

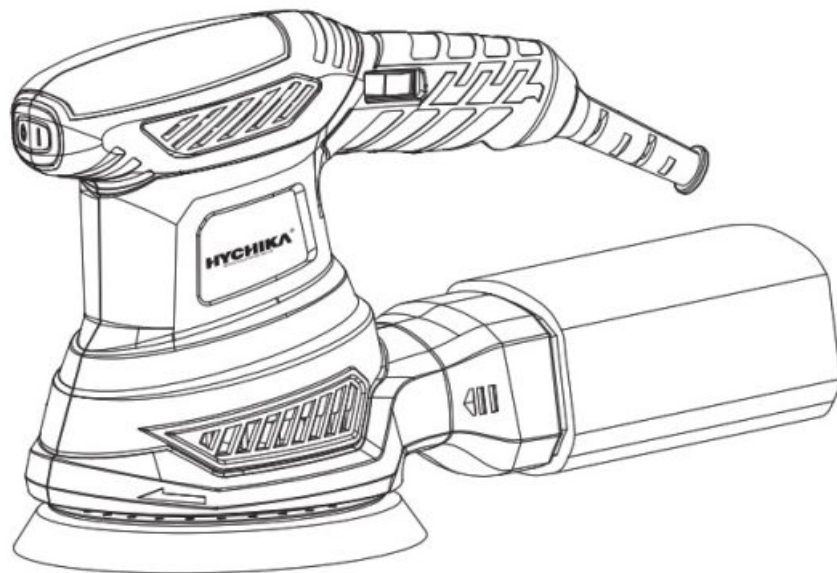


# HYCHIKA OS300W Random Orbital Sander Instruction Manual

[Home](#) » [HYCHIKA](#) » HYCHIKA OS300W Random Orbital Sander Instruction Manual 

**HYCHIKA**®  
BETTER TOOLS FOR BETTER LIFE

Instruction Manual  
Random Orbital Sander  
OS300W



[www.hychika.com](http://www.hychika.com)  
[support@hychika.com](mailto:support@hychika.com)

If any problems, please contact our after-sales [email: support@hychika.com](mailto:support@hychika.com)

## Contents

- 1 SPECIFICATIONS
- 2 CALIFORNIA PROPOSITION 65
- 3 SYMBOLS
- 4 RULES FOR SAFE OPERATION
- 5 RULES FOR SAFE OPERATION
- 6 WORK AREA SAFETY
- 7 ELECTRICAL SAFETY
- 8 PERSONAL SAFETY
- 9 TOOL USE AND CARE
- 10 SERVICE
- 11 SPECIFIC SAFETY RULES FOR RANDOM ORBIT SANDER
- 12 RECOMMENDED SIZE OF EXTENSION CORDS
- 13 KNOW YOUR SANDER (See Fig. 1)
- 14 ASSEMBLY AND ADJUSTMENTS
- 15 OPERATION ON/OFF SWITCH
- 16 GENERAL SANDING
- 17 REMOVING PAINT OR VARNISH
- 18 SANDPAPER SELECTION (SANDPAPER AVAILABLE SEPARATELY)
- 19 MAINTENANCE
- 20 Documents / Resources
- 21 Related Posts

## SPECIFICATIONS

Model	OS300W
Rate	120V/60HZ 2.5A
No-load speed	6000-13000 min <sup>-1</sup>
Pad size	5 Inch (125mm)
Paper type	Hook & Loop
Cord length	6 Feet

## CALIFORNIA PROPOSITION 65



### WARNING!

Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

Some examples of these chemicals are:

Lead from lead-based paints, crystalline silica from bricks, cement, other masonry products, Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemical work in a well-ventilated area, and work with approved safety equipment, sue as dust masks that are specially designed to filter out microscopic particles.

### IMPORTANT:



Carefully read this operating manual before using your new tool. Pay close attention to all Safety Instructions, Warnings and Caution sections. Use your tool properly and only for its intended use.



Safety symbols in this manual are used to call attention to possible dangers. The safety symbols and their explanations require the operator's full understanding. The safety warnings do not, by themselves, eliminate any danger, nor are they a substitute for proper accident-prevention measures.



This Safety Alert Symbol indicates caution, warning, or danger. Failure to obey a safety warning can result in serious injury to the operator or to others. To reduce the risk of injury, fire, or electric shock, always follow the safety precautions.

