



**DiaDent**<sup>®</sup>  
*Passion for Innovation*

## ALL IN OBTURATION

DiaDent's innovative and reliable Obturation System is recognized as the world's brand today, DiaDent has built 3 steps of Obturation System for 33 years since 1985. Revolutionize your practice with **Cordless Warm Vertical Compaction device & Backfill Obturation system**. Change your Endodontic treatment process with this new advanced system and get the reliable results.



### 1<sup>st</sup> Generation of Obturation System : Cold Lateral Compaction

Use Gutta Percha Points to fill the canal and compaction with hand spreader or plugger.

1<sup>st</sup>



### 2<sup>nd</sup> Generation of Obturation System : Manual Obturation

- Cut and Compact Gutta Percha Points with Duo-Pen
- Backfill Obturation with Duo-Gun

2<sup>nd</sup>



### 3<sup>rd</sup> Generation of Obturation System : Automatic Obturation

- Cut and Compact Gutta Percha Points with EvoPack
- Motorized Gutta Percha Extrusion with EvoFill

3<sup>rd</sup>

Duo-Pen is Cordless Warm Vertical Compaction Device and also Duo-Pen has the optimum functionality and quality and is full proven effective for the downpack obturation system.

**01** Quick Heating Tips  
: Available 5 tip sizes  
: Reaches 230°C within 1 sec



**02** Automatically recognizes the size of tip



**03** 3 Temperature Settings:  
170°C, 200°C, 230°C

**04** Effective Temperature Control prevents from burning out

**06** Charging Time: 90 min  
Operation Time: 500 times for 5 sec

**05** Li-ion Battery : 2,500mAh  
Easy to change the Battery



### Features

- Excellent result with warm and vertical compaction for all canals including lateral canals. Duo-Pen offers reliable results with tightly sealed root canals
- Cordless, ergonomic and lightweight design
- Quick heating tip reaches high level of temperature within one (1) second to save treatment time
- Display in the handpiece shows the remaining battery power, error and setting temperature
- The effective temperature control prevents the pen tip from burning out
- Duo-Pen handpiece automatically recognizes the size of tip
- 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, 230°C)

### Packages

- ITEM #4007-2002-Regular Kit
  - Duo-Pen Handpiece & Charger
  - Accessories: Heating Condenser #.04-50, Heating Condenser #.06-50, Disposable Sheath (200ea/Box), Power Adapter, AC Power Cord

### Accessories

- ITEM #4007-2020 - Handpiece
- ITEM #4007-2032 - Charger
- ITEM #4007-2070 - Heating Condenser(.04-40) 1ea
- ITEM #4007-2071 - Heating Condenser(.04-45) 1ea
- ITEM #4007-2072 - Heating Condenser(.04-50) 1ea
- ITEM #4007-2073 - Heating Condenser(.06-50) 1ea
- ITEM #4007-2074 - Heating Condenser(.08-55) 1ea
- ITEM #4007-2075 - Heating Condenser(.04-50/.06-50), 1ea each
- ITEM #4007-2090 - Battery
- ITEM #4007-2270 - Disposable Sheath(200ea/box)
- ITEM #4007-2280 - Power Adapter
- ITEM #4007-2287 - AC Power Cord

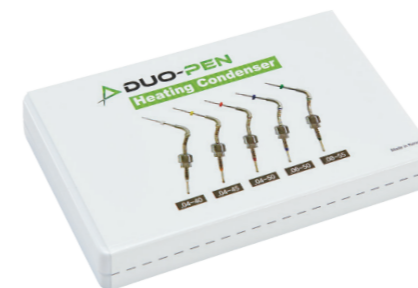


### HEATING CONDENSER



.04-40 .04-45 .04-50 .06-50 .08-55

### HEATING CONDENSER BOX



### DISPOSABLE SHEATH



Duo-Gun is Cordless Obturation System Device, Duo-Gun offers fast and easy obturation delivery. With this effective obturation system and technique, optimum results are achieved.



