

One of the goals in endodontic treatment, is that the root canal filling technique achieves a bacteria proof filling. The entire complex root canal system must be accurately filled with a dimensionally stable filling material. This is achieved perfectly by EndoTwinn, a new device for the thermo-plastic root canal filling technique using warm gutta-percha and ultrasonic vibration.

technique gutta percha points are now available in 4% and 6% taper (Progress Gunz).



Vertical warm condensation technique was first

described by Schilder (1967). Comparative studies between vertical and lateral condensation have shown the advantages of a three-dimensional filling of the prepared root canal system. The efficiency and efficacy of the well-known Schilder technique were improved over the years by numerous modifications. The combination of EndoTwinn's various functions and different obturation tips allow perfect three-dimensional sealing of gutta percha in the root canal and optimal results with any obturation technique. Not only is the result the essential apical obturation but also a tight seal of the entire root canal is achieved, through using a combination of heat and vibration.

## Fast, Safe and Always Ready for Use

### Ease of Use

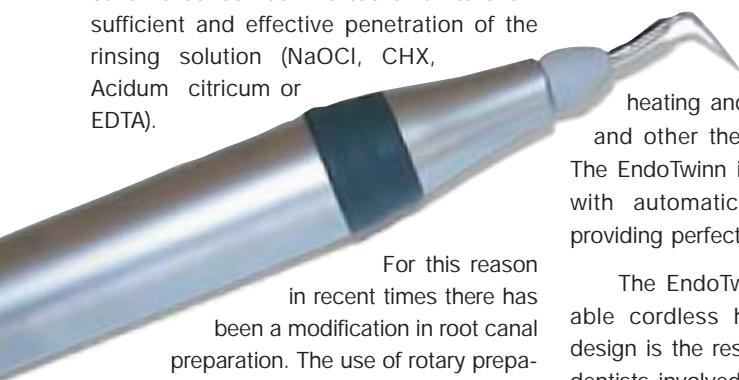
There are 3 modes of use: 1) heat, 2) vibration, 3) heat and vibration. The unit heats up in 2 seconds by pressing and holding the sensor. Endo Twinn is suitable for all obturation techniques. It is recommended to use the different plugger tips for warm vertical condensation, while the heatable spreaders are ideal for lateral condensation. The spoon tips are great for cutting gutta percha points and plastic obturation points (e.g. Thermafil\*\*)

### Safety

As the unit heats up in seconds, there is no need to activate the handpiece until it is in the mouth, brief moment before you are ready to obturate. This will prevent any possible injury to your patient, staff or self. The device has visual and acoustic signals to indicate that it is in actual working mode. In heating up mode there is a constant green light and acoustic signal. At the cooling down stage the green light flashes till it is safe to touch.



The recurring disadvantages in every day practice are the positioning of sufficient auxiliary points in order to have a tight seal, the amount of time needed as well as the restricted range of vision after application of the fine gutta-percha points. Until recently, the root canal was prepared with ISO sized root canal instruments (2% taper). This taper in most cases – as far as the total length of the root canal is concerned – is too small to allow sufficient and effective penetration of the rinsing solution (NaOCl, CHX, Acidum citricum or EDTA).



For this reason in recent times there has been a modification in root canal preparation. The use of rotary preparation with more conical instruments is being more widely used. In our current market tapers up to 6%, 11% (FlexMaster®) VDW or even 19% can be reached at completion of the root canal preparation. The larger preparations have facilitated more efficient penetration of the rinsing solution. The new size and shapes of the canals have made lateral condensation more complex but in order to simplify the lateral condensation

The EndoTwinn is the world's most advanced instrument available for heating and compacting gutta percha and other thermoplastic filling materials. The EndoTwinn is single button controlled with automatic temperature regulation, providing perfect temperature control.

The EndoTwinn system is a rechargeable cordless handpiece. Its ergonomic design is the result of feedback from many dentists involved in the development of the EndoTwinn. The ease of use makes the EndoTwinn a quick starter in your clinic. All functions are operated by the ergonomic sensor ring. The battery charge lasts all day with a Stand-by of 100 hours. This intelligent compact unit detects which of the ten tips is being used and adapts the temperature automatically. It controls and readjusts temperature 30 times per second.

For more information on EndoTwinn, contact Gunz on our toll free number 1800 025 300 or visit [www.endotwinn.com](http://www.endotwinn.com) for latest articles.