### SAFETY SYMBOLS:

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols and the explanations with them deserve your careful attention and understanding. The symbol warnings do not, by themselves, eliminate any danger. The instructions and warnings they give are not substitutes for proper accident prevention measures.



#### WARNING!

Be sure to read and understand all safety instructions in this manual, including all safety alert symbols such as "DANGER," "WARNING" and "CAUTION," before using this tool. Failure to following all instructions listed below may result in electric shock, fire and/or serious personal injury.

SYMBOL	SIGNAL	MEANING
	<b>DANGER</b>	Indicates an imminently hazardous situation. If not avoided it will result in death or serious injury.
	<b>WARNING</b>	Indicates a potentially hazardous situation. If not avoided it could result in death or serious injury.
	<b>CAUTION</b>	Indicates a potentially hazardous situation. If not avoided it may result in minor or moderate injury.
	<b>NOTE</b>	(Without Safety Alert Symbol) Indicates a situation that may result in property damage.



#### WARNING!

To ensure safety and reliability, all repairs should be performed by a qualified service technician at Authorized Service Center.








#### WARNING!

The operation of any power tool can result in the foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with QC70 side shields and a full-face shield when needed. We recommend a Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always use eye protection which is marked to comply with ANSI Z87.1

## SYMBOLS

The following shows the explanation of the symbols for the tool:

<b>V</b>	Volts
<b>A</b>	Amps
<b>Hz</b>	Hertz
<b>W</b>	Watts
<b>Min</b>	Minutes
	Alternating current
	Direct current
<b>n<sub>o</sub></b>	No-load speed
	Class II construction, Double insulated
<b>.../min</b>	Revolutions or Strokes per minute
	Indicates danger, warning or caution
	Do not expose to rain or use in damp locations

## RULES FOR SAFE OPERATION

To operate this tool, carefully read this Owner's Manual and all labels affixed to the sander before using. Keep this Manual available for future reference.

## RULES FOR SAFE OPERATION



### WARNING!

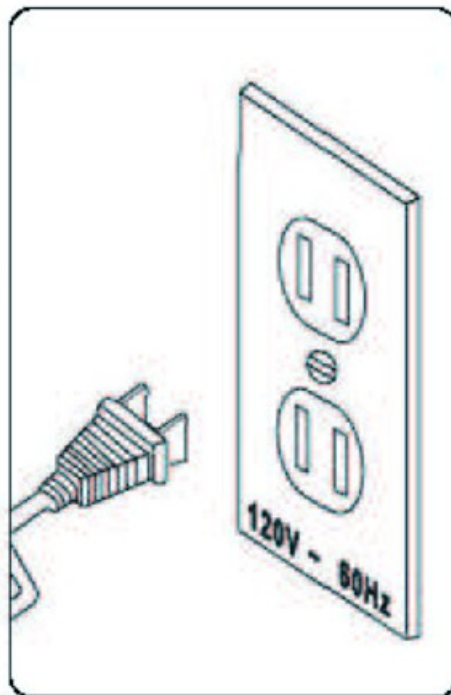
Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

## WORK AREA SAFETY

- Keep the work area clean and well. Cluttered benches and dark areas invite accidents.
- Do not operate power tools in an explosive environment, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks that may ignite dust or fumes.
- Keep bystanders, children and visitors away while operating a power tool. Distractions can cause you to lose control.

## ELECTRICAL SAFETY

- Double insulated tools are equipped with a polarized plug (one blade is wider than the other) . If the plug does not fit fully in the outlet, reverse the plug. if it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way. double insulation eliminates the need for the three wire-grounded power cord and grounded power supply system.
- Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.



### **WARNING!**

Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

- Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. keep the cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
- When operating a power tool outside, use an outdoor extension cord marked “W-A” or “W”. These cords are rated for outdoor use and reduce the risk of electric shock.

## PERSONAL SAFETY

- Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use the tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
- Avoid accidental starting. Be sure that the switch is OFF before plugging in the tool. Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.
- Remove adjusting keys or wrenches before turning the tool on. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enable better control of the tool in unexpected situations.
- Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.
- Before connecting the tool to a power source (receptacle, outlet, etc.), be sure that the voltage supplied is the same as that specified on the nameplate of the tool. A power source with voltage greater than that specified for the tool can result in serious injury to the user, as well as damage to the tool.

