

ADMED.com



Product catalogue 2019 | English







Greetings from our Founder



Welcome to Meta Biomed. Thirty years of business success speak for themselves: thanks to our dedication and innovative spirit, today we are a well-established name in the health and medical sector. We are committed to production excellence and guaranteeing customer satisfaction. We export our products to more than 80 countries and have been a driving force for innovation since our foundation. As a result of our research endeavours, we have not only consistently enhanced the quality of our own products, but have also made a long-term contribution to the further development of this entire industrial segment.

In the bio-engineering sector in particular, we have assumed a pioneering role with the development of alternative bone substitutes for Orthopaedic treatments. New and innovative products are on the verge of market maturity and will soon enable our customers to perform advanced treatments. As such, Meta Biomed is growing continuously and, looking toward the future, will continue to set great store by change and progress.

As a company in the health sector, we also have a particular responsibility vis-à-vis society. We remain continually focused on this responsibility and always do our utmost to ensure that every single product meets these standards. The entire Meta Biomed team embraces this responsibility with its shared values and rises to the daily challenges with creativity and dedication.

Seok Song Oh Founder Meta Biomed ADMED.com



Endodontic treatment

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Endodontic equipment

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memorpec

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Innovative solutions from A to Z





Aurum Blue™

Controlled Memory file

Blue – the colour of extraordinary elasticity and fracture resistance



Benefits

- O Unique Manufacturing Process
 Due to the unique heat and surface treatment during manufacturing,
 Aurum Blue files offer maximum flexibility without compromising strength
- Super flexible alloy
 Significantly reduces the risk of ledging, transportation or perforation of a canal
- O Bendability Easier access to a canal orifice
- O Electro-polishing surface treatment Removes imperfections and adds strength
- \bigcirc Shape recovery

Heat treatment during manufacturing allows for shape recovery during autoclaving



Comparison







Square shape: 20/.10, 20/.04 Excellent centering, fracture-resistant





Convex triangular shape: 25/.06, 35/.04 Resistant to torsional stress while maintaining flexibility



Aurum G™

Glide Path File

Benefits

 ${\rm O}$ Unique Manufacturing Process

Due to the unique heat and surface treatment during manufacturing, Aurum G files offer maximum flexibility without compromising strength

 \bigcirc Increased flexibility

With increased flexibility and more resistance to cyclic fatigue due to special heat-treatment, Aurum G offers many advantages over manual stainless steel files

O Electro-polished Removes surface imperfections



Contents	ID	Length Size	17 mm	21 mm	25 mm	31 mm
Sequence pack (20/.10, 20/.04, 25/.06, 35/.04)				•	•	•
CF (20/.10)		20	•			
T1 (20/.04)		20		•	•	•
T1.5 (25/.04)		25		•	•	•
T2 (25/.06)		25		•	•	•
T2.5 (30/.04)		30		•	•	•
T3 (35/.04)		35		•	•	•
T4 (40/.04)		40		•	•	•
T4.5 (45/.04)	\bigcirc	45		•	•	•

Aurum G, pack of 6

Contents	ID	Length Size	17 mm	21 mm	25 mm	31 mm
Assorted pack (13/.025 – 3 pcs., 17/0.25 – 3 pcs.)				•	•	•
13/.025		25		•	•	•
17/.025	\bigcirc	25		•	•	•

Aurum Blue, Aurum G – protocol





Aurum Pro™

Familiar Sequence, Different Flexibility



Benefits

- O Unmatched flexibility Heat-treated NiTi gives amazing flexibility, inhibiting transportation of root canal
- O The system you trust The most commonly used rotary file system
- O Incredible strength
 100% more resistant to cyclic fatigue than

Comparison



Source: Yonsei University, Dental Material Research Center *Not a Meta Biomed trademark

Matching GP and PP



Aurum Pro Gutta Percha Points



Aurum Pro Absorbent Paper Points

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Aurum Pro – protocol



Use MD-Chelcream and small hand files during the manual processing and securing of canals.

- O Use NaOCI during the mechanical processing or shaping of canals.
- Use Aurum Pro SX files over one or more rounds, or use Aurum Pro SX to move the coronal aspect of a canal from an external root concavity; remove the triangles from the dentine or create more shape.
- Rinse, repeat with a size-10 file, and rinse again after each time a rotating file is removed.
- O Clean and inspect the grooves on the rotating file on a regular basis.



- O Use Aurum Pro with a light brushing motion on the irrigated area in order to optimally prepare canals with irregular cross-sections and to allow easier permeation of the apical file.
- $\ensuremath{\bigcirc}$ Use Aurum Pro as needed to create a secure working length.



300 RPM/torque 1.5 Ncm

Rinse

R

Flush

Repeat

Controlled Memory NiTi Files | GL153

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GL153

with shape memory



Benefits

- $\ensuremath{\bigcirc}$ The series 10 instruments are available in Stainless Steel or Nickel Titanium
- Offered with the Standard handles or the unique D&S dual-purpose handle
- \odot GL153 is most effective when using constant downward pressure and a reciprocating motion with engine or by hand

Areas of application

 \odot The size 15 taper .02 is ideally suitable for preparing the glide path.

- O The taper .02 also allows for largely interference-free preliminary work up to the apex, which is a real benefit with regards to tactility.
- \bigcirc Method: slow backward movement.
- \odot With the careful selection of the GL153 Safe10 instruments, the number of instruments per channel can be reduced.

Significant fracture-resistance and unlimited flexibility with a 10 mm working part

Made in the USA



The optimised material structure and rounded cross-section of the GL153 make it easier to perform smooth and efficient canal preparation without damaging the tooth structure or risking a file fracture in the canal.

The production method occasionally has a significant impact on the fatigue strength and the torsional strength. An independent scientific study showed that the Controlled Memory wire used to produce the GL153 Safe10 series significantly increases the number of cycles: the instruments fail far later than comparable files on the market.



Step by step

Use a low-speed handpiece (500 UpM). A torque of up to 2.5 N cm (25 mN m) is recommended.



Packaging types

Assortment pack – 21 mm

File		Taper .04	Taper .06	Taper .08
ID	Length Size	21 mm	21 mm	19 mm
	20	714201	716201	-
	25	-	716251	718251
	30	714351	716301	_

Assortment pack – 25 mm

Single pack – 25 mm

Length

File

Size

15

20

25

30

35

40

ID

 \bigcirc

File		Taper .04	Taper .06	Taper .08
ID	Length Size	25 mm	25 mm	19 mm
•	20	714200	716200	-
	25	-	716250	718251
	30	714350	716300	-

Taper .03

25 mm

713150*

713200

713250

713300

713350

713400

Taper .04

25 mm

714150

714200

714250

714300

714350

714400

Single pack – 21 mm

File		Taper .02	Taper .03	Taper .04	Taper .06	Taper .08
Length ID Size		21 mm	21 mm	21 mm	21 mm	19 mm
\bigcirc	15	712151*	713151*	714151	716151	-
	20	712201	713201	714201	716201	-
	25	712251	713251	714251	716251	718251
	30	712301	713301	714301	716301	-
	35	712351	713351	714351	716351	-
	40	712401	713401	714401	716401	_

*Only available in the regular NiTi version.









