



ANY QUESTION?
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<http://Shetak.com>

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Dental Product's General Catalogue

Dental Materials | Dental Equipments

ENVISION THE FUTURE



ENVISION THE FUTURE

DIAMOND QUALITY

GOLD SERVICE

SILVER PRICE





Contents

World Wide Marketing Department, Dental Business Group | **META BIOMED CO., LTD.**

<http://SHV.tak.com>

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ENVISION THE FUTURE



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Gutta Percha Points

Special Taper Points

.04, .06, .08, Pro Taper Gutta Percha Points



Time saving with easy filling
For faster and easier root canal obturation
Variable tapers & sizes
Length marking available

- Excellent radiopacity
- Long shelf life and freshness assured
- Suitable for vertical and lateral condensation

Available Sizes

- .04 Taper : 15 - 80
- .06 Taper : 15 - 80
- .08 Taper : 15 - 40
- F1 / F2 / F3

Length Marked | Patent No.: US 7097454
For Accurate Depth Measurement and Insertion



Uniform and non-distorting crimp
Variable sizes and packages available

Non-Standard sized (Accessory Sizes)

- Accurate insertion of the working length
- No need to mark working length on the points (Assurance of the accurate insertion after filling)
- Time saving with safe, easy and fast filling
- Variety in the selection of sizes and packaging available

Available Sizes

- ISO sizes : 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90, 100, 110, 120, 130, 140
- Non-Standardized (Accessory sizes): XF, FF, MF, F, FM, M, ML, L, XL
- Special Taper Points : .04, .06, .08



Regular

Made from the Finest Gutta Percha, Uniformly Hand Rolled



- Stiff and flexible to provide ideal working qualities
- Uniform and non-distorting crimp
- Excellent radiopacity
- Long shelf life and freshness assured
- Suitable for vertical and lateral condensation
- Variety in the selection of sizes and packaging available

Available Sizes

• ISO Standardized

10	-----	●	60	-----	●
15	-----	○	70	-----	●
20	-----	●	80	-----	○
25	-----	●	90	-----	○
30	-----	●	100	-----	●
35	-----	●	110	-----	●
40	-----	●	120	-----	●
45	-----	○	130	-----	●
50	-----	●	140	-----	●
55	-----	●			

Asst. 15/40, 45/80

• Non-Standardized

(Accessory Sizes)

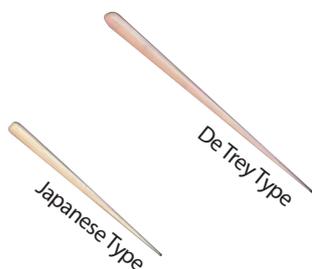
X-Fine, Fine-Fine,
Medium-Fine, Fine,
Fine-Medium, Medium,
Medium-Large, Large,
X-Large, F1/F2/F3

- Any size assortment is available.

Special

Japanese, De Trey Type & ENDO Organizer

Japanese & De Trey Type Gutta Percha Points



- Point : 100 Points / Box
- Size : - Japanese Type
JF-S, JF-M, JF-L, JS, JM, JL, JL-S, JL-M, JL-L
- De Trey Type
XX-F, X-F, Fine, Medium

Endo Organizer



- Code : P11
- Spill Proof 12 Compartments
- Size : ISO 15 - 80
- Color Coded Available
- 240 Points



Available Packaging

6 Vial Packing (Square)



- Code : P31
- Regular Packing Points : 120 Points
- Dimension : 84×51×16(mm)

6 Vial Packing (Round)



- Code : P31
- Regular Packing Points : 120 Points
- Dimension : 84×51×16(mm)

Sliding Type Dispenser



- Code : P71
- Regular Packing Points : 120 Points
- Dimension : 70×45×12(mm)

4 Compartment Dispenser



- Code : P51
- Regular Packing Points : 100 Points
- Dimension : 77×45×13(mm)

- Private labels are available in all packages.



