

Biøkey™

Mini Implant System

- Mini-Implant System
 - Anchorage Screw
 - Extension Hook
 - Maxillary Skeletal Expander
- Surgical & Dental Tools
- Maxillofacial Bone Plate



Mini-Implant System

The purpose of the Biokey mini-implant system is to provide orthodontists with simple and reliable ways to treat a full range of cases and to reduce treatment time.

As a professional orthodontic Biokey mini-implant system supplier, we have progressed from the design stage to the design and manufacturing stage.

The Biokey mini-implant system is a reliable anchorage device that simplifies the treatment process and greatly minimizes patient discomfort after insertion.

The Biokey mini-implant system is self-drilling and self-tapping; however, in extreme cases, a drill may be necessary.



Saving

Saving doctors and patients' time without extra wire and accessories.

Stable

Rectangular-hole provide better stability for 3D traction and torsion force.

Safe

No need to use extra wire to fix the archwire, and minimize the risk of injuring oral tissue and uncomfortable situation.

Simple

Easy and flexible to use the archwire.

Orthodontic Mini-Implant with Rectangular-Hole
Archwire Size Max 0.019**0.025

Anchorage Screw

Clinical Advantages

Safety Region

- (i) To avoid hurting thicker tissue.
- (ii) Variety of lengths can be chosen.

Taper Region

- (i) To release bone stress.
- (ii) To enhance the stability of insertion.

High Stability Region

To increase the resistance ability of pull-out and lateral force.

Spiral Mechanical Tip

To improve the efficiency of insertion without pre-drilling and less deformation of screw tip.

Biøkey™
Mini Implant System

Other Brands

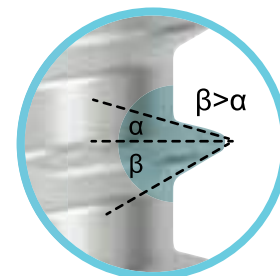
gum
cortical bone
cancellous bone

gum
cortical bone
cancellous bone

30°

Reinforcement Region

To provide stronger twisting strength.



Asymmetric Thread Shape

An optimal thread shape design which has been proven by simulated analysis.

Anchorage Screw Head Types



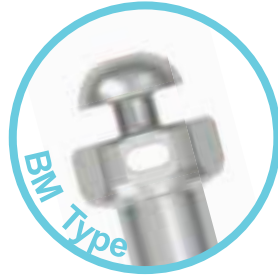
Classic Type

Smooth Cervical Surface Design

To avoid food residue and reducing inflammatory reaction.

Rounding Curved

To provide strong and stable anchorage base for the coil spring or o-ring.



Tradition Type

Stopper Structure

To avoid screw insert deeply.



Flat-Head Type

Flat Design

To avoid rubbing patient's oral tissue and reducing abnormal sensation.



Performance Type

Smallest Diameter (1.4mm) Screw

Designed for comfort and easy insertion into the narrow space between the teeth.



Hook-Head Type

Hook Design

Suitable for almost every kind of spring, wires, or special treatment.



Cap-Head Type

Cap Design

Can be used with metal springs, like TOMY®.

Specification

Head Type	Tradition Type Classic Type Cap-Head Type Hook-Head Type		Flat-Head Type		Performance Type
Model	Non-Hole Round-Hole Slot-Hole		Non-Hole Round-Hole Slot-Hole		Non-Hole Round-Hole
Length \ Diameter(φ)	Ø1.6	Ø2.0	Ø1.5	Ø2.0	Ø1.4
6mmL					
8mmL					
10mmL					
12mmL					
14mmL					

*All products can select stainless steel and titanium material.

