

## OPERATING TIPS

By changing to the appropriate disc/lap, your machine can serve as a rougher, finisher or polisher. Your machine has been designed to use a variety of Crystalite products depending on your individual technique or desired results. It will accept discs/laps with either a 1/2" arbor hole or 1/4 - 20 screwback mount.

### Companion Kit

1. Use the 8" - 180 diamond mesh Dot Disc™ (screwback) for roughing. The screwback design allows you to work with the full face of the disc and will handle larger work pieces.
2. Three 8" Master Laps™ (screwback) have been included and are the foundation of your grinding/polishing system.
3. Use the 600 mesh diamond Miracle Lap™ to remove grinding marks. Miracle Laps™ are fully charged with diamond and can be used with water.
4. Next use 14,000 Diamond Compound with either the white Crystalpad™ (preferred) or the Polypad™. Be sure to charge the pad and use Crystalube™ extender fluid to lubricate your pad. **DO NOT USE WATER.**
5. For final polish use 50,000 diamond compound on the Polypad™ with Crystalube™. **DO NOT USE WATER.**
6. For a soft, flexible polishing action during this last step, the 8" PSA backed foam pad can be mounted on the Master Lap™. Then mount either the Crystalpad™ or the Polypad™ on the foam pad.



CrystalMaster™ 8 shown with optional Companion Kit

## 1 YEAR WARRANTY

### WHAT WE WILL DO

This warranty is extended by CRYSTALITE CORPORATION to the original purchaser and to any succeeding owner. If your CrystalMaster™ 8 machine fails for any reason (other than abuse or misuse) within 1 year from the date of invoice, we will repair the product without charge for parts or labor.

### HOW TO OBTAIN SERVICE

If you have any problem with your CrystalMaster™ 8 machine, call the

CRYSTALITE CORPORATION for a return authorization number. Pack the machine carefully and return it postpaid to CRYSTALITE. We will repair your machine as quickly as possible and return it to you postpaid. To validate your warranty, please complete and return your warranty card.

### WHAT IS NOT COVERED

This warranty does not cover wear of diamond discs or laps.

# CrystalMaster™ 8

## INSTRUCTION MANUAL

For Models C5505050 (115V) C5505250 (220/230V)

### IMPORTANT SAFETY INSTRUCTIONS READ ALL INSTRUCTIONS

#### FOR PERSONAL SAFETY THIS MACHINE MUST BE PROPERLY GROUNDED

The power cord of this machine is equipped with a three-prong (grounding) plug which mates with a standard three-prong (grounding) wall receptacle to minimize the possibility of electrical shock hazard. Where a standard two-prong wall receptacle is encountered, it is the personal responsibility and obligation of the customer to have it replaced with a properly grounded three-prong wall receptacle.

**DO NOT, UNDER ANY CIRCUMSTANCES, CUT OR REMOVE THE THIRD (GROUND) PRONG FROM THE POWER CORD. INTERNATIONAL VOLTAGE PLUG AND RECEPTACLE WILL VARY.**

Always unplug your machine before cleaning or making any repairs. (NOTE: We strongly recommend that you return the unit to the factory for repair.) **USE ONLY IDENTICAL REPLACEMENT PARTS TO REPAIR THIS MACHINE. CALL CRYSTALITE FOR ORDERING INFORMATION.**

SAVE THESE INSTRUCTIONS



**CRYSTALITE CORPORATION**

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## Model No. C5505050 (115v):

1. One CrystalMaster™ 8 Machine
2. 6 ft. - 1/4" tubing for the optional submersible pump
3. One white rubber splash guard
4. One white machine wheel cover
5. 8 ft. - 5/8" ID, 1" diameter drain hose (attached)
6. One flexible water spout with variable water control (attached)
7. One disc changing wrench (for screwback discs)
8. One 1/4"-20 thread wheel mounting knob for 1/2" arbor discs
9. One ferrite magnetic strip
10. An instruction manual and warranty card

## Model No. C5505250 (220/230v):

This machine includes the same items as the 115V machine, but has been modified for 220/230 voltage requirements. For international orders please specify the country this machine will be used in. We will provide that country's plug for both the 220/230v machine and the optional 220/230V submersible pump.

## OPTIONAL:

### Companion Kit:

- a. One C5304200 8" - 180 mesh Dot Disc™ (screwback)
- b. Three C5310270 8" Master Lap™ (screwback)
- c. One C5311650 8" - 600 mesh Miracle Lap™ (diamond)
- d. One C5400350 8" Crystalpad™ - white
- e. One C5400550 8" Polypad™
- f. One C5401930 8" Foam Pad
- g. One C5410230 2 gram - 50,000 mesh diamond compound
- h. One C5410250 2 gram - 14,000 mesh diamond compound
- i. One C5423010 2 dram, Crystalube™

### Submersible Pump

Model No. C5510110 (115v)

Model No. C5510130 (220/230v)

# ABOUT YOUR MACHINE

1. Your machine comes completely assembled and includes: a flexible water spout, electrical cords and a drain hose. The flexible water spout is equipped for either a direct water line or a line feed from the optional submersible pump.



1b. **Water fitting** (Optional submersible pump or direct water line)

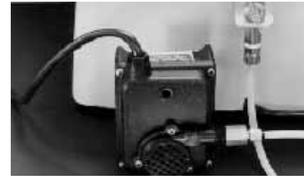


1c. **Variable water control**



1a. **Flexible water spout**

You can change the direction of the coolant flow by adjusting the flexible spout. However, for optimum results, we recommend that the coolant be directed to the center of the disc.



1d. **Optional pump assembly**

Place the pump in a water source (pail of water). Tighten the nut securely with wrench.

2. Your machine will accept discs/laps with a 1/2" arbor or with a 1/4 - 20 thread screwback mount.



2a. **Mounting 1/2" arbor discs/laps**

Place the wheel on the motor mount, inserting the wrench between the wheel and the motor. Fasten the wheel securely with the mounting nut.



2c. **Mounting 1/4 - 20 thread screwback discs/laps**

Lightly screw the disc/lap into the motor mount. Insert the wrench between the disc and the motor mount and hand tighten the wheel.

3. When not in use, the wrench can be mounted on the side of the machine with the included ferrite magnetic strip.



4. **White rubber splash guard**

Press the rubber splash guard firmly into place. Remove it when cleaning your machine or when changing discs. During operation, the splash guard will help keep the water spray from the wheel to a minimum.



5. **Drain**

Your machine is built with a special coolant collecting reservoir which contains a drain hole. An 8 ft. drain hose is attached to this drain. Place the other end of the hose in a bucket, pan or other water disposal device.

SPECIAL NOTE: Be sure to use Crystal Cut rust inhibitor in your coolant supply. This will aid in reducing swarf and help your machine and discs run rust free.



6. **Variable Speed Controller**



7. **On/Off Switch**

## 8. Machine Specifications

MODEL NO. 5505050

115 volt  
1/4 HP  
0-2000 RPM variable speed  
50/60 Hz power consumption  
2.0 amps  
115 volt pump

MODEL NO. 5505250

220/230 volt  
1/4 HP  
0-2000 RPM variable speed  
50/60 Hz power consumption  
1.0 amps  
220/230 volt pump

Dimensions 12"W x 12"L x 7 1/2"H  
Shipping Weight: 34 lbs  
Companion Kit: 7 lbs