Absorbent Paper Points

Sterilized
Hand Rolled for Extra Absorbency



- Highly absorbent
- Sterilized individual packages
- Variety sizes and packages available
- Color Coded

Available Sizes

TYPE	SIZES
Standardized (ISO Specifications)	10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90, 100, 110, 120, 130, 140
Non - Standardized (Accessory Sizes)	XX-Fine, X-Fine, Fine, Medium, Coarse, X-Coarse
Special Taper (.04, .06, .08)	15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80

6 Compartment Dispenser



- Code : P21
- Regular Packing Points : 180/200 Points
- Dimension : 84x51x13(mm)

Available Packaging

Sliding Type Dispenser



- Code : P71
- Regular Packing Points : 180/200 Points
- Dimension : 70x45x12(mm)

6 Vial Packing (Square)



- Code : P31
- Regular Packing Points : 180/200 Points
- Dimension : 84x51x16(mm)

6 Vial Packing (Round)



- Code : P31
- Regular Packing Points : 180/200 Points
- Dimension : 84x51x16(mm)

4 Compartment Dispenser



- Code : P51
- Regular Packing Points : 200 Points
- Dimension : 77x45x13(mm)

Blister Cell



- Code : P61
- Regular Packing Points : 180/200 Points
- Dimension : 163x54x11(mm)
- Private labels are available in all packages.



Metapex

Calcium Hydroxide with Iodoform



Applications

- Weeping canal
- Formation of a hard tissue barrier (Apexification)
- Root canal filling for deciduous teeth
- Internal & external root resorption

Composition

- Calcium Hydroxide, Iodoform, Silicon oil

Advantages

- Excellent antibacterial effect and radiopacity
- Premixed paste
- Syringe type for easy delivery of the paste into the canal
- Disposable tips for prevention of cross-contamination

Components

- 2.2g paste in a syringe (2 syringe packing available)
- Disposable tips
- One ring rotator for direction control of the tip
- Dimension : 228x61x22(mm)
- Weight : 46g

Shelf life

- Two years from the production date.

Clinical Cases

Apexification



Pulp necrosis on #21 of 8 year-old boy took place by trauma.



About 1 year after Metapex treatment

Root Resorption



Internal resorption on disto-lingual root



Root perforation by inflammatory resorption



Metapaste

Calcium Hydroxide with Barium Sulfate



Applications

- Weeping canal
- Formation of a hard tissue barrier (Apexification)
- Temporary root canal filling
- Internal & external root resorption

Composition

- Calcium Hydroxide, Barium Sulfate, Poly Propylene Glycol

Advantages

- Easy cleaning and removing with good water solubility
- Excellent antibacterial effect and radiopacity
- Premixed paste
- Syringe type for easy delivery of the paste into the canal
- Disposable tips for prevention of cross-contamination

Components

- 2.2g paste in a syringe (2 syringe packing available)
- Disposable tips
- One ring rotator for direction control of the tip
- Dimension : 228x61x22(mm)
- Weight : 46g

Shelf life

- Two years from the production date.

Clinical Cases

Apexification



Before treatment
- Large apical foramen with an incomplete apex
- Note the root resorption on the lateral surface



Metapaste filling

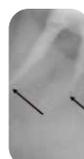


Three months later
- after removal of the paste, it shows a formation of the apical barrier



Six months later
- Excellent healing without further root resorption

To locate real apical foramen



- About 1-2 months after, X-ray shows exactly where the real apical foramen is.



