Dentos Inc.

For better orthodontic solutions

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Dentos

Orthodontic Microimplant (AbsoAnchor®) System

Microimplant - 8th ed (January. 2010)

For better orthodontic solutions

Dentos since 2001
If you are with us, you are already the best.
If we are with you, we are always the best.

AbsoAnchor Dentos

Dentos
AbsoAnchor

Shift of **Paradigms** in Orthodontics

Microimplant (AbsoAnchor®) for orthodontic anchorage

Abso-Anchor microimplant is a titanium screw for orthodontic anchorage that is used by implanting on maxillary and mandibular bone, and acts as a fixing agent, providing **a fixed anchorage point for attachment of orthodontic appliances to facilitate the orthodontic movement of teeth.**

The 1st Pioneers in Microimplant Anchorage (MIA)

Dr. Seong-Min Bae : DDS, MS, PhD

1984~90 : DDS, College of Dentistry, Kyungpook National University, Daegu, Korea
1990~93 : Intern & Orthodontic residency, Infirmary Hospital, Kyungpook Natl. Univ.
1997~99 : Full time instructor, Dept.of Dentistry, Catholiic Univ., Daegu, Korea
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2001.11~Present : Visiting Associate Professor, Dept. of Ortho. Univ.of Oklahoma, Oklahoma, USA
2003.3~present : Associate Professor, Department of Orthodontics. School of Dentistry, Kyungpook Natl. Univ.

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1991~92 : Visiting Professor, Dept. of Ortho. Faculty of Dent., Osaka Univ., Japan
1996~97 : Visiting & Clinical Associate Professor, Dept. of Ortho., Faculty of Dent., The Univ. of British Columbia, Canada
2001.1~2003.1 : Dean, College of Dent., Kyungpook Natl. Univ.
2004.10~present : Chairman, Dept. of Ortho., School of Dent., Kyungpook Natl. Univ.

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1966~72 : DDS, Dental College, Seoul Natl. Univ., Seoul, Korea
1972~75 : Intern & Orthodontic Residency, Dental Hospital, Kyunghee Univ., Seoul
1985~86 : Visiting professor, Univ. of Michigan, MI, USA
1978~2004 : Full time instructor, Professor and Chairman, Kyungpook Natl. Univ.
1989.2~1993.2 : Dean, Dental school, Kyungpook Natl. Univ.
1998.4~2000.3 : President, Korean Association of Orthodontists
2004.8~present : Professor emeritus, Kyungpook Natl Univ., Holding Private clinic.

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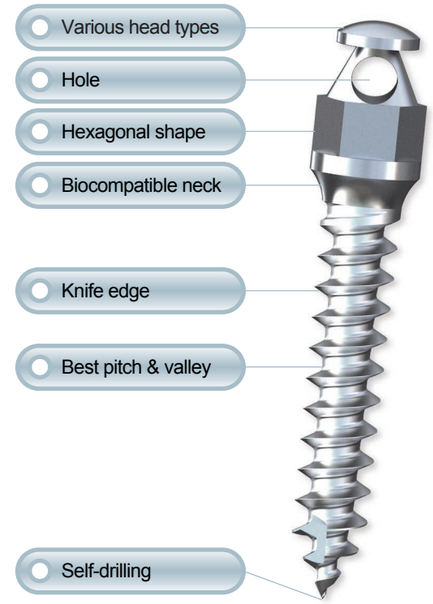
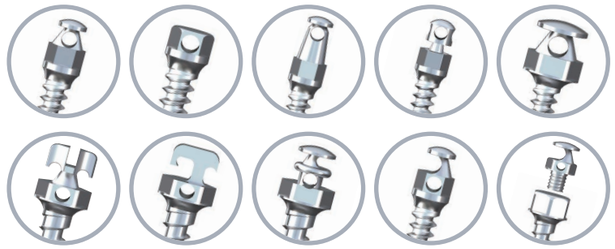
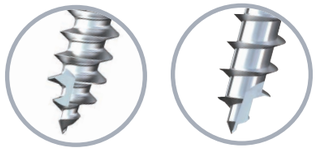
Distinctive Characteristics

- Various head types
- Hole
- Hexagonal shape
- Biocompatible neck
- Knife edge
- Best pitch & valley
- Self-drilling

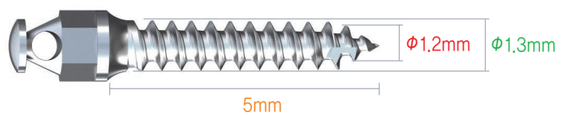




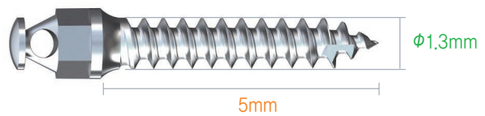


Nomenclature of AbsoAnchor® Microimplant codes

Tapered type – **SH 1312 - 05**



Cylinder type – **SH 13 - 05**



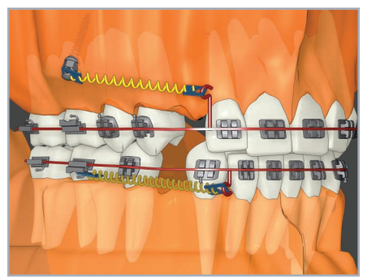
Raw Material : Titanium Alloy (Ti6Al4Va)

Variable Clinical applications include

1. Six anterior *en masse* retraction
2. Molar intrusion, extrusion, distalization, protraction & uprighting
3. Whole maxillary & mandibular dentition retraction
4. Midline correction
5. Anterior intrusion, extrusion & torque control
6. Intermaxillary elastics
7. Intermaxillary fixation
8. Combination use of Transpalatal Arch
9. Perfect for lingual orthodontic treatment
10. Various direct and indirect skeletal anchorage

Types of Absoanchor Microimplant

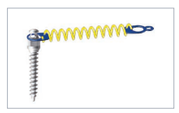
Several types of Absoanchor microimplants are available for different tasks and sites.