### Features

- Cordless and Compact design allows complete freedom of movement
- Reliable Gutta Percha filling to the desired level without delay
- Variable Temperature settings (140°C, 170°C, 200°C): precise control of obturation flow
- Quick heating system: Temperature reaches 200°C within 15 seconds
- Fast and continuous flow of filling tightly seals the canal
- Left-handed person can push on/off button easily, both sides of handpiece have the power button
- Both displays of Handpiece show the remaining battery power, error and setting temperature
- The ergonomic design enables the obturation with a minimum input of force
- Durable heater is installed to minimize minor troubles
- Maintain the stable temperature during the operation with the accurate temperature control system

### Packages

- ITEM #4007-2001 Regular Kit
  - Duo-Gun Handpiece & Charger
  - Accessories: GP Obturation Tips (23G, 4ea), Plunger Set, Multi Tool (1ea) Safety Caps (2ea), Gutta Percha Obturator (100ea), Plunger O-rings Assembly (2ea), Scrubbing Brush, Battery, Power Adapter, AC Power Cord

### Accessories

- ITEM #4007-2010 - Handpiece
- ITEM #4007-2031 - Charger
- ITEM #4007-2080 - Battery
- ITEM #4007-2120 - GP Obturation Tip(23G, 4ea)
- ITEM #4007-2121 - GP Obturation Tip(25G, 4ea)
- ITEM #4007-2130 - Safety Cap (2ea)
- ITEM #4007-2140 - Plunger Set
- ITEM #4007-2150 - Plunger O-Ring Assembly (2ea)
- ITEM #4007-2160 - Multi Tool (1ea)
- ITEM #4007-2161 - Scrubbing Brush (1ea)
- ITEM #4007-2280 - Adapter
- ITEM #4007-2287 - AC Power Cord
- ITEM #181-101 - Gutta Percha Obturator(Medium type, 100ea)



GP OBTURATION TIP



PLUNGER O-RING ASSEMBLY



SAFETY CAP

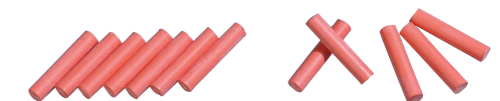
SCRUBBING BRUSH

DUO-GUN PLUNGER SET



MULTI TOOL

GUTTA PERCHA OBTURATOR



## CORDLESS WARM VERTICAL COMPACTION & BACKFILL OBTURATION DEVICE

Dia-Duo is new developed Cordless Obturation System included Duo-Pen warm vertical compaction device and Duo-Gun backfill obturation device. Duo-Pen offers excellent warm vertical compaction with quick heating tip. Duo-Gun with quick heating system allows the fast and perfect obturation delivery. Duo-Gun and Duo-Pen are located in one charger.



### Packages

- ITEM #4007-2000 – Regular Kit
  - Duo-Gun Handpiece, Duo-Pen Handpiece & Duo-Charger
  - Accessories: Heating Condenser #.04-50, Heating Condenser #.06-50, Duo-Pen Battery, Disposable Sheath (200ea/Box) GP Obturation Tip(23G, 4ea), Gutta Percha Obturator (100ea), Duo-Gun Battery, Safety Cap(2ea), Plunger set, Plunger O-Ring Assembly(2ea), Multi Tool, Scrubbing Brush, Power Adapter, AC Power Cord

### Accessories

- ITEM #4007-2010 – Duo-Gun Handpiece
- ITEM #4007-2020 – Duo-Pen Handpiece
- ITEM #4007-2030 – Duo Charger
- ITEM #4007-2080 – Duo-Gun Battery
- ITEM #4007-2090 – Duo-Pen Battery

### Radiographs

Perfect and tightly sealed root canals after the root canal warm obturation technique with Duo-Gun & Duo-Pen.



