessary, adjust the square pointer on the scale.



4.2 Angle Guide Setting

The Angle Guide (A) is used to hold and support the workpiece at the desired angle during operation. To adjust the guide angle, simply release the handle (B) and position it at the desired angle. After that, retighten the knob (B) to lock the angle. Make sure the angle is correct by using a template. If necessary, adjust the pointer on the scale of the Angle Guide. Follow the next figure.



5 Operations

There are a series of operational guidelines for the MAKSIWA LD.300 sander that must be followed. These guidelines aim to increase the life of your equipment and offer safe and risk-free work for the operator. This product is designed to perform operations on straight, curved, radial and chamfered parts in wood, plastics, metals and ceramics. Used correctly, you will have high performance and precision equipment for many years free of problems and defects.

ATTENTION! Accidental contact with the sandpaper during the operation can remove parts of the fingers or cause major injuries. Protective Gloves and Guards reduce this risk and should always be used when operating this machine.

1. Before making any adjustments or replacing parts of the equipment, turn off the machine and remove the plug from the outlet.
2. Check that all screws and handles are properly tightened and secured before starting any process. Often, due to some vibration, these parts tend to loosen on their own.

3. All moving parts (sandpaper, shafts and motor) must have enough space to move freely.
4. Wait for the sandpaper to reach its maximum speed before starting to operate (about 2 seconds).
5. The motor must rotate counterclockwise, as well as the sanding disc.
6. Do not force the workpiece excessively on any surface of the sandpaper.
7. Always support the workpiece when sanding.
8. Do not try to quickly push a corner of a workpiece against the sandpaper. This can cause a bump that can result in serious personal injury.
9. The Stop or Quick Stop Lever is installed on the upper rear part of the tape file to break the disc after the machine is turned off. Do not attempt to use this device while the machine is running.
10. When sanding small workpieces or with convex edges, disc sanding is the best option to achieve good results.
11. Move the piece to the left side for the sandpaper to pull the material down.
12. Always use the table to support the workpiece. Do not operate this sandpaper freehand.
13. For accurate work, use the Angle Guide.
14. When sanding long pieces, do not apply pressure to the entire surface along the piece. Apply pressure only to the area over the sandpaper, removing material. Consult the MAKSIWA catalog for information on other equipment to support long parts.
15. The workpiece must be passed equally across its surface by sandpaper.
16. To make accurate 90° angles, make sure that the table and the sandpaper are perfectly square.

ATTENTION: This equipment is not designed to remove heavy burrs. Finishing ferrous metals can generate sparks that can cause fire. To prevent this possibility, remove the dust collector assembly, remove all dust or wood sawdust that may have accumulated around and in the machine itself. In addition, mixing dust from ferrous and non-ferrous materials can create a dangerous environment.

6 Maintenance

Periodic maintenance on your LD.300 MAKSIWA sander will guarantee optimum performance. Make it a habit to inspect your sander every time you use it.

This section covers the most common service adjustments or procedures that may need to be made during the life of your machine.

Check whether the following repair or replacement conditions are necessary:

- Loose or loose screws.
- Switch worn.
- Worn or damaged cables, plugs or sockets.

- Any other condition that could impair the safe operation of this equipment.

6.1 Table and Support Base

- Cleaning the LD.300 sander is relatively easy with a vacuum cleaner to remove excess wood chips and sawdust, and dust with a dry cloth. If there is any resin, use a resin remover and a clean cloth to remove it.
- Protect the unpainted cast iron surfaces on the table by wiping the table clean after each use, which ensures moisture from wood dust does not remain in contact with untreated metal surfaces.
- Make regular applications of anti-rust or a quality metal protector.
- Always remove dust accumulated on moving parts, such as axles and the motor. Lack of cleanliness and excess of dirt can block some moving part, preventing the sandpaper from moving freely.

6.2 Lubrication

Since all bearings are shielded and permanently lubricated, just leave them in this way until they need to be replaced. Do not lubricate them. For the other items on this machine, an occasional application of electric machine oil is all that is needed. Before applying the lubricant, clean the sawdust. Its objective is to achieve adequate lubrication. Too much lubrication will attract dirt and sawdust. Various parts of your machine can lose their freedom of movement with excess dirt caused by excessive lubrication.