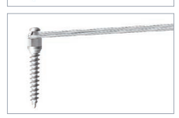


Absoanchor Small Head(SH) Type

Recommended Sites
Maxillary and mandibular attached gingiva including the palate.

Recommended Elastomers
Nickel titanium coil spring, elastomeric thread, etc.

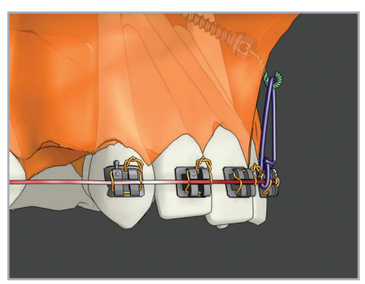




01. Small Head Type (Non-Sterilized and Sterilized)

* Commonly used sizes

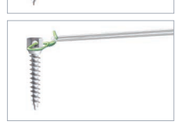
Series	Diameter (Φ)	Code					
		5mm	6mm	7mm	8mm	10mm	12mm
12 Series	Φ1.2	SH 1211-05	SH 1211-06	SH 1211-07	SH 1211-08	SH 1211-10	SH 1211-12
13 Series	Φ1.3	SH 1312-05	SH 1312-06	SH 1312-07	SH 1312-08	SH 1312-10	SH 1312-12
14 Series	Φ1.4	SH 1413-05	SH 1413-06	SH 1413-07	SH 1413-08	SH 1413-10	SH 1413-12
15 Series	Φ1.5	SH 1514-05	SH 1514-06	SH 1514-07	SH 1514-08	SH 1514-10	SH 1514-12
16 Series	Φ1.6	SH 1615-05	SH 1615-06	SH 1615-07	SH 1615-08	SH 1615-10	SH 1615-12
20 Series	Φ2.0	SH 2018-05	SH 2018-06	SH 2018-07	SH 2018-08	SH 2018-10	SH 2018-12
12 Series	Φ1.2	SH 12-05	SH 12-06	SH 12-07	SH 12-08	SH 12-10	SH 12-12
13 Series	Φ1.3	SH 13-05	SH 13-06	SH 13-07	SH 13-08	SH 13-10	SH 13-12
14 Series	Φ1.4	SH 14-05	SH 14-06	SH 14-07	SH 14-08	SH 14-10	SH 14-12



Absoanchor No Head(NH) Type

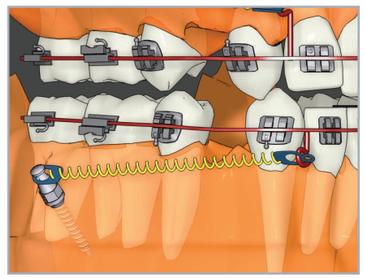
Recommended Sites
Maxillary and mandibular movable soft tissue.

Recommended Elastomers
Elastomeric thread with ligature wire hook, etc.



02. No Head Type (Non-Sterilized and Sterilized)

Series	Diameter (Φ)	Code		
		5mm	6mm	7mm
12 Series	Φ1.2	NH 1211-05	NH 1211-06	NH 1211-07
13 Series	Φ1.3	NH 1312-05	NH 1312-06	NH 1312-07



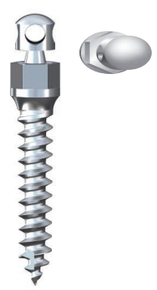
Absoanchor Long Head(LH) Type

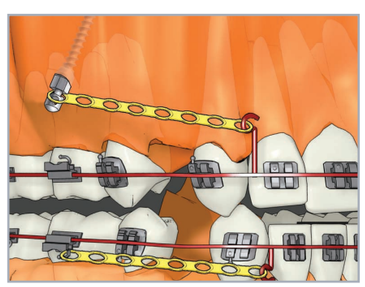
Recommended Sites
Border area between mandibular attached gingiva and movable soft tissue.

Recommended Elastomers
Nickel titanium coil spring, elastomeric thread, etc.

03. Long Head Type (Non-Sterilized and Sterilized)

Series	Diameter (Φ)	Code					
		5mm	6mm	7mm	8mm	10mm	12mm
12 Series	Φ1.2	LH 12-05	LH 12-06	LH 12-07			
13 Series	Φ1.3	LH 13-05	LH 13-06	LH 13-07			
15 Series	Φ1.5	LH 1514-05	LH 1514-06	LH 1514-07	LH 1514-08	LH 1514-10	LH 1514-12

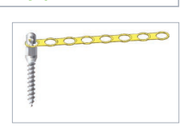




Absoanchor Circle Head(CH) Type

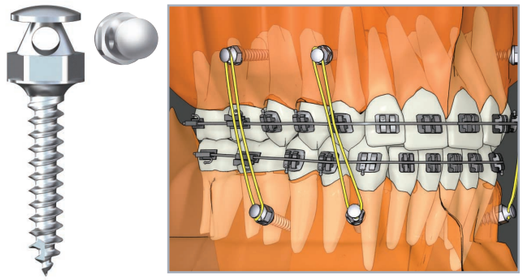
Recommended Sites
Maxillary and mandibular attached gingiva including palate.

Recommended Elastomers
Power chains, elastomeric thread, nickel titanium coil spring, etc.