Taper .02

25 mm

712150*

712200

712250

712300

712350

712400

Temperature and time specifications for autoclaves 25 mm

716150

716200

716250

716300

716350

716400

19 mm

_

_

718251

_

_

_



Gutta Percha Points

.02/.04/.06/.08/ Aurum Pro (F1~F3) Gutta Percha Points



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Benefits

- Long shelf life of 4 years
- O Rigid and flexible
- O Outstanding radiopacity
- ${\rm O}$ Different sizes, tapers and packs

Length markings



Size	&	specifications

02 cone: 10~140	
04, 06 cone: 15~80	
08 cone: 15~40	
Non-standardised: XF, FF, MF, F, FM, M, ML, L, XL	
Japanese style: JF-S, JF-M, JF-L, JS, JM, JL, JL-S, JL-M, JL-L	
De Trey style: XX-F, X-F, Fine, Medium	
Protaper size (F1~F5)	

~		
Sn.	acitic	atione
υµ	CUIIC	auons

Ci-o	Taper (points)			Deskoningtung	
5120	02 (120)	04 (60)	06 (60)	08 (60)	Fackaging type
10					
15					
20					
25					
30					
35					
40					
45					
50					
55					see page 16 →
60					
70					
80					
90					
100					
110					
120					
130					
140					

∞c∈

35

35

1.

Absorbent Paper Points

.02/.04/.06/.08/ Aurum Pro (F1~F3) Paper Points

15 20

META

Benefits

- \bigcirc Highly absorbent
- $\, \odot \,$ Sterilized individual packages
- O Various sizes and packages available
- \odot 5yrs Shelf life

Length markings



Size & specifications

02 taper: 15-140

04, 06, 08 taper: 15~80

08 taper: 15-40

Non-standardised:

 \cdot Non-standardised: XX-Fine, X-Fine, Fine, Medium, Coarse, X-Coarse

· Aurum Pro

• F1~F3

Specificat	ions				
Ci		Taper (points)			
Size	02 (120)	04 (60)	06 (60)	08 (60)	Packaging type
10					
15					
20					
25					
30					
35					
40					
45					
50					
55					see page 16 →
60					
70					-
80					
90					
100					
110					1
120					
130					
140					

Packaging types

Private labels are available in all packaging types









Pack of 6 vials (round)

○ Code: P.31
 ○ Regular point packs: GP: 60/120 points - PP: 60/200 points
 ○ Dimensions: 84 × 51 × 16 mm



Slide dispenser

O Code: P.71

- O Regular point packs: GP: 60/120 points PP: 60/200 points
- O Dimensions: 70 × 45 × 12 mm



Dispenser with 4 compartments

○ Code: P.51
 ○ Regular point packs: GP: 60/120 points – PP: 60/200 points
 ○ Dimensions: 70 × 45 × 13 mm





Endo organizer

O Code: P.11

- ${\rm O}$ Leak-proof, 12 compartments
- Size: ISO 15–80
- O Colour-coding available
- O Regular point packs: GP: 240 points, PP: 400 points



Absorbent Paper Points

- \bigcirc Code: P.61
- \bigcirc Regular point packs: 180/200 points
- O Dimensions: 163 × 54 × 11 mm
- Only available for PP

Metapex

 \rightarrow in CE certification process



O Outstanding antibacterial effect and radiopacity

- O Syringe-type for easy delivery of the paste into the canal
- O Disposable tips for prevention of cross-contamination

Components

2.2 g paste in a syringe (pack of 2 syringes available)

disposable tips

rotational joint for direction control of the tip

Dimensions: 228 × 61 × 22 mm

Weight: 46 g

Areas of application

 \bigcirc Weeping canal

O Formation of a hard tissue barrier (apexification)

O Root canal filling for deciduous teeth

O Internal and external root resorption

Composition

Calcium hydroxide, iodoform, silicone oil

Shelf life

2 years from the date of manufacture

Clinical cases

Apexification



Pulp necrosis on #21 of an 8-year-old boy as a result of trauma.



Around one year after treatment with Metapex

Root resorption



Internal resorption on the distolingual root



Root perforation due to inflammatory resorption



Metapaste



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Benefits

O Gentle cleaning and removal with good water solubility

O Outstanding antibacterial effect and radiopacity

O Pre-mixed paste

- O Syringe-type for easy delivery of the paste into the canal
- O Disposable tips for prevention of cross-contamination

Components

2.2 g paste in a syringe (pack of 2 available)

disposable tips

rotational joint for direction control of the tip

Dimensions: 228 × 61 × 22 mm

Weight: 46 g

Areas of application

O Weeping canal

- O Formation of a hard tissue barrier (apexification)
- O Root canal filling for deciduous teeth

O Internal and external root resorption

Composition

Calcium hydroxide, barium sulphate, polypropylene glycol

Shelf life

2 years from the date of manufacture

Clinical cases

Apexification







Three months later: \cdot The apical barrier is formed three months after the paste is removed



Six months later: · Outstanding healing with no further root absorption

To locate a genuine apical foramen



Approximately 1-2 months later, an X-ray image shows the location of the genuine apical foramen.

· Note the root resorption at the lateral surface

Before treatment:



ADSEALTM





- O Excellent biocompatibility
- O Easy-to-mix paste
- O Hermetic sealing capacity
- \bigcirc Nonstaining to the teeth
- ${\rm O}$ Insoluble in tissue fluid
- \bigcirc Good radiopacity

Areas of application

O Permanent sealing of the root canal

Ο	Iherma	lobturation

Components	
------------	--

13.5 g dual syringe	
9 g base (epoxy resin, calcium phosphate)	
4.5 g catalyst (amines, bismuth III carbonate)	
Spatula	
Mixing plate	
Dimensions: 55 x 180 x 40 mm	
Weight: 98 g	-

Composition

Shelf life

Base of epoxy resin oligomer, hydroxyethyl salicylate, bismuth III carbonate

Catalyst of polybutane diol amino benzoate, calcium phosphate, bismuth III carbonate

Properties

O working time: 35 minutes at 23°C (73°F) ○ Setting: 45 minutes at 37°C (99°F) O Film thickness: 3.3 μm

Flow













2 years from the date of manufacture



ZOB Seal

Root canal sealer with zinc oxide base





Benefits

- \bigcirc Good adhesion onto tooth material
- \bigcirc Good mixture consistency
- ${\rm O}$ Extraordinary radiopacity
- \bigcirc Excellent antibacterial effect

Areas of application

 \bigcirc Permanent sealing of the root canal

Properties



- 50 40 30 20 10 0 A B C D ZOB Seal

Radiopacity	5.18 mm/mmAl
Solubility	0%

Powder 15 g (zinc oxide) Liquid 7 ml (eugenol) Spoon

Mixing plate

Components

Dimensions: $63 \times 81 \times 70$ mm

Weight: 84 g

Composition

Zinc oxide powder, resin, bismuth III carbonate
Liquid eugenol, olive oil

Shelf life

2 years from the date of manufacture

MD-ChelCream

EDTA Cream for Root Canal Cleaning and Preparation



Benefits ^o Removal of inorg ⁱor filling than ⁱ the cle

- O Removal of inorganic substances through chelation (EDTA-Ca²⁺)
- O Easier filling thanks to lubrication effect

Areas of application

Root canal preparation with files and reamers
 Presence of calcifications in the canal

