

RHINO RX7

USER MANUAL

Equipment Uses

- ✓ Concrete leveling, grinding and polishing
- ✓ Terrazzo grinding and polishing
- ✓ Stone grinding and polishing
- ✓ Hardwood grinding, sanding and polishing
- ✓ Glue, Thinset and mastic removal

Address:

103B-81 Golden Drive
Coquitlam, BC
Canada V3K 6R2



Contact:

1-888-467-0242
sales@newgrind.com

Assembled in Canada using only the highest-quality USA components

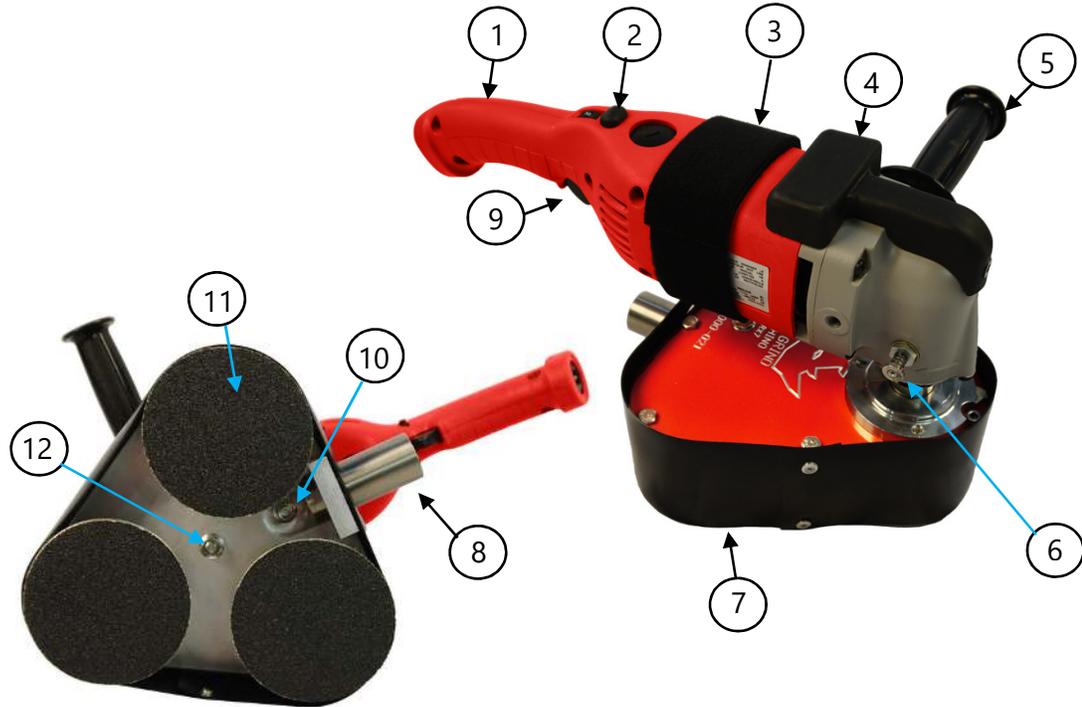
Table of Contents

Equipment Uses	1
RX7 DIAGRAM	3
MACHINE SPECIFICATIONS	3
Tooling	4
SAFETY INSTRUCTIONS	4
Work Area Safety	4
Electrical Safety.....	4
Personal Safety	5
Equipment Safety and Care	6
Service Safety.....	7
KICKBACK AND RELATED WARNINGS	7
MOUNTING THE VARIABLE SPEED HAND GRINDER TO THE RX7	8
OPERATING THE GRINDER	9
Prior to using the grinder	9
Starting the grinder.....	9
Adjusting the speed	10
Stopping the equipment	10
Changing tools and accessories	10
Parts and accessories.....	11
GRINDER MAINTENANCE	11
General Maintenance	11
Daily Maintenance	11
Weekly	12
LIMITED EQUIPMENT WARRANTY OF SALE	12
FORCE MAJEURE	12
LIABILITY LIMITATIONS	13
TERMS & CONDITIONS	13
AGREEMENTS	15

RX7 DIAGRAM

NOTE: The RX7 is pictured here attached to a Milwaukee variable speed polisher. If you are using a different polisher/sander the features may be slightly different.

- 1. Handle
- 2. Speed control dial
- 3. Velcro strap
- 4. Tool rest
- 5. Side Handle
- 6. Spindle lock button
- 7. UHMW dust skirt
- 8. Vacuum port
- 9. Trigger
- 10. Support post
- 11. Tool plates/tools
- 12. Tensioner pulley bolt



MACHINE SPECIFICATIONS

The RX7 is a 3-headed grinder attachment tool.

