

DownPak Cordless Obturation Device (Project #08-002) (1/10)



The DownPak is a cordless endodontic obturation device manufactured by endo ingenuity™, a Hu-Friedy, Inc. company. The unit has a rechargeable and replaceable nickel-metal hydride (Ni-MH) battery that is said to provide enough power on one charge for an entire day of endodontics. The DownPak provides the options of using heat, vibration (100 Hz) or a combination of heat and vibration during obturation and is compatible with traditional gutta percha or synthetic materials (i.e., Resilon™). The manufacturer claims that the combination of heat and vibration results in a denser, more compact filling of the root canal space. The temperature range for the unit is 50-350°C. Although, designed to be used with a warm vertical condensation technique, the manufacturer states that vibration without heat can be used with “cold” lateral obturation. DownPak’s organic LED screen displays temperature setting, battery life and indicates vibration activation. A power supply, charger and battery pack are provided with the unit. Twelve different sterilizable heat plugger tips and two cutting spoon tips (small and large) are available for separate purchase. The plugger tips are offered in Stainless Steel, UltraSoft Stainless Steel and Nickel Titanium (NiTi). The DownPak Handpiece, charging base and power adapter have a one-year warranty; DownPak tips have a ninety-day warranty.



Manufacturer:

endo ingenuity™/Hu-Friedy Mfg. Co. Inc.
 3232 N Rockwell St.
 Chicago, IL 60618
 (877) 343-6361
www.endoingenuity.com

Suggested Retail Price and Government Pricing:

Product	Part/Order #	Suggested Retail Price	Government Price
DownPak USA***	EIDPI	\$1,599.00	\$936.07
DownPak Charger	DPCGR	\$279.00	\$136.25
DownPak Battery Pak	DPBP	\$129.00	\$63.45
DownPak Device Holder	DPDH	\$15.00	\$12.48
DownPak Power Supply USA	DPPSI	\$129.00	\$62.40
Stainless Steel Tips (size/taper)			
XF ISO 30/.02	DPTXFR	\$109.00	\$54.61
F ISO 30/.03	DPTFR		
FM ISO 40/.05	DPTFMR		
M ISO 50/.07	DPTMR		
L ISO 50/.09	DPTLR		
XL ISO 70/.11	DPTXLR		
UltraSoft Tips (size/taper)			
F ISO 30/.03	DPTFU	\$119.00	\$59.29
FM ISO 40/.05	DPTFMU		
M ISO 50/.07	DPTMU		
NiTi Tips (size/taper)			
XF ISO 30/.02	DPTXFN	\$140.00	\$78.00
FM ISO 40/.02	DPTFMN		
M ISO 50/.02	DPTMN		
Cutting Spoon			
Small	DPTCSS	\$109.00	\$62.40
Large	DPTCSL		
DownPak Instrument Bender	DPIB	\$38.50	\$15.60
DownPak Tip Carrier	DPTC	\$20.00	\$12.48

***DownPak units are available for Canada, Japan, Continental Europe, United Kingdom and Australia.

ADVANTAGES:

- + Portable, cordless/battery-operated
- + Provides vibration to assist gutta percha condensation
- + Lightweight
- + Multiple obturation tip sizes/diameters/tapers available
- + Obturation tips in a variety of metals (Stainless Steel, UltraSoft Stainless Steel or NiTi)
- + Replaceable battery; can be changed by the user

DISADVANTAGES:

- LED display does not indicate actual tip temperature
- Unable to precisely adjust heat
- Tips heat along entire length/users must be careful not to overheat canal space
- Small activation and adjustment buttons

SUMMARY AND CONCLUSIONS:

The DownPak Cordless Obturation Device is the first unit primarily designed for warm obturation techniques that offers vibration as an adjunct for obturating root canal spaces. The DownPak provides the options of using heat, vibration (100 Hz) or a combination of heat and vibration during obturation and is compatible with traditional gutta percha or synthetic materials (i.e., Resilon™). The majority of clinical evaluators (4/6) agreed that vibration aided their obturation technique. All clinicians agreed that the variety of obturation tips available with the unit were adequate for use with a variety of root canal configurations. Tips are available in a variety of metals: Stainless Steel, Nickel Titanium or the UltraSoft Stainless Steel heater pluggers (exclusive to endo ingenuity™). The unit maintained an adequate charge for an entire day's worth of endodontic procedures. The rechargeable nickel-metal hydride (Ni-MH) battery pack is replaceable by the user, an advantage over other units that have to be returned to the manufacturer for battery replacement. Evaluators were concerned with the heater pluggers heating along their entire length rather than just at the tip (possible damage to the PDL), the inability to accurately adjust the temperature being used and the inability of the LED display to register the actual temperature of the tip. Evaluators also indicated that the small activation and adjustment buttons were difficult to locate and use during treatment. Five of six clinicians stated they would recommend purchase of the DownPak for their clinic. The **DownPak Cordless Obturation Device** is rated **Acceptable** for use in US Air Force dental facilities.