



NEWGRIND

OUTPERFORMING FROM EDGE TO EDGE

RHINO RX1000

RESURFACING MACHINE **OPERATOR'S MANUAL**

LENZE VFD i550 protec IP31 / NEMA 1, NEMA 4X outdoor

EQUIPMENT USAGES

- Concrete leveling, grinding and polishing
- Glue, thinset and mastic removal
- Terrazzo grinding and polishing
- Stone grinding and polishing
- Hardwood sanding and refinishing



For your personal safety, READ and UNDERSTAND before using.

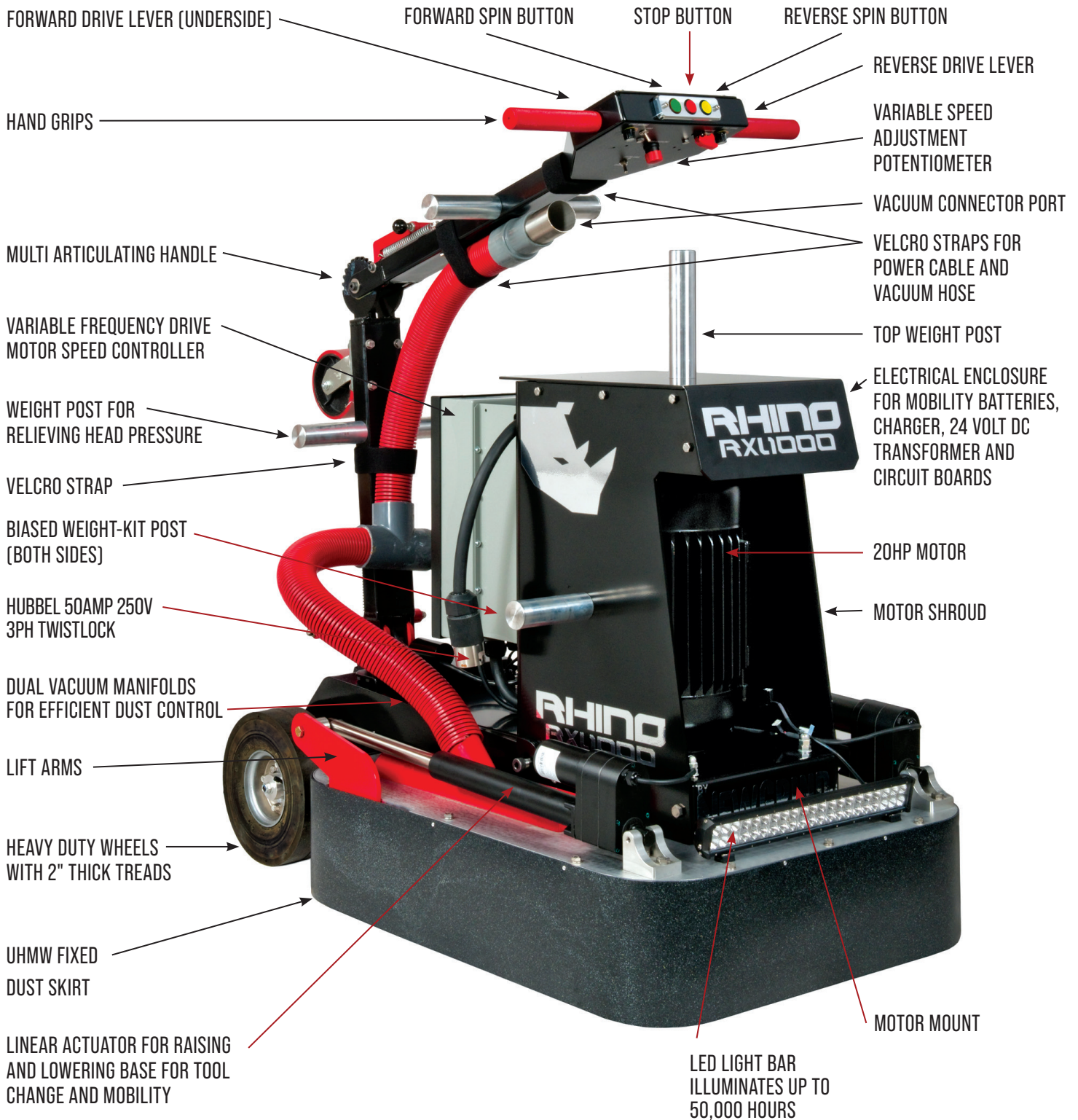
SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

