



# Concrete Floor Grinding Machine

## Product Manual

### Eddie the edger

- . Single Head
- . Single Phase
- . Grinder, Polisher & Edge Grinder

Eddie the edger is a TRUE-EDGE grinder, polisher and edger for concrete surfaces, XTREME POLISHING SYSTEMS engineered it to be the most advanced solution in the concrete floor equipment industry.

This TRUE-EDGE grinding machine can save both customers and contractors labor costs and the hassle of having to re-do projects. Perfect design, precision and results every time. Eddie the edger guarantees production rates that both compare and compete with larger construction equipment in the concrete industry. All of these characteristics are the reason Eddie the edger is the perfect compact grinder, polisher and edge treatment equipment.



This book has important information for the use and safe operation of this machine. Failure to read this book prior to operating and attempting any service or maintenance procedure to your Eddie the edger machine could result in injury to you or other personnel. Damage to the machine or to the other property could occur as well. You must have training in operating this machine. All directions given in this manual are as seen from the operator's position at the rear of the machine.

# Inspection & Accessories

## Delivery & Inspection

Each machine has already passed strict quality control and testing, please check each of the following parts prior to operating it.

1. Verify there are no scratches and that paint hasn't peeled off the surface
2. Confirm buttons and other parts have not loosened as a result of transportation
3. Verify you've received the correct machine as per your order.

## Accessories included

- 1 Manual
- 1 Plug
- 4 Velcro backed adapters
- 4 Transitional pads



1 Manual



1 Plug



4 Velcro backed Adapters



4 Transitional Pads

# Warnings! Technical Data

## WARNING!

1. Do not work on electrical if power is connected.
2. Electric leakage protection device must be applied in the power supply input point.
3. Power cable must be national standard six square three-core, check insulation condition