ADSEAL™

Resin Based Root Canal Sealer



Applications

- Permanent root canal sealing
- Thermal obturation

Composition

- Base-Epoxy oligomer resin, Ethylene glycol salicylate, Bismuth subcarbonate
- Catalyst-poly butanediol aminobenzoate, Calcium Phosphate, Bismuth subcarbonate

Advantages

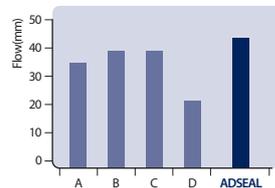
- Excellent biocompatibility
- Easy to mix paste-paste
- Hermetic sealing ability
- Nonstaining to the teeth
- Insoluble in tissue fluids
- Good radiopacity

Components

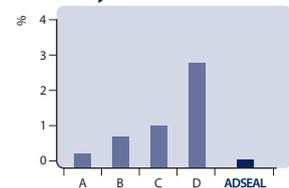
- 13.5g dual syringe
Base 9g (Epoxy resin, Calcium phosphate)
Catalyst 4.5g (Amines, Bismuth subcarbonate)
- Spatula
- Mixing Plate
- Dimension : 55x180x40(mm)
- Weight : 98g

Physical and Chemical Properties

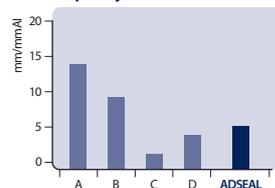
Flow



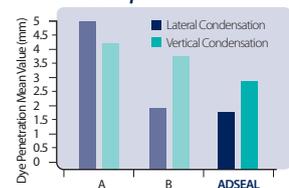
Solubility



Radiopacity



Material Properties



- Working Time : 35 Minutes at 23°C (73°F)
- Setting Time: 45 Minutes at 37°C (99°F)
- Film Thickness: 3.3 μm

Shelf life

- Two years from the production date.



MD-Cleanser™

17% EDTA Solution



<http://ShivTakt.com>

Applications

- Presence of calcification in the canal
- Narrow canals on posterior teeth
- Smear layer removal

Composition

- EDTA, Water, Ammonia water

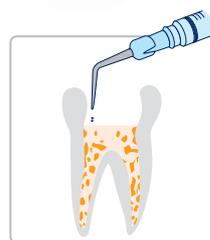
Advantages

- Removal of inorganic substances by chelation (EDTA-Ca²⁺)
- Easier instrumentation by softening dentin canal wall
Produces the cleanest dentinal walls after smear layer removal

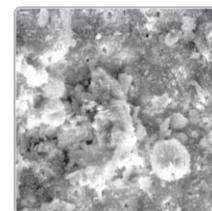
Components

- MD-Cleanser : 100 ml
- 1cc syringe
- Disposable tips
- Dimension : 50 x 115 x 55 mm
- Weight : 138g

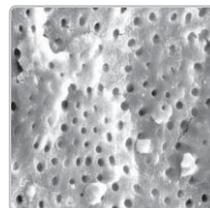
Clinical Case



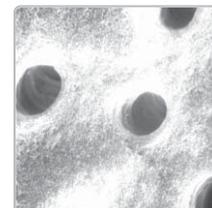
Application Method



After root canal preparation



After MD-Cleanser application (x1000)



After MD-Cleanser application (x7000)

Shelf life

- Two years from the production date.



MD-ChelCream

19% EDTA Cream



Applications

- Root canal preparation with files and reamers
- Presence of calcifications in the canal
- Narrow canals in posterior teeth
- Smear layer removal

Composition

- EDTA, PEG

Components

- MD-ChelCream 7g(5.4ml)×2
- Disposable tips
- Dimension : 186×45×30(mm)
- Weight : 59g

Advantages

- Removal of inorganic substances by chelation (EDTA-Ca²⁺)
- Easier filing with lubricating action
- Produces the cleanest canal wall after smear layer removal

Shelf life

- Two years from the production date.



MD-Temp

Hydraulic Temporary Restorative



Applications

- Temporary cavity filling

Composition

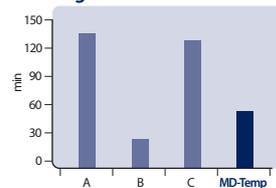
- Polyvinyl Acetate, Zinc Oxide, Zinc Sulfate, Ethanol

Advantages

- Easy application and removal
- Hermetic seals the cavity
- Excellent stability when set
- Proper crush strength

Physical and Chemical Properties

• Setting time



Components

- 40g White or Pink paste in a jar
- Dimension : 38x41x39(mm)
- Weight : 55g

Shelf life

Two years from the production date.



