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engineering  
corporation



Son-Mate Scaler/Polisher Combination

# SON-MATE™ SCALER/POLISHER COMBINATION

We have incorporated the State of the Art microchip circuitry into a new highly efficient multi operational unit, the SON-MATE, where at the touch of the switch you alternate from scaling to polishing plus a variety of other operations. SON-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 9 different tips available for the Son-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 chevron shaped Transducer (Stack) surges power to the tip 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 the annoying "after drip". The stack remains in the handpiece shell, the tips are inserted into the nose cone turning it clockwise, tightened lightly but firmly. With this method the tips are interchangeable, which is much more economical, as you do NOT have to purchase the entire tip / insert combination. Recommended sterilization is Steam Autoclave or Chemiclave.

The high speed and torque of the micromotor is used for cutting, drilling, sectioning, and many other procedures, lower speed for polishing to complete the dental prophylaxis.

Optional available: Reduction Handpieces, Friction Grip and Latch Contra Angles to slide on to micromotor or straight H.P., Diamond and Carbide burs 1.6 mm, Diamond Cutting Disc with mandrel 2.35 mm.

## **Son-Mate™ comes equipped in the scaling mode:**

- Scaler handpiece
- Stack (Transducer) inserted in the handpiece
- 4 Assorted Tips
- Tip wrench
- Water line with inline water filter and quick disconnect attached
- One foot control for both scaling and polishing mode.

## **Polishing Mode:**

- 35,000 RPM Micromotor with variable speed, from 200 RPM, precision balanced for low vibration/low noise.
- High Torque Micromotor
- Forward/Reverse switch
- Straight handpiece, user friendly, autoclavable
- Prophy angle for snap on rubber cups, autoclavable
- Starter kit with 10 rubber and 10 prophy paste cups
- Rubber rest for micromotor
- Instruction manual

## **Optionally available:**

Water hookup options available (one is required): water bottle, saddle valve or faucet diverter all 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:	18,000 Hz, for scaling mode, Autotuned.
Dimensions:	Width 7 1/2", Length 9 1/2", Height 3 1/4" 19 cm x 24.1 cm x 8.3 cm
Net Weight:	9 3/4 Lbs / 4.4 Kg.
Shipping Weight:	11 Lbs / 4.93 Kg.

*We recommend that the ultrasonic dental scaler not be used on patients or by operators fitted with a cardiac pacemaker.*

1099 East 47th Street • Hialeah, Florida 33013 USA

(305) 688-8581 • Fax (305) 685-7671

1 (800) 445-8581

Web: [www.englerusa.com](http://www.englerusa.com)

E-mail: [info@englerusa.com](mailto:info@englerusa.com)



The ADA Council on Scientific Affairs' Acceptance of Engler Engineering is based on its finding that the product is effective for use in scaling and cleaning surfaces of teeth in conjunction with other suitable prophylactic measures.