04. Circle Head Type (Non-Sterilized and Sterilized)

Series	Diameter (Φ)	Code				
		6mm	7mm	8mm	10mm	12mm
13 Series	Φ1.3	CH 1312-06	CH 1312-07	CH 1312-08	CH 1312-10	CH 1312-12
14 Series	Φ1.4	CH 1413-06	CH 1413-07	CH 1413-08	CH 1413-10	CH 1413-12
15 Series	Φ1.5	CH 1514-06	CH 1514-07	CH 1514-08	CH 1514-10	CH 1514-12
16 Series	Φ1.6	CH 1615-06	CH 1615-07	CH 1615-08	CH 1615-10	CH 1615-12



Absoanchor Fixation Head(FH) Type

Recommended Sites

Maxillary and mandibular buccal area for intermaxillary fixation during orthognathic surgery. Also, palate including mid-palatal suture area.

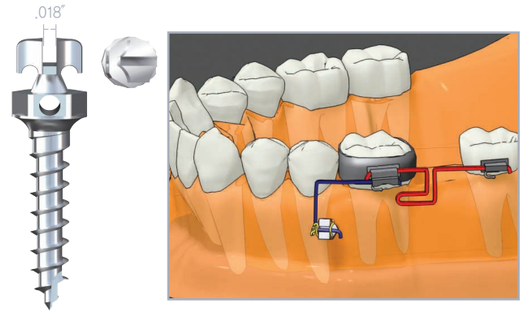
Recommended Elastomers

Ligature wire and/or rubber band for intermaxillary fixation. Also, power chains, elastomeric thread and nickel titanium coil spring, etc.

05. Fixation Head Type (Non-Sterilized and Sterilized)

* Commonly used sizes

Series	Diameter (Φ)	Code				
		6mm	7mm	8mm	9mm	10mm
17 Series	Φ1.7	FH 1716-06	FH 1716-07	FH 1716-08	FH 1716-09	FH 1716-10
18 Series	Φ1.8	FH 1817-06	FH 1817-07	FH 1817-08	FH 1817-09	FH 1817-10



Absoanchor Bracket Head (BH) Type
– Right Handed Screws

Recommended Sites

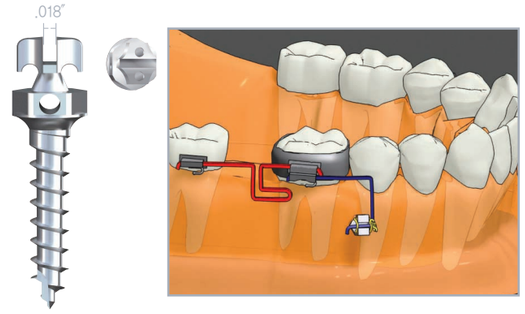
Maxillary and mandibular attached gingiva including palate. Also midpalatal suture area including para-midpalatal suture area.

Recommended Elastomers

Power chains, elastomeric thread and nickel titanium coil spring, etc. Archwire insertion is possible.

06. Bracket Head (Right handed screw) Type (Non-Sterilized and Sterilized)

Series	Diameter (Φ)	Code					
		5mm	6mm	7mm	8mm	10mm	12mm
13 Series	Φ1.3		BH 1312-06	BH 1312-07	BH 1312-08	BH 1312-10	BH 1312-12
14 Series	Φ1.4		BH 1413-06	BH 1413-07	BH 1413-08	BH 1413-10	BH 1413-12
15 Series	Φ1.5		BH 1514-06	BH 1514-07	BH 1514-08	BH 1514-10	BH 1514-12
16 Series	Φ1.6		BH 1615-06	BH 1615-07	BH 1615-08	BH 1615-10	BH 1615-12
17 Series	Φ1.7		BH 1716-06	BH 1716-07	BH 1716-08	BH 1716-10	BH 1716-12
18 Series	Φ1.8		BH 1817-06	BH 1817-07	BH 1817-08	BH 1817-10	BH 1817-12
27 Series	Φ2.7	BH 2722-05	BH 2722-06	BH 2722-07			



Absoanchor Bracket Head (BH-L) Type
– Left Handed Screws

Recommended Sites

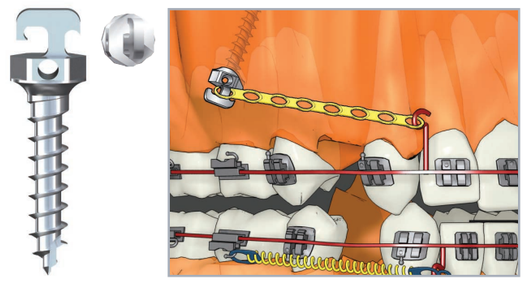
Maxillary and mandibular attached gingiva including palate. Also midpalatal suture area including para-midpalatal suture area.

Recommended Elastomers

Power chains, elastomeric thread and nickel titanium coil spring, etc. Archwire insertion is possible.

07. Bracket Head (Left handed screw) Type (Non-Sterilized and Sterilized)

Series	Diameter (Φ)	Code					
		5mm	6mm	7mm	8mm	10mm	12mm
13 Series	Φ1.3		BH 1312-06-L	BH 1312-07-L	BH 1312-08-L	BH 1312-10-L	BH 1312-12-L
14 Series	Φ1.4		BH 1413-06-L	BH 1413-07-L	BH 1413-08-L	BH 1413-10-L	BH 1413-12-L
15 Series	Φ1.5		BH 1514-06-L	BH 1514-07-L	BH 1514-08-L	BH 1514-10-L	BH 1514-12-L
16 Series	Φ1.6		BH 1615-06-L	BH 1615-07-L	BH 1615-08-L	BH 1615-10-L	BH 1615-12-L
17 Series	Φ1.7		BH 1716-06-L	BH 1716-07-L	BH 1716-08-L	BH 1716-10-L	BH 1716-12-L
18 Series	Φ1.8		BH 1817-06-L	BH 1817-07-L	BH 1817-08-L	BH 1817-10-L	BH 1817-12-L
27 Series	Φ2.7	BH 2722-05-L	BH 2722-06-L	BH 2722-07-L			



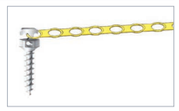
Absoanchor Hook Head(HH) Type

Recommended Sites

Maxillary and mandibular attached gingiva including palate.