O Narrow canals in the premolars and molars

 \bigcirc Smear layer removal

O Produces the cleanest canal wall after smear layer removal

Components

MD-ChelCream 7 g (5.4 ml) × 2

Disposable tips

Dimensions: $186 \times 45 \times 30$ mm

Weight: 59 g

Composition

EDTA, PEG

Shelf life

2 years from the date of manufacture

Why not find out about our endodontic equipment too?



i-ROOT Fully automatic electronic apex locator





EQ-V Set Wireless device for root canal obturation



ES-100 Endodontic micromotor

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MD-Cleanser

EDTA Solution



Benefits

O Removal of inorganic substances by chelation (EDTA-Ca²⁺)

 \bigcirc Easier instrumentation by softening dentin canal wall

 ${\rm O}$ Produces the cleanest dentinal walls after smear layer removal

Areas of application

 ${\rm O}$ Presence of calcification in the canal

 ${\rm O}$ Narrow canals on posterior teeth

O Smear layer removal

O Root canal cleaning

Components

MD Cleanser: 100 ml

1cc syringe

Disposable tips

Dimensions: $106 \times 50 \times 53 \,\text{mm}$

Weight: 138 g

Composition

EDTA, PEG

Shelf life

2 years from the date of manufacture

Clinical cases



Methods of application



Following preparation of the root canal



Following application of the MD Cleanser (×1000)



Following application of the MD Cleanser (×7000)



NexPost

Fiber Post



Physical and chemical properties

Benefits

 \bigcirc Radiopaque

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- O Translucent
- \bigcirc Optimal flexural strength (close to dentine)
- $\ensuremath{\bigcirc}$ Excellent light translucency for efficient light-curing deep in the root canal

Strength test



Sizes







Translucency

Radiopacity

Scanning electron microscope





Fibreglass Composite resin matrix

Components

NexPost kit (pin ×20, drill ×5)

NexPost re-fill (pin ×5)

NexPost re-fill drill (drill ×1)

Composition

Glass Fibre, resin with Bis-GMA base

Shelf life

All dimensions in mm

3 years from the date of manufacture

CeraSeal

Calcium Silicate-based Bioceramic Root Canal Sealer



Benefits

ADME

O anti-microbial
 O optimal biocompatibility
 O excellent sealing ability
 O Unique stability

It's Calcium Silicate!



Calcium silicate produces CAH (Calcium Aluminate Hydrate) gel and CSH (Calcium Silicate Hydrate) gel by absorbing the moisture from surrounding tissues in the root canal and some crystallization of Calcium Hydroxide (Ca(OH)₂).

Anti Microbial, High Biocompatibility



This test result shows that even if CeraSeal has high pH (12.73), it proves high biocompatibility.

Bioactivity and cytocompatibility of new bioceramic sealer



Bioactivity and cytocompatibility of new bioceramic sealer: Ceraseal, 2018. By Rodríguez-Lozano FJ. et al

Excellent Sealing Ability

O Moisture in the dentinal tubules and Calcium Silicate's chemical reaction produce crystallization of Calcium Hydroxide

- O CeraSeal is perfectly and fully hermetic in the root canal
- O It prevents from the propagation of bacteria

Unique stability

O CeraSeal never shrinks or expands in the root canal O It prevents from odontoclasis by keeping its stable volume O The Single cone technique obturation can be performed

Shorter Setting time

→ prevents from wash-out phenomenon

The wash-out phenomenon can happen if the MTA or MTA based sealer is not sufficiently cured or the exudate is produced in the root canal. Consequently, the root canal sealer is washed away by physical forces. CeraSeal prevents by curing faster than other sealers.

Clinical Cases



Before After Courtesy of Dr. Walter Vargas Obando



Before Courtesy of Dr. Jenner O. Argueta

Physical Properties

After



Excellent Radiopacity: 8mm Al





Before Courtesy of Dr. Jenner O. Argueta



Before



Components

CeraSeal

2g Pre-mixed syringe × 1EA Intra canal tips × 15EA

Setting Time	3.5 h
рН	12 <
Radiopacity	8mm <

Root canal sealer | GuttaSil

GuttaSil

The Simplest way for obturation



enefits Simple obturation-technique O Dimensional stability Strong bonding O Excellent flowability

Combine with Master cone



Guttapercha-based sealer: excellent adhesive ability to GP.

Excellent flowability

O Thixotropic properties give better flowability

O Flows smoothly into smallest root canals

O enables three-dimension obturation in complex root canal systems

Dimensional stability

 \bigcirc No dimensional change in the root canal \bigcirc Enables to perform Single Cone Technique







Shrinkage

Bondingstrength (n)

30



3 Step Obturation – Remarkably Simple!





2 Insert the master cone with GuttaSil



Cut the excess GP

3

Clinical Cases

 \bigcirc Cold obturation with GuttaSil



Before



Before



After

Courtesy of Dr. Jenner O. Argueta



Before



Physical Properties

Setting Time (mins)	25
Working time (mins)	4
Film thickness (µm)	20

Courtesy of Dr. Jenner O. Argueta

Components

GuttaSil	GuttaSil dual syringe × 1ea Mixing tip (endo tips) × 12ea Mixing pad × 1ea Spatula × 1ea
GuttaSil Refil	GuttaSil dual syringe × 1ea

NexCore™

Dual-cured build-up material



Benefits

- ${\rm O}$ Suitable viscosity and flow for post cementation and core build-up
- \bigcirc Dual curing: light-curing and self-curing are possible, so no need to worry about incorrect resin polymerisation
- O Biocompatibiliy (ISO10993)
- O Easy-to-mix by auto-mixing type, Direct injection: Intraoral-tip, Endo-tip
- O Excellent radiopacity
- 3 shades (tooth, white and ceramic restoration blue: metal restoration) ○ Suitability for cutting (flexural modulus: NexCore 14.2GPa)

Composition

Barium glass, ytterbium(III) fluoride, pyrogenic silicic acid Bis-GMA, TEGDMA

Physical properties

Working time	1:50 ~ 2:20 min	
Setting time	4:00 ~ 5:00 min (self-curing) 20 ~ 40 s (light-curing)	
Flexural strength (light-curing)	20 ~ 40 s (light-curing)	
Water resorption, solubility	16.5/ 2.3 µg/mm²	
Radiopacity	Optical density corresponds to the optical density on a 4.2 mm aluminium step wedge	
Shade and colour stability	No change in colour and identical to the shade guide. *tested as per ISO 4049	

Areas of application

O Post-adhesions and core structures in restorations

Components

NexCore cartridge ×1 with 50 g paste, 30× Automix tip, 30× intraoral tip

NexCore cartridge refill ×1 with 50 g paste (shade: tooth, white, blue)

NexCore dual syringe ×2 with 9 g paste, 20× Automix tip,

10× Intraoral tip, 10× Endo-tip NexCore dual syringe refill ×1 with 9 g paste

Competitor A

Competitor B

NexCore

(shade: tooth, white, blue)

Radiopacity

Composition of physical property parameter





Flexural strength modulus – polymerisation shrinkage rate









Let it flow!

- Easy, quick and safe irrigation system:
- O Active Flow Technology
- O Flexible access to curved canals
- O The ultimate solution to safely and efficiently clean the root canal system.

