

## Piezo Tip Shapes

EP1- Piezo Universal



EP6- Piezo Broad Spatula



EP4- Piezo Flat Long Perio



EP9- Piezo Fine Subgingival Perio



Piezo-Mate scaler circuitry uses integrated computer technology along with our Time Remote Feedback Circuitry. This combination produces a powerful and potent tool against periodontal disease. A reinforced solid aluminum chassis surrounds the internal circuit board, providing a very durable and reliable unit.

The dental piezo scaler utilizes an ultrasonic principle of operation. The internal circuitry converts ordinary line voltage to an operating frequency of approximately 30,000 Hz. This frequency is then amplified and delivered to the scaling tip. As a result, the tip vibrates at this ultrasonic frequency with an amplitude of 0.001 to 0.004 in. (25.4 um to 102 um).

In designing our unique Engler interchangeable piezo tips, water flows internally through the tip as it vibrates. As the bubbles in the lavage are bactericidal, the energy released collapses and destroys the bacterial cell walls. The water flowing internally through the tip, effectively cools the area and assists in removing any debris from the operative site.

The E-Type Micromotor is capable of speeds up to 35,000 RPM, for use in cutting, sectioning and drilling. It contains sealed bearings and does not require any lubrication. The Micromotor has cooling vents at the back of the unit

This device is equipped with a digital readout that provides an indication of the power setting.

## PIEZO-MATE™ SCALER POLISHER COMBINATION

Engler has incorporated the State of the Art microchip circuitry into a new highly efficient multi operational unit, the Piezo-Mate. At the touch of the switch you can alternate from scaling to polishing plus a variety of other operations. Piezo-Mate is autotuned. By constantly scanning and compensating, the oscillation is maintained at optimum frequency when pressure is applied to the tip, eliminating even partial loss of power. You can perform curettage, deep scaling of heavy calculus and stains and conclude the prophylaxis treatment to polish and smooth the teeth all in one operation.

There are 8 different tips available for the Piezo-Mate. Our stainless steel, heat treated tips glide smoothly across the tooth surface. The WATER FLOWS INTERNALLY THROUGH THE TIP - DIRECTLY TO THE OPERATIVE SITE, gently cooling and lubricating the tooth and washing away the dislodged debris.

At the touch of the foot control, the tip is powered instantly without stalling. Even after the foot control is released, the scaler's delayed cavitation feature disperses the excess water into a fine mist, thereby eliminating annoying "after drip".

The high speed (35,000 RPM) and torque of the micromotor is used for cutting, drilling, sectioning, and many other procedures, lower speed polishing completes the dental prophylaxis.

### Scaler:

- Autoclavable scaler handpiece
- Handpiece with LED light with light guide also available
- 3 Assorted Tips
- Tip wrench
- Water line with inline water filter and quick disconnect attached
- One foot control for both scaling and polishing mode

### Polisher:

- 200 to 35,000 RPM variable speed micromotor, precision balanced for low vibration / low noise
- High torque micromotor
- Forward / reverse switch
- Straight handpiece, user friendly, autoclavable
- Prophy angle with snap on rubber cups, autoclavable
- Starter kit with 10 rubber cups and 10 prophy paste cups
- Rubber rest for micromotor

### Micromotor options:

- Reduction Handpieces
- Friction Grip and Latch Type Contra Angles fit micromotor or straight handpieces
- Diamond (7) and Carbide(6) bur kits 1.6 mm
- Diamond Cutting Disc with mandrel 2.35 mm

### Water connection options: (one is required):

- Water bottle with female quick disconnect
- Saddle valve with female quick disconnect
- Faucet diverter with female quick disconnect

### Technical Data:

Water input pressure: 30-60 PSI (2-5 Bar)

Power Supply: 110 or 220 VAC 50 / 60 Hz

Operating Frequency: 27,500- 31,000 Hz, for scaling mode, Autotuned.

Dimensions: Width 7 ½", Length 9 ½", Height 3 ¼" / 19.0 cm x 24.1 cm x 8.3 cm

Net Weight: 9 ¾ Lbs / 4.4 Kg.

Shipping Weight: 11 Lbs / 4.93 Kg.



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