

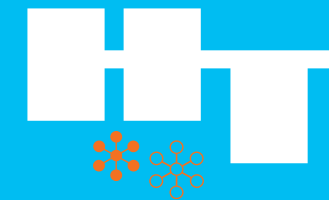


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PRODUCT CATALOG

SMILE, The best creation God gives to human being



www.htdental.co

ABOUT HT



Company Introduction

HT Co., Ltd. is a dedicated leader on orthodontic technology that continuously shares love with faith and hope for the health, beauty and youthful appearance of patients around the world.

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HISTORY

- 2002. 12 Foundation of HT
- 2002. 12 Introduces "Miso" Bracket
- 2004. 11 Obtained ISO9001 Certificate
- 2005. Introduces "De-Bonding pliers"
- 2005. 01 Obtains SFDA Certificate
- 2005. 06 Obtains CE Certificate
- 2005. 07 Obtains FDA 510(K)
- 2006. Introduces "Cute" Bracket
- 2006. 02 Obtains KGMP Certificate
- 2007. Introduces "Ideal" Bracket
- 2007. Introduces "ETS" Bracket
- 2007. Introduces "Cross-M" Bracket
- 2008. Introduces "Miso Mini" Bracket
- 2009. Introduces "Cross-C" Bracket
- 2011. 07 Moves to new office
- 2012. Draws up development of "Nano Bubble Oral CLENER"
- 2013. Draws up development of "Cross-MA" and "Miso Auto" Bracket
- 2014. Introduces "Miso Plus" Bracket
- 2017. Opens Czech office
- 2018. 08 Obtains Russian Registration Certificate
- 2018. 12 Completion of new facility



**Leader On Orthodontic
Technology**



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BRACKET PACKING OPTION

• Packing Materials



Kit tray
(for Kit order only)



Plastic bag
(for Kit and Bulk order)

Kits description

Order code			
	Product Code	Type Code	Spec. Code

Example
(Miso Plus Roth .022 U/L
5-5 Hooks on cuspids & bicuspid)

MPS

221

555

Product code	
Miso Plus	MPS
Miso	MBS
Miso Mini	MMS
Cross-MD	CDS
Cross-MW	CWS
Cross-C	CCS

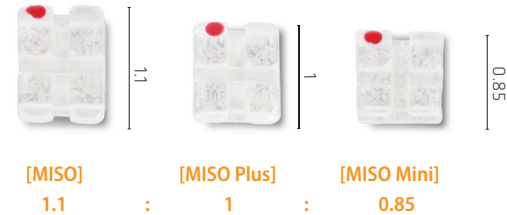
Type Code	
Roth 018	181
Roth 022	221
MBT 018	182
MBT 022	222

Specification code	
Description	Code no.
Upper 3-3, no hooks	310
Upper 3-3, hooks on cuspids	313
Lower 3-3, no hooks	300
Lower 3-3, hooks on cuspids	303
Upper/Lower 3-3, no hooks	330
Upper/Lower 3-3, hooks on cuspids	333
Upper 5-5, no hooks	510
Upper 5-5, hooks on cuspids	513
Upper 5-5, hooks on cuspids & bicuspid	515
Lower 5-5, no hooks	500
Lower 5-5, hooks on cuspids	503
Lower 5-5, hooks on cuspids & bicuspid	505
Upper/Lower 5-5, no hooks	550
Upper/Lower 5-5, hooks on cuspids	553
Upper/Lower 5-5, hooks on cuspids & bicuspid	555
Upper/Lower 5-3, no hooks	530
Upper/Lower 5-3, hooks on cuspids	533
Upper/Lower 5-3, hooks on cuspids & bicuspid	535
Upper/Lower 3-5, no hooks	350
Upper/Lower 3-5, hooks on cuspids	353
Upper/Lower 3-5, hooks on cuspids & bicuspid	355

MISO SERIES [SUPERIOR AESTHETIC SAPPHIRE BRACKETS]



• Size Ratio



※ Actual product may differ from image shown

"miso" is a Korean word that refers to smile and it is reminiscent of a beautiful smile.