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Endodontic equipment

Successful treatments with revolutionary equipment





i-Root

Electronic apex locator

-ROOT is the 5th generation dual-frequency apex ocator model. i-ROOT precisely measures the apical constriction without any measurement errors.



Benefits

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- O Optimal precision in all root canal conditions (dry, bleeding, wet, saline, EDTA, NaOCI or chlorhexidine etc. ...)
- O Simultaneous visual and sound measurement
- \bigcirc Colour display
- O Stylish and ergonomic design
- O Simple operation
- O Self-test to check the system
- O Automatic power-off function
- \bigcirc Stable and durable in a wide range of conditions
- O Computer monitoring and patient management via USB interface

Components

1i-ROOT main unit	
1 probe cable	
1 file holder A	
2 file holder B	
5 lip clips	

Specifications

Dimensions	W110 × H100 × D117 mm
Screen	W79 × H70 mm
Battery	Lithium-ion, DC 8,2 V, 2200 mAh
Continuous operation	60 hours
AC adapter	AC 100~240 V, (50~60 Hz)
Weight	390 g

Device	Battery	Connection to the monitor
i-ROOT S	Rechargeable battery	•
i-ROOT A	Rechargeable battery	×
i-ROOT 100	AA battery (×3 each)	×

EQ-S

Effective 3D irrigation for a successful root canal treatment.

Active Flow™ Technology



Benefits

 \odot Less pressure to the apical foramen

- \odot Easier access to curved canals
- \odot Perfect interaction with irrigant
- $^{\circ}$ Color coded

Rotational & Vertical Movement

Indentation along the tip, combined with counter clockwise motion, ensures 3D Active Flow[™]. The unique shape and design of the EQ-S tip create stronger force, which enhances flow in small canals.

Powerful Cleaning





SYSTE

U SYSTE



Specifications

Dimensions (W × H × L)	24 mm × 25 mm × 183 mm (Including tip)
Weight	43 g
Battery	1.5 V Alkaline (AA) – Not included in the Kit
Operation Time	9 hours (continuous operation)

Contents

Item Code	Description	Remark
026-210	EQ-S Gray Kit	Tips and Protective Sleeves included
026-220	EQ-S Pink Kit	Tips and Protective Sleeves included
126-230	EQ-S Tip 15/02	30ea/1set (Color: White)
126-240	EQ-S Tip 25/02	30ea/1set (Color: Red)
126-250	EQ-S Tip 35/02	30ea/1set (Color: Green)
126-260	Protective sleeve	100ea/1set

Testimonial



Dr Jenner Argueta, DDS, M.Sc.

My clinical feeling of EQ-S, as a multidirectional sonic device and the novel design of the activating tips, when working inside of the root canal is quite good. It is also useful in my clinical practice for removing medicaments, spreading bioceramic sealers inside of the root canal previous to the placement of the master cone and cements previous to the placement of fiber posts.



Dr Johnny Onori, DDS, M.Sc.

EQ-S is an innovative device, versatile, of easy clinical use, oering something that so far had not been seen in a sonic device. My clinical experience is the multidirectional movement of the tip causing more fluid dynamics, creating continuous waves and having better cleaning, disinfection and removal of the smear layer. High power can be used for irrigation or removing Calcium hydroxide and low can be used for spreading bioceramic sealer before placing the master cone.



EQ-V

Cordless root canal obturator

The new EQ-V system from META BIOMED, for the reliable, practical and precise obturation of root canals.



Benefits

ADMED.com

- ${\rm \bigcirc}$ Chemically resistant and ergonomically designed body (remains intact after one week of immersion in cavicide)
- \bigcirc Durable flexible GP Cartridge (both disposable and refillable cartridge are available)
- ${\rm O}$ Easy maintenance due to unique structure
- \bigcirc Outstanding heating performance

Specifications

Charger	Input	100–240 V
	Output	DC 9 V; 1.8 A
EQ-V Fill	Heater	DC 3.8 V; 8 W
	Heating Time	35 seconds
EQ-V Pack	Heating Time	1 second
Operating time	Fill	Continuous for 1.5 hours
	Pack	Continuous for 1.5 hours
Battery (Li-ion)	Li-ion	ICR 18650-26 (Samsung SDI) 3.8 V 2, 400 mA
	Charging time	3 hours

ltem no.	Description	FILL (R)	FILL (D)	PACK	Battery	Single charger	Dual charger	Point pack	Cartridge R (pack of 6)	Cartridge D (pack of 10)	GP Bar (×100)	Multi- instrument	Brush	AC adapter
EQV026	EQ-V Full kit (R)	1		1	3		1	2 (F, FM)	1 pack (25 G)		1	1	1	1
EQV028	EQ-V Full kit (D)		1	1	3		1	2 (F, FM)		1 pack (25 G)		1	1	1
EQV027	EQ-V Fill kit (R)	1			2	1			1 pack (25 G)		1	1	1	1
EQV029	EQ-V Fill kit (D)		1		2	1				1 pack (25 G)		1	1	1
EQV022	EQ-V Pack kit			1	2	1		2 (F, FM)						1

Contents



Benefits

- $\ensuremath{\bigcirc}$ Convenient cordless device using battery
- \bigcirc Cordless and electric motorized filling system
- \bigcirc New cartridge needle to refill GP pellet
- $\rm O~360^\circ$ rotation at both cartridge needle and pack tip
- \bigcirc High capacity lithium-ion battery
- O Simple, easy and quick to use

Specifications

Charger	Input	9.0 V
Dimensions	Single charging station	165 mm × 80 mm × 47 mm
$(W \times L \times H)$	Double charging station	230 mm × 80 mm × 47 mm
Adapter	Input	100-240V
	Output	9.0 V, 2.0 A
	Dimensions	84 mm × 46 mm × 32 mm
Genesys Pack	Dimensions ($W \times L \times H$)	153 mm × 27 mm × 25 mm
	Weight	90g (incl. battery)
	Operating voltage	3.6 V
	Temperature range settings	140, 200, 300°C
	Automatic switch-off	5 minutes
Genesys Fill	Dimensions ($W \times L \times H$)	223 mm × 27 mm × 26 mm
	Weight	177 g (incl. battery)
	Operating voltage	3.6 V
	Temperature range settings	140, 160, 180, 200°C
	Automatic switch-off	5 minutes
Battery	Lithium-ion battery	3.6 V, 1900 mAh



Obturation process – Fast, reliable and dense filling





Fit a master cone that matches the size and taper of the canal being obturated and trim the tip to 0.5mm short of the working length.

Select an EQ-V Pack Tip to reach a depth 4-6mm short of the working length.

Coat the bottom 3 mm of the master cone with sealer and insert it into the root canal. Remove excess gutta-percha using the EQ-V Pack Tip to 4–6mm short of the working length.

Condense the gutta-percha with a hand plugger to completely obturate the apical area and accessory canals.



Insert the EQ-V Fill's cartridge into the root canal and wait 5 seconds for it to heat.

4

Slowly pull on the trigger to back-fill the root canal with gutta-percha to the canal orifice.

5

Condense the hot gutta-percha with a hand plugger to achieve complete obturation of the root canal.

6





With the kind permission of Dr. Jenner O. Argueta



Before

After

With the kind permission of Dr. Álvaro Barrios Angulo



Before

After

With the kind permission of Dr. Walter Vargas Obando



ROOTOR

Electronic apex locator

Accuracy guaranteed by the latest multiple frequency technology meets compact and minimalistic dimensions for the most efficient endodontic treatment.