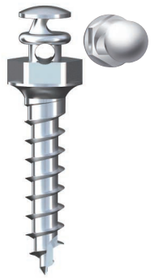
Recommended Elastomers

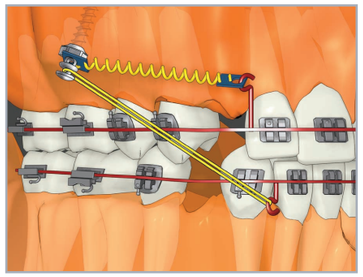
Power chains, elastomeric thread, nickel titanium coil spring, etc.



08. Hook Head Type (Non-Sterilized and Sterilized)

Series	Diameter (Φ)	Code					
		5mm	6mm	7mm	8mm	10mm	12mm
15 Series	Φ1.5	HH1514-05	HH1514-06	HH1514-07	HH1514-08	HH1514-10	HH1514-12
16 Series	Φ1.6	HH1615-05	HH1615-06	HH1615-07	HH1615-08	HH1615-10	HH1615-12
17 Series	Φ1.7	HH1716-05	HH1716-06	HH1716-07	HH1716-08	HH1716-10	HH1716-12
18 Series	Φ1.8	HH1817-05	HH1817-06	HH1817-07	HH1817-08	HH1817-10	HH1817-12
20 Series	Φ2.0	HH2018-05	HH2018-06	HH2018-07	HH2018-08	HH2018-10	HH2018-12

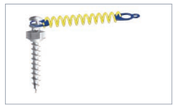


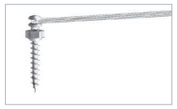


Absoanchor Double Head(DH) Type

Recommended Sites
Maxillary buccal attached gingiva.

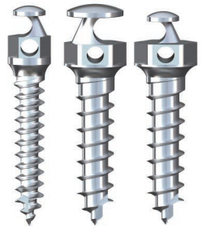
Recommended Elastomers
Intermaxillary elastic with nickel titanium coil spring, power chain and elastic thread, etc.



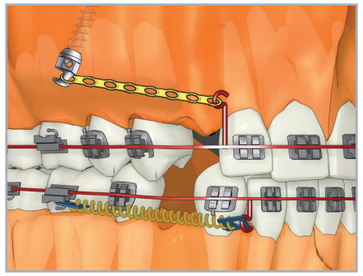


09. Double Head Type (Non-Sterilized and Sterilized)

Series	Diameter (Φ)	Code					
		5mm	6mm	7mm	8mm	10mm	12mm
15 Series	Φ1.5	DH1514-05	DH1514-06	DH1514-07	DH1514-08	DH1514-10	DH1514-12
16 Series	Φ1.6	DH1615-05	DH1615-06	DH1615-07	DH1615-08	DH1615-10	DH1615-12
17 Series	Φ1.7	DH1716-05	DH1716-06	DH1716-07	DH1716-08	DH1716-10	DH1716-12
18 Series	Φ1.8	DH1817-05	DH1817-06	DH1817-07	DH1817-08	DH1817-10	DH1817-12
20 Series	Φ2.0	DH2018-05	DH2018-06	DH2018-07	DH2018-08	DH2018-10	DH2018-12



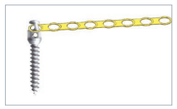
12~16 Series 17~18 Series 20 Series



Absoanchor Golf Head(GH) Type

Recommended Sites
Maxillary and mandibular attached gingiva including the palate.

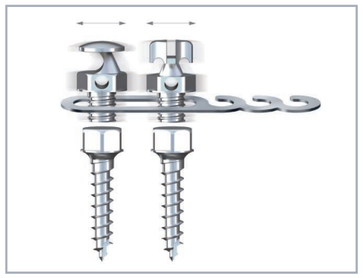
Recommended Elastomers
Power chain, nickel titanium coil spring, elastic thread, etc.



10. Golf Head Type (Non-Sterilized and Sterilized)

Series	Diameter (Φ)	Code					
		5mm	6mm	7mm	8mm	10mm	12mm
12 Series	Φ1.2	GH 1211-05	GH 1211-06	GH 1211-07	GH 1211-08	GH 1211-10	GH 1211-12
13 Series	Φ1.3	GH 1312-05	GH 1312-06	GH 1312-07	GH 1312-08	GH 1312-10	GH 1312-12
14 Series	Φ1.4	GH 1413-05	GH 1413-06	GH 1413-07	GH 1413-08	GH 1413-10	GH 1413-12
15 Series	Φ1.5	GH 1514-05	GH 1514-06	GH 1514-07	GH 1514-05	GH 1514-10	GH 1514-12
16 Series	Φ1.6	GH 1615-05	GH 1615-06	GH 1615-07	GH 1615-08	GH 1615-10	GH 1615-12
17 Series	Φ1.7	GH 1716-05	GH 1716-06	GH 1716-07	GH 1716-08	GH 1716-10	GH 1716-12
18 Series	Φ1.8	GH 1817-05	GH 1817-06	GH 1817-07	GH 1817-08	GH 1817-10	GH 1817-12
20 Series	Φ2.0	GH 2018-05	GH 2018-06	GH 2018-07	GH 2018-08	GH 2018-10	GH 2018-12

Lower Part



Absoanchor Joint Head(JH) Type

Recommended Sites
Maxillary and mandibular attached gingiva including the palate.