- **Transparent appearance:** Crafted to the highest aesthetic standard.
- **"RMM" Base technique provides:** Bonding strength comparable to a mesh pad, Minimal distress to enamel surface while de-bonding.
- **Heat treated:** Increased the strength of brackets.
- **Allergic free:** Monocrystalline Sapphire does not contain nickels or other metal substances.
- **Stain resistant:** Does not get stained throughout treatment.
- **Accurate placement:** Color coded ID for easy identification and placement.



MISO



※ Actual product may differ from image shown



Comparison of MISO and Metal bracket



※ Actual product may differ from image shown

Wear the aesthetics

- For the satisfaction of both orthodontists and patients
 - Amazing achievement from high tech sapphire processing
 - Only 2mm profile
 - RMM Technique for Excellent Bonding and Easy De-bonding
 - Maximize easy de-bonding with MISO De-bonding Pliers

Measurement of MISO

• MISO Roth 018 / 022

Type	Roth 018	Roth 022
Slot Size	0.018inch	0.022inch
KIT	MBS 181-XXX	MBS 221-XXX
Bulk	MB 181-XXX	MB 221-XXX

Maxillary	No.	Torque	Angulation	Offset	Width	In/Out
Central	101/201	11	4	0	3.2	0.94
Lateral	102/202	8	9	0	3.0	1.40
Cuspid	103/203	-2	8	2°M	3.2	1.25
Cuspid with Hook	133/233	-2	8	2°M	3.5	1.25
1st Bicuspid	104/204	-7	0	0	3.2	1.30
1st Bicuspid w/Hook	144/244	-7	0	2°D	3.5	1.32
2nd Bicuspid	105/205	-7	0	0	3.2	1.30
2nd Bicuspid w/Hook	155/255	-7	0	2°D	3.5	1.32

Mandibular	No.	Torque	Angulation	Offset	Width	In/Out
Anterior	312	0	0	0	3.0	1.24
Cuspid	303/403	-11	2	2°M	3.2	1.24
Cuspid with Hook	333/433	-11	2	2°M	3.5	1.24
1st Bicuspid	304/404	-17	0	0	3.2	1.30
1st Bicuspid w/Hook	344/444	-17	0	0	3.5	1.30
2nd Bicuspid	305/405	-21	0	0	3.2	1.41
2nd Bicuspid w/Hook	355/455	-21	0	0	3.5	1.41

• MISO MBT 018 / 022

Type	MBT 018	MBT 022
Slot Size	0.018inch	0.022inch
KIT	MBS 182-XXX	MBS 222-XXX
Bulk	MB 182-XXX	MB 222-XXX

Maxillary	No.	Torque	Angulation	Offset	Width	In/Out
Central	101/201	18	4	0	3.2	1.15
Lateral	102/202	11	9	0	3.0	1.30
Cuspid	103/203	-8	8	0	3.2	1.05
Cuspid with Hook	133/233	-8	8	0	3.5	1.05
Cuspid with Hook	133S/233S	0	8	0	3.5	1.11
1st Bicuspid	104/204	-8	0	0	3.2	1.30
1st Bicuspid w/Hook	144/244	-8	0	0	3.5	1.30
2nd Bicuspid	105/205	-8	0	0	3.2	1.30
2nd Bicuspid w/Hook	155/255	-8	0	0	3.5	1.30

Mandibular	No.	Torque	Angulation	Offset	Width	In/Out
Anterior	312	-6	0	0	3.0	1.17
Cuspid	303/403	-6	2	0	3.2	1.15
Cuspid with Hook	333/433	-6	2	0	3.5	1.15
Cuspid with Hook	333S/433S	0	2	0	3.5	1.24
1st Bicuspid	304/404	-13	2	0	3.2	1.25
1st Bicuspid w/Hook	344/444	-13	2	0	3.5	1.25
2nd Bicuspid	305/405	-18	2	0	3.2	1.25
2nd Bicuspid w/Hook	355/455	-18	2	0	3.5	1.25