We recommend using the RX7 with either the Makita 9237C 7-Inch Polisher/Sander or the Milwaukee 5460-6, although it can be used with any variable speed 7" polisher.

Power	15 AMP/110V
Machine weight	7 lbs
Disc speed	200-1200 rpm
Variable speed control	YES
Number of grinding heads	3
Counter-rotating heads	NO
Disk size	4 inches
Grinding footprint	8 ¾ inches

Quick change tooling	YES
Quick belt changing system	YES
Wet or dry grinding	YES
UHMW floating dust skirt	YES
Runs forward or reverse	NO
Can be used as an edger	YES – grinds to within 1/8 of the edge
Single vacuum attachment	YES

Tooling

Rhino Style tooling	YES
Standard trapezoid	NO

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 Safety

1. Keep your work area clean and well lit. Cluttered floors and dark areas invite accidents.
2. Do not operate equipment in explosive environments, 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

1. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
2. Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

4. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
5. When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
6. If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply. Use of an GFCI reduces the risk of electric shock.

Personal Safety



WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contain chemicals known to cause cancer, birth defects or other reproductive harm.



Some examples of these chemicals are:

- lead from lead-based paint
 - crystalline silica from bricks and cement and other masonry products, and
 - arsenic and chromium from chemically treated lumber
1. 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.
 2. 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.
 3. Adequate ventilation of your work area is very important when using equipment. Use a dust mask or appropriate respirator. Due to the dusty nature during use of
 4. Do not overreach. Always keep proper footing and balance. Proper footing and balance will enable better control of the equipment in unexpected situations.
 5. Use safety equipment. Always wear eye protection, dust mask, non-skid safety shoes, hard hat and hearing protection.
Ordinary eye or sunglasses are NOT eye protection.
 6. DO NOT Turn on equipment while the machine is facing up. Any tooling fastened to the machine can eject and become a lethal projectile.

7. Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source and, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
8. Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire may also make exposed metal parts of the power tool "live" and could give the operator an electric shock.
9. Position the cord clear of the spinning accessory. If you lose control, the cord may be cut or snagged, and your hand or arm may be pulled into the spinning accessory.
10. Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control.
11. Do not run the power tool while carrying it at your side. Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.



Equipment Safety and Care

1. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
2. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
4. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
5. Maintain power tools and accessories. Check for misalignment or binding of moving parts, break- age of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
8. Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

9. Tools and accessories must be rated for at least the speed stated on the equipment serial plate. Tools and other accessories running faster than rated speed can fly apart and cause injury.
10. Due to the dusty nature during use of this equipment, be sure to clean equipment often to remove dust accumulations.
11. Always install the dust skirt before operation.
12. Check the tools and accessories carefully for cracks or damage before operation. Replace cracked or damaged tools or and accessories immediately.
13. Hold the equipment firmly with both hands during operation.
14. Do not leave the equipment running unattended.
15. Do not touch the tools immediately after operation; they may be extremely hot and could burn your skin.
16. Regularly clean the power tool's air vents. The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.

Service Safety

1. DO NOT modify the machine. Modifications will void warranty and could result in unsafe operation of equipment.
2. Equipment service should be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
3. When servicing equipment, use only identical replacement parts. Use of unauthorized parts may create a risk of electric shock or injury.



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



KICKBACK AND RELATED WARNINGS

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending

on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

Kickback is the result of power tool misuse and/or in- correct operating procedures or conditions and can be avoided by taking proper precautions as given below.

1. Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up. The operator can control torque reactions or kickback forces, if proper precautions are taken.
2. Never place your hand near the rotating accessory. Accessory may kickback over your hand.
3. Do not position your body in the area where power tool will move if kickback occurs. Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
4. Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory. Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.

MOUNTING THE VARIABLE SPEED HAND GRINDER TO THE RX7

Note: Grinder arbor must match the RX7 whether 5/8" or 14mm thread

1. Remove the red rubber band and dust skirt.
2. Place RX7 on a workbench, table or floor. With the tool plate drivers facing down.

WARNING: if any diamond tools, or abrasive pads/discs are mounted to the RX7 damage can occur to the surface of the bench, table or floor due to scratching from tools. If needed remove tool plates and place with grommets facing down.