Benefits

ADMED.com

- ${\rm O}$ Precision in all root canal conditions
- (dry, bleeding, moist, saline, EDTA, NaOCI or chlorhexidine etc. ...) \bigcirc Colour display

FOTOOF

0

49 3

00

SOLDOS

3

METABIOMED

 \Box

- \bigcirc Stylish and ergonomic design
- O Automatic power-off to save battery life

O Stability and measuring reliability

Components

ROOTOR
probe cable
ip clips
2 file holder B
holder

Specifications

Rated voltage	DC 4.5 V (alkaline battery, size AAA DC 1.5 V ×3 each)
Input current	under DC 60 mA
Power consumption	under 0.27 VA
Patient leakage current	under AC 10 µA
Oscillation frequency	500 Hz ± 0.2 Hz, 5 kHz ± 0.002 kHz
Protection class and degree against electric shock	Inner current type equipment, type B equipment

Not available in Europe



Endomoto

Benefits

- ${\rm O}$ Powerful Performance with Long-lasting Battery
 - \cdot Stable Rotation: 250~800RPM (16:1)
 - · Torque: 0.6~6.4 NCM
 - · 10hrs of working time (2200mAh)
 - · Swiss Micro Motor
- Ergonomically Designed Body with Small Headed, Durable, Chemically Resistant Contra-Angle
 - · Remains intact after 1 week of immersion in Cavicide
- O Torque Auto-Reverse, Auto Forward, Reciprocation
- O Memory Functions
 - Memo 1 ~ 9
 - Memorizing RPM, Torque, Reverse Function, Rotation Direction

Components

1 control unit	
1 handpiece	
1 contra-angle	
1AC adapter	

Specifications – control unit

Rated input current	7.2 V, 1.2 A
Dimensions	ø16.7 × L63
Weight	443 g



With The



Auto Reverse

68-100

9

When the current torque is reached (1), the handpiece will run in an anti-clockwise direction (2), causing the file to run free and then stop (3).





Auto Forward

When the current torque is reached in Auto Forward mode (1), the file will automatically rotate in the opposite direction (2), causing it to run free, and will then continue to rotate in a clockwise direction (3).

EQ Condenser

Maximum flexibility for individual obturation techniques

Hand pluggers can be used with all standard obturation techniques including warm and cold condensation.



Benefits

○ Flexible NiTi tip

- \odot Smooth edge, flat end
- \odot Practical Length marking (5 mm from the tip)

 \bigcirc Anti-crack and rotation prevention

- O Color anodizing
- O Excellent chemical resistance
- $\bigcirc \mathsf{Lightweight}$

Specifications

NiTi tip	Marking	N40	N60 🗕	N80 🗢
	Working length	0.40 mm	0.60 mm	0.80 mm
	Taper	0.02	0.01	0.01
SUS tip	Marking	S80 •	S100 -	S120 🔵
SUS tip	Marking Working length	S80 • 0.80 mm	S100 - 1.00 mm	S120 • 1.20 mm



Benefits

 ${\rm O}$ No more sectioning

^O Gentle on root and crown

Useful tips

1

2

The distance between the purchase points must be at least 4 $\ensuremath{\mathsf{mm}}$

As shown in the image, it may be necessary to grip the tooth horizontally depending on the shape of the crown

Application – buccal



Application – lingual



EndoRing[®] II

Endo-Organizer





Package Contents

1 EndoRing II Assembly	1 EndoRing Cup
6 e-Foam Inserts	3 Finger Rings (S, M, L)
1 Metal Ruler	1 Reusable Cup
4 Single Use Cups	1 Adaptor Ring

Each Assembly Includes

Processing Instructions:

EndoRing Cup with Finger Ring GelWell Adaptor Ring GelWell Cup Metal Ruler (if equipped)	Precleaning Instructions: Disassemble the metal ruler (if equipped) and any reusable or single use GelWell cup or ring. Rinse all items under tap water to remove gross and visible soils. Use a scrub brush if necessary to remove visible soils. Place items in an ultrasonic bath with only an enzymatic detergent prepared to the manufactures directions. Fully immerse the items and soak for 1 minute. Then sonicate the parts for 5 minutes and remove and rinse for 15 seconds with tap water. Inspect for any soils and repeat if any soils are visible.		
	Autoclave Processing Instructions: Place items in an FDA approved autoclave pouch/bag. Using a gravity autoclave, process the items at 250° F (121° C) for 30 minutes. Allow the bagged articles to dry for 30 minutes. During autoclaving, place all components near center of the chamber.		
Single Use e-Foam Inserts DO NOT REUSE	Steam autoclave a new e-Foam insert prior to use. Unused or ultrasonically cleaned files may be placed in the e-Foam insert prior to processing. Autoclaving will not remove bioburden left behind from prior usage. The e-Foam insert, along with files, may be placed in an FDA approved autoclave pouch/bag prior to processing. Do not exceed temperature of 275°F (135°C). To avoid deforming the e-Foam insert, do not load or stack items on top of the e-Foam insert during autoclave processing. Dispose of after each use.		
ingle Use GelWell Cups IO NOT REUSE Always use a new single use GelWell cup for each procedure. Do not autoclave the cups because they will deform and or melt. Dispose of after each use. To disinfect, always use an FDA approved High Level Disinfectant and follow the manufacturer's instructions.			

Do not place any components into Surgical Milk, "cold sterilizing solutions" or instrument dips prior to autoclaving. **Only use enzymatic ultrasonic detergents** when precleaning the EndoRing cup and the metal ruler in ultrasonic cleaners.





A

Before assembly, choose one of three ring sizes (small, medium or large) that best fits your index finger. Slide the selected ring into the cup channel located beneath the scale.



Place the EndoRing e-Foam insert into the EndoRing cup. Pull the e-Foam insert out the bottom of the cup to seat the foam.





C

Prior to first use, autoclave the EndoRing cup with the metal ruler attached to the ruler platform. After the first autoclaving, the metal ruler will easily slide on and off the EndoRing cup. For subsequent autoclaving, always remove the metal ruler from the ruler platform.

WARNING: If the metal ruler gets loose, remove it and autoclave the EndoRing cup for 2 cycles to restore the retention feature.



Arrange hand files, rotary files or other instruments into the e-Foam insert. Remove all file bioburden prior to autoclaving files in the e-Foam insert. When using rubber stops, utilize the stop locks on either the built-in ruler or the detachable metal ruler to increase or decrease the instrument's working length. The rulers perform well with paper points, gutta percha and many other endodontic instruments. To efficiently clean instruments, simply pass them in and out of the e-Foam insert. You can also clean instruments by sliding them through the corrugated area on top of the e-Foam insert. Rubber stops can be safely added to instruments using the ports located on the back of the EndoRing cup.







The back of the EndoRing cup features the Endo Docking Station[™]. When held by an assistant, a doctor operating under a surgical microscope, can safely pass files into the expanded area of e-Foam. The area is also ideal for storing used files.



Attachments can be placed onto the EndoRing cup to hold lubricant or other lubricating gels and liquid. Use either the reusable 2.0ml cup (1) or the single-use clear .65ml cup (2) inserted into the attachment ring. These can be reversibly attached to either side of the EndoRing cup.