RHINO RXL1000 USER MANUAL

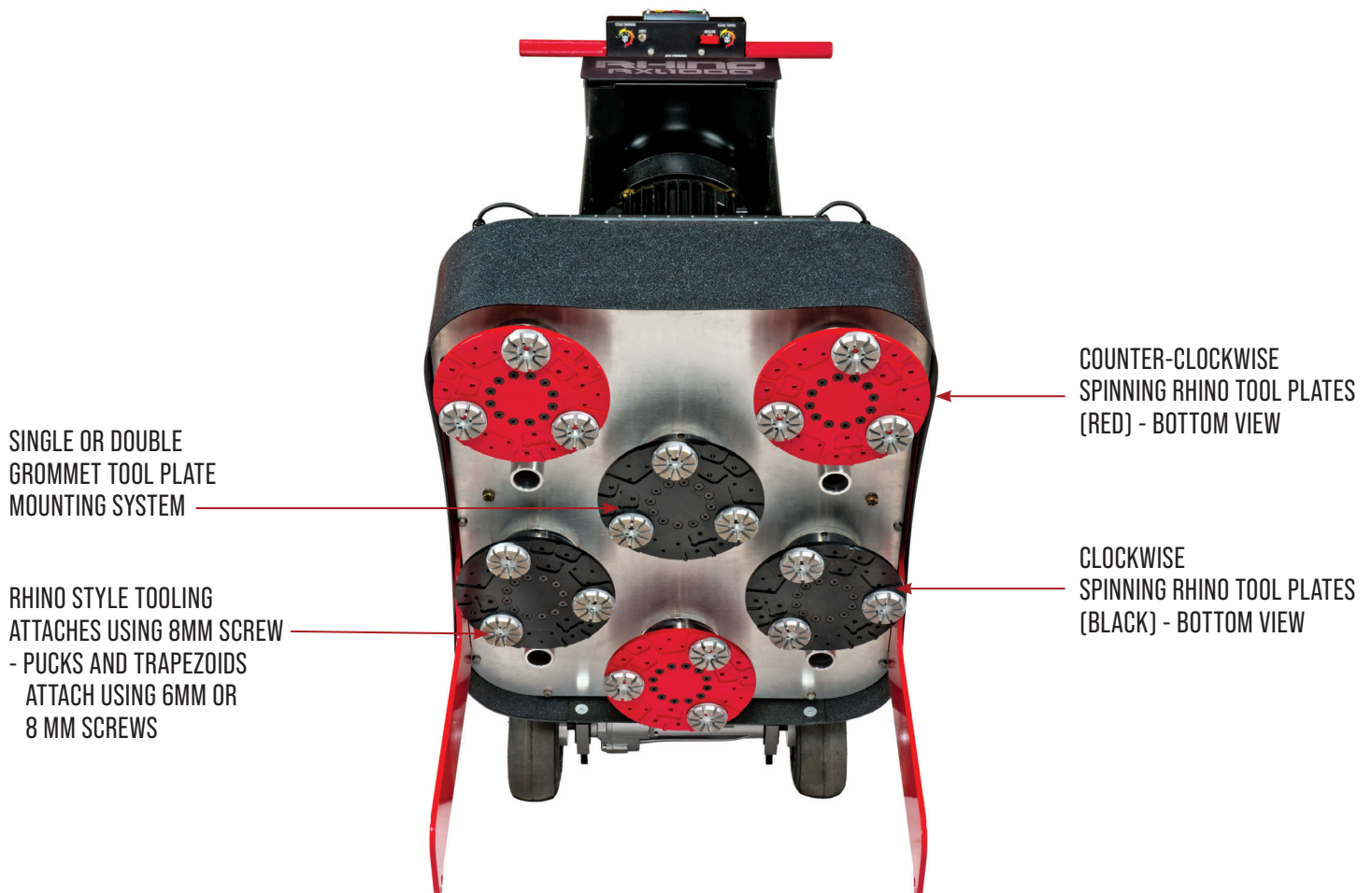
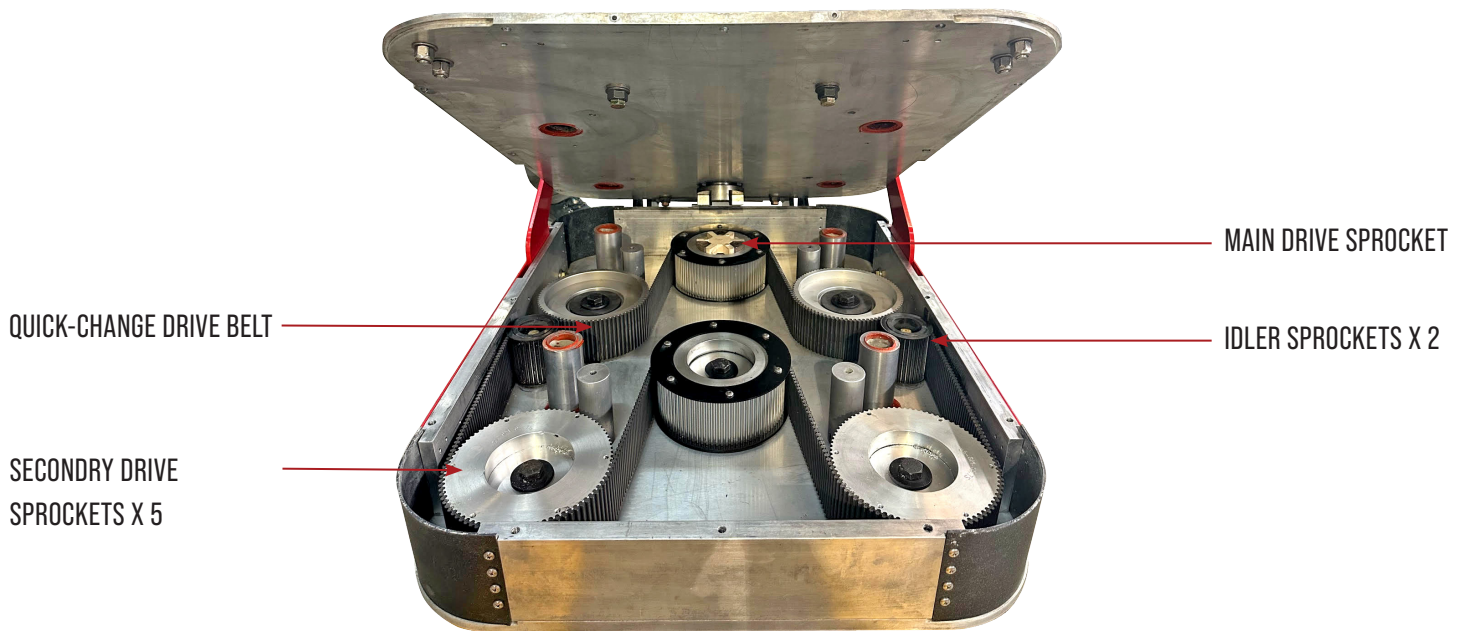
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RHINO RXL1000 DIAGRAM