Recommended Elastomers
Depends on the upper part.
Non-invasive mini-plate.

11. Joint Head Type - Lower (Non-Sterilized and Sterilized)

Series		Diameter (Φ)	Code					
			5mm	6mm	7mm	8mm	10mm	12mm
Lower Type	15 Series	Φ1.5	JL 1514-05	JL 1514-06	JL 1514-07	JL 1514-08	JL 1514-10	JL 1514-12
	16 Series	Φ1.6	JL 1615-05	JL 1615-06	JL 1615-07	JL 1615-08	JL 1615-10	JL 1615-12
	17 Series	Φ1.7	JL 1716-05	JL 1716-06	JL 1716-07	JL 1716-08	JL 1716-10	JL 1716-12
	18 Series	Φ1.8	JL 1817-05	JL 1817-06	JL 1817-07	JL 1817-08	JL 1817-10	JL 1817-12
	20 Series	Φ2.0	JL 2018-05	JL 2018-06	JL 2018-07	JL 2018-08	JL 2018-10	JL 2018-12

Upper Part

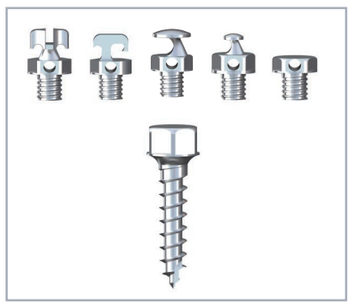
Absoanchor Joint Bracket Head(JBH) Type

Absoanchor Joint Hook Head(JHH) Type

Absoanchor Joint Fixation Head(JFH) Type

Absoanchor Joint Golf Head(JGH) Type

Absoanchor Joint Upper(JNH) Type

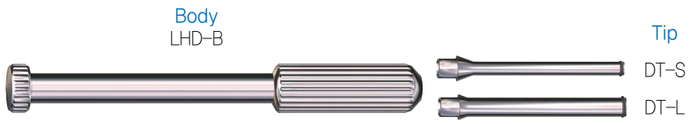


12. Joint Head Type - Upper (Non-Sterilized and Sterilized)

Series		Diameter (Φ)	Code				
			17mm				
Upper Type	16 Series	Φ1.6	JBH 16-17	JHH 16-17	JFH 16-17	JGH 16-17	JNH 16-17

Long Hand Driver

LHD-B TWO piece type

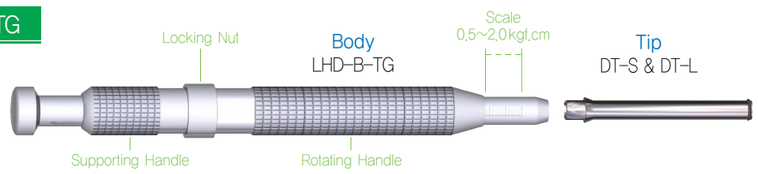


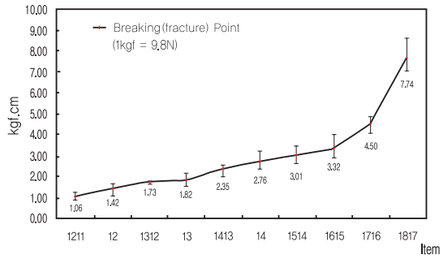
LHD-OB-S ONE piece type

LHD-OB-L ONE piece type

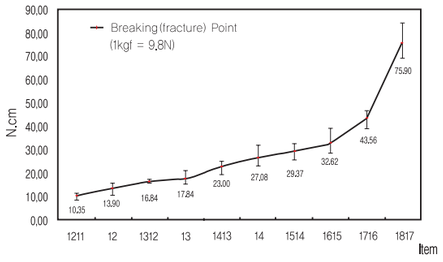
- Two piece type : The tip and the body of this driver are separated
- One piece type : The tip and the body of this driver are not separated
- You may use the 'DT-S' or 'DT-L' according to the type of the microimplant what you want.
- You can order the driver-tip (or driver body) separately.

LHD-B-TG





Torque resisting force of Absoanchor microimplants.

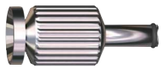


Torque resisting force of Absoanchor microimplants.

- The TG-Driver is designed to prevent breakage(fracture) of microimplant during driving by adjusting torque gauge which is built in hand driver.
- The amount of registing torque force ranged from 0.5 Kgf.Cm to 2.0 Kgf.Cm can be indicated by the edge of Rotating Handle on the numeric Scale.
- Initially the edge of Rotating Handle indicates about 0.5 Scale, and it's resisting torque force is about 0.5 Kgf.Cm
- The edge of Rotating Handle can be moved back & forth on the Scale by rotating the Locking Nut.
- When we want to adjust torque resisting force, first release the Supporting Handle by turning into counter-clockwise direction.
- After releasing the Locking Nut, we can move Rotating Handle back & forth by turning the Locking Nut.
- After determining the proper scale depending on the items, we have to lock the Locking Nut tightly again. To lock the Locking Nut, first rotate Supporting Handle in clockwise direction.
- When we exceed determined torque force, we can hear clicking sound of the clutches due to the slippage of them.