Restorative treatment

Maximum efficiency with excellent materials

A ADMED.com







Biner LC

Light-curing Type Cavity Liner



Benefits

ZADMED.com

- $\ensuremath{\bigcirc}$ O utstanding biocompatibility with dentine and pulp
- $\ensuremath{\mathsf{O}}$ Light-curing type cavity liner, extremly hard-curing
- $\ensuremath{\bigcirc}$ C hemical bonding to adhesives and composites
- $\ensuremath{\bigcirc}$ Insoluble in water and oral fluids
- \bigcirc Radiopacity
- \bigcirc Flow-on-demand operation and easy dispensing \bigcirc Heat barrier

Physical properties

Flexural strength	Over 100 MPa
Sensitivity to ambient light	60 seconds, homogeneous
Linear expansion	2 ~ 3%
Radiopacity	Yes
Curing depth (40 s)	2 mm

Areas of application

 \bigcirc Protection of the dental pulp

- O Lining under all filling materials
- O Protection when applying the total etch technique

Components

Biner I	LC 2 g	× 2 sy	ringes
---------	--------	--------	--------

10 disposable tips

Composition

Calcium hydroxyphosphate, UDMA, photoinitiator

Barium aluminium silicate

Shelf life

3 years from the date of manufacture



Benefits

O Polymer-thickened gel

- O Easy dispensing and application
- \bigcirc No residue, full rinsing
- \bigcirc Thixotropic properties (non-flowing)

Areas of application

O Conditioning of the surface for dentine and tooth enamel with composites and inlay/onlay

Components

 $3 g \times 3$ syringes, 20 tips

Composition

Phosphoric acid, H2O, xanthan gum

Shelf life

2 years from the date of manufacture

Clinical cases

Tooth enamel SEM



Before application of Meta Etchant (×2000)



After application of Meta Etchant (×2000)

Meta P&Bond

5th Generation Bonding System



Benefits

- \bigcirc Superior bonding strength
- $\odot\,5^{\mbox{\tiny th}}$ Generation adhesive
- \bigcirc One-step priming and bonding
- ${\rm O}$ Ethanol based adhesive
- \bigcirc Wet bonding type

Areas of application

- O Bonding for direct composite
- Bonding for porcelain, composite, metal repair, setting amalgam, post
- \bigcirc Bonding for porcelain veneer
- O Bonding for amalgam and indirect bonding methods with Metacem adhesive resin cement

Physical properties

Dentine shear bonding strength 10.75 MPa

Tooth enamel shear bonding strength 30.76 MPa

Components

Meta P&Bond 5 g

10x micro-brushes

Composition

Bis-GMA, PMGDM, 2-hydroxyethyl methacrylate, ethyl alcohol

Shelf life

2 years from the date of manufacture

halogen/LED lights with a light intensity of over 400 mV/cm² and a wavelength between 430 ${\sim}480$ nm

Nexcomp

Nano-Hybrid Composite Resin



Nexcomp

	Polymer-based principle organic components	Bis-GMA, Bis-EMA, urethane dimethacrylate, triethylene glycol dimethacrylate
ous shades / natural shape	Dimension range of inorganic filler particles	0.04 to 0.7 μm
	Volume percent of the total amount of inorganic filler particles	54 vol. %
	Recommended external energy source	Necessary specifications for the light-curing device: standard dental

Benefits

- O Low 1.6% shrinkage for superior marginal integrity, various shades
- O Filled with 40 nano-sized filler for excellent polishability
- O Optimal handling excellent sculptability for restoring natural shape and function
- \bigcirc Non-slumping, non-sticky

Areas of application

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

Physical and chemical properties



Components

Nexcomp kit:

- · 4 g × 7 syringes (A1, A2, A3, A3.5, B2, A2E, B2E)
- \cdot Meta P&Bond 5 g
- · Meta Etchant 3 g

Nexcomp Refill:

· 4 g × 1 syringe (A2E, B2E, A1, A2, A3, A3.5, A4, B1, B2, B3, C2, C3, D2, D3, TL, WT, OP, OA2, OA3) g

Composition

Bis-GMA, UDMA, Bis-EMA

Borosilicate glass

Shelf life

3 years from the date of manufacture

Nexcomp Flow

Nano Hybrid Flowable Composite Resin



Benefits

- O Low viscosity, light-curing, radiopaque flowing composite resin for minimally invasive cavity preparations.
- O With 40 nanofillers for excellent polishing capacity
- Flow-on-demand operation
- O Outstanding radiopacity
- O Available in 14 shades including opaque and transparent
- ${\rm O}$ No sinking or running out

Areas of application

- \bigcirc Restoration of the invasive cavity
- \bigcirc Hole and fissure sealing
- ${\rm O}$ Base and liner for direct restoration
- O Repair of temporary acrylic materials
- O Repair of indirect aesthetic restorations

Nexcomp Flow

Polymer-based principle organic components	Bis-GMA, Bis-EMA, urethane dimethacrylate, triethylene glycol dimethacrylate
Dimension range of inorganic filler particles	0.04 to 0.7 μm
Volume percent of the total amount of inorganic filler particles	37 vol. %
Recommended external energy source	Necessary specifications for the light-curing device: standard dental halogen/LED lights with a light intensity of over 400 mV/cm ² and a wavelength between 430~480 nm

Physical and chemical properties

Compressive strength (MPa)

Components

Nexcomp Flow set:

 \cdot 2 g × 5 syringes (A2, A3, A3.5, B2, B3), each with 20 disposable tips

Nexcomp Flow Refill:

 \cdot 2 g × 2 syringes (A1, A2, A3, A3.5, A4,B1, B2, B3, OA2, OA3, C2, D2, WT, TL), each with 10 disposable tips



Composition

Bis-GMA,	UDMA,	Bis-EMA	TMPTMA

Borosilicate glass

Shelf life

3 years from the date of manufacture

Flexural strength (MPa)





Metacem

Dual-cured Resin Cement



Benefits

- O Easy to use for indirect cosmetic restorations
- O high resistance to compressive force
- O Provides dual-curing for heavily shaded, thick or opaque closures
- 5 shades correspond with shade guide
 A1, A3, B2, TL (Translucent white), OP (Opaque)

Areas of application

- O Crowns and bridges (ceramic, composites, porcelain)
- O Inlay/onlay sealing
- O Bonding for porcelain veneers

Physical and chemical properties



- Setting time: 5 minutes
- Flexural strength: 99 MPa
- · Radiopacity: 2.33 mm Al/mm

Components

- Metacem set:
- \cdot 2 dual syringes (A3, transparent white, 9 g each)
- · P&Bond 5 g
- · 20 mixing tips
- \cdot Spatula
- \cdot 10 adhesive brushes
- mixing pad paper

• etchant 3 g

 \cdot 20 etchant disposable tips

- Metacem Refill:
- 1 dual syringe (A1, A3, B2, transparent white, opaque, 9 g each)

Composition

Base - Bis-GMA, DHEPT, borosilicate glass
Catalyst—Bis-GMA , TEGDMA, borosilicate glass
Shelf life

