

DiaDent[®]

PASSION FOR INNOVATION
www.diadent.com

ADVANCED CORDLESS OBTURATION SYSTEM



DIA-DUO

DUO-PEN

CORDLESS WARM VERTICAL COMPACTION DEVICE



Duo-Pen is a cordless warm vertical compaction device that uses heat to cut, soften, downpack, and compact root canal filling material (gutta percha).



Charging Time: 90 minutes

Operation Time per Full Charge: 5 sec. x 500 times

FEATURES

- Effectively and tightly compacts and seals all canals including lateral canals
- Softens, spreads, cuts, and compacts gutta percha
- Ergonomic design: cordless and lightweight. Easy to hold, clean and store
- Handpiece remains cool to touch during operation
- Quick heating tip reaches highest level of temperature within one (1) second to save treatment time
- Display window on handpiece clearly displays remaining battery power, error and setting temperature
- Smart temperature control monitors and prevents heating condenser from burning out
- Duo-Pen handpiece automatically recognizes the size of heating condenser inserted
- Color-coded heating condensers are available in various sizes (#.04-40, .04-45, .04-50, .06-50, .08-55) for easy identification
- Three temperature settings: 170°C, 200°C, and 230°C
- Replaceable high energy density lithium-ion battery
- Simple operation with two buttons: Power/Temperature Button & Operation/Heating Button

ORDER INFORMATION

4007-2002 Regular Kit

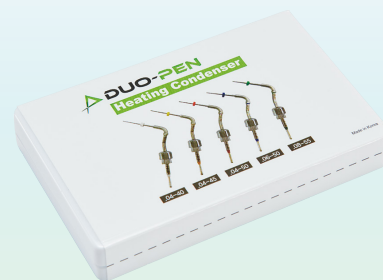
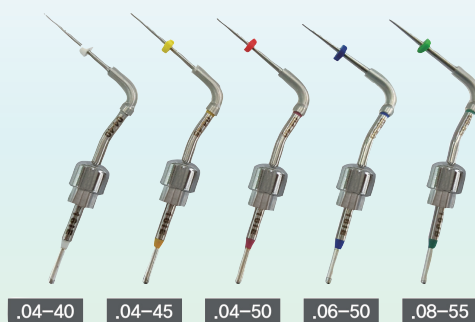
Contains: Duo-Pen Handpiece & Charger,
Heating Condenser #.04-50, Heating Condenser #.06-50,
Disposable Sheath (200/Box), Power Adapter, AC Power Cord

ACCESSORIES

4007-2020	Duo-Pen Handpiece
4007-2032	Duo-Pen Charger
4007-2070	Heating Condenser (.04-40) 1/box
4007-2071	Heating Condenser (.04-45) 1/box
4007-2072	Heating Condenser (.04-50) 1/box
4007-2073	Heating Condenser (.06-50) 1/box
4007-2074	Heating Condenser (.08-55) 1/box
4007-2075	Heating Condensers (.04-50/.06-50) 2/box
4007-2090	Duo-Pen Battery
4007-2270	Disposable Sheath (200/box)
4007-2280	Power Adapter
4007-2285	AC Power Cord



ACCESSORIES



- Heating Condensers (Available in 5 different sizes)



- Disposable Sheath (200/box)

DUO-GUN

CORDLESS BACKFILL OBTURATION DEVICE



Duo-Gun is a cordless backfill obturation device that delivers precise 3-dimensional obturation. It supports the warm vertical obturation technique.



• Strong and bendable Duo-Gun tips available in 23G and 25G

• Ergonomic design allows hand trigger operation with minimal effort

Charging Time: 90 minutes

Operation Time per Full Charge: 5 min. x 15 times

FEATURES

- Cordless and compact design allows complete freedom of movement
- Smooth and precise gutta percha delivery
- Variable temperature settings (140°C, 170°C, 200°C): precise control of obturation flow
- Quick and durable heating system: temperature reaches 200°C within 15 seconds
- Fast and continuous flow of gutta percha filling tightly seals the canal
- Designed for both left-handed and right-handed individuals:
 - * Both sides of the handpiece have power button and display window
 - * Both display windows show the remaining battery power, error and setting temperature
- Sophisticated and ergonomic design: operate hand trigger obturation with minimal effort
- Smart temperature control system maintains stable and constant temperature during operation
- Replaceable high energy density lithium-ion battery
- Strong, durable, and bendable Duo-Gun tips are available in both 23G and 25G