### ROOT CANAL OBTURATION TECHNICAL SEQUENCE

#### DOWNPACK OBTURATING WITH DUO-PEN

	<p>Shape the root canal with Endo Files and check the working length. Select the master Gutta Percha cone to be filled in the canal.</p>		<p>Place pen tip in the orifice of the canal and activate the device by pressing the Operation Button, using the activated pen tip, cut the middle of Gutta Percha cone and downpack it to the point 6-9mm from the APEX about 1.5-2 seconds only.</p>
	<p>Insert pen tip into the root canal to the point 4-7mm short of the working length and fit Endo Stop in the pen tip.</p>		<p>Release the Operation Button to allow pen tip to begin cooling, while at the same time continue pushing and holding the cooled pen tip to the APEX for 8 seconds to fill the canal completely. 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 4-7mm of working length.</p>
	<p>Fill the master Gutta Percha cone that is dipped in a sealer.</p>		<p>Condense the remaining material using with hand plunger.</p>

#### BACKFILL OBTURATING WITH DUO-GUN

	<p>Using Duo-Gun's tip, make contact with the upper part of filled master cone in the canal, transfer heat for 3 to 5 seconds.</p>		<p>Flow the melted Gutta Percha Obturator to the root canal.</p>
	<p>Continue flowing while withdrawing the needle from the canal.</p>		<p>Use a hand plunger to compact obturation material.</p>

# EVOFILL™ DUO

## CORDLESS WARM VERTICAL COMPACTION & BACKFILL OBTURATION DEVICE WITH BUILT-IN GP CARTRIDGE

**EvoFill Duo** is the new advanced cordless obturation system that consists of EvoFill backfill obturation device and EvoPack warm vertical compaction device. With the innovative electric motor, EvoFill features precisely controlled motorized gutta percha extrusion, fast heating bendable thin tip, and digital control panel. Save valuable time with hygienic single-use gutta percha cartridge that provides reliable result every time. EvoPack effectively and tightly compacts and seals all canals including lateral canals. It features LED light-guided condenser, instant heating, and digital temperature control. Both units can be fully charged within 90 minutes.