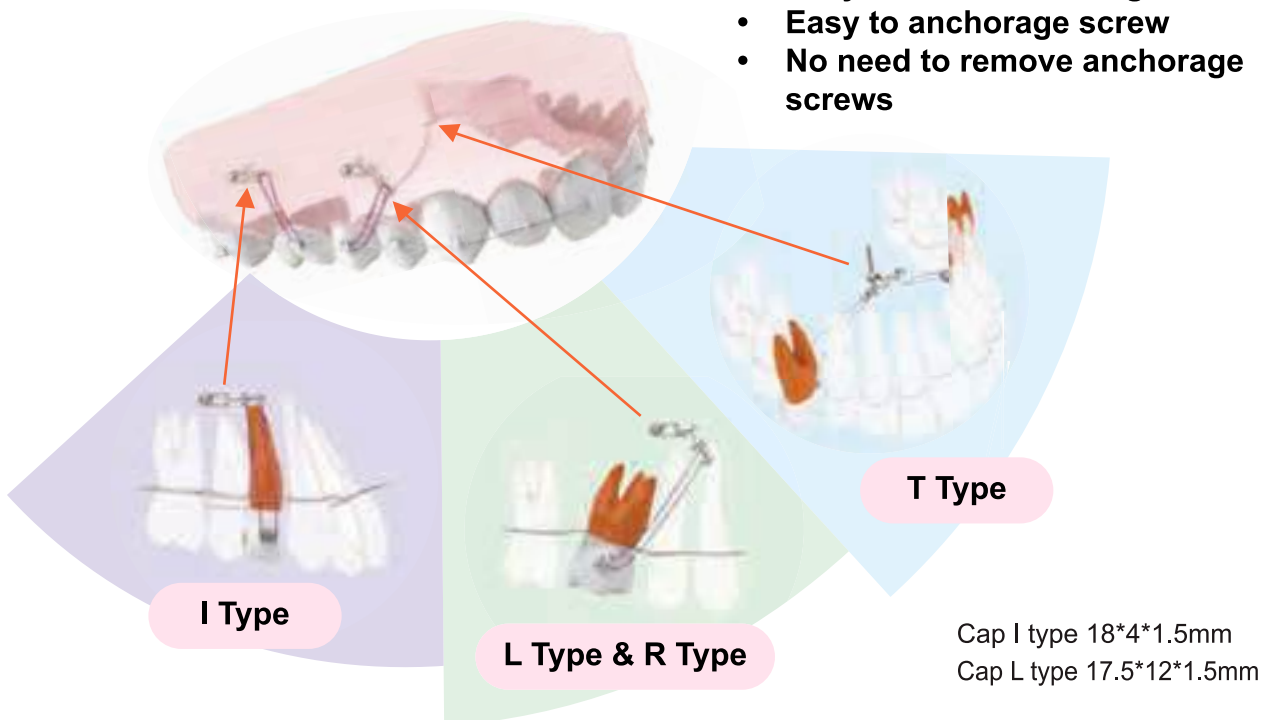
Extension Hook & Clinical Application

Expand the usage range of anchorage screw and it can reach the locations where anchorage screws can't be inserted.

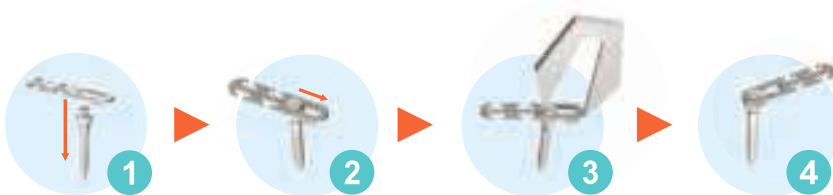
It can be used with Traditional Type, Flat-Head Type, and Classic Type.

Benefits

- Best traction
- Easy to the desired angle
- Easy to anchorage screw
- No need to remove anchorage screws



How to use the Extension Hook



- STEP.1 Take out the extension hook, clip the hook end with forceps, and expose the tightened end.
- STEP.2 Attach the anchorage screw to the tightened end and secure it at the desired angle.
- STEP.3 Ensure the desired angle, keep the extension hook clipped, and move the anchorage screw towards the tightening end.
- STEP.4 The installation is complete when the extension hook and the anchorage screw are securely.