RHINO RXL1000 BASE INTERIOR VIEW



RHINO RXL1000 MACHINE SPECIFICATIONS

POWER	50 AMP/208-230V 3 Phase
MAXIMUM WATTS DRAW	12500 WATTS
HP	20
SELF PROPELLED	FORWARD AND REVERSE 24 VOLT TRANSAXLE
MACHINE WEIGHT	1200 lbs
BIASED WEIGHT KIT MAX WEIGHT	600 lbs
COMBINED WEIGHT	1800 lbs
DISC SPEED	200 - 1200 RPM
VARIABLE SPEED CONTROL	YES
NUMBER OF GRINDING HEADS	6
COUNTER-ROTATING HEADS	YES
DISK SIZE	11 inches
GRINDING FOOTPRINT	32 inches
QUICK CHANGE TOOLING PLATES	YES
QUICK BELT CHANGING SYSTEM	YES
WET OR DRY GRINDING	YES
UHMW FLOATING DUST SKIRT	YES
MULTI-ARTICULATING HANDLE	YES
FORWARD OR REVERSE HEAD ROTATION	YES
CAN BE USED AS AN EDGER	YES – grinds to within 3/4 "of the edge
DUAL VACUUM MANIFOLDS	YES

TOOLING

RHINO STYLE TOOLING	YES
STANDARD TRAPEZOID	YES
3" PUCK TOOLING	YES

AVERAGE PRODUCTION RATES

[on Medium Hard Concrete]

EXTREMELY HEAVY REMOVAL	1400-2000 sq./ft. per hour
HEAVY REMOVAL	1600-2600 sq./ft. per hour
LIGHT REMOVAL	2000-3300 sq./ft. per hour
GRINDING AND PROFILING	1800-2800 sq./ft. per hour
POLISHING	2000-3000 sq./ft. per hour

RHINO RXL 1000 SPECIFICATIONS

MODEL	X4C20200C
Input Power	200 - 230V +/- 15% 50/60Hz 3 PHASE
Amps	50 A
Plug Type	HUBBEL 50AMP 250V 3PH TWISTLOCK
Disc Diameter	11" / 279mm
Disc Speed (RPM)	200 - 1200
Machine Width	32" / 812mm
Weight	1280lbs / 580kg

GENERAL SAFETY INSTRUCTIONS



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, pets and visitors away while operating equipment. Distractions can cause you to lose control.
4. Use appropriate dust control vacuum system when dry grinding or sanding.

ELECTRICAL SAFETY

5. 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.
6. 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.
7. Avoid accidental starting. Be sure stop button is depressed before plugging in. Starting equipment with your finger on the start buttons or plugging in equipment that have the buttons depressed invites accidents.

PERSONAL SAFETY

8. 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.
9. Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the equipment in unexpected situations.

RHINO RXL1000 SAFETY INSTRUCTIONS continued

10. 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.
11. **DO NOT** turn on equipment while the machine is tilted back. Any tooling fastened to the machine can come off and cause damage or injury.

EQUIPMENT USE AND CARE

12. 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.
13. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing equipment. Such preventive safety measures reduce the risk of starting the equipment accidentally.
14. 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.
15. 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.
16. Use only tools and accessories that are recommended by the manufacturer for your equipment. Tools and accessories that may be suitable for one style of equipment, may become hazardous when used on another style of equipment.

SERVICE

17. **DO NOT** modify the machine. Modifications will void warranty and could result in unsafe operation of equipment.
18. Equipment service should be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
19. 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. For model HDX465 use 10 gauge cord or larger. For model HDX465HV use 12 gauge cord or larger. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

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. Tools and other accessories running over rated speed can fly apart and cause injury.

RHINO RXL 1000 SAFETY INSTRUCTIONS continued

2. Always use safety glasses or goggles. Ordinary eye or sun glasses 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 dusty nature during use of this equipment, be sure to clean equipment often to remove dust accumulations. Carefully blow the dust out of the motor, VFD and dust covered areas frequently.
6. Always install the dust skirt before operation.
7. Check the tools and accessories carefully for damage before operation. Replace damaged tools and accessories immediately.
8. Hold the equipment firmly with both hands during operation.
9. Do not leave the equipment running unattended.
10. Do not touch the tools immediately after operation; they may be extremely 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.

MACHINE OPERATION:

The Variable Frequency Drive (VFD) is designed to allow the user to operate the equipment on either single phase or three phase power. The equipment is able to operate on either 50 Hz or 60 Hz frequencies. To operate equipment on single phase, a single phase to three phase adapter cord is required. The VFD will automatically adjust for phase or frequency input.

LCD DISPLAY – Shows PAD speed in RPM, % of motor load, and VFD status



STARTING THE EQUIPMENT:

NOTE: Battery switch must be turned off when running machine. Battery switch is only used when mobilizing on and off the job site.

The equipment is designed to rotate the tooling in either the forward direction (green button) or reverse direction (yellow button) depending on operating needs. Use the equipment in the forward rotation mode (green button) unless reverse rotation is needed. This will ensure consistent tool wear and tool profile. The use of the equipment in the reverse rotation is only needed when surface being finished is uneven and causes the equipment to pull in an undesired direction or when the tooling is glazed and needs to be re-dressed.