2 years from the date of manufacture



- Water absorption: 29.3 µg/mm³
- · Water solubility: 2.3 µg/mm³



MD-Temp Plus

Hydraulic temporary restoration



Benefits

- O Simple application and removal
- O Hermetic cavity sealing
- O Excellent stability with suitable compressive strength

Areas of application

O Temporary cavity filling

Physical and chemical properties



Shelf life

3 years from the date of manufacture

Components

4x white or pink paste in a glass container (40 g, 30 g, 20 g)

Dimensions: $40 \times 35 \times 39 \text{ mm}$

Weight: 52.5 g, 42.5 g, 32.5 g

Composition

Copolymer

Zinc oxide

Calcium sulphate

NexTemp HV/NexTemp LC

Light-curing temporary filling



Benefits

 \bigcirc High elasticity

- \cdot Tightness for margin sealing
- $\cdot \, \mathsf{Easy} \, \mathsf{application}$ and removal
- \cdot Excellent stability when set
- · Proper crush strength

Areas of application

 \odot Temporary treatment of the prepared cavity (1-6 days) \odot Temporary cavity filling

Components

NexTemp HV:	3 g × 3 syringes (TL, blue)
NexTemp LC:	$2 \mathrm{g} \times 3$ syringes, 10× disposable tips (TL, blue, yellow)

Shelf life

Nextemp HV:	2 years from the date of manufacture
Nextemp LC:	3 years from the date of manufacture

Application



NETC

Non-Eugenol Temporary Cement



Benefits

- \bigcirc Paste in a tube
- \bigcirc Working time: 1.5 minutes
- O Setting time: 6 minutes
- $\ensuremath{\bigcirc}$ Particularly suitable for patients with sensitive reactions to eugenol

Areas of application

 ${\rm O}$ Temporary sealing of crowns and bridges

Components

Type of tube: Base 40 g, catalyst 14 g, mixing pad	
Dual syringe design: 2 × 11 g each, 2 mixing tips each	
2 caps each, mixing pad	

Composition

Base – zinc oxide and mineral oil

Catalyst – resin and nonanoic acid

Shelf life

2 years from the date of manufacture

Physical and chemical properties

NETC

А



*NETC meets the requirements of ISO 3107 (type I, class 2B)

С

В



Benefits

O deep, uniform curing
 O compatible with all kinds of photo initiators
 O 5 programmes

O high intensity & focused light

High Intensity & Focused light

 \bigcirc High Intensity of 1800mW/cm² \bigcirc Enables deep and uniform curing of restoration

Dual Wavelength LED

 \bigcirc wide usability

 \odot Usable for all kinds of materials with 405nm & 460nm peak wavelength LED

Relative light intensity





5 types of light curing

- O User can select curing type according to treatment
- O High, Low, Soft start & Pulse mode
- \bigcirc flexible curing time

light curing modes



Special Features for user and patient





O Slim head & 330° head twist
 O comfortable to the patient
 O easy access to posterior teeth



3

 \bigcirc OLED Screen \bigcirc excellent readability

Specifications

Model	Glare
Wavelength	400~490 (nm)
Screen	OLED
Power source	Lithium-ion-battery 2400mAh
Light source	High power dual wavelength LED
Weight	approx. 130g



4

O Angled hand piece

 \odot High capacity battery \odot Ensures long operation time (with 2400 mAh)

Content

Туре	Glare
Hand piece	1
Charger	1
Adapter & Power Cord	1
Battery	1 (2400 mAh)
Disposable cover	2 (100 pcs/pack)
User manual	1



Benefits

- O Impressions of crowns, bridges or partial dentures
- O Accurate impression without bubbles because of hydrophilic property O Gypsum model will be effectively reproduced without transformation
- due to an excellent reproducibility and volume stability
- O Biocompatibility (ISO10993)
- ${\rm O}$ Compatible with other polyvinyl siloxane impression materials
- O Easy to mix by auto-mixing type

Areas of application

O Cavity impressions of veneers, inlay, onlay, crowns, bridges or partial dentures

Specifications

Туре	Contents
Putty	Base 450 g, catalyst 450 g, 2 measuring spoons each
Heavy	2 × 50 ml cartridges, each with 6 Automix tips Large pack 4 and 10 cartridges (without mixing tips)
Monophase	2 × 50 ml cartridges, 6 Automix tips, 6 intraoral tips, large pack 4 and 10 cartridges (without mixing tips, oral tips)
Light	2 × 50 ml cartridges, 6 Automix tips, 6 intraoral tips Large pack 4 and 10 cartridges (without mixing tips, oral tips)

Shelf life

2 years from the date of manufacture

Physical and chemical properties



Hardness (Shore A)

	MD-Flex						65			
λ.	Virtual* (Ivoclar Vivadent)							77		
Hea	Flexitime* (Heraeus)							70		
	Charmflex* (Denkist)					57				
	0	10	20	30	40	50	60	70	80	90

	Hardness (Shore A)									
d)	MD-Flex Light Body				49	9.5				
ohasi	Aquasil* (Detsply)					e	51.1			
ouo	Virtual* (Ivoclar Vivadent)					58	.1			
2	Flexitime* (Heraeus)			39	.9					
	0	10	20	30	40	50	60	70	80	90

*Not a Meta Biomed trademark

NexSil Bite

Bite registration

Benefits

- The fast-setting material offers rock-hard adjustment for excellent occlusal recordings
- \odot Due to the high final hardness of 90 Shore A and the high fracture toughness, the material is easy to cut and grind
- ${\rm O}$ Provides excellent results when recording images with intraoral scanners
- O Biocompatibiliy (ISO 10993)
- $\ensuremath{\mathsf{O}}$ Simple mixing thanks to automatic mixing mode

Physical properties

Working time (23°C)	Setting time (23°C)	Shore A
40 seconds	90 seconds	90

Components

Cartridges 50 ml ×2

Areas of application

O Used to produce an occlusion in the mouth

Shelf life

3 years from the date of manufacture

Providing quality. Taking responsibility.

Sponsorship

Meta Biomed has set up a sponsorship programme for children in need. As part of this programme, every member of the Meta Biomed family sponsors a child in need. Regular contact is maintained through letters, e-mails and pictures. Our responsibility towards these children goes hand in hand with our sense of duty vis-à-vis our company.

GL sponsoring

The Meta Biomed philosophy is not exclusively about delivering the highest possible product quality; we also aim to improve the quality of life for many people. We strive for success and wish to share this with others. And this is only possible thanks to your help. We would be delighted to provide you with details of how, together with us, you can support aid organisations or find ways for Meta Biomed to support your organisation. We are always open to new suggestions and ideas. We look forward to hearing from you!

Non-profitorganisations

Meta Biomed is proud to be able to promote and support its partners' aid programmes. Together with Dr. Jenner and ADIZ-ONG from Guatemala we donated 10% of our profits from the Greater New York Dental Meeting for charitable work. And this is just the start. We are already looking forward to getting involved in more exciting projects in the future!

Donations

We are always on the look-out for projects and organisations worthy of support. And we are not just focused on monetary donations. For example, we provide our products free of charge to our friends and partners at the Medical Faculty of the University of California in San Diego. We also support the Memorial Health Foundation and the Anderson Cancer Institute. Do you also wish to be supported by Meta Biomed? – Please do not hesitate to get in touch!