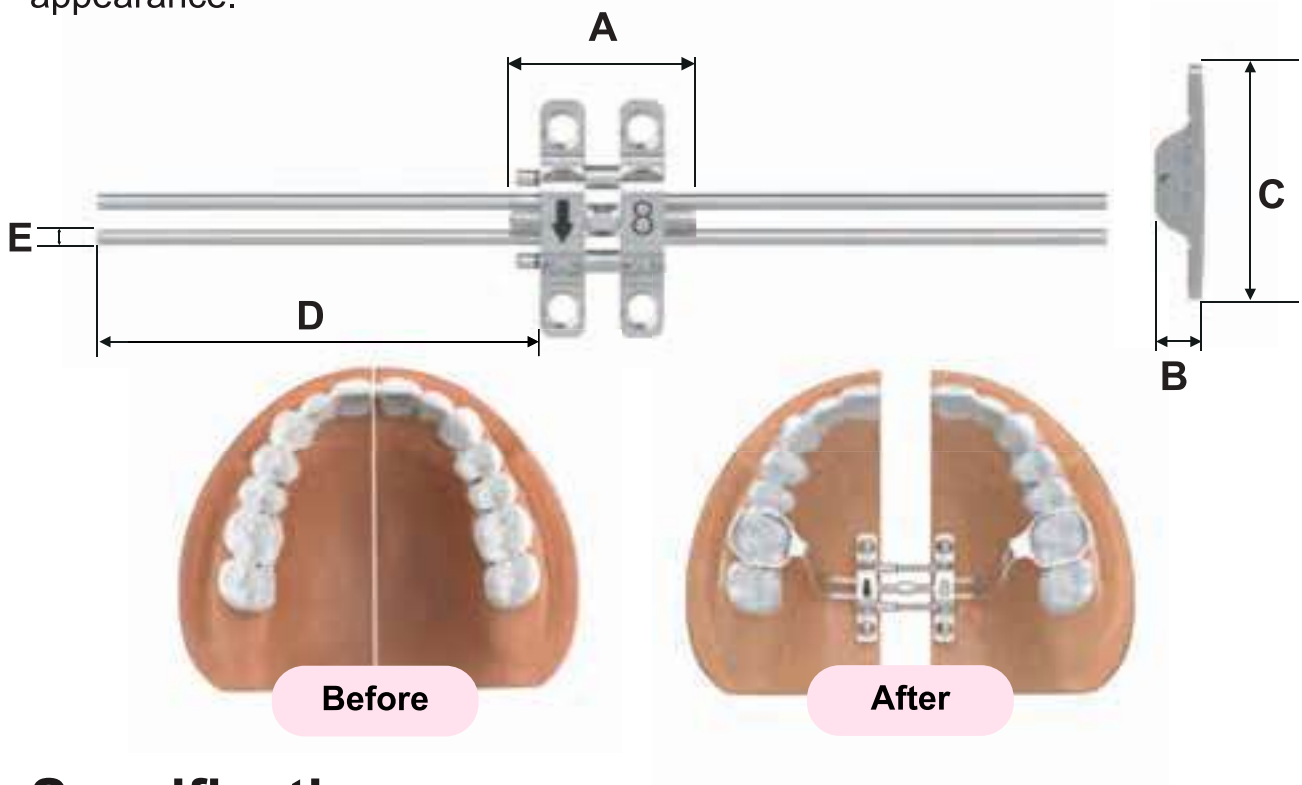


Remove the Extension Hook

When removing, apply force from the opposite direction with forceps to loosen the anchorage screw from the tightened.

Maxillary Skeletal Expander

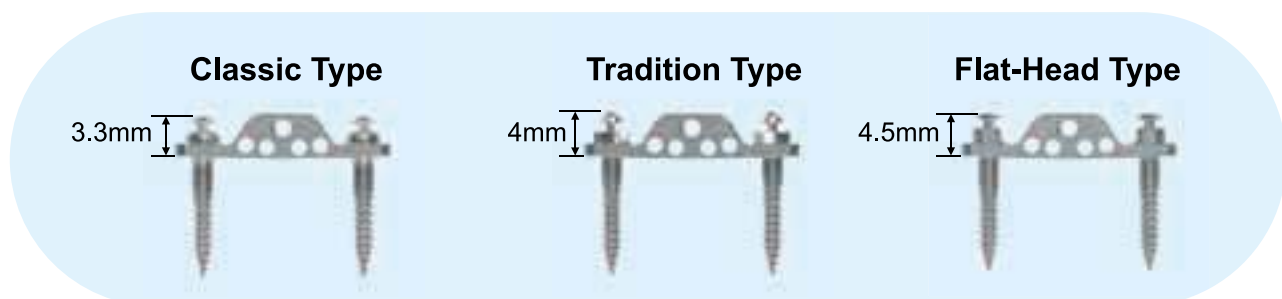
The Biokey Maxillary Skeletal Expander offers three benefits: it is thinner, has an inclination of up to 10°, and includes a scale mark. This orthodontic device is used to widen the upper jaw and palate, improving both bite and facial appearance.