RHINO RXL1000 MACHINE OPERATION continued

Use the knob, located on the top of the handle control box to adjust speed of equipment. Before starting the equipment, ensure that the speed is set to the lowest speed available as displayed on the VFD screen. Doing so will prevent unexpected high speed start up which could cause undesirable marks to the surface being finished. Transaxle speed for forward and reverse movement of this grinder is located on the left upper side of handle control box. Depress right handle grip lever for forward motion and left handle grip lever for reverse note: there is a 1 second delay before transaxle engages when depressing control lever. Only squeeze and hold one lever at a time, when operating machine..

Never exceed the maximum speed of the tooling being used! Doing so could cause tooling to eject from the tool plate holder or cause irreparable damage to the surface being finished.

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 and harm workers or surrounding surfaces (like glass, doors etc).

STOPPING THE EQUIPMENT:

To stop the equipment, turn speed control knob to the slowest setting and push the red stop button on the face of the handle or the red stop button on the VFD.

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

To change the tool segments on the tooling plate use appropriate fasteners and be careful to avoid cross threading. When removing and inserting tool plates or adapter plates, be sure to inspect rubber grommets for signs of wear and replace any damaged grommets.

Using grommets that are damaged or missing can cause damage to the drive heads and tool plates.

HANDLE ADJUSTMENT:

To adjust the handle, pull either the upper ratchet hand lever or depress the lower ratchet foot pedal on the handle and move handle up or down to the desired position. Avoid stepping on or tangling handle control cable when adjusting the handle position. Make sure that the ratchet clicks in place when the desired position is achieved.

Failure to check for positive engagement could result in damage to the equipment or injury to the user as the handle could release unexpectedly when the machine is being operated or tilted back.

VFD FEATURES:

The machine is outfitted with a VFD (Variable Frequency Drive) enabling the user to select the desired operating speed.

The VFD also possesses many features such as:

- Under voltage protection - Over current protection
- 60Hz and 50Hz capability (international)
- Wide voltage range (200-230V +/- 15% for 230V model)
- Soft start
- Speed display
- Load display
- Current limiting

RHINO RXL1000 MAINTENANCE

MAINTENANCE:

General:

- Always plug in battery charging cord when the machine is not in use. When leaving the machine overnight on a job it can be left plugged in to line power, which will charge the batteries. The 110 volt battery charging cable can be disconnected and plugged into a 110v cord when not using line power to charge. This will keep the batteries fully charged for mobility on and off the job site.
- Disconnect power before performing any maintenance, cleaning, or repair to your equipment!
- Machine can be stored without tool plates to sit directly on drive head grommets or with tool plates that either have grinding segments on or off. Note: It is not good practice to store or transport machine with metal bond or PCD tooling sitting directly on a metal/diamond plate deck.
- Inspect lift arm and linear actuator mounting bolts. Any that are coming loose need to be removed, cleaned and reinstated using 262 or 271 red Loctite.
- Make sure shoulder bolts on ratchets are not coming loose. To set tightness on shoulder bolts- adjust nylock nuts tight enough to keep handle forks from having sloppy side to side movement but loose enough to allow ease of movement for handle position adjustment.

NOTE: It is not good practice to store or transport machine with metal bond or PCD tools sitting directly on a metal/diamond plate deck.

Weekly:

- Clean equipment as needed.
- Inspect tool plate driver grommets for signs of wear. Replace grommets that show signs of extensive wear.

Monthly:

- Inspect handle wires for damage.
- Check that the handle bolts are tight.
- Blow off VFD heat sink with compressed air.
- Blow off motor fan with compressed air.
- Inspect plug ends for signs of carbon deposits or arcing.
- Gently remove dirt and debris from Velcro hook material using a wire brush. This will ensure maximum adhesion.
- Check fasteners on tool plates and tighten if necessary.

Yearly:

- Check all strain reliefs and make sure they are tight so as to avoid cords being pulled out of the VFD or handle.
- Clean and lubricate wheels.
- Clean and lubricate ratchet mechanisms. And make sure shoulder bolts on ratchets are not coming loose. To set tightness on shoulder bolts - adjust nylock nuts tight enough to keep handle forks from having sloppy side to side movement but loose enough to allow ease of movement for handle position adjustment.


