

# MAVERICK

SURFACE PREPARATIONS  
— LLC —

#WE EAT CONCRETE



Operation Manual For

**TRITON**

## TABLE OF CONTENTS

SECTION	TITLE	PAGE
	Preface	3
	Safety and Precautions	3
1	<b>PART 1: Safety &amp; Precautions</b>	4
1.1	Safety Guide	4
1.2	Notice	4
2	<b>PART 2: Purchase Check, Technical Parameter &amp; Product Description</b>	5
2.1	Purchase Check	5
2.2	Nameplate & Model Description	5
2.3	Technical Parameter Description	5
2.4	Product Description	6
2.5	Main Product Feature	6
2.6	Product Design Concept	6
3	<b>PART 3: OPERATION INSTRUCTION</b>	7
3.1	Equipment Operation	7
3.2	Equipment Storage & Maintenance	7
3.3	Notes for Transportation	7
4	<b>PART 4: EQUIPMENT WIRING &amp; INVERTER RESET</b>	8
4.1	Notices for Wiring	8
4.2	The general wiring of switch box, inverter and motor	8
4.3	Inverter Reset	8
5	<b>PART 5: QUALITY ASSURANCE</b>	9
5.1	Warranty	9
5.2	Warranty Condition	9
6	<b>PART 6: Fault Diagnosis</b>	10
6.1	If the equipment stops working suddenly during operation, follow these instructions:	10

## PREFACE

Thanks for using Triton dry and wet floor grinding and polishing machine manufactured by Maverick Surface Preparations.

Triton is the new generation surface preparation equipment independently developed by Maverick Surface Preparations, LLC. Triton is a multi-functional machine integrating the grinding, renovation, polishing, crystallization and cleaning into one machine. It has greatly improved the surface preparation and maintenance efficiencies of the concrete, stone and epoxy floor so as to meet the high-standard requirements of floor surface treatment and maintenance.

This manual outlines the maintenance, precaution, fault diagnosis and counter measurements of the Triton machine. This is the instructive document and safe operation manual. Please read it carefully and keep it in an easily accessible location for reference, when needed.

If there are any issues or special requirement in application, contact us for further details.

## SAFETY AND PRECAUTIONS

For your safety, the safety of the equipment and the property, carefully and completely read through this manual before using, transporting, commissioning, operating and troubleshooting this machine.

### 1.1 SAFETY GUIDE

- 1) The operator must wear waterproof, insulating work shoes and gloves. Barefooted operation is strictly prohibited.
- 2) The external connecting wire should be better more than 4m2 and must be connected with the earth wire to avoid the electric leakage.
- 3) Before using the equipment, the operator needs to inspect that the power wire is not damaged or aging. If so, immediately replace the power wire to avoid short circuiting and electric leakage.
- 4) Personnel sitting on the top of motor is prohibited at all times. The Motor is IP55, which could work after spraying a little water and could work on wet grinding and polishing surfaces. Do not operate outside on a rainy day.
- 5) Do not put the equipment, the power plug and socket on a watery or over-humid floor.
- 6) Do not crush the cables when operating or when storing the equipment.
- 7) Ensure that the plug and your hands are dry when connecting to power. Never connect when any part of your body is wet.
- 8) After connected to the power source, the inverter display will show the power voltage. If the power voltage is not the same as the equipment voltage, do not start the equipment. Doing so will burn the inverter.
  - a. For Example: if the machine is 200-240V after connecting to the power source and the inverter display shows 380V or any other data over 240V, do not start the machine.

### 1.2 NOTICE

- 1) After dry grinding and wet grinding, it is best to clean the flange part and plate. This should increase the service life of the equipment.
- 2) Connect to a vacuum when dry grinding and polishing to reduce the spreading of dust particles.
- 3) When you need to change the diamond tools and resin pads, adjust the handle bar to a vertical position, and then gently pull back the equipment and make sure the equipment is stable. After changing the tools, make sure to pull the equipment down gently. Aggressively pulling down on the equipment may destroy the equipment or cause oil leakage.
  - a. NOTE: If one person cannot handle the equipment safely and with ease, seek assistance. This is for your safety and for the safety of the equipment.
- 4) The equipment has a set the motor protection system. If the equipment is overloaded or has lower voltage, the equipment will stop working immediately by itself in order to protect the motor and inverter. Simultaneously, the inverter will show an error data on the display.
  - a. NOTE: If this occurs, contact Maverick Surface Preparations, LLC for instruction on how to remove the error data and solve the problem.
- 5) If the floor is uneven, start grinding from the higher surface to the lower surface.
- 6) Before operating the machine, carefully inspect the wire abrasion, plate screw and magnets, etc. After inspection is complete and you are sure everything is safe and functional, you may begin to run the machine.