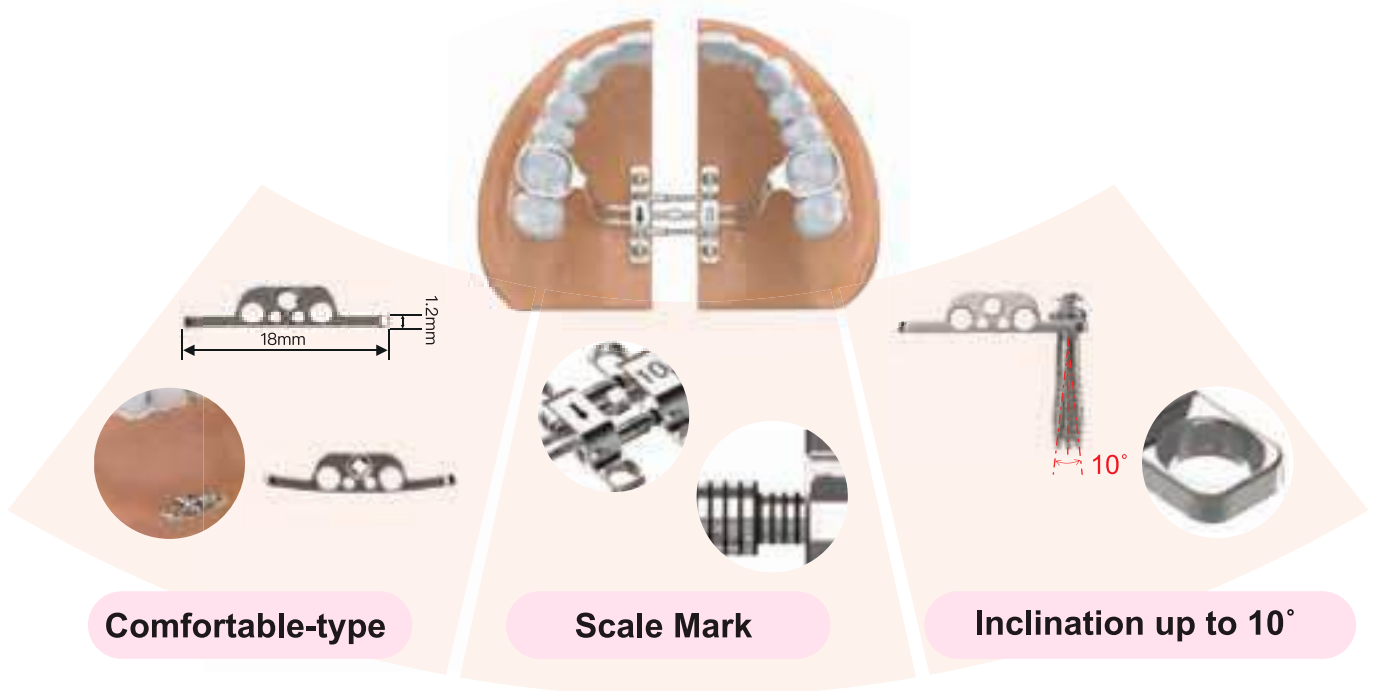
Specification

Model	Expander Size	A	B	C	D	E
BM2925-0	NO.8	15.7mm	4.3mm	20mm	37.2mm	Ø1.4mm
BM2926-0	NO.10	17.7mm	4.3mm	20mm	37.2mm	Ø1.4mm
BM2927-0	NO.12	19.7mm	4.3mm	20mm	37.2mm	Ø1.4mm