Short Hand Driver

SHD-S



use
SH, NH, LH, CH
GH 12 Series, GH 13 Series
GH 14 Series, GH 15 Series
GH 16 Series

SHD-L

use
FH, BH, HH, DH, JH
GH 17 Series, GH 18 Series
GH 20 Series, SH 20 Series

LHD

SHD

Driver Tip

DT-S

use
SH, NH, LH, CH
GH 12 Series, GH 13 Series
GH 14 Series, GH 15 Series
GH 16 Series

DT-L

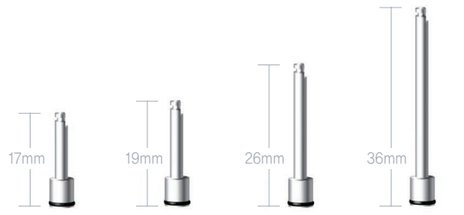
use
FH, BH, HH, DH, JH
GH 17 Series, GH 18 Series
GH 20 Series, SH 20 Series

Micro dual ball grip system

Engine Driver

ED17-S **ED19-S** **ED26-S** **ED36-S**

use
SH, NH, LH, CH
GH 12 Series, GH 13 Series, GH 14 Series, GH 15 Series
GH 16 Series

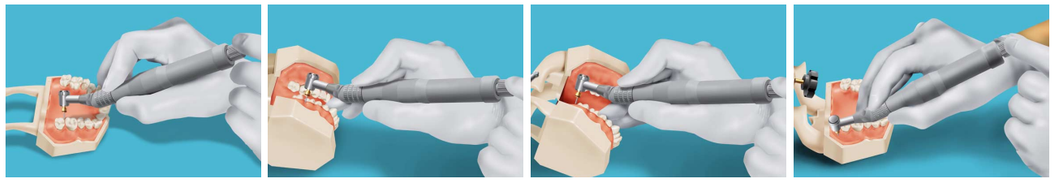


ED17-L **ED19-L** **ED26-L** **ED36-L**

use
FH, BH, HH, DH, JH
GH 17 Series, GH 18 Series, GH 20 Series, SH 20 Series

Hand Contraangle Driver

HCD



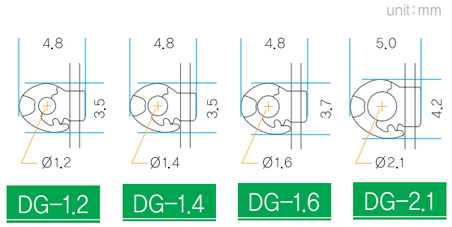
- Hand Contraangle Driver(HCD) is designed to place Absoanchor microimplant using hands without low speed motor.
- Any kind of common (1:1) low speed contraangle handpiece(CH) can be attached to the HCD. Various size of Engine Driver(ED) should be inserted into the contraangle handpiece.
- HCD with contraangle handpiece is easy to access on the limited sites which are difficult to access with straight long and short hand driver.
- For examples, retromolar area, tuberosity, palate, maxillary and mandibular buccal posterior area are easy to access for removal as well as driving.
- If we use Hand Contraangle Driver, the operator can feel the resistance easily during driving & removal of microimplant compare to electric motor driving.

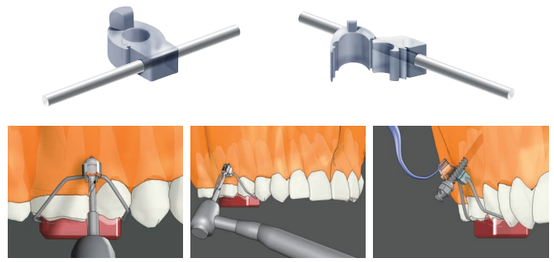
Pilot Drill

Round bur

RB-S

Drill Guide





Method of Long Hand Driver two piece type fixation

The twe piece type of Long Hand Driver consists of two parts, body (LHD-B) and 2 kinds of tip (DT-S & DT-L) (Fig. 1). The tip is designed to be shaking a little when it is inserted into the body to prevent wobbling of microimplant during driving (Fig. 2). Actually it's better to use this kind of shaking driver for insertion of microimplant using self-tapping (pre-drilling) procedures. However, that type of shake is not good for self drilling (no pre-drilling) procedures. In that situation you may fix the tip to the body using cyanoacrylate adhesive (Fig. 3) or acrylic resin (Fig. 4).

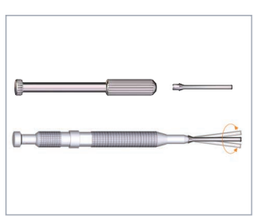


Fig. 1

Fig. 2

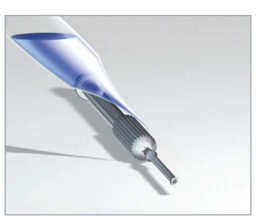


Fig. 3

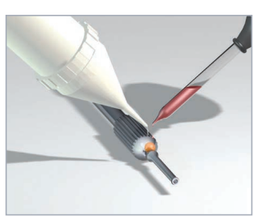
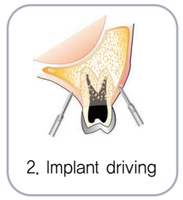


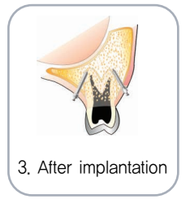
Fig. 4

Surgical Procedures

A. One-Step Self Drilling (Drill-Free) Method (Attached Gingival Area)

1. Anesthesia

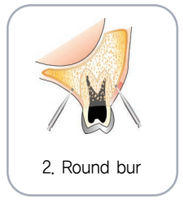

2. Implant driving

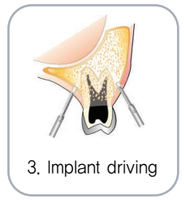

3. After implantation

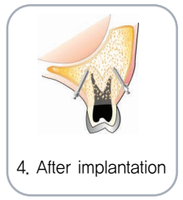
Usage of Drill Guide

B. Two-Step Self Drilling (Drill-Free) Method (Attached Gingival Area)

1. Anesthesia

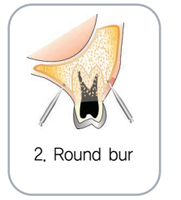

2. Round bur

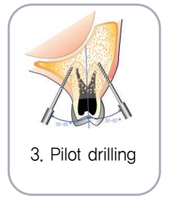

3. Implant driving

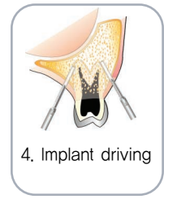

4. After implantation

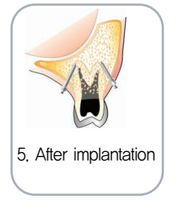
C. Self-Tapping (Pre-Drilling) Method (Attached Gingival Area)