2.1 PURCHASE CHECK

- 1) Conduct an initial check of the appearance of the product for damage before opening the case.
- 2) After opening the case, inspect the product's specification and appearance for damage. If there are obvious damages, do not operate the machine.
  - a. NOTE: If obvious damages are present, take pictures and send to Maverick Surface Preparations, LLC immediately.
- 3) Inspect that all accessories are included. Our standard accessories are as follows:



2 piece  
Lever



1 piece  
Splash Guard



33 ft  
Wire



1 piece, 66 lbs  
Extra Weight

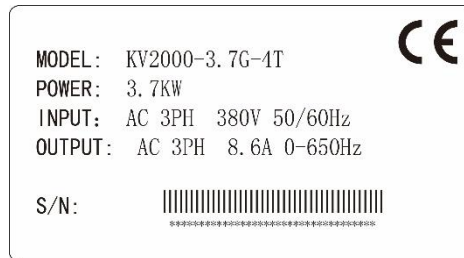


9 pieces / 3"  
Velcro Holder

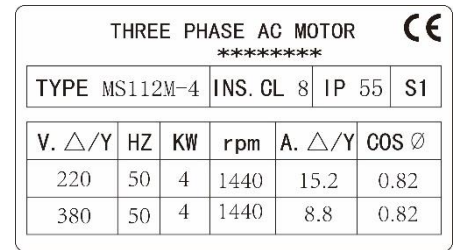
2.2 NAMEPLATE AND MODEL



Guardian Name Plate



Inverter Name Plate



Motor Name Plate

2.3 TECHNICAL PARAMETER DESCRIPTION

Model	Voltage	Safe Current	Motor	Inverter	Frequency
Triton	200-240V	21A	5HP	5HP	50/60HZ

Rotating Speed	Working Area	Grinding Disc	Water Tank	NET Weight	Dimension
0-1400 RPM	20 Inch	10 inch x 3	5 Gallon	330 LBS	30in x 20in x 32in

## 2.4 PRODUCT DESCRIPTION



360° Rotary Handle

## 2.5 MAIN PRODUCT FEATURE

- 1) U-handle can be adjusted 360° to a comfortable position for the operator.
- 2) Multi-functional magnetic plate that enables a more convenient and quicker way to install and remove the diamond tools and resin pads.
- 3) Variable speed button and reverse button to improve the grinding efficiency.
- 4) Proper size and position of the dust port ensures that the grinding machine is easily compatible with a vacuum to provide a dust-free working environment.
- 5) Gear Driven and high technology core design that enables operator to easily push the machine with high efficiency and a lower noise level.

## 2.6 PRODUCT DESIGN CONCEPT

- 1) With the developing of various flooring technology, Maverick Surface Preparations, LLC is trying our best to produce a high quality and multi-functional floor grinding and polishing machine. Our machine can work with various diamond tools and resin pads to perform different types of flooring; i.e. polished concrete, floor preparation for epoxy and overlays, removal of existing epoxy, stone, marble, wood, etc.

### 3.1 EQUIPMENT OPERATION

- 1) Always check that the power supply and the equipment is at the same voltage and that the current of the power air breaker is a little bigger than safe current of the equipment.
- 2) Adjust the handle bar to be straight to the floor and then use one foot to touch the pedal and two hands to grasp the handle bar to slowly pull back the equipment to the floor.
- 3) Change the diamond tools or resin pads as shown in "Figure 1".
- 4) Slowly pull down the equipment to the floor.
  - a. NOTE: This step must be performed slowly to avoid damaging the machine.
- 5) Plug into the power; the LED display will show voltage of the connected power. If the voltage is not the same as the equipment, please do not start the machine. If it is the correct voltage, proceed to the next step.
- 6) Adjust the handle bar to a comfortable position and press "ON" to start the machine.
- 7) When grinding, we recommend using 800-900 RPM. If polishing, we recommend 1,200-1,300 RPM.
  - a. NOTE: while the above recommendations are provided, you should always review the floor and tools specifications.
- 8) If you attach PCD, when the machine runs in the "Forward" direction, attach PCD-R. If you run the machine in the "Reverse" direction, attach PCD-L.