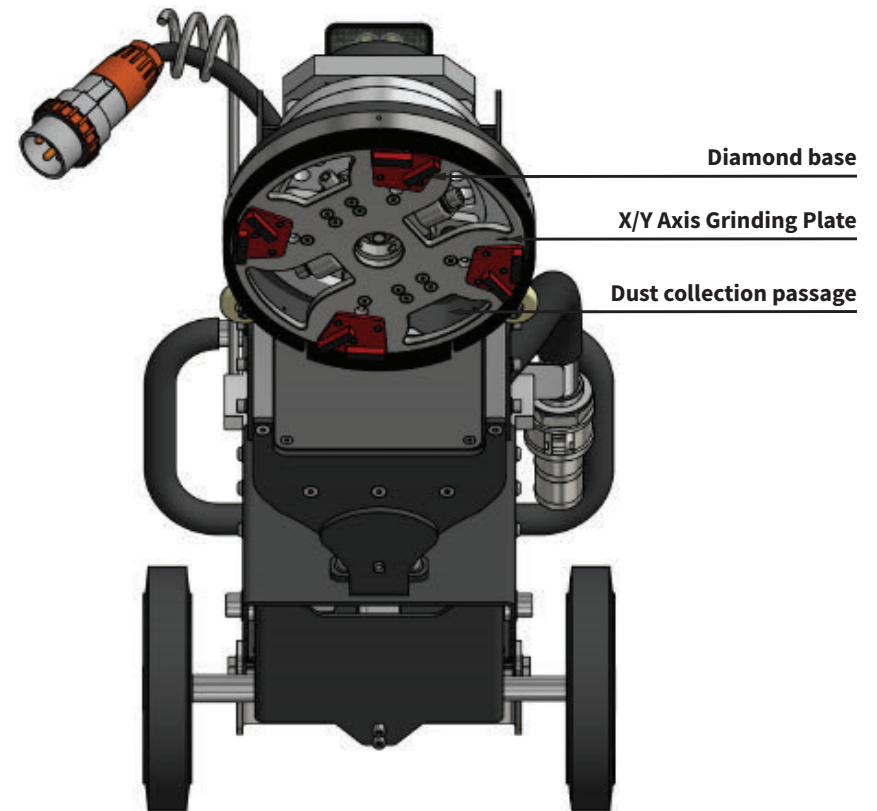
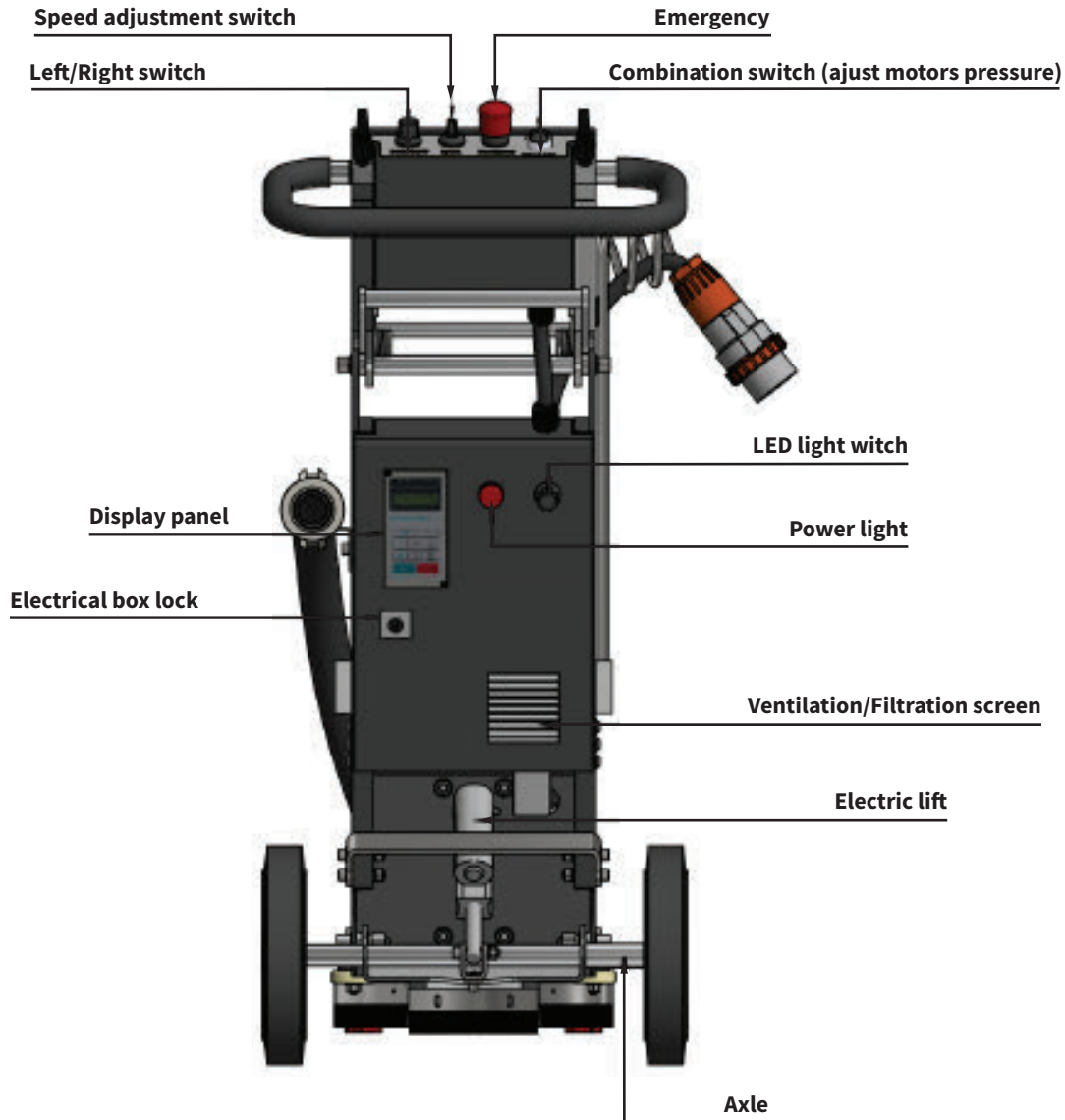
## ATTENTION!

1. Make sure both motor and controls are not wet/humid prior to operating machine.
2. Avoid getting motor/electrical box wet when filling water tank.
3. Immediately stop machine and shut-off power in case of emergency.
4. Keep power cord away from grinding head while operating machine.
5. Confirm grinding components are properly installed.
6. Reset inverter to factory settings in case of failures.