1. Anesthesia


2. Round bur

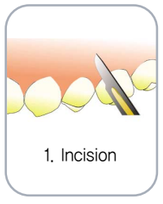

3. Pilot drilling

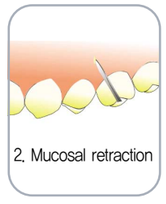

4. Implant driving

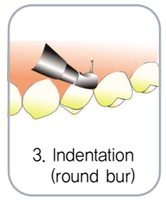

5. After implantation

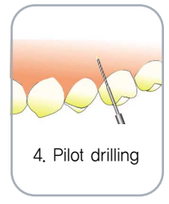
Usage of Drill Guide

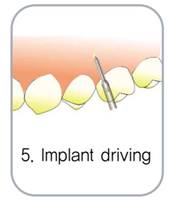
D. Self-Tapping (Pre-Drilling) Method (Movable Mucosal Area)

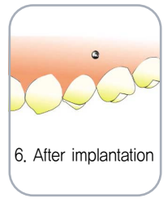

1. Incision


2. Mucosal retraction


3. Indentation (round bur)


4. Pilot drilling


5. Implant driving


6. After implantation

Self drilling method is possible when the cortical bone is not so hard. Must never apply unreasonable press down because there is possibility of fracture of screw tip if resistance is strong when using self drilling method.
Just try to rotate the screw using driver with gentle pressure and speed of less than 20 RPM.

Method for removal.
1) Perform topical local anesthesia.
2) Unscrew the microimplant from the bone using hand or engine driver.

Kinds of Start Kit

· You can **choose** specific size of the pilot drills & microimplants what you want.

Start Kit-A

Components
1. LHD-B + DT-S : 1ea
2. SHD-S : 1ea
3. PD-25-1.0 : 1ea
4. PD-31-1.0 : 1ea
5. Microimplants : 6 pkg
   (SH 1312-5,-6,-7,-8 & SH 1514-10,12)
6. Regular Case : 1ea

Free : 7. Round Bur : 1ea
8. Brochure & Guide-CD

Start Kit-B

Components
1. LHD-B + DT-S : 1ea
2. **LHD-B-TG + DT-L : 1ea**
3. SHD-S : 1ea
4. SHD-L : 1ea
5. ED19-S
6. ED19-L
7. PD-24-1.0 : 1ea
8. PD-25-1.0 : 1ea
9. PD-31-1.0 : 1ea
10. Microimplants : 8 pkg
    (SH 1312-5,-6,-7,-8 & SH 1514-10,12 & BH 1615-07 & -07-L)

Free : 11. Regular Case : 1ea
12. Round Bur : 1ea
13. Brochure & Guide-CD

Mini Kit

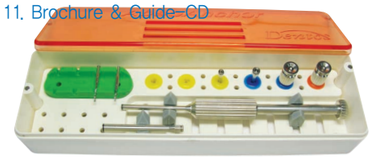
Components
1. LHD-B + DT-S : 1ea
2. PD-25-1.0 : 1ea
3. Microimplants : 4 pkg (SH 1312-5,-6,-7,-8)
4. Mini Case : 1ea

Free : 5. Round Bur : 1ea
6. Brochure & Guide-CD

Instrument Kit

Components
1. LHD-B + DT-S : 1ea
2. DT-L : 1ea
3. SHD-S : 1ea
4. SHD-L : 1ea
5. ED19-S
6. ED19-L
7. PD-24-1.0 : 1ea
8. PD-25-1.0 : 1ea

Free : 9. Mini case : 1ea
10. Round Bur : 1ea
11. Brochure & Guide-CD



Cleaning and Sterilization

1. Conventional cleaning

All the Absoanchor instruments must be cleaned thoroughly according to the cleaning material manufacturer's instructions just after disinfection. This will prevent any deposits from drying on the surface of the instruments which will make cleaning even more difficult. In order to avoid corrosion and discoloration, please follow the cleaning material manufacturer's instructions carefully regarding concentration, duration and temperature.

In general the following points should be observed :

1) Concentration : the concentrate must be entirely dissolved before the instruments are added.
2) Duration : never overnight, never over the weekend
3) Temperature : maximum 25℃/77℉

Any deposits, soiling etc. must be entirely removed using a soft brush (never use a metal brush, scouring agent, scouring pads or too much force). Movable instruments must be cleaned in opened position. The cleaning material must be renewed daily in order to avoid corrosion of the instruments and evaporation and contamination of the solution.

2. Ultrasonic cleaning

When using ultrasonic unit for cleaning, please follow the manufacturer's instructions for use.