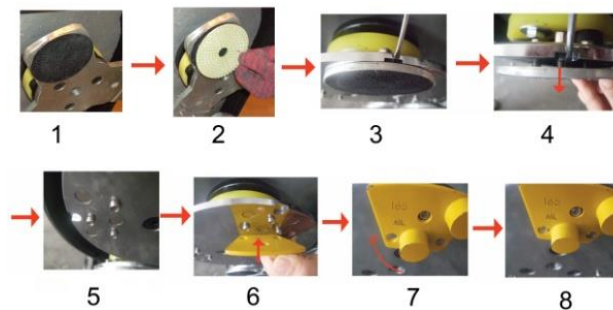


Figure 1

### 3.2 EQUIPMENT STORAGE AND MAINTENANCE

- 1) Adjust the handle bar to be straight to the floor, and remove the plug from the power.
- 2) Check the machine and accessories to ensure that they are safe and in good working condition. If not, make any necessary repairs and conduct maintenance before storage.
- 3) Clean the plate, flange and machine appearance. Check all the cables and tighten all screws before storage.
- 4) Keep the machine in a dry place.
- 5) Change the oil after 1 year or ½ year, according to how often you use the machine.

### 3.3 NOTES FOR TRANSPORTATION

- 1) Before carrying the machine, make sure the power switch is in the "Off" state, and that there is no water left in the water tank.
- 2) Push lightly and carefully so as to avoid any damage to the machine or its parts, especially when it is against a wall.
- 3) Before transportation, make sure to pack all the parts, diamond tools, etc. together to avoid losing any parts.
- 4) After using the lifting rods, place them back to their storage location.

*When wiring the equipment, be sure to strictly follow instructions.*

### 4.1 NOTICES FOR WIRING

- 1) If you want to wire the machine by yourself, it must be under the instruction of a professional electrician or the technicians of the manufacturer.
- 2) The electrical system of this equipment must strictly follow the parameters (voltage and frequency) designated on the nameplate. Before being connected with the input power, check and ensure that the voltage and the frequency of the external power supply are correct.
- 3) This equipment must be connected to the power system equipped with grounded electricity, preventing an electric shock to the operator.

### 4.2 THE GENERAL WIRING OF SWITCH BOX, INVERTER AND MOTOR

- 1) If you need to perform a wiring job, contact our company and do it under our instructions. Any wiring without our instruction will void your warranty.

### 4.2 INVERTER RESET

- 1) Our inverter is specially designed to our equipment. Any stops of the inverter will result in an error data on the LED display. Take a picture of the error data and send it to our company> We will provide instructions on how to solve the problem.



### 5.1 WARRANTY

- 1) The warranty period of the motor, inverter and gear box parts of this equipment is for 1 year from the purchase date.
  - a. NOTE: Reference Warranty document

### 5.2 WARRANTY CONDITIONS

- a. Any problems or broken parts because of the equipment itself, and that is within the warranty period, is covered under warranty.
- b. Any problems or broken parts which are caused by improper operations, lack of proper preventive maintenance / maintenance, changes / adjustments to any parts, including wiring is not covered under warranty.

**6.1 IF THE EQUIPMENT STOPS WORKING SUDDENLY DURING OPERATION, FOLLOW THESE INSTRUCTIONS:**

- 1) Check that all the cables of the plug are screwed tightly and that there is no loss of phase.
- 2) Check that the cables at the switch box are screwed tightly.
- 3) Check that the motor wire connection box has no moisture and check for burned or damaged wires.
- 4) Ensure that there is sufficient current to operate the machine. We recommend the use of 3x6 square cable to operate the machine and that the current of the air breaker is at least 21 AMP.