



# **Rhino Resurfacing Machine**

Operator's Manual

RB90




For your personal safety, READ and UNDERSTAND before using.  
SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

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## SPECIFICATIONS

<b>Model</b>	<b>RB90</b>
<b>Input Power</b>	<b>120V 60Hz</b>
<b>Amps</b>	<b>10A</b>
<b>Plug Type</b>	<b>15A 125V</b>
<b>Disc Diameter</b>	<b>4" / 100mm</b>
<b>Disc Speed (RPM)</b>	<b>600</b>
<b>Machine Width</b>	<b>11" / 280mm</b>
<b>Weight</b>	<b>110lbs / 50kg</b>

### GENERAL SAFETY RULES

 **WARNING! Read and understand all instructions. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury. SAVE THESE INSTRUCTIONS.**

#### Work Area

1. Keep your work area clean and well lit. Cluttered floors and dark areas invite accidents.
2. Do not operate equipment in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Grinding can create sparks which may ignite the dust or fumes.
3. Keep bystanders, children, and visitors away while operating equipment. Distractions can cause you to lose control.

#### Electrical Safety

4. Do not abuse the cord. Never use the cord to pull the equipment or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
5. When operating equipment 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.
6. Avoid accidental starting. Be sure toggle switch is in the off position before plugging in.

#### Personal Safety

7. Stay alert, watch what you are doing and use common sense when operating equipment. Do not use equipment while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating equipment may result in serious personal injury.
8. Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the equipment in unexpected situations.
9. Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions. Ordinary eye or sunglasses are NOT eye protection.
10. DO NOT Turn on equipment while the machine is tilted back. Any tooling fastened to the machine can eject and can cause injury. Machine must be unplugged before tilting back.

#### Equipment Use and Care

11. The equipment is designed to remove excess surface material. To prevent damage to the equipment and/or serious personal injury, beware of protruding objects or other debris on or embedded in the surface being finished.
12. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing equip-

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ment. Such preventive safety measures reduce the risk of starting the equipment accidentally.

13. Maintain equipment with care. Keep tools and accessories in good condition. Properly maintained tools with sharp cutting edges are less likely to fail and are easier to control.

14. Check for binding of moving parts, breakage of parts, and any other condition that may affect the equipment's operation. If damaged, have equipment serviced before using. Many accidents are caused by poorly maintained equipment.

15. Use only tools and accessories that are recommended by the manufacturer for your equipment. Tools and accessories that may be suitable for style of equipment may become hazardous when used on another style of equipment.

#### SERVICE

16. DO NOT modify the machine. Modifications will void warranty and could result in unsafe operation of equipment.

17. Equipment service should be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.

18. When servicing equipment, use only identical replacement parts. Use of unauthorized parts may create a risk of electric shock or injury.

**USE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. A minimum of 16 gauge cord should be used.**

**If a machine is plugged into a power source that is above the machine's maximum voltage capability (ex. 120V model plugged into a 230V power source) this will damage and/or destroy the motor.**

#### SPECIFIC SAFETY RULES

DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to equipment safety rules. If you use this equipment unsafely or incorrectly, you can suffer serious personal injury.

1. Tools and accessories must be rated for at least the speed stated on the equipment serial plate.

2. Always use safety glasses or goggles. Ordinary eye or sunglasses are NOT safety glasses.

3. Make sure cord is clear of wheels and cutting discs. Do not wrap cord around your arm or wrist. If control of equipment is lost, cord may become wrapped around you and cause personal injury.

4. Adequate ventilation of your work area is very important when using equipment. Use a dust mask or appropriate respirator.

5. Due to the dust generated by floor grinding, an appropriate vacuum in good condition should always be used. We recommend cleaning equipment often to remove dust accumulation. Carefully blow the dust out of the motor, VFD and dust covered areas frequently.


6. Always install the dust skirt and ensure that it is properly adjusted to minimize airborne dust while grinding.

7. Check the tools and accessories carefully for cracks or damage before operation. Replace cracked or damaged tools or and accessories immediately.

8. Hold the equipment firmly with both hands during operation.

9. Do not leave the equipment running unattended.

10. Use gloves to remove tools immediately after operation; as they may be hot and could burn your skin.

 **WARNING: Misuse or failure to follow the safety rules stated in this instruction manual may cause serious personal injury. SAVE THESE INSTRUCTIONS.**

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## **MACHINE OPERATION:**

### **Starting the equipment:**

Apply downward pressure on the handle to alleviate some pressure off of the tools and engage on switch. Once the equipment gets started, gently release the downward pressure and start grinding.

### **DO NOT LIFT THE EQUIPMENT OFF THE GROUND WHILE STARTING!**

Doing so can cause the tools to release from the equipment and cause damage to the surface being finished.

### **Stopping The Equipment:**

To stop the equipment push toggle switch to the off position.

### **Changing Tools and Accessories:**

Always turn off and disconnect power from the machine when performing any operations to the bottom of the machine!

When removing and inserting tool plates or adapter plates, be sure to inspect rubber grommets for signs for wear and replace any damaged grommets.