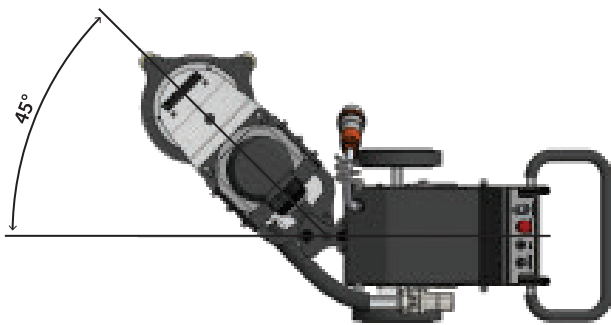
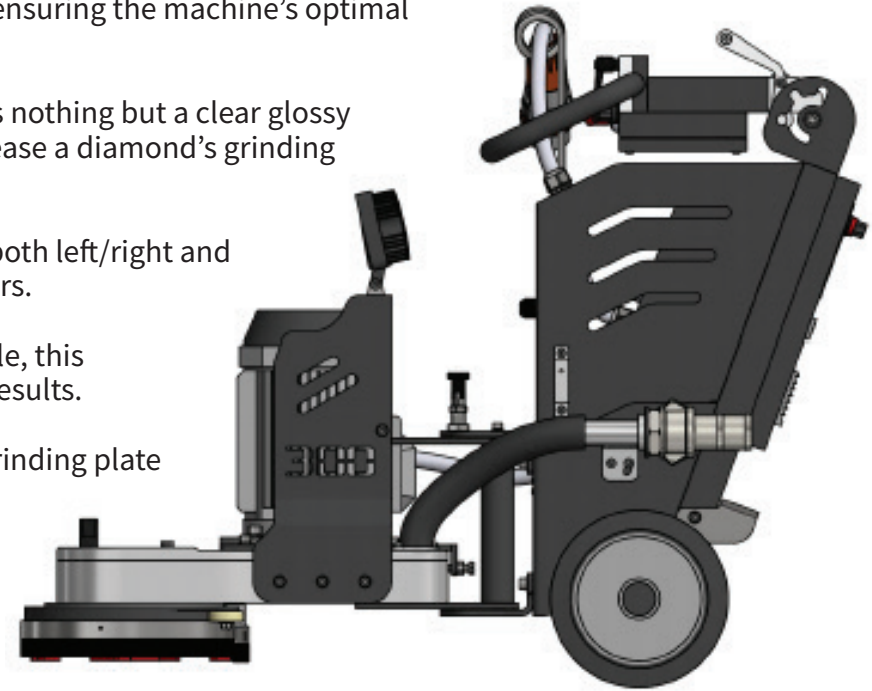
Motor	RPM	Inverter	Voltage	Amps	Rotation	Weight	Working Width	Dimensions
5HP	0-3600	7.5 kW	220V - Single Phase	30	0-1200	265 lbs.	12"	H 36" W 19" L 47"

# Technical Data Continued

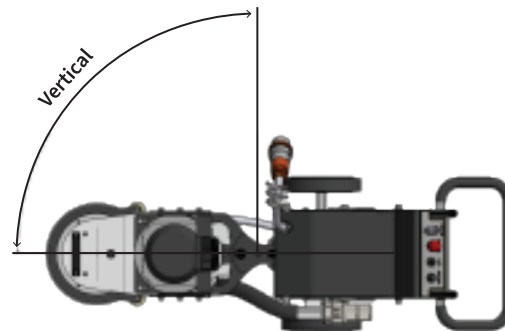


# Machine Features

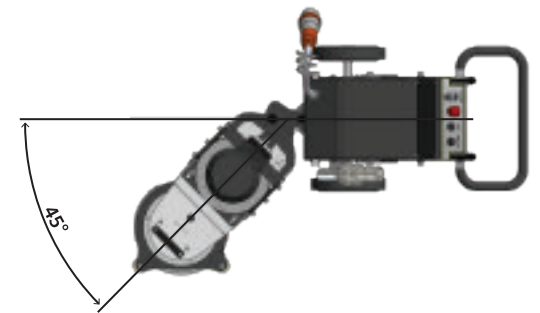
1. This machine has a unique electrical lifting system for its rear moving wheels, this system adjusts the height of diamonds throughout the course of diamond consumption during the operation, ensuring the machine's optimal operational capacity.
2. Integrated with both water-draining & dust-collecting systems, this machine leaves nothing but a clear glossy result after the grinding process. The innovative design of our grinding plates increase a diamond's grinding capacity by up to 10%.
3. With an ergonomical design, several parts of machine's handles are adjustable to both left/right and up/down positions. Handles can be adjusted to meet the need of different operators.
4. The body of the machine and grinding heads are also adjustable to 90° degree angle, this design not only improves the operational capacity but produces greater grinding results.
5. Grinding heads are equipped with a guiding device, which moves along with the grinding plate in a 360° degree angle. This dramatically increases edge grinding precision and the flexibility of machine.
6. The major driving system and grinding plates also move in both X and Y axis directions. Adjustment is contingent upon the condition of the floor ensuring an excellent leveled and glossy result.