ORDER INFORMATION

4007-2001 Regular Kit

Contains: Duo-Gun Handpiece & Charger,
GP Obturation Tips (23G, 4/box), Plunger Set, Multi-Tool,
Safety Caps (2/pack), Plunger O-Ring Assembly (2/pack),
Scrubbing Brush, Battery, Power Adapter, AC Power Cord

ACCESSORIES

- 4007-2010 Duo-Gun Handpiece
- 4007-2031 Duo-Gun Charger
- 4007-2080 Duo-Gun Battery
- 4007-2120 GP Obturation Tips (23G, 4/box)
- 4007-2121 GP Obturation Tips (25G, 4/box)
- 4007-2130 Safety Caps (2/pack)
- 4007-2140 Plunger Set
- 4007-2150 Plunger O-Ring Assembly (2/pack)
- 4007-2160 Multi-Tool
- 4007-2161 Scrubbing Brush
- 4007-2280 Adapter
- 4007-2285 AC Power Cord
- 181-101 Gutta Percha Obturator
(Medium type, 100/bottle)



ACCESSORIES



- GP Obturation Tips (4/box)



- Gutta Percha Obturator (100/bottle)



- Plunger Set



- Scrubbing Brush



- Multi-Tool



- Safety Caps



- Plunger O-Ring Assembly



CORDLESS WARM VERTICAL COMPACTION + BACKFILL OBTURATION SYSTEM

Dia-Duo is a complete obturation system that consists of both Duo-Gun and Duo-Pen. The Duo-Charger conveniently charges both devices at once.



ORDER INFORMATION

4007-2000 Regular Kit

Contains: Duo-Gun Handpiece, Duo-Pen Handpiece & Duo-Charger,
Heating Condensers #.04-50 and #.06-50, Disposable Sheath (200/box)
GP Obturation Tips (23G, 4/box), Safety Caps (2/pack), Plunger Set,
Plunger O-Ring Assembly (2/pack), Multi-Tool, Scrubbing Brush, Power Adapter, AC Power Cord

4007-2010 Duo-Gun Handpiece

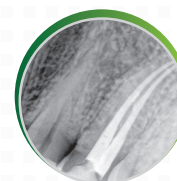
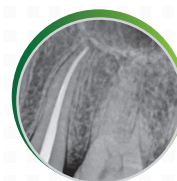
4007-2020 Duo-Pen Handpiece

4007-2030 Duo Charger

4007-2080 Duo-Gun Battery

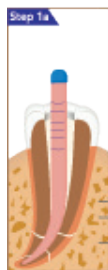
4007-2090 Duo-Pen Battery

Perfectly and tightly sealed root canals after warm obturation technique with Dia-Duo.





OBTURATION TECHNICAL SEQUENCE - DOWNPACK WITH DUO-PEN



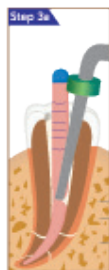
1a. Shape the root canal with endo files and determine the working length. Select a master cone that closely matches the apical size.



1b. Insert Duo-Pen tip (heating condenser) into the root canal to the point 4-7 mm short of the working length. Move and set the endo stop accordingly.



2. Insert the master gutta percha cone that is coated with sealer.



3a. Place the Duo-Pen tip in the orifice of the canal and activate Duo-Pen by pressing the Operation Button. Using the activated tip, cut the middle of gutta percha cone and condense the soften material to the point 6-9 mm front the apex for about 2 seconds.



3b. Release the Operation Button to allow pen tip to cool down, while at the same time continue pushing and holding the cooled pen tip to the apex for 8 seconds. This ensures all lateral and accessory canals are filled. Activate the pen tip again by pressing and holding the Operation Button for about 1~1.5 seconds, compact the gutta percha cone to the point 4~7 mm of working length.

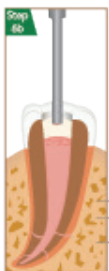


4. Condense the remaining material using a hand plugger such as Dia-Kondensor™.

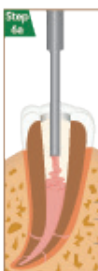
OBTURATION TECHNICAL SEQUENCE - BACKFILL WITH DUO-GUN



5. Using Duo-Gun's activated tip, make contact with the upper part of filled master cone in the canal, transfer heat for 3-5 seconds to soften the material.



6b. Continue flowing while withdrawing the tip from the canal.



6a. Extrude the melted gutta percha obturator into the canal.



7. Use a hand plugger to compact the obturation material.





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