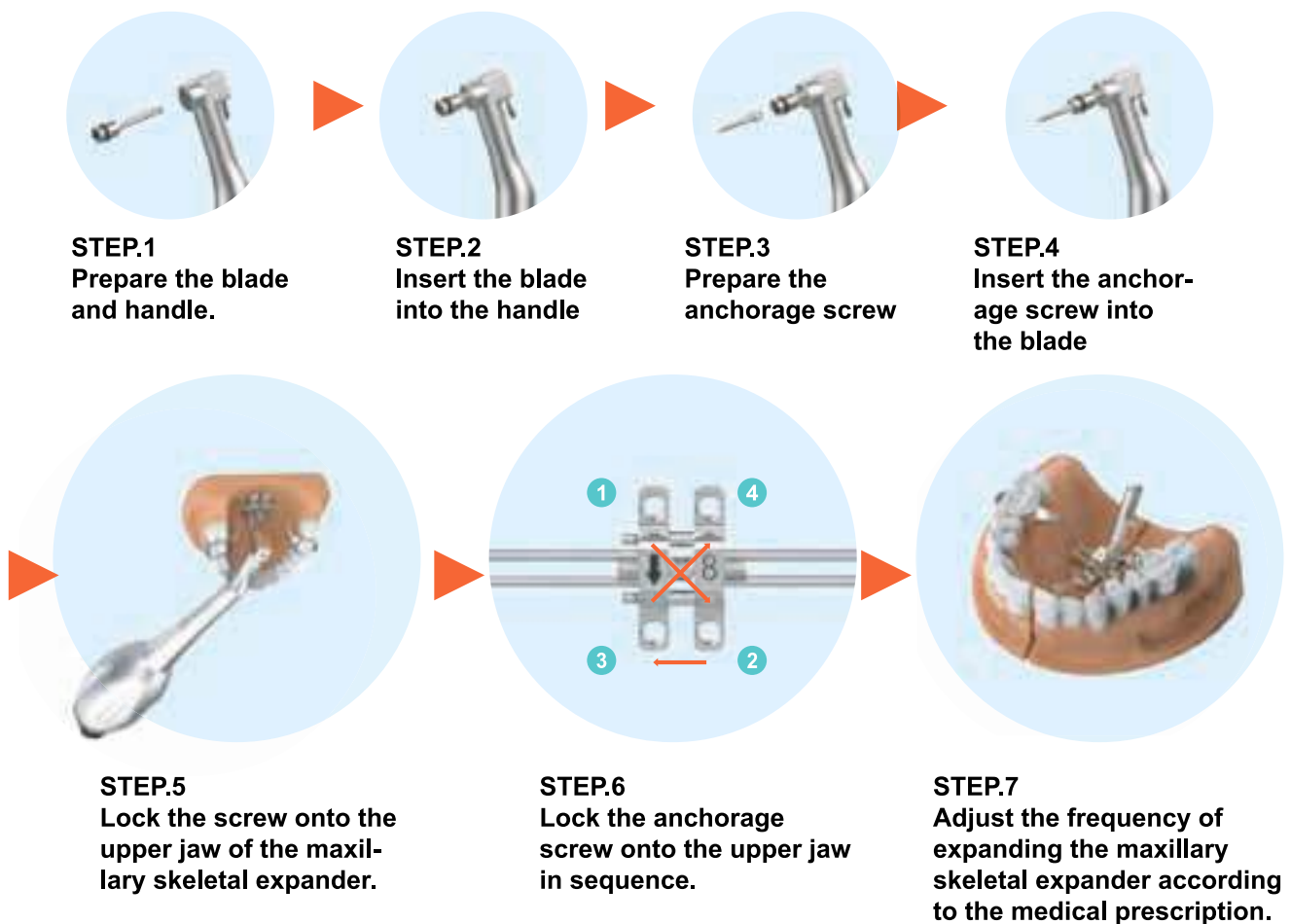
- Applicable to all types of anchorage screws for Biokey, especially the Classic Type.
- All products can select stainless steel and titanium material.