In general the following points should be observed :

1) The unit must be filled to the marked level with water and a suitable disinfectant and or cleaning liquid. Please follow the cleaning material manufacturer's directions regarding concentration, duration and temperature.
2) The instruments must be completely covered with the cleaning liquid.
3) The instruments must be placed into a special basket inside the ultrasonic unit for cleaning (in order to prevent damage, the instruments must never be placed loosely into the unit).
4) Movable instruments must be placed into the unit in opened position for cleaning.
5) The cleaning solution should be renewed in short intervals as a dirty cleaning solution can cause corrosion damage to the instruments.

Please note : When using a combination of disinfectant and cleaning liquid together the points describing disinfection and cleaning may be combined.

3. Rinsing and drying

With any type of disinfectant and cleaning method the same rule applies: any residues of disinfectant and cleaning materials as well as other deposits must be removed entirely from the surface and from the instrument joints. If there are still residues left on the instruments the whole cycle must be repeated in order to avoid damage. The instruments must be thoroughly rinsed immediately after disinfection and cleaned using clear water, free of any salt content, or distilled water (no tap water).

In order to avoid water marks, the instruments must be dried carefully. It is advisable to dry them with compressed air. If rinsing is missed or not all the residue in entirely removed and the instruments are not dried adequately, it may lead to discoloration and corrosion on the instruments during the next sterilization process.

4. Sterilization

Hot air sterilization is not recommended due to the wear and tear on the instruments and the case, resulting in blunt and unsightly equipment.

Apart from following the steam sterilizer's instructions for use, the following points should be observed :

1) Sterilize at a temperature of 121℃/249℉ for a minimum duration of 20minutes. (or 135℃/275℉, 3minutes etc.)
2) A sterilization temperature of over 180℃/356℉ can cause discoloration of the instruments.

Only carefully cleaned, dried corrosion-free instruments may be sterilized. Badly cleaned and poorly dried instruments can result in corrosion damage. If rusty instruments are sterilized together with instruments which are in a good condition, the spotless instruments will become ruined (flash rust). Such instruments must be sorted out and these defects removed. Movable instruments must be sterilized in an opened position. Only distilled water and water free of any salts may be used in the steam sterilizer. If tap water is used, the tiniest contamination (such as rust particles) can cause discoloration and result in damage to the instruments and sterilizing unit. The instruments must not be held in a moist condition for too long. The door to the sterilizing unit must be opened immediately after the process has ended and if necessary the instruments dried using sterile cloths. The instruments must be stored sterile.

5. Step by step sterilization procedures including Microimplants using the kit case

1. Cut the plastic envelope with scissors (Fig. 1).
2. Take out the microimplant sterilization package (Fig. 2).
3. Place the microimplant sterilization package into the kit case with other instruments including **metal scissors** (Fig. 3).
4. Insert the kit case into the cotton package (Fig. 4).
5. Insert the kit case into the autoclave (Fig. 5) or EO gas sterilizer (Fig. 6). Follow the instruction of manufacturer.

*LHD-B-TG should not be sterilized with autoclave (use EO gas).

Fig. 1

Fig. 2

Fig. 3

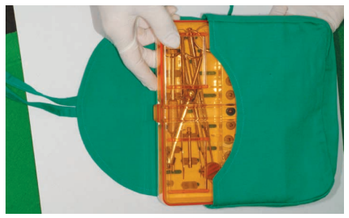


Fig. 4

Fig. 5

Fig. 6

6. Microimplant installation procedures into driver

1. Cut the microimplant sterilization package just above the microimplant head area (Fig. 7).
2. Grip the screw portion of microimplant using microimplant sterilization package and Insert the driver tip into the microimplant sterilization package (Fig. 8).
3. Take out the microimplant using hand driver (Fig. 9).

Fig. 7

Fig. 8

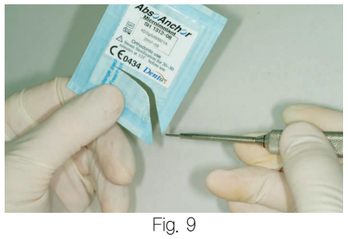


Fig. 9

7. Sterilized Package – No need sterilization

1. Detach clear plastic film from paper sheet (Fig. 10 & 11).
2. Remove the silicone cap of microimplant containing bottle (Fig. 12).
3. Grip the narrow part of the bottle with fingers and insert driver tip to the head of microimplant (Fig. 13).
4. Take out the microimplant attached with the driver (Fig. 14).

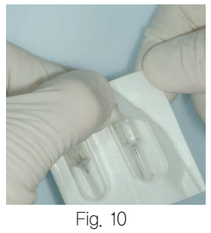


Fig. 10

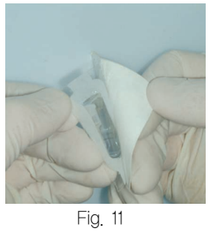


Fig. 11

Fig. 12

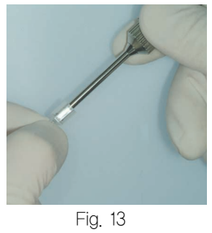


Fig. 13

Fig. 14

8. Miscellaneous

LOT Lot-Number | Expiration date | Single use only | Caution in use | STERILE R / STERILE Sterilization

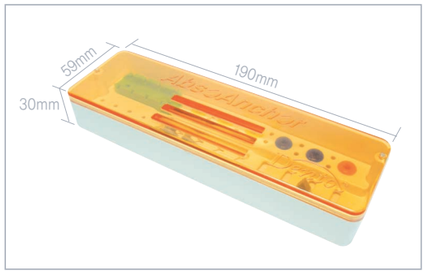
Sample Model

Components of a sample model

- Typodont 1ea
- Labial Brackets 1 set
- Micro-Implants
- Nickel titanium Closed Coil Spring
- Variable Crimpable Hook
- Elastomeric Threads
- Power Chain

Regular Case

Mini Case



Regular case with Mini case

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