

engler
engineering
corporation



Tri-Mate Scaler, Polisher & Electrosurgery

TRI-MATE SCALER, POLISHER AND GENERAL PURPOSE ELECTROSURGERY UNIT (3 UNITS IN ONE)

Engler Engineering Corp. now offers a 3 in one unit the offers a high quality, high powered, fully automated scaler, polisher and General Purpose Electrosurgery unit. With the Tri-mate we have merged the quality and efficiency of our Son-Mate with a solid state general purpose electrosurgery option which converts the low frequency of 60 Hz to a high frequency of 1.2 MHZ.

The scaler portion is equipped with:

- Scaler handpiece
- Stack (transducer inserted in the handpiece)
- 4 Assorted tips (2M1, 2M4)
- Tip wrench
- Waterline with male quick disconnect attached
- Installed inline water filter
- Power cord grounded for safety

Polishing Mode:

- 35,000 RPM Micromotor with variable speed, precision balanced for low vibration/low noise. 200- 35,000 RPM
- High Torque
- Forward/Reverse Switch
- Straight Hanpiece, user friendly, autoclavable
- Prophy Angle for snap on rubber cups, autoclavable
- Starter Kit with 10 rubber cups and 10 Prophy paste cups
- Rubber rest for handpiece

The power variation for both Scaler/Polisher is located on the front panel

The Electro-surgery section comes complete with 4 general purpose electrodes. These electrodes push-fit into the end of the handpiece. AS the unit is fully automated, no grounding plate is necessary, the operator substitutes for the grounding plate and there for must be in contact with the patient for it to work.

- The poser control for the electrosurgery section is located on the front panel. The setting for cut is normally around No. 5 and for coagulation the setting is turned down to No. 1 or 2. Also on the front panel, there is a visual warning light when in operation, in addition to the audio warning.
- Again on the front panel, you will find the selection control for all the units sections and a reverse point for the Micro-motor
- The one foot switch operates all 3 sections.

TECHNICAL DATA:

I. SCALER:

Input Voltage:	120	OR	240 VAC
Input Frequency:	50/60 Hz.		50/60 Hz.
Current:	1.2A		0.6 A
Transducer Style:	Magnetostrictive		
Operating Frequency:	17,000-19,000 Hz.		
Ultrasonic Generator Data-	Auto-Tuned Feedback Oscillator Variable Amplitude Power Control Pulse Modulation Output		

II. WATER:

Input Pressure:	30 PSI (min.) 60 PSI (max)
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III. POLISHER:

Power Control:	Variable Voltage Style
Output Voltage:	3 - 24 VDC
Output Current:	5 Amperes (max)

IV. MICROMOTOR:

Velocity Range:	200 - 35,000 RPM
Style:	Sealed Bearing
Brush Design:	Fully Replaceable Brushes

V. STRAIGHT HANDPIECE:

Maximum Drive Velocity:	35,000 RPM
Style:	Sealed Bearing, Twist Lock Collet

VI. ELECTROSURGERY:

Monopolar operation only	
Frequency:	1.2 MHz. Approximate
Voltage:	175 – 400 VAC

VII: PROPHY ANGLE:

Recommended Drive Velocity:	5,000 - 6,000 RPM
Type:	Sealed Bearing/Open Bushing

VII. DIMENSIONS:

CHASSIS:	
Length:	12.5 in. (32 cm)
Width:	8.25 in. (21 cm)
Height:	3.10 in. (8 cm)

VIII. ACCESSORIES:

Handpiece Cable:	96 in. (244 cm)
Footswitch Cable:	96 in. (244 cm)
Power Cord:	72 in. (183 cm)
Water Line:	96 in. (244 cm)

NET WEIGHT:	10 Lbs. (4.5 Kg.)
SHIPPING WEIGHT:	12 Lbs. (5.5 Kg.)

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