Meta P&Bond

5th Generation Bonding System



Applications

- Bonding for direct composite
- Bonding for porcelain, composite, metal repair, set amalgam, post
- Bonding for porcelain veneer
- Bonding for amalgam and indirect bonding procedures with Metacem adhesive resin cement

Composition

- Bis-Gma, PMGDM, 2-Hydroxyethylmethacrylate, Ethyl alcohol

Advantages

- Superior bonding strength
- 5th Generations Adhesive
- One step priming and bonding
- Ethanol base adhesive
- Wet bonding type

Physical Properties

- Dentin shear bonding strength 10.75MPa
- Enamel shear bonding strength 30.76MPa

Components

- Meta P&Bond 5g
- Micro brush 10EA

Shelf life

- Two years from the production date.



Metacem

Adhesive Resin Cement



Applications

- Crowns & Bridges (ceramic, composite, porcelain)
- Inlay/Onlay cementation
- Bonding for porcelain veneers

Composition

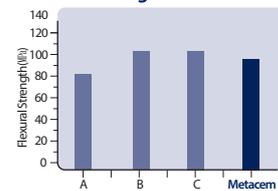
- Base-Bis-Gma, TEGDMA, Barium aluminium boro silicate
- Catalyst-Bis-Gma, TEGDMA, Barium aluminium boro silicate

Advantages

- Easy to use for cosmetic indirect restorations.
- Provides high resistance to compressive force.
- Provides a dual-cure for highly shaded, thick or opaque cementation.
- 5 shades correspond with shade guide. (A1, A3, B2, TL(Translucent white), OP(Opaque))

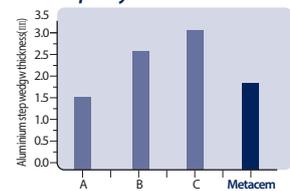
Physical and Chemical Properties

• Flexural Strength



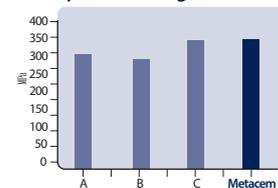
Working time 2 min
 Setting time 5 min
 Flexural strength 99 MPa
 Radiopacity 2.33mm Al/mm

• Radiopacity



Film thickness <21 μm
 Water absorption 29.3 μg/mm²
 Water solubility 2.3 μg/mm²

• Compressive Strength



Components

1. Metacem set
 - 2 Dual syringe(A3, Translucent white shade, 9g/ea)
 - P&Bond 5g
 - Etchant 3g
 - 20 Mixing tips
 - 20 Etchant disposable tips
 - Spatula
 - Mixing pad paper
 - 10 Adhesive brush
2. Metacem Refill
 - 1 Dual syringe(A1, A3, B2, Translucent white, Opaque, 9g/ea)

Shelf life

- Two years from the production date.



Meta Etchant

Meta Etchant contains 37% phosphoric acid in water thickened with unique polymer.



Applications

- Conditioning of surface for dentine and enamel with composite and inlay / onlay

Composition

- Phosphoric acid, H₂O, Xanthan gum

Advantages

- Polymer thickened gel
- Easy dispensing and application
- No residue, rinse out completely
- Thixotropic characteristics(not runny)

Components

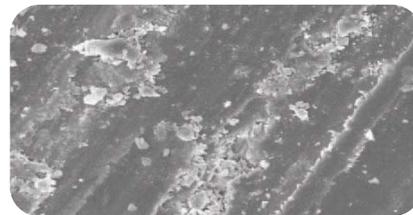
- Meta Etchant 3g x 3 syringes
- Disposable stainless tips 20 ea
- Dimension(Ø52x152mm)
- Weight : 55g

Shelf life

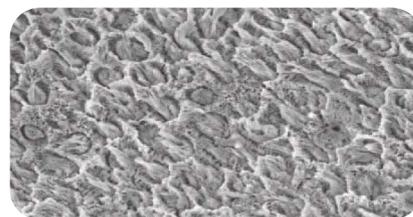
- Two years from the production date.