45° to Right



Vertical

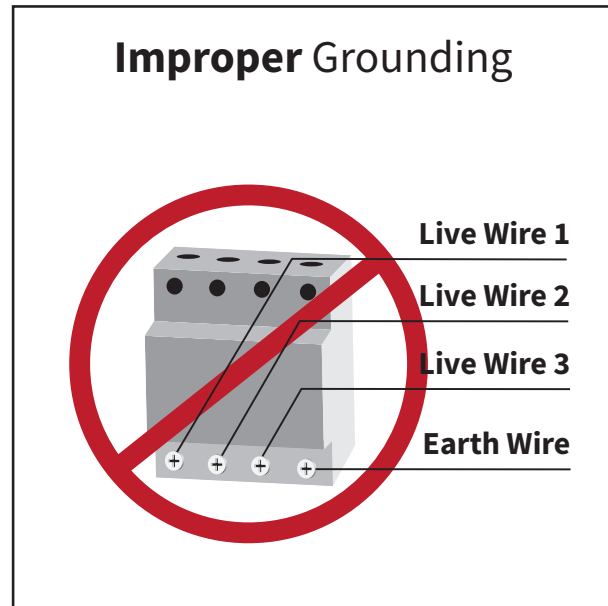
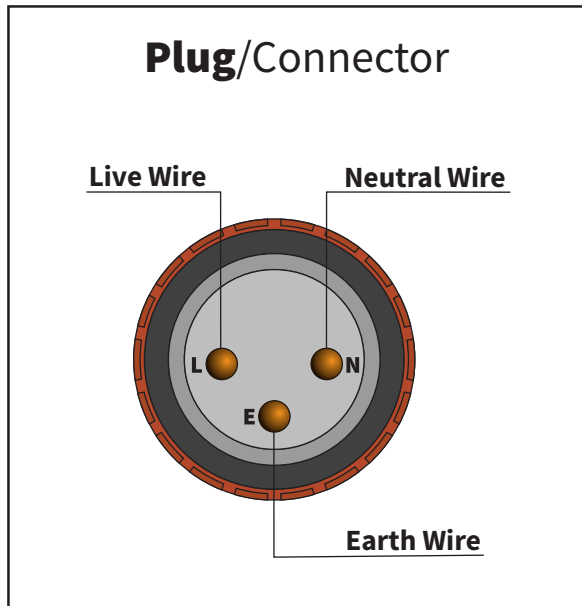


45° to Left

# Wiring & Mechanical Performance

**WARNING:** In order to ensure the proper function of this machine and avoid injury or damage, please follow user's safety instructions carefully and wire machine correctly as exemplified below:

1. Select a certified six-square, three-core power cable (acceptable by national standards) and make sure devices water components are sealed and water-tight for operator's safety.
2. Check integrity of wiring insulation before usage; Operator must wear protective water proof shoes; Ensure machine is grounded before usage; Check for any short or open circuits. Also check whether the fixing bolt of the connecting end is tightened, and ensure that both the machine and power sources output voltage match.
3. Connect lines L1, L2, L3 (Note: L1, L2, L3, commonly known as live wires) insulation casing
4. Re-check after wiring is finished, to ensure electric leakage protection device is normal, and to avoid short circuit caused by improper wiring or equipment damage