01 Controlled, precise Motorized Gutta Percha Extrusion

02 Fast Heating 360° Swivel Disposable Gutta Percha Cartridge Needle

03 3 Temperature Settings: 160°C, 180°C, 200°C

04 Quick Heating Tip  
: Available 5 Tip sizes (XF, F, FM, M, ML)  
: Reaches 250°C within 1 sec

05 LED Light-Guided Heating Condenser

06 3 Temperature Settings: 170°C, 200°C, 250°C

### Features

#### EvoPack: Vertical Compaction Device

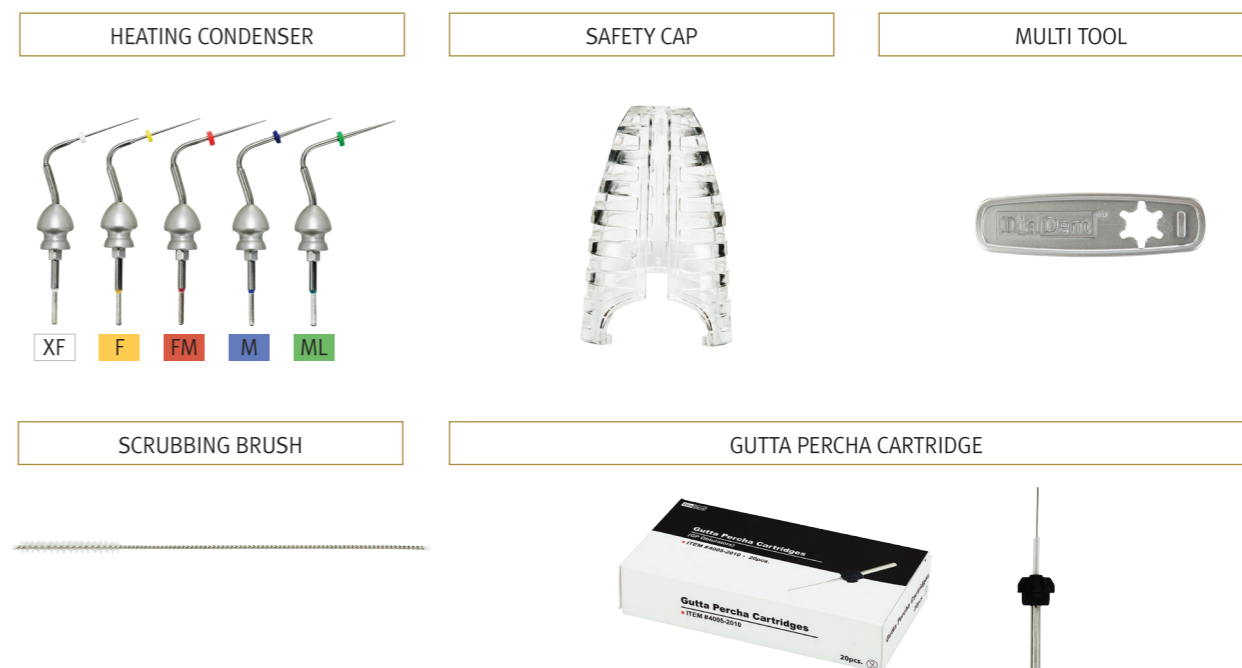
- Innovative LED light-guided condenser
- Quick heating tip reaches high level of temperature(250°C) within one (1) second
- Excellent result with warm and vertical compaction for all canals including lateral canals. EvoPack offers reliable results with tightly sealed root canals
- Automatically recognize tip size of heating condenser
- Adjustable Temperature Setting (170°C, 200°C, 250°C) and time (3 seconds, 5 seconds) for safety
- Displays error status in case of power or tip disconnection
- Simple one-button operation

### Packages

- ITEM #4005-1001 Regular Kit
  - EvoFill Handpiece, EvoPack Handpiece & Dual Charger
  - Accessories: Safety Cap(1 ea), Heating Condenser #F/FM(1ea each), Power Adapter & Cord, Scrubbing Brush(1ea)
  - \* Gutta Percha Cartridge is not included in the Regular Kit.

### Accessories

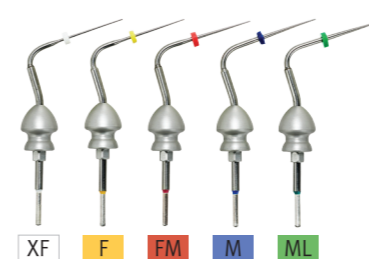
- ITEM #4005-1101 EvoFill Handpiece
- ITEM #4005-1201 EvoPack Handpiece
- ITEM #4005-2010 Gutta Percha Cartridge(20ea)
- ITEM #4005-2020 Dual Charger
- ITEM #4005-2030 Safety Cap
- ITEM #4005-2050 Battery
- ITEM #4005-2060 Power Adapter & Cord
- ITEM #4005-2070 Heating Condenser #XF
- ITEM #4005-2071 Heating Condenser #F
- ITEM #4005-2072 Heating Condenser #FM
- ITEM #4005-2073 Heating Condenser #M
- ITEM #4005-2074 Heating Condenser #ML
- ITEM #4005-2075 Heating Condensers #F/FM(1ea each)
- ITEM #4005-2080 Multi Tool
- ITEM #4005-2090 Scrubbing Brush



HEATING CONDENSER

SAFETY CAP

MULTI TOOL



SCRUBBING BRUSH

GUTTA PERCHA CARTRIDGE



#### EvoFill: Backfill Obturation System

- Controlled, precise motorized Gutta Percha extrusion
- Fast heating 360° swivel cartridge needle
- Hygienic disposable cartridges to prevent secondary infections
- 3 different Temperature Settings (160°C, 180°C, 200°C) to control extrusion speed
- Easier, motorized extrusion and less hand fatigue
- No mess, easy clean up





*Passion for Innovation*

www.diadent.co.kr



# DiaDent's Network

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REF

2017/07/05[REV.0]