Bone graft

Safe and high-quality regeneration

DM Bone

Silicon ion with 60% HA, 40% B−TCP → in CE certification process

Benefits

- Silicon ion containing porous hydroxyapatite (Si content: 0.6% by weight)
- O Optimal balance HA and B-TCP with a ratio (%) of 60:40
- $\ensuremath{\bigcirc}$ The silicon-ion technology accelerates bone regeneration and activates healing
- \odot Excellent biocompatibility (no biological rejection, no disease transmission)
- \odot Excellent osteoblast activity with a large surface: 72% porosity

Pack details (1 vial/box)

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

Figure 1. Clinical and radiological view during the surgery. Intrabony defect (left), BoneMedik-DM positioned in defect.

Figure 2. Clinical view. Pre-operative (left) and six months post-operative (right), clinical view.

Figure 3. Radiological view of the test group. Pre-operative (left) and six months post-operative (right).

Figure 4. X-ray image of the control group. Pre-operative (left) and six months post-operative (right).

Areas of application

- O Periodontal defects
- Intrabony defects
- O Ridge augmentation
- O Implant preparation/placement at extraction sites
- $\bigcirc \, \mathsf{Sinus} \, \mathsf{lift}$
- O Cystic cavities

Patient case with implant

Sorbone

100% B-TCF

Benefits

- O Outstanding osteoconductivity
- O Accelerates bone regeneration and activates healing
- O Excellent biocompatibility (no biological rejection, no disease transmission)
- O Precise and problem-free implantation

Areas of application

O Implant preparation/placement at extraction sites

- O Easy to use
- O Porosity: 55-60%

O Periodontal defects O Intrabony defects O Ridge augmentation

Patient case

X-ray image before the implant (left) and after the implant (right)

Sorbone SEM observation

Sorbone chipform

Sorbone internal structure

Sorbone surface: Connected nanopores and micropores

GBR (flap opening)

Pack details – vials

O Sinus liftO Cystic cavities

Size		Weight						
0.3~0.5 mm	0.25 g	0.5 g	1.0 g	2.0 g				
0.5~1.0 mm	0.25 g	0.5 g	1.0 g	2.0 g				
1.0~2.0 mm	0.25 g	0.5 g	1.0 g	2.0 g				
2.0~4.0 mm	0.25 g	0.5 g	1.0 g	2.0 g				

Pack details – syringe

Size	Weight					
0.3~0.5mm			1.0 cc	2.0 cc		
0.5~1.0 mm	0.25 cc	0.5 cc	1.0 cc	2.0 cc		
1.0~2.0 mm	0.25 cc	0.5 cc	1.0 cc			

Benefits

Safety materials:

Highly purified type-I collagen membrane derived from porcine tissue

Comparison - tensile strength

Excellent Adhesion:

Excellent adhesion to bone loss section with good flexibility

High porosity:

Outstanding biocompatibility (no biological rejection, no disease transmission)

SorGuide™ ≈ 70%

TG-1	15×20	mm)	TG-2	(20
	10 20			~~~

× 30 mm) TG-3 (30 × 40 mm)

Comparison – duration of biological degradation

Brand	Duration of biological degradation
SorGuide™	3~5 months
B product	2-4 months

Clinical cases

After 4 months

Cover prior to application

Seam

After 4 months (vestibular view)

SorGuide™

After 4 months

Our Sutures Smooth Surface

Monotex is less porous than other PTFE sutures. The proprietary monofilament construction reduces the potential for bacterial migration into the surgical site and, unlike most monofilament sutures, its softness makes it comfortable for patients.

Monotex

Competitor A

Competitor B

Our Needles Sharper & Stronger

Our needles are made from 300 series stainless steel, which has greater tensile strength, higher ductility and less brittleness than 400 series stainless steel.

Stronger Needles – 100% increase in ductility

	\smile	\smile	\bigcirc	\smile
F S - 2	F S - 3	P - 3	P S - 2	TF
Reverse Cutting	Reverse Cutting	Premium Reverse Cutting	Premium Reverse Cutting	Taper Point
19 mm 3/8 Circle	16mm 3/8 Circle	13mm 3/8 Circle	19mm 3/8 Circle	13mm 1/2 Circle

Cobra Black[®] vs. Standard Needles Better Contrast & Visibility

The Cobra Black[®] needle uses a proprietary process that enhances visibility, especially in blood and smaller surgery sites. The Cobra Black[®] needles eliminate the hindering glare from the operating room lighting. The needles are more distinguishable than the standard stainless steel needles.

Needle Glare Reduction

CobraBlack[®]

Bright Steel

Better Contrast against Tissue

CobraBlack[®]

Bright Steel

CobraBlack[®] Needle

Code	Size		Lengt	ำ	Needle
T8000C	3-0 USP	2.0 EP	24"	60 cm	FS-3
T8001C	4-0 USP	1.5 EP	24"	60 cm	FS-3
T8204C	4-0 USP	1.5 EP	24"	60 cm	TF
T8604C	4-0 USP	1.5 EP	24"	60 cm	P-3
T8664C	2-0 USP	3.0 EP	24"	60 cm	FS-2
T8665C	3-0 USP	2.0 EP	24"	60 cm	FS-2
T8682C	4-0 USP	1.5 EP	24"	60 cm	PS-2
T8698C	5-0 USP	1.0 EP	24"	60 cm	P-3
T8695C	6-0 USP	0.7 EP	24"	60 cm	P-3

Ordering Codes

Standard Needle

Size		Length		Needle
3-0 USP	2.0 EP	18"	45 cm	FS-3
4-0 USP	1.5 EP	18"	45 cm	FS-3
4-0 USP	1.5 EP	18"	45 cm	TF
4-0 USP	1.5 EP	18"	45 cm	P-3
2-0 USP	3.0 EP	18"	45 cm	FS-2
3-0 USP	2.0 EP	18"	45 cm	FS-2
4-0 USP	1.5 EP	18"	45 cm	PS-2
5-0 USP	1.0 EP	18"	45 cm	P-3
6-0 USP	0.7 EP	18"	45 cm	P-3
	Size 3-0 USP 4-0 USP 4-0 USP 2-0 USP 3-0 USP 4-0 USP 6-0 USP	Size 3-0 USP 2.0 EP 4-0 USP 1.5 EP 4-0 USP 1.5 EP 4-0 USP 1.5 EP 2-0 USP 3.0 EP 3-0 USP 2.0 EP 4-0 USP 1.5 EP 2-0 USP 3.0 EP 3-0 USP 2.0 EP 4-0 USP 1.5 EP 6-0 USP 0.7 EP	Size Length 3-0 USP 2.0 EP 18" 4-0 USP 1.5 EP 18" 2-0 USP 3.0 EP 18" 3-0 USP 2.0 EP 18" 4-0 USP 1.5 EP 18" 5-0 USP 1.0 EP 18" 6-0 USP 0.7 EP 18"	Size Length 3-0 USP 2.0 EP 18" 45 cm 4-0 USP 1.5 EP 18" 45 cm 2-0 USP 3.0 EP 18" 45 cm 3-0 USP 2.0 EP 18" 45 cm 4-0 USP 1.5 EP 18" 45 cm 3-0 USP 2.0 EP 18" 45 cm 5-0 USP 1.0 EP 18" 45 cm 6-0 USP 0.7 EP 18" 45 cm

Other PTFE suture and needle combinations available upon request.

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