MISO PLUS



[MISO]



[MISO Plus]



[MISO]



[MISO Plus]

※ Actual product may differ from image shown



Feel the inovative technology

- Greater Patient's Comfort
 - State-of-the-art design
 - Remarkably rounded edges & contoured base for extra comfort
 - 10% shorter length than standard product

※ Order option: Kit and Bulk available

Measurement of MISO Plus

• MISO Plus Roth 018 / 022

Type	Roth 018	Roth 022
Slot Size	0.018inch	0.022inch
KIT	MPS 181-XXX	MPS 221-XXX
Bulk	MP 181-XXX	MP 221-XXX

Maxillary	No.	Torque	Angulation	Offset	Width	In/Out
Central	101/201	11	4	0	3.2	0.94
Lateral	102/202	8	9	0	3.0	1.38
Cuspid	103/203	-2	8	2°M	3.2	1.25
Cuspid with Hook	133/233	-2	8	2°M	3.5	1.25
1st Bicuspid	104/204	-7	0	0	3.2	1.30
1st Bicuspid w/Hook	144/244	-7	0	2°D	3.5	1.32
2nd Bicuspid	105/205	-7	0	0	3.2	1.30
2nd Bicuspid w/Hook	155/255	-7	0	2°D	3.5	1.32

Mandibular	No.	Torque	Angulation	Offset	Width	In/Out
Anterior	312	0	0	0	3.0	1.24
Cuspid	303/403	-11	2	2°M	3.2	1.24
Cuspid with Hook	333/433	-11	2	2°M	3.5	1.24
1st Bicuspid	304/404	-17	0	0	3.2	1.30
1st Bicuspid w/Hook	344/444	-17	0	0	3.5	1.30
2nd Bicuspid	305/405	-21	0	0	3.2	1.41
2nd Bicuspid w/Hook	355/455	-21	0	0	3.5	1.41

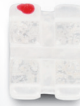
• MISO Plus MBT 018 / 022

Type	MBT 018	MBT 022
Slot Size	0.018inch	0.022inch
KIT	MPS 182-XXX	MPS 222-XXX
Bulk	MP 182-XXX	MP 222-XXX

Maxillary	No.	Torque	Angulation	Offset	Width	In/Out
Central	101/201	18	4	0	3.2	1.16
Lateral	102/202	11	9	0	3.0	1.40
Cuspid	103/203	-8	8	0	3.2	1.15
Cuspid with Hook	133/233	-8	8	0	3.5	1.13
Cuspid with Hook	133S/233S	0	8	0	3.5	1.11
1st Bicuspid	104/204	-8	0	0	3.2	1.40
1st Bicuspid w/Hook	144/244	-8	0	0	3.5	1.40
2nd Bicuspid	105/205	-8	0	0	3.2	1.40
2nd Bicuspid w/Hook	155/255	-8	0	0	3.5	1.40

Mandibular	No.	Torque	Angulation	Offset	Width	In/Out
Anterior	312	-6	0	0	3.0	1.25
Cuspid	303/403	-6	2	0	3.2	1.25
Cuspid with Hook	333/433	-6	2	0	3.5	1.25
Cuspid with Hook	333S/433S	0	2	0	3.5	1.24
1st Bicuspid	304/404	-13	2	0	3.2	1.35
1st Bicuspid w/Hook	344/444	-13	2	0	3.5	1.35
2nd Bicuspid	305/405	-18	2	0	3.2	1.35
2nd Bicuspid w/Hook	355/455	-18	2	0	3.5	1.35

MISO MINI



[MISO]



[MISO Mini]



[MISO]



[MISO Mini]

※ Actual product may differ from image shown



Show off the mini

- Maximizing patient's aesthetics
 - Smallest sapphire bracket on the market.
 - Easier to apply in narrow space.
 - For those who have little teeth.