6.3 Maintenance Schedule

Daily:

- Vacuum all the dust from above and around the machine.
- Clean the table and all unpainted cast iron with a metal protector.

Monthly:

- Check the sander for damage or wear.
- Clean the accumulation of dust inside and outside the engine.

6.4 Replacement of Garbage

Install the sandpaper as follows: Remove the support table from the front of the disc. Peel off the adhesive film from the back of the 12 " sandpaper and carefully apply it to the disc.

Reposition the support table in front of the sandpaper.

Important: for the application to be efficient, the aluminum disc must be clean, free of any particles of dirt and oil. When applied with dirt, the sandpaper can come off when in operation, which can cause serious personal injury.

6.5 Grinding Quality

The smoothness of any surface depends on a number of variables. Factors such as the type of material being sanded, type of sandpaper and pressure on the sandpaper contribute to the quality of sanding.

Make sure that the material does not vibrate during the process.

6.6 Support for Long Pieces

ALWAYS SUPPORT LONG PARTS.

Support long pieces using any convenient shape such as easels or similar structures to prevent the ends from falling.

CONSULT THE MAKSIWA CATALOG AND FIND PRODUCTS FOR THIS FUNCTION.

7 Technical Assistance

For your greater safety, maintenance and adjustments (including inspection and replacement) contact technical assistance recommended by MAKSIWA, which will always use genuine spare parts and accessories, reassembling your sander in the same way as the original.

Before using an extension cord, check for loose or exposed wires, damaged insulation and defective fittings. Repair or replace the extension if necessary.

8 Terms of Warranty

MAKSIWA assures the owner that their equipment, identified by the Serial number issued on the Warranty Terms.

The equipment under warranty, for two (2) years, is as followed:

1. The warranty period begins on the date of the Warranty Terms below.
2. Within the warranty period, the manual labor and the components replaced by manufacturing defect will be provided for free if duly proved by Maksiwa Service.
3. Third-party manufacturing equipment that makes up the MAKSIWA equipment (such as motors, electrical equipment, belts etc.) are subject to the terms and conditions of warranty of their respective manufacturers.
4. In case an exchange of machine is needed, please return the defective part or machine to MAKSIWA.
5. All workplace adaptations for the equipment are under the responsibility of the machine owner.
6. If you notice any defect or malfunction when receiving the equipment, get in touch immediately with the manufacturer or Dealer. Do not turn it on.
7. Not included in this warranty is any technical visits aimed at cleaning or adjustments caused by wear, resulting from normal use of the equipment.
8. The warranty does not cover problems caused by mistreatment, carelessness, misuse or inappropriate use of the functions designed for this equipment in this manual, as well as poorly executed operations by untrained operators to operate it.
9. MAKSIWA is not responsible for lost productivity, direct or indirect damages caused to the owner of the equipment or to third parties, or any other expense, including lost profits.
10. This equipment requires the use of a dust collection system with a minimum of 2 hp.
11. Even under warranty, you may lose its validity as follows:
 - a) Application of non-original components;
 - b) Alteration of its original features;
 - c) Lack of proper maintenance;
 - d) Improper use of the equipment;
 - e) Change in equipment or electronic connections;
 - f) Damage caused by mechanical shock or exposure to unsuitable conditions (humidity, salt spray, corrosive agents, etc.);
 - g) Damage caused by bad weather (floods, flooding, lightning, power outages etc.);
 - h) Maksiwa is not responsible for damages to electrical components cause by power variation in your area.
 - i) Removable of safety equipment will void your warranty. (Riving Blade, Blade Cover, etc.).

For your safety, trust the repairs, maintenance and adjustments (including inspection and replacement) for technical assistance recommended by MAKSIWA, always use genuine spare parts and accessories, reassembling to its original machine the same way.

MODEL:

SERIAL NUMBER:

DATE:

LOT NUMBER:

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