

The Endo-Apex is the lightest and highly efficient cordless endodontic obturation system

which offers optimum functionality and reliable apical control along with excellent tactile sensing. The Endo-Apex successfully delivers predictable results in vertical condensation and 3 dimensional thermo-plasticized obturation. The 2 most effective individual obturation devices (Friendo, Gutta Easy) are beautifully combined as one convenient package for maximum efficiency: "The Perfect Match".



Ergonomic and user-friendly operation

features

- Maximum Portability with stylish design
- Reduces hand and wrist fatigue and adds more precision
- to hard-to-reach canals The most powerful and rapid heating control mechanism
- Color-coded pen tips are available in various sizes (XF, F, FM, M, ML) for easy recognition

Adjustable 3 temperature settings (Low/Medium/High)

- Convenient and reliable obturation with predictable results

> Speed

advantages

Low = 160°C / Medium = 180°C / High = 200°C

3 temperature settings (Low / Medium / High) :



0°C - 220°C = 0.3 seconds

3 temperature settings (Low / Medium / High):

 $Low = 170^{\circ}C / Medium = 200^{\circ}C / High = 220^{\circ}C$

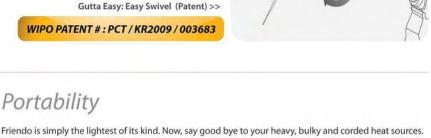


0

of thermo-plasticized back fill obturation.

Gutta Easy: Easy Swivel (Patent) >> WIPO PATENT #: PCT / KR2009 / 003683

'Easy Swivel (patent)' provides better access to hard-to-reach areas and increases precision



1 hour and 45 minutes

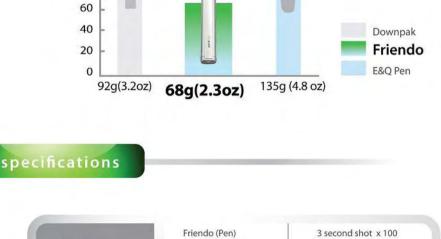
170°C / 200°C / 220°C 160°C / 180°C / 200°C

100 80

> Portability

140 120

Once you get used to this feather weight condensation device, you will never want to go back to them again.



Gutta Easy (Gun)

Gutta Easy (Gun) Friendo (Pen)

Friendo (Pen)





Safety Protector (FE-1003)

Gutta Percha Pellet:

Soft / Medium (GE-1009-S, M)

clinical case study





Friendo Pen Tip: 5 sizes (FE-1004-XF, F, FM, M, ML)

2 default tips: F, FM

Multy Tool (GE-1010)





Friendo Housing Optional (F-1005)

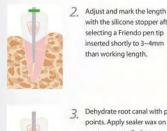
AC Adapter



Gutta Easy Gun Tip: 23G/25G (GE-1004-23, 25)

AC Power Cord (AC-1001)





 Select and fit a master apical cone that is equivalent in size to the taper of the canal being obturated.

with the silicone stopper after

selecting a Friendo pen tip inserted shortly to 3~4mm than working length.



wait for 5 seconds in order to start softening process of obturated gutta percha inside the root canal. 6. Pull the trigger slowly and fill

pressure.



 Dehydrate root canal with paper points. Apply sealer wax on the master cone to 2~4mm, and insert it to the root canal. Then cut the excess over the orifice by using the Friendo pen tip with gutta percha to 3~4mm short of the working length.

4. Harden the melted gutta percha



7. Harden and compact the heated gutta percha with bigger plugger.

the gutta percha up to the root canal. Injection pipe gets pushed away naturally from the area

being treated by back-filling

pipe into the root canal, then



with pre-selected plugger tip. Now apical area and accessory canal are thoroughly filled(1/3) and obturated.



951-276-3225