※ Order option: Kit and Bulk available

Measurement of MISO Mini

• MISO Mini Roth 018 / 022

Type	Roth 018	Roth 022
Slot Size	0.018inch	0.022inch
KIT	MMS 181-XXX	MMS 221-XXX
Bulk	MM 181-XXX	MM 221-XXX

Maxillary	No.	Torque	Angulation	Offset	Width	In/Out
Central	101/201	11	4	0	3.3	0.88
Lateral	102/202	8	9	0	3.0	1.34
Cuspid	103/203	-2	8	2°M	3.3	1.15
Cuspid with Hook	133/233	-2	8	2°M	3.3	1.15
1st Bicuspid	104/204	-7	0	0	2.8	1.20
1st Bicuspid w/Hook	144/244	-7	0	2°D	3.3	1.30
2nd Bicuspid	105/205	-7	0	0	2.8	1.20
2nd Bicuspid w/Hook	155/255	-7	0	2°D	3.3	1.30

Mandibular	No.	Torque	Angulation	Offset	Width	In/Out
Anterior	312	0	0	0	2.8	1.22
Cuspid	303/403	-11	2	2°M	3.3	1.14
Cuspid with Hook	333/433	-11	2	2°M	3.3	1.14
1st Bicuspid	304/404	-17	0	0	3.0	1.30
1st Bicuspid w/Hook	344/444	-17	0	0	3.3	1.30
2nd Bicuspid	305/405	-21	0	0	3.0	1.41
2nd Bicuspid w/Hook	355/455	-21	0	0	3.3	1.41

• MISO Mini MBT 018 / 022

Type	MBT 018	MBT 022
Slot Size	0.018inch	0.022inch
KIT	MMS 182-XXX	MMS 222-XXX
Bulk	MM 182-XXX	MM 222-XXX

Maxillary	No.	Torque	Angulation	Offset	Width	In/Out
Central	101/201	18	4	0	3.3	1.10
Lateral	102/202	11	9	0	3.0	1.30
Cuspid	103/203	-8	8	0	3.3	1.03
Cuspid with Hook	133/233	-8	8	0	3.3	1.03
1st Bicuspid	104/204	-8	0	0	2.8	1.30
1st Bicuspid w/Hook	144/244	-8	0	0	3.3	1.40
2nd Bicuspid	105/205	-8	0	0	2.8	1.30
2nd Bicuspid w/Hook	155/255	-8	0	0	3.3	1.40

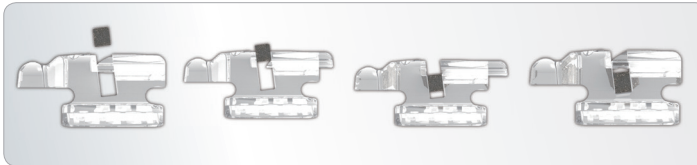
Mandibular	No.	Torque	Angulation	Offset	Width	In/Out
Anterior	312	-6	0	0	2.8	1.17
Cuspid	303/403	-6	2	0	3.3	1.15
Cuspid with Hook	333/433	-6	2	0	3.3	1.15
1st Bicuspid	304/404	-13	2	0	3.0	1.35
1st Bicuspid w/Hook	344/444	-13	2	0	3.3	1.35
2nd Bicuspid	305/405	-18	2	0	3.0	1.35
2nd Bicuspid w/Hook	355/455	-18	2	0	3.3	1.35

MISO AUTO



More than SLB

- Auto ligating system
 - Simplified ligation of auto sliding door
 - Patented one touch system
- Monocrystalline Sapphire Bracket
 - Incredible transparency
 - Stain and discoloration resistant
- Greater patient's comfort
 - Smooth & rounded edges
 - Fully passive slot
 - Low friction
- Color coded ID for easy identification and placement