Application Case

Enamel SEM



Before Meta Etchant application(x2000)



After Meta Etchant application(x2000)



Nexcomp Flow

Nano Hybrid Flowable Composite Resin



Applications

- Restoration of invasive cavity
- Pits and fissure sealing
- Base and Liner for direct restoration
- Repair acrylic temporary materials
- Repair of esthetic indirect restorations

Composition

- Bis-Gma, UDMA, Bis-Ema TMPTMA
Barium aluminium boro silicate

Advantages

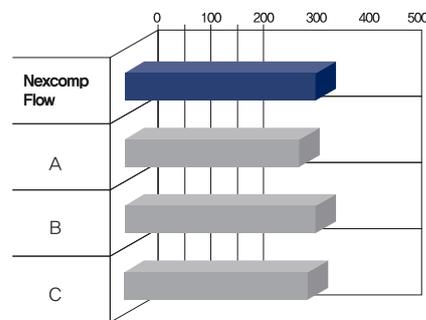
- Low viscosity, light-cured, radiopaque flowable composite resin for minimally invasive cavity preparation.
- Filled with 40nano sized filler for excellent polishability
 - Flow on demand handling
 - Excellent Radiopacity
 - Available in 14 shades including opaque and translucent
 - No slumping and running

Components

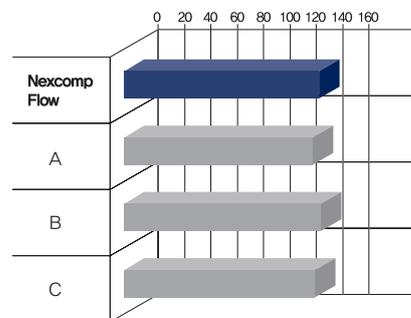
- Nexcomp Flow set 2g X 5 syringes, 20ea disposable tips
A2 A3 A3.5 B2 B3
- Nexcomp Flow syringe 2g X 2 syringes, 10ea disposable tips
A1 A2 A3 A3.5 A4
B1 B2 B3 OA2 OA3
C2 D2 WT TL

Physical and Chemical Properties

• Compressive Strength(MPa)



• Flexural Strength(MPa)



Shelf life

- Three years from the production date.



Nexcomp

Nano Hybrid Composite Resin



Applications

- Class I , II ,III,IV, V restorations
- Diastema closures
- Direct veneers
- Composite and porcelain repairs

Composition

- Bis-Gma, UDMA, Bis-Ema
- Barium aluminium boro silicate

Advantages

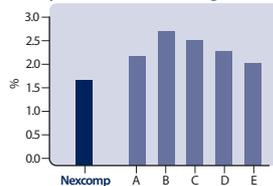
- Low 1.6% shrinkage for superior marginal integrity
- Various shade
- Filled with 40 nano sized filler for excellent polishability
- Optimum handling - Excellent Sculptability for restoring natural shape and function.
- Non-Slumping. Non-Sticky

Components

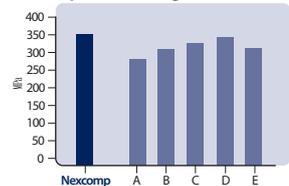
- Nexcomp Kit
 - 4g x 7 Syringe (A1, A2, A3, A3.5, B2, A2E, B2E)
 - Meta P&Bond 5g
 - Meta Etchant 3g
- Nexcomp Refill
 - 4g x 1 Syringe (A2E, B2E, A1, A2, A3, A3.5, A4, B1, B2, B3, C2, C3, D2, D3, TL, WT, OP, OA2, OA3)

Physical and Chemical Properties

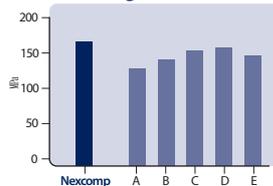
• Polymerization shrinkage rate



• Compressive strength



• Flexural strength



Clinical Cases

• Before



▲ Mesial fracture



▲ Cervical abrasion



▲ Class I cavity

• After



▲ complete Nexcomp restoration



▲ After restoration



▲ Restoration with Nexcomp

Shelf life

- Two years from the production date.



