

Brasseler USA Endodontic Ultrasonic Tips

Instructions for Use

Function and Uses:

Brasseler USA's ultrasonic tips are manufactured of the finest materials and methods and have been designed to function in most brands of Piezo-Electric type dental ultrasonic power units (M3x0.6 thread). Refer to your ultrasonic power unit owner's manual for further details on the use of these types of devices.

The operator should be aware that diamond coated tips (indicated by "D") are generally more aggressive than non-diamond coated tips and that ultrasonic tips with small diameters are subject to breakage at any time. In order to reduce the incidence of premature breakage or failure, only very light pressure should be applied by the operator, and the suggested intensity settings should be followed.

E4- Intensity Setting – Low to Medium:

The short length and non-diamond coated surface of the E4 makes it ideal for acoustic streaming (agitating the irrigating solution to make it work more efficiently). This tip is also good for removing posts in anterior teeth.

E4D- Intensity Setting – Low to Medium:

The E4D is a short tip which has a unique safe-ended diamond coating. The end of the tip is less aggressive than the rest of the tip surface so it is good for flaring the orifice without gouging the pulpal floor (similar to a H269GK.31.012/.016 AKA Endo Z™ bur).

E5 & E6- Intensity Setting – Low to Medium:

These tips are ideal for lateral condensation. Used with gentle pressure the non-diamond coating surface should not remove dentin.

E7 & E7D- Intensity Setting – Low to Medium:

These moderately tapered tips are good for removing gutta percha and foreign material during retreatment cases (E7) and for canal enlargement (E7D).

E8 & E8D- Intensity Setting – Low to Medium:

The E8 and E8D are longer tips which are useful in removing foreign material during retreatment cases (E8) and for canal enlargement (E8D).

E9 & E9D- Intensity Setting – Low to Medium:

The E9 is good for removing posts in molars and premolars. The E9D is a multifunctional workhorse which is excellent for access preparation enlargement and troughing.

E14D- Intensity Setting – Low to Medium:

The E14D is the same shape as the E4 only it is diamond coated. The greater taper and non-excessive length of this tip make it good for troughing (finding hidden canals) and removing posts in smaller canals.

E15- Intensity Setting – Low to Medium:

Often referred to as the "Ball Tip", the E15 can be used to safely remove a variety of posts retained with various cementing agents. The E15 is activated and placed directly on the post and moved circumferentially around for approximately 10 minutes. If this does not loosen and free the post, then move to an alternate method. If using a post removal system or steiglitz pliers you may place the E15 tip directly on device. This transfers vibration to the post that aids in the post loosening process. This process is called "indirect ultrasonics". **CAUTION! DO NOT PLACE THE E15 DIRECTLY ON A CERAMIC CROWN OR BRIDGE.** The E15 should be placed 2-3mm above the metal margin to vibrate it loose. It may cause severe damage to the prosthesis if placed directly on ceramics.

E15D- Intensity Setting – Low to Medium:

The shank of E15D is similar to the E4 or E14D but the head/tip design is that of a round bur (slightly smaller than a #2 round bur (.095)). It is great for troughing and pulp stone removal.

E16D- Intensity Setting – Low to Medium:

The E16D is an all-purpose, tapered instrument used primarily within the pulp chamber. The E16D is used for eliminating pulp stones, removing dentin, trephine around obstructions within the pulp chamber and locating hidden orifices, such as MB2 systems. The E16D can also be used to safely and efficiently remove restorative materials and amalgams, and is capable of eliminating materials extending below the orifice.

E17D, E18D & E19D – Intensity Setting – Low:

Due to their small cross sectional diameters and lengths, these tips must be used with a very low power setting. It is not necessary to apply force to the instruments as the diamond coating will aggressively remove dentin and debris along the lateral sides of the tips. These tips should be used in the coronal, middle and apical one-thirds of roots. Each instrument gets progressively smaller in the cross-sectional diameter and longer in overall length. The three sizes allow the clinician greater control as the instruments are selected according to safe access and depth of the procedure. Uses include: Trephine around posts, chasing calcified canals, eliminating brick-hard paste-type material, broken instrument removal, and other intra-canal obstructions.