RHINO RXL1000 VFD ERROR CODES

ERROR CODE	DESCRIPTION	CLASSIFICATION	REMEDY	BLOCKING TIME [S]	RESET POSSIBLE
2250	CiA: Continuous overcurrent (inside the device)	Fault	<ul style="list-style-type: none"> Check motor and wiring for short circuit. Check brake resistor and wiring. Check motor circuit (delta connection, star connection). Check setting of the motor data. 	5	Yes
2320	Short circuit or earth leakage on the motor side	Fault	<ul style="list-style-type: none"> Check motor cable. Check the length of the motor cable. Use shorter or lower-capacitance motor cable. 	5	Yes
2340	CiA: Short circuit (inside the device)	Fault	<ul style="list-style-type: none"> Check motor cable for short circuit. 	5	Yes
2350	CiA: $i^2 \cdot t$ overload (thermal state)	Fault	<ul style="list-style-type: none"> Check drive sizing. Check machine/driven mechanics for excessive load. Check setting of the motor data. Reduce values for slip compensation (P315.01, P315.02) and oscillation damping (P318.01, P318.02). 	5	Yes
2382	Error: Device utilization [Ixt] too high	Fault	<ul style="list-style-type: none"> Check drive sizing. Reduce maximum overload current of the inverter (P324.00). In case of high mass inertias, reduce maximum overload current of the inverter (P324.00) to 150 %. 	3	Yes
2383	Warning: Device utilization [Ixt] too high	Warning	<ul style="list-style-type: none"> Check drive sizing. 	0	Yes
3120	Mains phase fault	Fault	<ul style="list-style-type: none"> Check wiring of the mains connection Check fuses. 	0	Yes
3210	DC bus overvoltage	Fault	<ul style="list-style-type: none"> Reduce dynamic performance of the load profile. Check mains voltage. Check settings for braking energy management. Connect brake resistor to the power unit and activate the integrated brake chopper. (P706.01 = 0: Brake resistance). 	0	Yes
3211	Warning: DC bus overvoltage	Warning	<ul style="list-style-type: none"> Reduce dynamic performance of the load profile. Check mains voltage. Check settings for braking energy management. Connect brake resistor to the power unit and activate the integrated brake chopper. (P706.01 = 0: Brake resistance). 	0	Yes
3220	DC bus undervoltage	Trouble	<ul style="list-style-type: none"> Check mains voltage. Check fuses. Check DC bus voltage (P105.00). Check mains settings. 	0	Yes

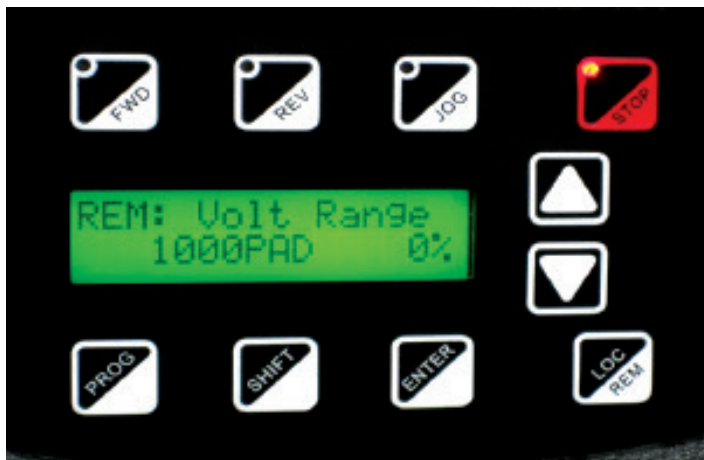
RHINO RXL1000 VFD ERROR CODES *continued*