Benefits Of The Maxillary Skeletal Expander



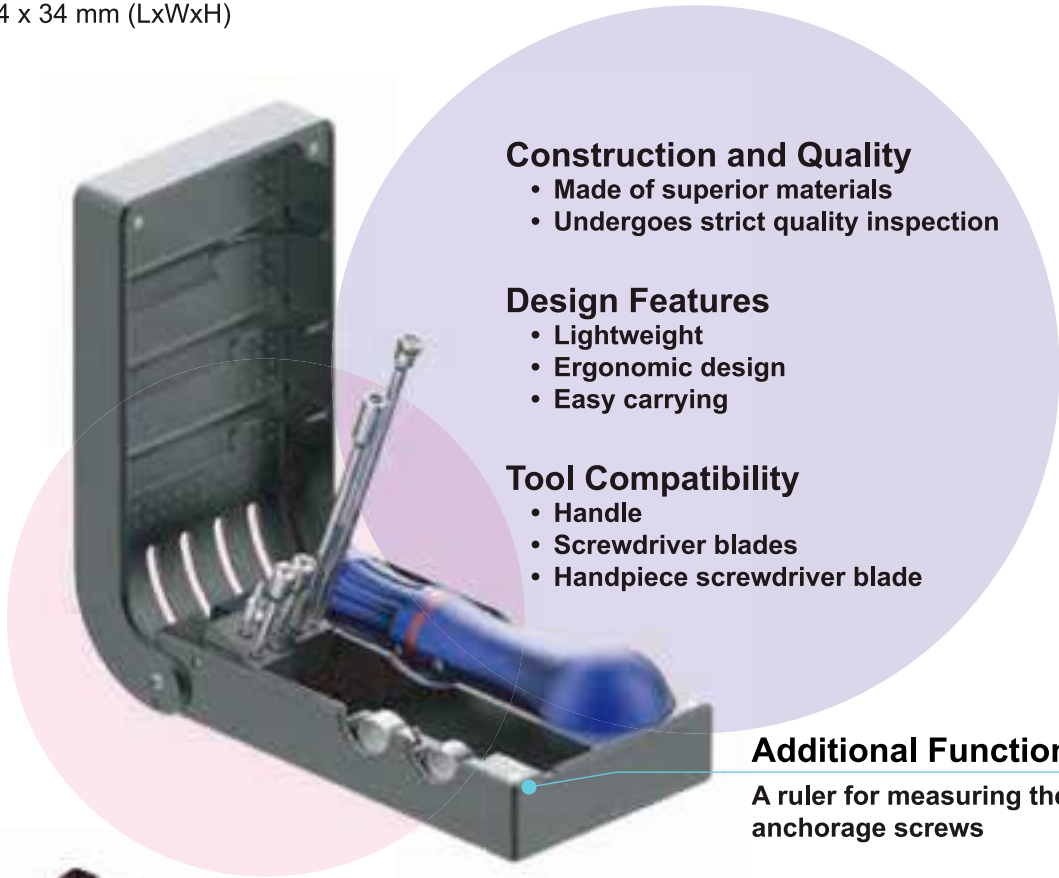
How to use the Maxillary Skeletal Expander



Surgical & Dental Tools

Instrument Case Lite

116 x 64 x 34 mm (LxWxH)





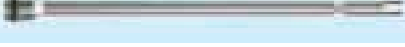

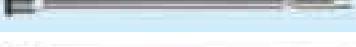
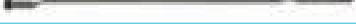
Instrument Case


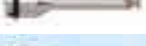

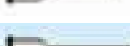

110 x 65 x 35 mm (LxWxH)

Other Dental Tools




Surgical & Dental Tools

Handle Blade	P/N	Length	Applicable Screw						
			AT	BM	FH	AY	CH	HH	
Φ1.4, Φ1.5, Φ1.6, Φ2.0									
	BM2906-0	70mm	V	V					
	BM2911-0	95mm	V	V					
	FH2901-0	80mm			V				
	AY2901-1	70mm				V			
	YM2901-1	70mm					V		
	HH2901-0	80mm						V	

Handpiece Blade	P/N	Length	Applicable Screw						
			AT	BM	FH	AY	CH	HH	
Φ1.4, Φ1.5, Φ1.6, Φ2.0									
	BM2905-1	21.6mm	V	V					
	FH2902-0	25mm			V				
	AY2903-0	22.5mm				V			
	YM2904-0	21.6mm					V		
	HH2902-0	25mm						V	

Handle	P/N	Length	Applicable Screw					
			AT	BM	FH	AY	CH	HH
	BM2903-2	100mm	V	V	V	V	V	V
	BM2913-0	100mm	V	V	V	V	V	V
	YM2903-0	87mm	V	V	V	V	V	V
	AY2902-0	100mm	V	V	V	V	V	V

Mini Handle 

Drill  Φ1.0*8mm

Drill  Φ1.3*10mm

Handpiece Torque Ratchet Wrench Driver



Spring Lock:
Rotate the spring lock clockwise, install the Hex Implantor Driver, then rotate it counterclockwise to tighten.

After removing the tool from the handpiece, you can freely detach the top (handle) and main body parts for easy autoclaving (recommended).