E20, E21 & E22 – Intensity Setting – Low:

Due to their small cross sectional diameters and lengths, these tips must be used with a very low power setting. The instruments are made of titanium alloy, not NiTi. They will hold a bend if applied forcefully. The titanium alloy results in a smoother cutting action with less chatter, thereby increasing tactile sense. They are generally used in the mid and apical portion of the root with illumination and magnification. These instruments are end cutting only and are commonly used to ditch around broken files, aiding in their removal.

continued on reverse...



Symbol	Description
	See Instructions for use
	Steam Sterilize at the temperature indicated
	Lot controlled item

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B.E.S.T.:

Brasseler Endodontic Surgery Tips

BEST-1D:

Angled 80° at the working end, with a 0.5mm diameter x 3.0mm cutting surface. Designed as a general purpose tip for anterior and posterior areas.

BEST-2D:

Similar to the Best-1D, with a 0.7mm diameter x 3.0mm cutting surface for larger diameter roots.

BEST-3D:

A double angled, 75° instrument designed for use on the buccal root of the mandibular right molar and mesial buccal of the maxillary left molar. 0.5mm diameter x 3.0mm cutting surface.

BEST-4D:

A double angled, 110° instrument designed for use on the lingual root of the mandibular left molar and distal buccal of the maxillary right molar. 0.5mm diameter x 3.0mm cutting surface.

BEST-5D:

A mirror image of the Best-3D, for use on the buccal roots of the mandibular left molar and mesial buccal of the maxillary right molar. 0.5mm diameter x 3.0mm cutting surface.

BEST-6D:

A mirror image of the Best-4D, for use on lingual roots of the mandibular right molar and distal buccal of the maxillary left molar. 0.5mm diameter x 3.0mm cutting surface.

E30RD – Intensity Setting – Low:

The angled head of E30RD retrograde tip makes it ideal for apicoectomies of posterior teeth (right angled).

E30LD – Intensity Setting – Low:

The angled head of E30LD retrograde tip makes it ideal for apicoectomies of posterior teeth (left angled).

E31D – Intensity Setting – Low:

The angled head of E31D retrograde tip makes it ideal for apicoectomies of anterior and posterior teeth (70°).

E32D – Intensity Setting – Low:

The angled head of E32D retrograde tip makes it ideal for apicoectomies of anterior teeth (90°).

Brasseler USA also offers a series of ultrasonic “U” files for root canal shaping

and a complete line of ultrasonic tips designed specifically for general scaling and perio. Please contact Brasseler USA for further details.

Return Policy/Disclaimer:

Due to the nature of how ultrasonic tips are used (gradually worn down), Brasseler USA does not accept returns or exchanges unless it is determined by Brasseler USA that there is a manufactures defect. Brasseler USA does not assume any responsibility or liability for incorrect diagnosis or failed procedures due to operator error or equipment/instrumentation malfunction.

Sterilization Instructions – Ultrasonic Tips

Brasseler USA ultrasonic tips are not sold sterile and should be cleaned and sterilized prior to each use.

1. Cleaning –

Pre-clean using a high-quality, pH neutral, ultrasonic cleaning solution. Follow solution manufacturer's instructions. Dry thoroughly with a towel and compressed air.

2. Steam Sterilization –

For long term tip storage, place the tips to be sterilized in the tip taxi then in an autoclave pouch prior to sterilization. The tips do not require an autoclave pouch if they are intended for immediate use and can be placed solely in the tip taxi for sterilization.

Steam Sterilization Parameters for Tips

Steam Sterilizer Type:	Gravity
Temperature:	135°C
Cycle Time:	3 minutes
Maximum Dry Time:	30 minutes

Special Note:

All Brasseler USA ultrasonic power units and ultrasonic tip kits come with a tip wrench but individual replacement tips do not. The order code for the tip wrench is CR-2.



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