MD-flex™

Polyvinylsiloxane Impression Material



Applications

- Cavity impression of veneer, inlay, onlay
- Impression of crown or bridge, partial denture

Advantages

- Impression of crown or bridge, partial denture.
- Accurate impression without bubbles because of hydrophilic property.
- Gypsum model will be effectively reproduced without transformation due to an excellent reproducibility and volume stability.
- Biocompatibility. (ISO10993)
- This product is compatible with other Polyvinylsiloxane Impression Materials.
- Easy to mix by auto-mixing type.

Type

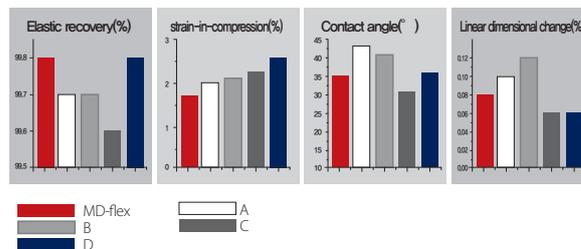
Heavy body	50ml X 2, Mixing tips included
Monophase	50ml X 2, Mixing tips included
Light body	50ml X 2, Mixing tips included 5ml X 5, Syringe type
Putty	450ml Base, 450ml catalyst

(4 cartridges, 10 cartridges bulk packaing available.)

Shelf life

- Two years from the production

Physical Properties



Working time at 23°C	≥90 sec
Setting time at 37°C	4 min
Elastic recovery	99.8%
Strain-in-compression	1.75%
Linear dimensional change	0.08%
Contact angle	35°
Detail Reproduction	20µm
Compatibility with gypsum	50µm



BoneMedik-
DM Bone
Synthetic Resorbable Materials



Applications

- Periodontal defects
- Intrabony defects
- Ridge augmentation
- Extraction sites(Implant preparation/placement)
- Sinus lift
- Cystic cavities

Advantages

- Silicon ion containing porous Hydroxyapatite (Si-Content:Avg.0.6 wt%)
- Optimum balance between HA and β-TCP in the ratio(%), 60:40
- Silicon ion technology speeds up the Bone Regeneration & Heal Activation
- Outstanding Biocompatibility(No Biological Rejection, No Disease Transmission)
- Excellent Osteoblastic Activity with wide surface area:72% Porosity

Package Specifications (1 vial / box)

SIZE	Weight					
	0.25g	0.5g	1.0g	2.0g	5g	10g
0.3 ~ 0.5mm	0.25g	0.5g	1.0g	2.0g	5g	10g
0.5 ~ 1.0mm	0.25g	0.5g	1.0g	2.0g	5g	10g
1.0 ~ 2.0mm	0.25g	0.5g	1.0g	2.0g	5g	10g

Implant Case

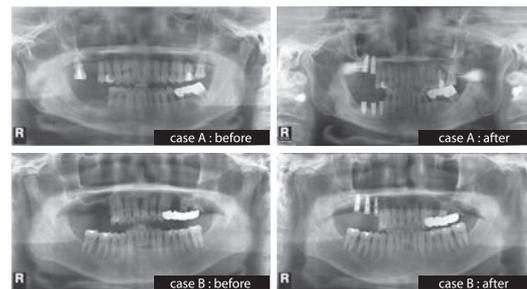


Figure 1. Clinical and radiographic view during surgery. Intrabony defect(Left), BoneMedik-DM placed into intrabony defect.