Using grommets that are damaged or missing can cause damage to the equipment.

### **Handle adjustment:**

To adjust the handle step on foot latch at the base of the handle and move handle up or down to the desired position, the release latch. Please ensure that it is properly engaged prior to proceeding. Avoid stepping on or tangling handle control cable when adjusting the handle position.

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## **Maintenance:**

### **General:**

- Disconnect power before performing any maintenance, cleaning, or repair to your equipment!
  - When the equipment is not in use, make sure that the adapter plate assemblies have something attached to them to protect the Velcro. Resting the machine directly on unprotected Velcro will crush the fastening material causing the Velcro to become unusable.
  - Wipe down the equipment after every job.
  - Gently remove dirt and debris from the Velcro hook material by vacuuming or blowing with air. This will ensure maximum adhesion.
  - Check that the handle bolts are tight but not restricting movement, grease as needed.
  - Vacuum or wipe underside of machine.
  - Inspect plug ends for signs of carbon deposits or arcing.
- Check all fasteners and tighten if necessary.

### **Weekly:**

- Inspect handle wires for damage.
  - Blow off motor fan with compressed air as needed.
  - Remove tool plate holders and wipe down bearing shields with a damp cloth.
- \*Do not use any sharp object or abrasive pad to clean the bearing shields. This can compromise the bearing seal! Re-install tool plate drivers using blue medium strength thread locking compound.
- Using a soft scrub pad, remove any excess dirt build up from the bottom plate and backside of pad drivers.
  - Inspect tool plate driver grommets for damage. Torn grommets or ones showing signs of excessive wear should be immediately replaced.

### **Monthly:**

- Clean and lubricate wheels.
  - Clean and lubricate latch mechanisms.
  - Trim or repair dust skirt if needed.
  - Ensure that weight posts are tightly fastened.
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## LIMITED EQUIPMENT WARRANTY OF SALE

New Grind Inc. warrants that each new unit manufactured for New Grind Inc. to be free from defects in material and workmanship in normal use and service for a period of 3 years from date of shipment to the original purchaser. Accessories or equipment furnished and installed on the product by NewGrind Inc. but manufactured by others, including, but not limited to engines, motors, electrical components, transmissions etc., shall carry the accessory manufacturers own warranty. New Grind Inc. will, at its option, repair or replace, at the NewGrind Inc. factory or at a point designated by NewGrind Inc. any part which shall appear to the satisfaction of NewGrind Inc. inspection to have been defective in material or workmanship. New Grind Inc. reserves the right to modify, alter and improve any part or parts without incurring any obligation to replace any part or parts previously sold without such modified, altered or improved part or parts. This warranty is in lieu of and excludes all other warranties, expressed, implied, statutory, or otherwise created under applicable law including, but not limited to the warranty of merchantability and the warranty of fitness for a particular purpose in no event shall seller or the manufacturer of the product be liable for special, incidental, or

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consequential damages, including loss of profits, whether or not caused by or resulting from the negligence of seller and/or the manufacturer of the product unless specifically provided herein. In addition, this warranty shall not apply to any products or portions there of which have been subjected to abuse, misuse, improper installation, maintenance, or operation, electrical failure or abnormal conditions and to products which have been tampered with, altered, modified, repaired, reworked by anyone not approved by seller or used in any manner inconsistent with the provisions of the above or any instructions or specifications provided with or for the product

### **FORCE MAJEURE**

Seller's obligation hereunder are subject to, and Seller shall not be held responsible for, any delay or failure to make delivery of all or any part of the product due to labor difficulties, fires, casualties, accidents, acts of the elements, acts of God, transportation difficulties, delays by a common carrier, inability to obtain product, materials or components or qualified labor sufficient to timely perform part of or all of the obligations contained in these terms and conditions, governmental regulations or actions, strikes, damage to or destruction in whole or part of manufacturing plant, riots, terrorist attacks or incidents, civil commotions, warlike conditions, flood, tidal waves, typhoon, hurricane, earthquake, lightning, explosion or any other causes, contingencies or circumstances within CANADA not subject to the Seller's control which prevent or hinder the manufacture or delivery of the products or make the fulfillment of these terms and conditions impracticable. In the event of the occurrence of any of the foregoing, at the option of Seller, Seller shall be excused from the performance under these Terms and Conditions, or the performance of the Seller shall be correspondingly extended. This document sets forth the terms and conditions pursuant to which the purchaser ("Purchaser") will purchase and New Grind Inc. ("Seller") will sell the products, accessories, attach-

ments (collectively the products") ordered by the Purchaser. These terms and conditions shall govern and apply to the sale of Seller's products to Purchaser, regardless of any terms and conditions appearing on any purchase order or other forms submitted by Purchaser to Seller, or the inconsistency of any terms therein and herein.