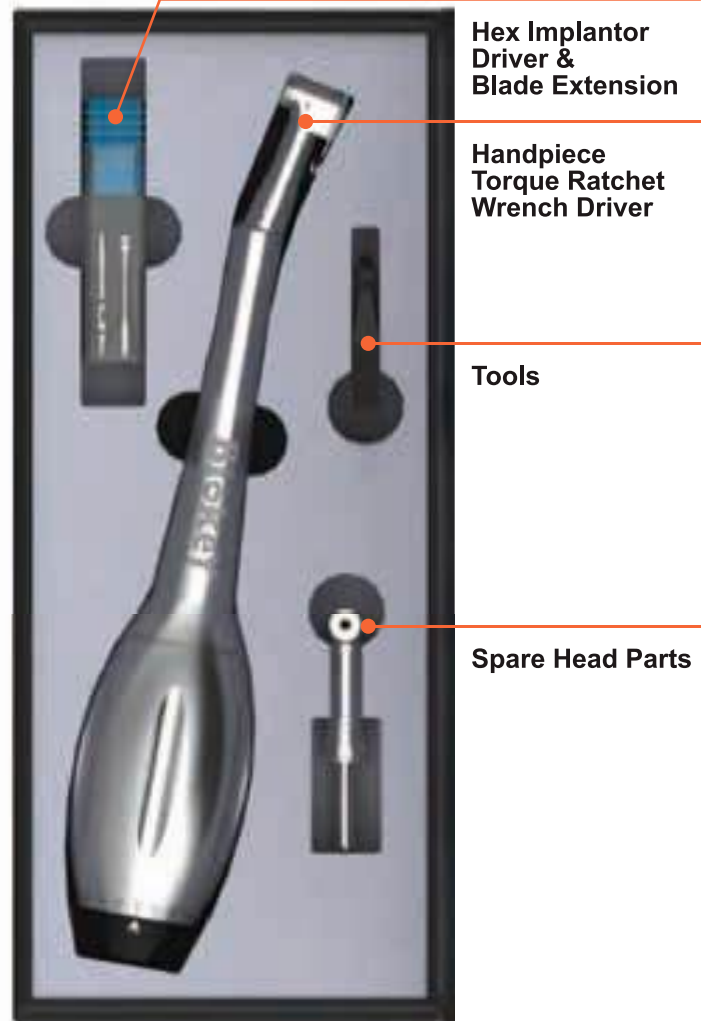
Operation:
After selecting the appropriate torque value, rotate the handle clockwise until it clicks. (To un screw, simply rotate counterclockwise.)

Torque Selection and Adjustment:

Facilitates setting torque (5~35 N/cm) and makes it easier to adjust. Rotate the knob clockwise to increase the torque.



Handpiece Torque Ratchet Wrench Driver Kit



Hex Implantor Driver & Blade Extension

Handpiece Torque Ratchet Wrench Driver

Tools

Spare Head Parts

Handpiece Blade	P/N	Length	Applicable Screw					
			AT	BM	FH	AY	CH	HH
	BM2905-1	21.6mm	●	●				
	FH2902-0	25mm			●			
	AY2903-0	22.5mm				●		
	YM2904-0	21.6mm					●	
	HH2902-0	25mm						●

Maxillofacial Bone Plate

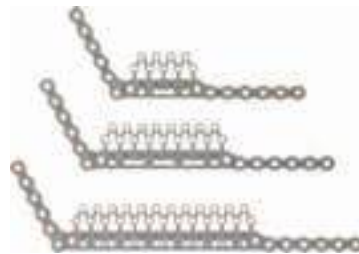
Made of medical-grade metal, which is better than traditional bone plates for maxillofacial surgery.

- Wider design to cover mandibular bone for increased support.
- More fixation holes for various directions.
- The thickness-tapered design is a perfect fit for the bone's shape.