Figure 2. Clinical view. Pre-operative(Left) and Six months post operative(Right) clinical

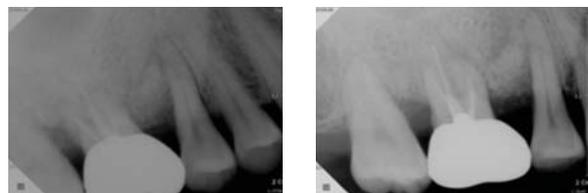


Figure 3. Radiographic view of test group. Pre-operative(Left) and Six months post operative radiographic(Right)

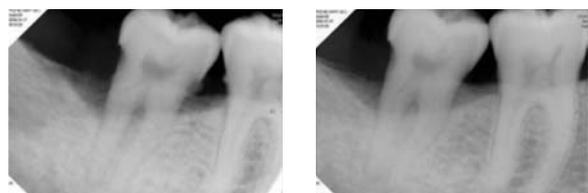


Figure 4. Radiographic view of control group. Pre-operative(Left) and six months post operative radiographic(Right)



2



Meta Biomed Product Program

GENESYS Genuine system Genius Result	3.01
E&Q Master Cordless Gutta Percha Obturator	3.02
i-Root Full Automatic Electronic Apex Locator	3.03
ENDO SMART Endodontic Micromotor	3.04
EMS-200 Beyond Endodontics	3.05



GENESYS

Genuine System, Genius Result



Advantages

- Convenient cordless device using battery
- Cordless & electric motorized filling system
- New cartridge needle to refill GP pellet
- 360° rotation at both cartridge needle & pack tip
- High capacity lithium-ion battery
- Simple, easy & quick to use

Specifications

Pack

Dimension	153mm x 27mm x 25 mm (W x L x H)
Weight	90g (Including battery)
Operating Voltage	3.7V
Range of setting temperature	140 ~ 400°C
Auto off	5min

Battery

- Samsung SDI Co., Ltd. 1CLR18650-26C++ 3.7V 2600mAh,
- Lithium-ion battery

Charger

- Input : 9.0V
- Single charger size : 165mm x 80mm x 47mm (W x L x H)
- Twin charger size : 230mm x 80mm x 47mm (W x L x H)

Fill

Dimension	223mm x 27mm x 26mm (W x L x H)
Weight	177g (Including battery)
Operating Voltage	3.7V
Range of setting temperature	140 ~ 200°C
Auto off	5min

Adapter

- Model : Bridge Power JMW118KA0900F02
- Input : 100-240V, 50/60 Hz
- Output : 9.0V, 2.0 A
- Size : 84mm x 46mm x 32mm



E&Q MASTER™

Cordless Gutta Percha Obturator



The E&Q Master has the same battery charging system as the mobile phone. It operates at low voltage for users safety. If the battery is discharged during use, you can replace it with an extra battery on standby for continuous use. The slim design and simple operation of the E&Q Master will maximize effectiveness and convenience.

Advantages

- The slim design provides a nice feeling of grip along with easy handling.
- The low-voltage battery enables safe operation.
- The simple operation enables you to learn easily and quickly.
- The thermo-plasticized method of filling makes speedy treatment.
- Easy and quick obturation with accurate and predictable filling.
- Excellent apical control & obturation of anatomically complicated canals.

Specifications

Charger	Input Output	100V ~ 240V DC 9V, 1.8A
Gun	Heater Heating Time	DC 3.8V, 8W 2 Minutes
Pen	Heating Time	1 Second
Operating Time	Gun	Continuous for 1.5 hours
	Pen	Continuous for 1.5 hours
Battery (Li-Ion type)	Li-ion	ICR18650-26(Samsung SDI) 3.8V 2,400mA
	Charging Time	Within 3 hours



Downpack with Master Pen



1. Fit a master apical cone that matches the taper of the canal being obturated and check it makes a tug back.



2. Marked length after select a E&Q Pen Tip and plugger 4-6mm shortly inserted than working length.



3. Cement master cone to 3mm, insert it to root canal and cut the excess over the orifice using the E&Q Pen Tip with gutta percha to 4-6mm short of the working length.