ERROR CODE	DESCRIPTION	CLASSIFICATION	REMEDY	BLOCKING TIME [S]	RESET POSSIBLE
3221	Warning: DC bus undervoltage	Warning	<ul style="list-style-type: none"> • Check mains voltage. • Check fuses. • Check DC bus voltage. • Check mains settings. 	0	Yes
3222	DC bus voltage too low for switch-on	Warning	<ul style="list-style-type: none"> • Check mains voltage. • Check fuses. • Check mains settings. 	0	Yes
4210	PU: Overtemperature fault	Fault	<ul style="list-style-type: none"> • Check mains voltage. • Provide for a sufficient cooling of the device (display of the heatsink temperature in P117.01). • Clean fan and ventilation slots. If required, replace fan. • Reduce switching frequency (P305.00). 	0	Yes
4281	Heatsink fan warning	Warning	<ul style="list-style-type: none"> • Clean fan and ventilation slots. If required, replace fan. The fans can be unlocked via locking hooks and can then be removed. 	0	Yes
4310	Error: Motor overtemperature	Fault	<ul style="list-style-type: none"> • Check drive sizing. • Check motor thermal sensor and wiring (X109/T1 and X109/T2). 	5	Yes
5112	24-V supply fault	Warning	<ul style="list-style-type: none"> • Check optional external 24-V voltage supply (terminal X3/24E), if connected. • Check mains voltage. 	0	Yes
5180	24-V supply overload	Warning	<ul style="list-style-type: none"> • Check 24-V output and digital outputs for earth fault or overload. 	0	Yes
6280	Trigger/functions connected incorrectly	Trouble	<ul style="list-style-type: none"> • Check and correct the assignment of the triggers to the functions. • With keypad or network control, the two functions "Inverter enable" (P400.01) and "Run" (P400.02) can also be set to "Constant TRUE [1]" to start the motor. 	0	Yes
7180	Motor overcurrent	Fault	<ul style="list-style-type: none"> • Check motor load. • Check drive sizing. • Adapt the set error threshold (P353.01). 	1	Yes
9080	Keypad removed	Fault	<ul style="list-style-type: none"> • Plug on the keypad again or activate another control source. 	0	Yes
FF02	Error: Brake resistor overload	Fault	<ul style="list-style-type: none"> • Check drive sizing. • Check settings for the braking energy management. <p>NOTE! The error will be reset if the thermal load falls below the error threshold (P707.09) of - 20 %.</p>	5	Yes

RHINO RXL 1000 VFD ERROR CODES *continued*

ERROR CODE	DESCRIPTION	CLASSIFICATION	REMEDY	BLOCKING TIME [S]	RESET POSSIBLE
FF06	Motor overspeed	Fault	<ul style="list-style-type: none"> Adapt the maximum motor speed (P322.00) and the error threshold (P350.01). 	1	Yes
FF36	Warning: Brake resistor overload	Warning	<ul style="list-style-type: none"> Check drive sizing. Check settings for the braking energy management. <p>NOTE! The error will be reset if the thermal load falls below the error threshold (P707.09) of - 20 %.</p>	0	Yes
FF37	Automatic start disabled	Fault	<ul style="list-style-type: none"> Deactivate start command and reset error. 	0	Yes
FF85	Keypad full control active	Warning	<ul style="list-style-type: none"> To exit the control mode, press the  keypad key. 	0	Yes

RHINO RXL 1000 VFD ERROR SCREENS



The VFD is capable of handling a wide range of input power. The voltage range for the 230V models is 200-230V +/-10% (180-253V) and for the 460V models is 380-460V +/-10% (342-506V). If input source power is just outside of these ranges, the above screen will be displayed. The VFD is protected from voltage fluctuations within the specified voltage range. Check voltage before plugging in equipment to insure safe operation.

If a machine is plugged into a power source that is above the machine's maximum voltage capability (ex. 230V model plugged into a 460V power source) this will damage and/or destroy the internals of the VFD and void warranty!

LIMITED EQUIPMENT WARRANTY OF SALE

NewGrind 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 (2) one year from date of shipment to the original retail or equipment rental center owner. Accessories or equipment furnished and installed on the product by New Grind Inc. but manufactured by others, including, but not limited to engines, motors, electrical components, transmissions etc., shall carry the accessory manufacturers own warranty.

NewGrind 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. NewGrind 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 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 thereof 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.

RHINO RXL 1000

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, attachments (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 NewGrind 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.

NewGrind 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 nonoperation, 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.

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

RHINO RXL 1000 TERMS & CONDITIONS

1. PRICE

All prices set forth on any purchase order or other document are F.O.B. Sellers 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: NewGrind 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. Sellers 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% restocking 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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