3. The tool plates can be removed by hand. Simply grasp with one hand and pull the plate straight out. This will disengage the 3 coupling nut drive pins from the rubber grommets. Do this for all 3 heads.
4. Loosen grinder support post using a 1/2" wrench for the top nut facing the top surface of the RX7
5. Take a 1/2" deep socket and loosen the bottom nut of the support post on the underside of the RX7 by the vacuum port.
6. Turn Velcro strap with screw down into the base to allow enough room to insert hand grinder into the drive shaft, without the support post interfering

7. Plug in hand grinder and place the arbor squarely over the drive shaft and bump trigger by depressing and quickly releasing. To thread the grinder into the RX7 until it is fully seated.
8. Centre the hand grinder over the support post and turn top plate nut until the support post touches the bottom of the grinder snugly.



WARNING: DO NOT OVER TIGHTEN AS THIS WILL APPLY EXCESSIVE STRESS TO DRIVE SHAFT.



9. Remove section of hook sticky back Velcro and attach to the grinder, centered over the strap
10. Hold grinder firmly in position and take each side of the strap and pull tightly around grinder
11. Using 1/2" deep socket firmly tighten bottom nut of the support post with split washer
12. Replace tool plates, position dust skirt and secure using the red rubber band

OPERATING THE GRINDER

Prior to using the grinder

1. Inspect the grinder to make sure all bolts are tight, and that tools are properly mounted
2. Check that the plug is properly connected to the extension cord and inspect the cord for wear and tear.
3. Make sure that speed dial is turned to its lowest setting



WARNING: This will prevent unexpected high speed start up which could cause some tools to eject or cause undesirable marks to the surface being finished.



4. Plug the machine in.

Starting the grinder



DO NOT HOLD THE GRINDER FAR FROM THE SURFACE WHILE STARTING!
Doing so can cause the tools to release from the equipment and cause damage to the surface being finished and harm to the user!



1. Check that speed dial is set to desired top speed.
2. Plug the power cable in, making sure that extension cord is not tangled or wrapped around any obstacles.
3. Hold the grinder firmly in both hands

4. Squeeze the trigger to start grinding

Adjusting the speed

1. The grinder features a dial speed control, which controls the polisher's maximum rotations per minute. The speed will remain variable to the chosen dial setting by use of the trigger switch.
2. Dial settings range from 1 through 5. Lower numbers correspond to lower speeds and higher numbers correspond to higher speeds. Generally, lower speeds are recommended for tight work areas and higher speeds are ideal for large surface areas. Use the setting that best suits your job.
3. To control the speed, set the dial to the desired number. Then pull the trigger. Increase or decrease pressure on the trigger to vary the speed.

Stopping the equipment

1. To stop the grinder, release the trigger

Changing tools and accessories



WARNING: Always turn grinder 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.



WARNING: Using grommets that are damaged or missing can cause unexpected equipment operation and increase the chance of tool plate / adapter plate ejection or violent vibration leading to loss of control of equipment!



To change the tools:

1. Turn grinder off, and unplug power
2. Lay the grinder on it's back



WARNING: Do not attempt to replace tools that have recently been in use as they may be hot and could cause injury



3. The tool plates can be removed by hand. Simply grasp with one hand and pull the plate straight out. This will disengage the 3 coupling nut drive pins from the rubber grommets. Do this for all 3 heads.

4. Remove the bolt from the back of the tool plate behind each tool to release the tool (Or in the case of Velcro-backed tools, carefully peel them off)
5. Hold the replacement tool up against the desired slot on the tool plate and insert/tighten the bolt.
6. Inspect the grommets to make sure they are not worn or missing
7. Line-up the tool plate pegs and push firmly onto the grommet
8. Hold the plate firmly with both hands and jiggle it to make sure its properly attached
9. Repeat with each of the tool plates



WARNING: only use tools that have been designed for the machine, and make sure that the same type of tool is being used on all plates/positions.



Parts and accessories

A full range of parts and accessories for all of our grinders is available on our website.

GRINDER MAINTENANCE



WARNING: Disconnect power before performing any maintenance, cleaning, or repair to your equipment!



General Maintenance

- 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.

Daily Maintenance

- Wipe down the equipment after every job.
- Gently remove dirt and debris from the Velcro hook material using a wire brush. This will ensure maximum adhesion.
- Check that the handle bolts are tight.
- 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 power cable, tool plates for damage

LIMITED EQUIPMENT WARRANTY OF SALE

NewGrind Inc. warrants that each new unit manufactured by NewGrind Inc. to be free from defects in material and workmanship in normal use and service for a period of (3) three years from date of shipment to the original owner. 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.

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

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: 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% 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.