# Operating Features

1. Check machine prior to operation, verify all electric components, controls and switch knob are dry and in working condition.
2. Select either dry or wet-grinding mode listed on control head.
  - a. For Dry-grinding ensure water-tank is empty while machine is in use, and connect an industrial HEPA vacuum for dust-free grinding.
  - b. For Wet-grinding, fill water-tank with clean water, do not over-fill so as to prevent short-circuiting the electric components when tilting machine to replace metals.
3. Installing/Replacing diamond tools.
  - a. Select abrasive tools according to machine head and procedures. Install abrasive tools correctly to avoid abrasive tools from separating from abrasive fixing part and hurt human or other things during its operation. When use metal tools, choose magnetic connection abrasive tools, make sure tools enter into magnetic disc; when choose screw connection abrasive tools, make sure tighten nut; when choose Velcro type, make sure correct abrasive connection.
4. Tilt machine before installing/replacing diamond tools, support rubber touch the ground, adjust the operation switch to lock it into position, push down and lock emergency stop knob. Replace different connection modes according to specific diamond tools. Clean any dirt off magnets before installing magnetic disc; make sure velcro faces up when installing velcro adapters.



Ensure grinding plate's magnetic connection surface is thoroughly clean.



Ensure EMERGENCY-STOP button and Left/Right switches are both on locked positions prior to installing/replacing metal components.

# Operating Features Continued

We suggest using XTREME POLISHING SYSTEMS metals and resins for the most accurate edge-grinding and polishing results.

EDDIE THE EDGER not only deals with edges and angles, but it is also suitable for construction in small areas and single head floor grinder like garages.

Use EDDIE THE EDGER with XTREME POLISHING SYSTEMS polishing-pads for the best finish polishing treatment.

We suggest using XTREME POLISHING SYSTEMS metals & resins for accurately grinding and polishing concrete surfaces.

## EDGE GRINDING:

For edge-grinding accuracy adjust machine to 45° angle and make sure machine is being operated with guiding wheels close to walls.

## SMALL AREAS:

Adjust machines head vertically or horizontally for small construction projects.

Use a conversion-pad to attach pads to grinding plates with polishing conversion pad, you could install polishing pad onto grinding plate for polishing treatment



## Compatible Tools



**Velcro backed  
Resin Pads**



**Velcro backed  
Adapters**



**Velcro backed  
Transitional Pads**



**Edgemet  
Trapezoids**



# Troubleshooting

Trouble No.	Problem	Description	Solution
01	Start/stop malfunction	<ol style="list-style-type: none"> <li>1. Wrong/improper power cable connection</li> <li>2. Wrong/improper voltage output</li> <li>3. Broken direction switch</li> <li>4. Broken speed-control switch</li> <li>5. Broken emergency-stop switch</li> <li>6. Broken inverter</li> <li>7. Broken motor</li> </ol>	<ol style="list-style-type: none"> <li>1. Verify power cable is properly installed/firmly attached</li> <li>2. Verify machine voltage matches power supply</li> <li>3. Repair/replace broken direction switch</li> <li>4. Repair/replace broken speed-control switch</li> <li>5. Repair/replace broken emergency-stop switch</li> <li>6. Repair/replace inverter</li> <li>7. Repair/replace motor</li> </ol>
02	Frequency adjustment malfunction	<ol style="list-style-type: none"> <li>1. Inverter parameters setup error</li> <li>2. Broken speed-control meter</li> <li>3. Control power cable short/open circuit</li> </ol>	<ol style="list-style-type: none"> <li>1. Reset inverter parameters</li> <li>2. Repair/replace speed-control meter</li> <li>3. Repair/replace control power cable</li> </ol>
03	Operation Noise	<ol style="list-style-type: none"> <li>1. Broken rubber cushion, results in grinding head/plates touching one another</li> <li>2. Insufficient lubricant</li> <li>3. Broken bearing</li> <li>4. Broken drive shaft</li> </ol>	<ol style="list-style-type: none"> <li>1. Re-attach/replace rubber cushion</li> <li>2. Add lubricant</li> <li>3. Repair/replace bearing</li> <li>4. Repair/replace drive shaft</li> </ol>
04	Operation derailing	<ol style="list-style-type: none"> <li>1. Unaligned wheels and grinding plates</li> <li>2. Unleveled concrete surface</li> <li>3. Wrong or different height diamond tools</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust bolts/wheels to ensure the move wheel keep the same force on the same flat surface</li> <li>2. Adjust grinding plates to ensure they're leveled on the concrete surface</li> <li>3. Replace Diamond tools to match height specification requirements</li> </ol>
05	Operation shaking	<ol style="list-style-type: none"> <li>1. Wheels and grinding plates not alligned</li> <li>2. Grinding plates unleveled on concrete surface</li> <li>3. Wrong or different height diamond tools</li> <li>4. Loose gear box</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust bolts/wheels to ensure the move wheel keep the same force on the same flat surface</li> <li>2. Adjust grinding plates to ensure they're leveled on the concrete surface</li> <li>3. Replace Diamond tools to match height specification requirements</li> <li>4. Tighten gear box bolts to maintain steady operation</li> </ol>