## **TOOL USE AND CARE**

- Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.
- Do not force the tool. Use the correct tool for your application. The correct tool will do the job better and more safely at the rate for which is designed.
- Do not use tool if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.
- Store idle tools out of reach of children and other untrained persons.
- Tools are dangerous in the hands of untrained users.
- Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.
- Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.
- Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may become hazardous when used on another tool.
- Do not alter or misuse the tool. These tools are precision built. Any alteration or modification not specified is misuse and may result in a dangerous condition.

## **SERVICE**

- Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
- When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of

this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

## SPECIFIC SAFETY RULES FOR RANDOM ORBIT SANDER

- Hold the tool by its insulated gripping surfaces when performing an operation where the tool may contact hidden wiring or its own cord. Contact with a “live” wire will make exposed metal parts of the tool “live” and shock the operator.
- Unplug the sander before changing accessories. Accidental start-ups may occur if sander is plugged in while changing an accessory.
- Always wear safety goggles and a dust mask when sanding, especially when sanding overhead.
- A suitable breathing respirator must be worn while sanding chemically pressure treated objects.
- Always wear ear protection during extended periods of operation.
- Whenever possible, use clamping devices or other suitable means to secure the workpiece to a firm surface.
- Do not sand wet materials (e.g., wallpaper) or moist surfaces. Penetration of water into the machine increases the risk of an electric shock.
- Do not use sandpaper larger than needed. Extra paper extending beyond the sanding pad can also cause serious lacerations.
- Use the dust collector and empty it frequently. Do not throw sanding dust on an open fire because materials in particle form may be explosive.

## RECOMMENDED SIZE OF EXTENSION CORDS

Amperage rating of the tool (1 20V circuit only)		Total length of the extension cord			
		25, (7.6m)	50, (15.2m)	100,(30.4m)	150,(45.7m)
More than	Not more than	Minimum gauge for the extension cord (AWG)			
0	6	18	16	16	14
6	8	18	16	14	12

## KNOW YOUR SANDER (See Fig. 1)

Before attempting to use this sander, familiarize yourself with all its operating features and safety requirements.



### WARNING!

Do not allow familiarity with a sander to make you careless. Remember that a careless fraction of a second is sufficient enough to inflict severe injury.

1. ON/OFF Switch
2. Rubberized Grip
3. Adjustable switch
4. Dust Collector

## 5. Sanding Pad

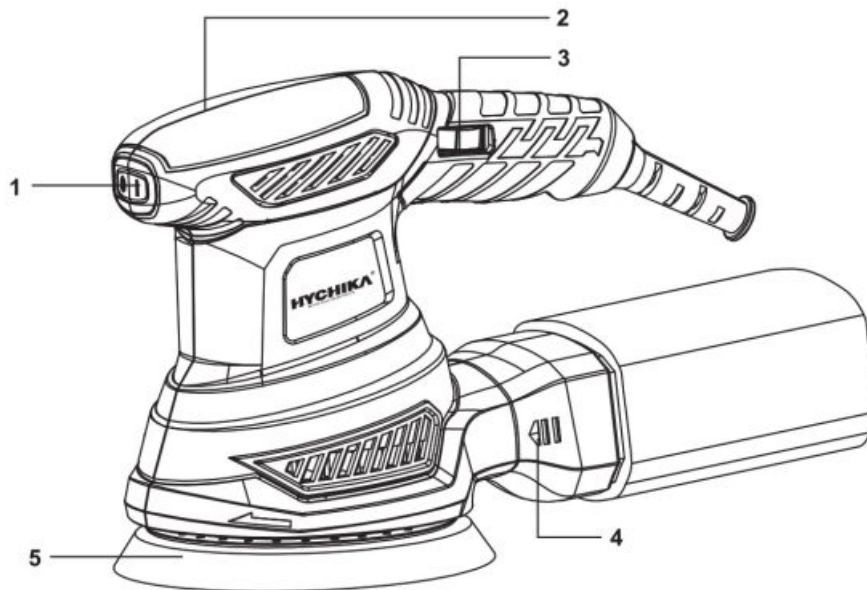


Fig.1

Fig.1

## ASSEMBLY AND ADJUSTMENTS

Remove the random orbit sander from the carton and examine it carefully. Then gently tap it to remove the dust.

## OPERATION ON/OFF SWITCH

This random orbit sander is equipped with an ON/OFF switch, located on the front of the handle.

- To turn the sander ON, depress the rocker switch to the T position.
- To turn the tool OFF, depress the rocker switch to the "0" position.

## GENERAL SANDING



### WARNING!

Finish sanding can produce clouds of fine sanding dust that could ignite in the presence of sparks or an open flame. To avoid injury, always use your sander in a well-ventilated area.