### **LIABILITY LIMITATIONS**

The remedies of the user set forth under provisions of warranty outlined above are the exclusive and total liability of New Grind Inc. with the respect to their sale or the equipment and service furnished hereunder, in connection with the performance or

breach thereof, or from the sale, delivery, installation, repair or technical direction covered by or furnished under the sale, whether based on contract, warranty, negligence, indemnity, strict liability, or otherwise shall not exceed the purchase price of the unit of equipment upon which such liability is based.

New Grind Inc. will not in any event be liable to the user, any successors in interest or any beneficiary or assignee relating to this sale for any consequential, incidental, indirect, special or punitive damages arising out of this sale or any breach thereof, or any defects on, or failure of, or malfunction of the equipment under this sale based upon loss of use, lost profits or revenue, interest, lost goodwill, work stoppage, impairment of other goods, loss by reason of shutdown or non-operation, increased expenses of operation of the equipment, cost of purchase or replacement power of claims of users or customers of the user for service interruption whether or not such loss or damage is based on contract, warranty, negligence, indemnity, strict liability, or otherwise.

New Grind Inc. reserves the right to modify, alter and improve any part or parts without incurring any obligation to replace any part or parts previously sold without such modified, altered or improved part or parts.

No person is authorized to give any other warranty or to assume any additional

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obligation on NewGrind Inc.'s behalf unless made in writing and signed by an officer of NewGrind Inc.

## **TERMS & CONDITIONS**

### **1. PRICE**

All prices set forth on any purchase order or other document are F.O.B. Seller's facility or distribution point, as may be determined by Seller (F.O.B. Point). All prices are exclusive of any and all taxes, including, but not limited to, excise, sales, use, property or transportation taxes related to the sale or use of the products, now or hereafter imposed, together with all penalties and expenses.

Purchaser shall be responsible for collecting and/or paying any and all such taxes, whether or not they are stated in any invoice for the Products. Unless otherwise specified herein, all prices are exclusive of inland transportation, freight, insurance and other costs and expenses relating to the shipment of the Products from the F.O.B. point to Purchaser's facility. Any prepayment by Seller of freight insurance and other costs shall be for the account of Purchaser and shall be repaid to Seller.

### **2. PAYMENT TERMS**

Payment terms are as follows:

New Grind Inc. Machines - Payment prior to delivery.

\*All past due accounts are subject to a late payment fee of 1.5% per month or a maximum allowed by law if different, along with the expenses incidental to collection including reasonable attorney's fees and costs.

\*Seller reserves the right to hold shipments against past due accounts.

\*Seller reserves the right to alter payment terms.

### **3. FREIGHT TERMS**

All shipments will be made F.O.B. shipping point as designated in these Terms and Conditions, and title shall pass at the F.O.B. point. Delivery to the initial common carrier shall constitute

delivery to the Purchaser. Any claims for loss or damage during shipment are to be filed with carrier by the Purchaser. Seller will not assume responsibility for the performance of the carrier. Backorders will be shipped in the most practical fashion with charges consistent with our freight policy established with the original order. UPS, FED EX, MAIL or shipments by other couriers are subject to the same terms and conditions as outlined in paragraph #3 "Freight Terms".

### **4. DELIVERY, DAMAGES, SHORTAGES**

Seller shall use reasonable efforts to attempt to cause the Products to be delivered as provided for in these Terms & Conditions. Delivery to the initial common carrier shall constitute the delivery to the Purchaser. Seller's responsibility, in so far as transportation risks are concerned, ceases upon the delivery of the Products in good condition to such carrier at the F.O.B. point and all the Products shall be shipped at the Purchaser's risk. Seller shall not be responsible or liable for any loss of income and/or profits, or incidental, special, consequential damages resulting from Seller's delayed performance in shipment and delivery.

### **5. RETURN OF DEFECTIVE PRODUCTS**

Defective or failed material shall be held at the Purchaser's premises until authorization has been granted by Seller to return or dispose of Products. Products that are to be returned for final inspection must be returned Freight Prepaid in the most economical way. Credit will be issued for material found to be defective upon Seller's inspection based on prices at time of purchase.

### **6. PRODUCTS ORDERED IN ERROR**

Products may be returned, provided that claim is made and Seller is notified within 7 days of receipt of Products, and the Products are in original buyer's possession not more than 30 days prior to return, subject to Seller's approval. If Products are accepted for return, they must be Freight Prepaid and buyer will be charged a minimum of 15% restock-

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ing charge, plus a charge back for outbound freight charges if the original order was shipped prepaid. Returns are not accepted for any Products that are specifically manufactured to meet the buyer's requirement of either specifications or quantity.

## **AGREEMENTS**

These Terms and Conditions constitute the entire agreement between Seller and Purchaser as it relates to terms and conditions of sale, and supersedes any and all prior oral or written agreements, correspondence, quotations or understandings heretofore in force between the parties relating to the subject matter hereof. There are no agreements between Seller and Purchaser with respect to the Product herein except those specifically set forth in and made part of these terms and conditions. Any additional terms, conditions and/or prices are rejected by Seller. These terms and conditions may be modified, cancelled or rescinded only by a written agreement of both parties executed by their duly authorized agents.

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