

Instruction Manual
for
ULTRAMAX[®]
UM-1200
Ultrasonic Polishing System



Gesswein[®]
The Right Tools

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Gesswein[®]

UM-1200 Ultrasonic Polishing System

In order to operate this system correctly and maximize performance, please read the following instructions carefully before using.

Features:

- Maximum output of 36W, two-level selection (high and low)
- Compact, lightweight power pack
- Extended-use capability
- Auto-feedback system
- Power-suspending system
- Ergonomic handpiece
- Easy-to-change tools and tool holders

Specifications:

Power Pack

Power Output	36W
Vibration Frequency	18~25kHz
Stroke Amplitude	10~35µm
Frequency Adjustment	Automatic feedback system
Power Supply	90~240V, 50/60Hz
Power Consumption	46W
Output Level	Two-level
Dimensions	7½"W x 5½"D x 3½"H
Net Wt.	1 lb., 9 oz.

Handpiece

Cord Length	59" (straight)
Screw Thread	8mm
Dimensions	5"L x 1 ³ / ₁₆ " dia., tapering to ³ / ₄ " dia.
Net Wt.	6.5 oz.

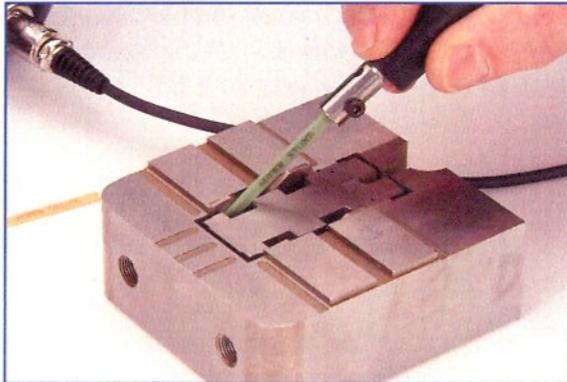
Operating Instructions:

1. Make sure that the power pack On/Off switch is in the "Off" position.
2. Mount tool (i.e., diamond file, ceramic stone) in the appropriate tool holder, using the Hex Key to tighten it. Connect the tool holder to the handpiece using the **Bench Jig**. Connect the handpiece cord to the handpiece and then to the power pack.
3. Connect the On/Off foot switch to the power pack. Flip the power pack On/Off switch to the "On" position, and the power tracing light will flash red until the foot switch is fully depressed.
4. When the foot switch is depressed, the power pack traces output and checks the tool in the handpiece, and the power tracing light turns solid red to signal that resonance frequency is set and the system is ready to use.
5. Removing your foot from the switch shuts the handpiece off and causes the power tracing light to flash. With your foot off the switch, you are sending no power to the handpiece, so it stays cool over the course of polishing.

Important Notes:

1. Make sure that the power pack On/Off switch is in the "Off" position before changing tools or tool holders.
2. **When changing a tool or tool holder, you must use the Bench Jig to avoid damaging the handpiece transducer wires. Please follow these steps:**
 - a) **Turn and take off the front body cover of the handpiece.**
 - b) **Secure the handpiece in a Bench Jig slot, then use the spanner to change the tool holder. Use the Hex Key to tighten or change a tool in the tool holder.**
3. If the power tracing light keeps flashing, try the following:
 - a) Make sure that the tool is firmly mounted in the tool holder.
 - b) Check that there is no dust or foreign matter between the handpiece and tool holder.
 - c) Inspect the handpiece, handpiece cord and tool holder for excessive wear or damage.

4. Please spend some time to experiment and learn which tool is best suited for each job and which tool side yields optimal results.
5. Occasionally, worn-out tools or tools not up to minimal quality standards can impede proper output tracing of the power pack. Replace tools as needed.
6. Keep the system away from oil and moisture.
7. Under hard working conditions or following extended use, the power indicator light might start flickering. Switch off the power pack for a short while before starting again.
8. Do not try to repair or disassemble any part of the system. Please return the system to your supplier if it is still not working after following the above steps.



Components:

1. Power Pack
2. Power Pack AC Cord
3. Ultrasonic Handpiece
4. Handpiece Cord
5. Handpiece Cradle Rest
6. On/Off Foot Switch
7. Insert Tools
8. Two ø3mm Tool Holders
9. 1.1mm Tool Holder
10. Bench Jig
11. Spanner
12. Hex Key
13. 2.0A Fuse