# Troubleshooting

Trouble No.	Problem	Description	Solution
06	LED data malfunction	1. Broken LED/digital screen	1. Verify/test LED/digital screen 2. Repair/replace LED/digital screen
07	Adjustable head-pressure motor malfunction	1. Faulty power supply 2. Improper line connection 3. Broken open switch 4. Broken adjustable head-pressure motor	1. Verify/test power supply 2. Verify power cable is properly installed/firmly attached 3. Repair/replace power cable 4. Repair/replace adjustable head-pressure switch 5. Repair/replace adjustable head-pressure motor 6. Disassemble adjustable bracket, manually reset it to original factory setting
08	Diamond tools falling off	1. Diamond tools do not fit 2. Magnetic tools do not fit 3. Old velcro adapters/tools 4. Uneven/unleveled concrete surface	1. Verify/replace diamond tools 2. Verify/replace magnetic tools 3. Verify/replace velcro adapters/tools 4. Reduce rotation speed
09	Electric shock	1. Wrong line connection 2. Wet/damp electric box 3. Wet/damp motor 4. Unprotected electric box	1. Verify ground wire is properly installed/firmly attached 2. Replace ground wire if necessary 3. Maintain electric box dry 4. Maintain motor dry 5. Contact XPS equipment division repair shop
10	Not collecting/retaining dust properly	1. Broken dust collecting pump 2. Broken dust shroud 3. Improperly installed dust shroud	1. Replace dust collecting pump 2. Replace or properly install dust shroud

# Troubleshooting

Trouble No.	Problem	Description	Solution
11	Grinding plate drive shaft oil leak	<ol style="list-style-type: none"><li>1. Broken bearing</li><li>2. Broken/old gasket</li><li>3. Debris in drive shaft</li></ol>	<ol style="list-style-type: none"><li>1. Repair/replace bearing</li><li>2. Repair/replace gasket</li><li>3. Ensure regular/proper maintenance</li><li>4. Repair/replace damaged parts</li></ol>
12	Motor over-heating	<ol style="list-style-type: none"><li>1. Input voltage unstable</li><li>2. Improperly installed power cable</li><li>3. Loose wires</li></ol>	<ol style="list-style-type: none"><li>1. Adjust/stabilize power supply</li><li>2. Verify/replace for correct power cable</li><li>3. Verify/tighten wire terminals properly</li></ol>
13	Emergency-stop switch malfunction	<ol style="list-style-type: none"><li>1. Broken emergency-stop switch</li><li>2. Operation control short/open circuit</li></ol>	<ol style="list-style-type: none"><li>1. Repair/Replace emergency-stop switch</li><li>2. Repair/Replace operation control connector</li></ol>
14	Power supply indicator light malfunction	<ol style="list-style-type: none"><li>1. Broken indicator light</li><li>2. Loose wire connections</li><li>3. Unstable input voltage</li></ol>	<ol style="list-style-type: none"><li>1. Repair/replace indicator light</li><li>2. Verify/tighten wire terminals properly</li><li>3. Stabilize voltage</li></ol>
15	Indicator light malfunction	<ol style="list-style-type: none"><li>1. Broken indicator light</li><li>2. Broken indicator light switch</li></ol>	<ol style="list-style-type: none"><li>1. Repair/replace indicator light</li><li>2. Repair/replace indicator light switch</li></ol>

**For BEST performance use only  
enuine XPS magnetic plates, metals & traps.**



Xtreme Polishing Systems  
Equipment Division

2200 NW 32 St. Suite 700  
Pompano Beach, FL 33069 (USA)  
(800) 659-5843  
[www.xtremepolishingsystems.com](http://www.xtremepolishingsystems.com)