



Domaille Engineering Inc.

Field Polishing Machine Operating Manual

DOMAILLE ENGINEERING, INC.
7100 DRESSER DRIVE NE
ROCHESTER, MN 55906
507.281.0275 PHONE 507.281.5694 FAX



Table of Contents

MACHINE OPERATION.....	1
POLISHING CYCLE.....	1
TRANSPORTATION AND STORAGE	1
INSTALLATION & REMOVAL OF POLISHING FIXTURES	1
FIELD POLISHING MACHINE MAINTENANCE.....	2
Daily or more often as required:.....	2
Monthly:	2
MAINTENANCE REQUIREMENTS ON POLISHING FIXTURES	3
PRECAUTIONS.....	3
SERVICE & SUPPORT	3



Machine Operation

Observe all precautions listed in this operating manual before and during operation of the Field Polishing Machine.

- To power up the Field Polishing Machine, verify that the circuit breaker built into the power cord is set and turn the power switch located on the rear of the machine to the ON position.
- The Field Polishing Machine is capable of operating between air temperatures at 5°C and 40°C.
- The Field Polishing Machine is capable of operating at a maximum altitude of 1000M above sea level.
- Noise emitted by the Field Polishing Machine is less than 70.0 dBA.

Polishing Cycle

- To start the polishing cycle, press the green START switch firmly. The platen will begin to rotate. The polishing cycle will stop after the time set on the timer has elapsed.
- To begin another polishing cycle using the same timer setting, press the green switch once.
- To interrupt a cycle, press and release the RESET button.

Transportation and Storage

- The Field Polishing Machine must be transported in its original shipping container.

Prior to storing the Field Polishing Machine, perform daily and monthly machine maintenance in accordance with this operating manual. Store the Field Polishing Machine in its original shipping container.

Installation & Removal of Polishing Fixtures

- Load the connectors into the polishing fixture.
- Move the pressure adjustment slider to the “A” position. Unlock the overarm by pressing the overarm release and raise it to its upright position. Slide the plate onto the alignment post, aligning the keys on the overarm with the slots in the plate. Route cables over the



cable holder. Holding the fixture with one hand, lower overarm to its operating position, ensuring overarm lock has been engaged.

NOTE: The pressure adjustment should be on “A” during loading and unloading the fixture and while lowering or raising the overarm.

- To remove the polishing fixture, reverse the installation steps above. Be sure to hold the fixture securely with one hand when raising the overarm.

Field Polishing Machine Maintenance

Daily or more often as required:

- Clean top of platen, clean overarm rest pad and bottom of overarm. The accuracy of this machine is dependent on keeping these areas clean. Clean all residue, water and slurry from entire top of machine and from front control panel. Try not to get any contamination in timers and switches on control panel.

Monthly:

The platen should be removed and regreased at least once a month. If the machine is heavily used, more frequent regreasing is required. ***Do not use any tools (prybars, screwdrivers, etc.) to remove platen.*** The plastic wear ring under the platen will be damaged if any hard objects are pushed under the platen.

- Disconnect from power before servicing platen. The platen can be removed by placing your fingers around the outside of the platen and pulling straight up.
- After the platen is removed, clean all of the old grease and contamination from the bottom of the platen and from the plastic wear ring. Clean with alcohol and tissue so that surfaces are perfectly clean.
- Fill holes in wear ring with grease and put a small bead of grease between holes in wear ring*.
- Reinstall platen by lining up all the eccentric arms so they are pointing in the same direction.
- Get to eye level with the top of machine and place platen on top of pins in eccentric arms.
- Line up pins with holes in bearings in bottom of platen. When they are all lined up, platen will slide on pins about half way.
- Check to see that platen is level and push it straight down to seat platen on wear ring. Machine should now be ready for operation.

* Use Super Lube from Permatex Industrial Corporation, Item #82325.



Maintenance Requirements on Polishing Fixtures

- The polishing fixtures are made of stainless steel; however, it is recommended that all traces of water and slurry be removed after use.
- Care must be taken to protect the polishing fixtures from damage caused by accidental contact with hard objects.

Precautions

For safe operation of the Field Polishing Machine, please observe the following:

- Keep hands, jewelry, and loose clothing away from the rotating platen while the machine is in operation.
- Keep all surfaces of the machine clean and dry at all times.
- Do not attempt to service the machine. There are no user-serviceable parts inside. Contact Domaille Engineering, Inc. if service is required.

Service & Support

For service or support, please contact:

*Domaille Engineering, Inc.
7100 Dresser Drive NE
Rochester, MN 55906
(507) 281-0275*