L Angle-Arc-Plate

R Angle-Arc-Plate



Chin-Arc-Plate (S)

Chin-Arc-Plate (L)



Full-Bar-Plate





Our Consultant

Henry Hann-Min Hwang DDS, MS

Present position

1. Attending Physician, Gentlex Dental Clinic & Neo Renaissance Dental Clinic, Taiwan
2. Instructor, Post Graduate Year (PGY) Doctor Training Program, Taiwan
3. Clinical Advisor & Lecturer, ClearCorrect, Straumann Group
4. Clinical Advisor, Print E Technology, Taiwan
5. Lecturer, TrioClear, Modern Dental Group

Educational background

1. M.S., Graduate Institute of Clinical Dentistry, National Taiwan University, Taiwan
2. D.D.S., School of Dentistry, National Taiwan University, Taiwan

Professional background

1. Board Certification, Taiwan Board of Orthodontics, Taiwan
2. Membership of Orthodontists, Taiwan Association of Orthodontics, Taiwan
3. Membership, Taiwan Association of Aligner Orthodontics, Taiwan
4. Membership, World Federation of Orthodontists
5. Curriculum Organizer, Invisalign University Program, National Taiwan University
6. Fellowship, Division of Orthodontics, National Taiwan University Hospital, Taiwan

Research publication

1. Architectural changes in alveolar bone for dental decompensation before surgery in Class III patients with differing facial divergence: a CBCT study. Scientific Reports. 10, 14379, 2020.
2. An Overview of Digital Intraoral Scanners: Past, Present and Future - From an Orthodontic Perspective, Taiwan Journal of Orthodontics. 30(3):148-162, 2018.

Syllabus of TAD Course

Essentials for TADs Beginners
-Concept of Anchorage in Orthodontics
-Types of TADs
-Sites of Placement

Clinical Application of TADs
-Considerations of Biomechanics
-Techniques about TADs Placement
-TADs with Clear Aligner

Keys to Successful Orthodontic Treatment with TADs
-Common Problem
-Case Discussion

Promotion Service: Course

We can offer professional courses for doctors using the Biokey mini-implant system for orthodontic treatments. These courses, ranging from basic to advanced, are personally guided by our consulting professors, enabling doctors to thoroughly understand and effectively apply Biokey products in clinical practice.



TAD Course, Taipei,
2024



Biokey Lecture, Macao,
2023



JJOC Orthonigma Course,
Indonesia, 2023



Microimplantes en Orthodoncia,
Argentina, 2019



Congreso Internacional de
Orthodoncia, Mexico, 2019



Mini-stage, Kaohsiung, 2018

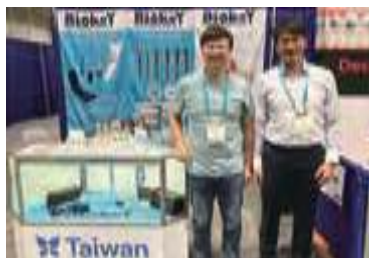


TAD 3-Day Course, Taipei,
2018

Promotion Service: Exhibition Collaborations

Exhibition Collaborations:

We participate in various international dental exhibitions, including APDC, FDI, HKIDEAS, IDEM, IDS, among others, to showcase and promote Biokey brand products. Through these exhibitions, we engage with industry professionals, share the latest technologies and treatment solutions, and provide a platform for doctors to gain insights into Biokey products.



AAO Annual Session, 2024



IDEM Singapore, 2024



FDIWDC, 2023



APDC&IDEAHK, 2023



IDS Cologne, 2023



EXPODENT INTERNATIONAL INDIA INDIA, New Delhi, 2019



IDEX Istanbul, 2019



IDS Cologne, 2019



AEEDC Dubai, 2018

Product Registration

Biokey Product Registrations in the Following Countries: U.S. Food and Drug Administration / Singapore Ministry of Health, Health Sciences Authority / Mexico Ministry of Health / Malaysia Medical Device Authority / Thailand Food and Drug Administration / Argentina - Poder Ejecutivo Nacional / Turkey Ürün Takip Sistemi / Italy - Ministero della Salute / The Spanish Agency of Medicines and Medical Devices / India - Central Drugs Standard Control Organization / Colombia - Instituto Nacional de Vigilancia de Medicamentos y Alimentos



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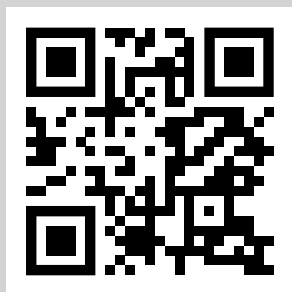
Facebook: www.facebook.com/bomeicoltd

Whether you are seeking professional training courses or interested in understanding our product showcases at exhibitions, we look forward to establishing a deeper collaboration with you.



Leading High Precision Medical Engineering in the World

BM250212



website

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