- Place the sander on the workpiece BEFORE turning the switch ON. If the sander is started before making contact with the workpiece, the free-floating work pad may cause scratches.
- Move the sander in long sweeping strokes parallel to the grain, using some lateral motion to overlap the strokes by as much as 75%. The random orbit action allows cross-grain sanding, but be careful not to tilt the sander near edges, or undesirable rounding may result.
- The amount of downward pressure will affect the rotation speed and sanding results: a. Light pressure: recommended for fine work b. Moderate pressure: recommended for rough work. c. Do not exert heavy pressure; it does not allow the disc to rotate sufficiently.
- Keep the sanding disc flat on the workpiece. Using the edges of the pad or tipping the sander may cause an



uneven finish and reduce the life of the sanding pad.

- Begin sanding with a coarser grit sandpaper and gradually use finer and finer grits until the desired finish is achieved. Do not switch from a coarse grit to a very fine grit in one step.
- Random orbit sanders work more aggressively than simple orbital sanders. Check your workpiece frequently.
- To help prevent swirl marks when the job is completed, gently lift the tool from the work surface, then switch the tool off.

## REMOVING PAINT OR VARNISH

- If removing several layers of paint or varnish, first remove as much as possible with a paint or varnish remover.
- Scrape the residue off with a putty knife or scraping tool and allow the surface to cool and dry before sanding.
- Select and install a coarse grit sandpaper.
- Keep the sander moving over new areas to avoid heating and softening the old coating.
- Work in wide, overlapping strokes to produce a uniform finish.
- As the workpiece begins to show through the old coating, switch to a medium grit sandpaper to avoid scratching the surface. Gradually switch to a finer grit until you achieve the desired finish.

## SANDPAPER SELECTION (SANDPAPER AVAILABLE SEPARATELY)

Sandpaper can be made from various grit materials. The grit material and coarseness of the sandpaper should be selected according to the workpiece material.

Workpiece material	Grit material
Fine woodwork	Garnet or aluminum oxide
Rough woodwork	Aluminum zirconia ceramic
Manufactured wood products	Silicon carbide or aluminum oxide
Solid surfacing material	Silicon carbide or aluminum oxide
Metals	Emery or aluminum oxide

Coarse Grit 60-80
Initial sanding on rougher surface
For fast stock removal
Rough sanding and stripping of painted and rusted surfaces
Medium Grit 100-140
Removal of minor surface imperfections
Fine Grit 150-240
Fine sanding
Sanding prior to staining, priming, or sealing

## MAINTENANCE



### WARNING!

To ensure safety and reliability, all repairs should be performed by a qualified service technician.



### WARNING!

For your safety, always turn off the switch and unplug the sander from the power source before performing any maintenance or cleaning.

Periodic maintenance of your sander allows for long life and trouble-free operation. The sander can generate considerable quantities of sanding residue. A cleaning and maintenance schedule should be maintained. As a common sense and preventive maintenance practice, follow these recommended steps:

- Inspect the pad; check it for wear or damage.
- Keep the ventilation slots of the motor clean to prevent overheating of the motor.
- Electric tools are subject to accelerated wear and possible premature failure when they are used to work on fiberglass, wallboard, spackling compounds or plaster. The chips and grindings from these materials are highly abrasive to electrical tool parts, such as bearings, brushes, commutators, etc. Consequently, it is not recommended that this tool be used for extended work on any fiberglass material, wallboard, spackling compound, or plaster. During any use on these materials, it is extremely important that the tool is cleaned frequently by blowing with an air jet.
- Use a soft sponge and damp cloth to wipe the tool housing. A mild detergent can be used but nothing with alcohol, petrol or other's cleaning agent. Never use caustic agents to clean plastic parts.



### WARNING!

Always wear safety goggles or safety glasses with side shields during power tool operations or when blowing dust. If operation is dusty, also wear a dust mask.



### WARNING!

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

Manufacturer: TSP Tool Group LIMITED

Web: [www.HYCHIKA.com](http://www.HYCHIKA.com)

E-mail: [support@HYCHIKA.com](mailto:support@HYCHIKA.com)

ADD: RM 1405A CHUANG KLU COMM BLDG 47-51

SHAN TUNG ST MONGKOK, HK, China

Made in China



## Documents / Resources

	<a href="#">HYCHIKA OS300W Random Orbital Sander</a> [pdf] Instruction Manual OS300W, Random Orbital Sander
--	--