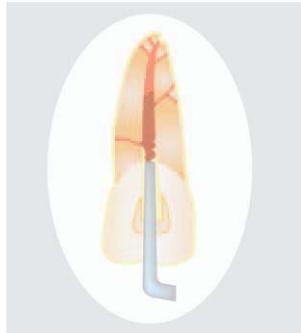


4. Harden the melted gutta percha with pre-selected plugger. Now apical area & accessory canal are perfectly obturated.

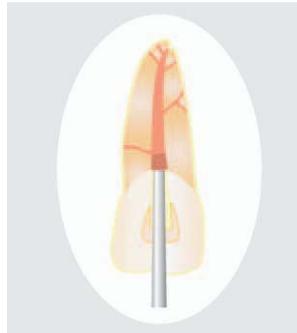
Backfill with Master Gun



5. After inserting the Gun Needle into the Root Canal, wait for 5 seconds after inserting Gun Needle to root canal.



6. Pull the trigger slowly and fill the gutta percha up to root canal. Gun needle would be pushed by filled gutta percha naturally.



7. Harden the heated gutta percha with bigger plugger.



8. Now, the entire root canal is fully obturated.

Clinical Cases



Mandibular right 1st molar, mesial 4 orifices



Mandibular left 1st molar, 'S' curved distolingual canal



Mandibular left 2nd molar, C-shape canal distolingual canal

Courtesy of PS Kim, DDS, MSD, Ph D.



i-ROOT

Full Automatic Electronic Apex Locator



- i-ROOT is the 5th generation Apex Locator by dual frequency type. i-Root can measure the apical constriction exactly without mismeasurement.
- i-ROOT is developed & upgraded based on the technology of e-Magic Finder (EMF-100 Series) Apex Locator.

Advantages

- Best accuracy in any root canal condition (Dry, Bleeding, Wet, Saline, EDTA, NaOCl or Chlorhexidine etc...)
- Simultaneous visual and sound measurement
- Color display
- Stylish and ergonomic design
- Simple and easy to use
- Self test for the system checking
- Auto power off function
- Stable and durable in wide range of condition

Specifications

Dimensions	W110×D100×H117mm
Screen	W79×D70mm
Battery	AA Battery (3ea)
Continuous use	60 hours
AC-Adapter	AC 100 ~ 240V, (50 ~ 60Hz)
Weight	390g

Components

- 1 i-ROOT main unit
- 1 Probe cord
- 1 File holder A
- 2 File holder B
- 5 Lip clips



ENDO SMART

Endodontic Micromotor



Advantages

- Auto reverse on / off functions
- Torque setting : 0.6~6.4Ncm (Changeable by Gear Ratio)
- Slim & compact handpiece

Specifications

ACL(B)-42EP+Cube EP, Contra Angle (ACL(B)-42EP)

Dimension	ø 16,7 x L63mm
Weight	34,8g
Rated Input	16 : 1

Motor (Cube EP)

Dimension	ø 20 x L108mm
Weight	34,8g
Rated Input	13,000 RPM



EMS-200

Beyond Endodontics



One touch color wide screen

- Compact & light-weight
- Usable Endo motor & Apex Locator at the same time
- Mounted on dental chair or movable cart type
- Best accuracy & Systematic diagnosis

Endo Motor Features

- Auto-reverse mode
- Torque control from 0.6 to 6.4Ncm
- Long shelf life with swiss motor
- 10 Memory saving function

Apex Locator Features

- Best accuracy in any root canal
- Self test for system failure
- Simple, easy to use
- Color display

Obturator(Fill) Features

- Easy install for fill needle
- 360° rotating cartridge needle
- Fully motorized obturation for smooth filling
- Long shelf-life with swiss motor
- Comfortable grip with ergonomic design
- Auto reverse function when cartridge is empty
- Automatic off after 5 minutes

Obturator(Pack) Features

- 360° rotating for pack tip
- Outstanding heating performance (Max. 400 °C)
- Comfortable grip
- Hold switch for safety
- Temperature range (140~400 °C) displayed in LED window
- Automatic off after 5 minutes

Type per customer's request