※ Actual product may differ from image shown

Measurement of MISO Auto

• MISO Auto Roth 022

Type	Roth 022
Slot Size	0.022inch
KIT	MAS 221-555
Bulk	MA 221-XXX

Maxillary	No.	Torque	Angulation	Offset	Width
Central	101/201	11	4	0	3.5
Lateral	102/202	8	9	0	3.5
Cuspid with Hook	133/233	-2	8	2°M	3.5
1st Bicuspid w/Hook	144/244	-7	0	2°D	3.5
2nd Bicuspid w/Hook	155/255	-7	0	2°D	3.5

Mandibular	No.	Torque	Angulation	Offset	Width
Anterior	312	0	0	0	3.2
Cuspid with Hook	333/433	-11	2	2°M	3.5
1st Bicuspid w/Hook	344/444	-17	0	0	3.5
2nd Bicuspid w/Hook	355/455	-21	0	0	3.5

CROSS - C



※ Actual product may differ from image shown

Poly-Crystalline Ceramic Bracket with specially designed shoulder

- **Interactive design:** Specially designed shoulder provides an interactive treatment (Passive & Active)
- **Maximum bond strength:** 80 Diamond mesh base shape provides maximum bond strength
- Translucent appearance increases the aesthetic feeling
- Rounded corner creates a simple image and increases patient's comfort
- Decreases the time of treatment due to the low friction between wire and ligature ties

※ Order option: Kit and Bulk available

Measurement of Cross-C

• Cross-C Roth 022

Type	Roth 022	Maxillary	No.	Torque	Angle	Mandibular	No.	Torque	Angle
Slot Size	0.022inch	Central	101/201	12	5	Anterior	312	0	0
		Lateral	102/202	8	9				
KIT	CCS 221-555	Cuspid with Hook	133/233	-2	10	Cuspid with Hook	333/433	-11	7
		1st Bicuspid with Hook	144/244	-7	0	1st Bicuspid with Hook	344/444	-17	0
Bulk	CC 221-XXX	2nd Bicuspid with Hook	155/255	-7	0	2nd Bicuspid with Hook	355/455	-22	0

CROSS - MD



※ Actual product may differ from image shown

Features

- **Highest quality stainless steel 17-4:** Smooth surface for less friction
- Larger tie wing space for easy ligation
- One piece mini bracket design with enhanced the durability
- Low profile for maximum patient comfort
- Curved base provides perfect fit

※ Order option: Kit and Bulk available

Measurement of Cross-MD

• Cross-MD Roth 018 / 022

Type	Roth 018	Roth 022
Slot Size	0.018inch	0.022inch
KIT	CDS 181-XXX	CDS 221-XXX
Bulk	CD 181-XXX	CD 221-XXX

Maxillary	No.	Torque	Angulation	Width	In/Out
Central	101/201	12	5	3.1	0.6
Lateral	102/202	8	9	2.5	1.1
Cuspid	103/203	-2	10	2.8	0.6
Cuspid with Hook	133/233	-2	10	2.8	0.6
1st Bicuspid	104/204	-7	0	2.8	0.6
1st Bicuspid w/Hook	144/244	-7	0	2.8	0.6
2nd Bicuspid	105/205	-7	0	2.8	0.6
2nd Bicuspid w/Hook	155/255	-7	0	2.8	0.6

Mandibular	No.	Torque	Angulation	Width	In/Out
Anterior	312	-1	0	2.4	1.0
Cuspid	303/403	-11	7	2.8	0.6
Cuspid with Hook	333/433	-11	7	2.8	0.6
1st Bicuspid	304/404	-17	0	2.8	0.6
1st Bicuspid w/Hook	344/444	-17	0	2.8	0.6
2nd Bicuspid	305/405	-22	0	2.8	0.6
2nd Bicuspid w/Hook	355/455	-22	0	2.8	0.6

• Cross-MD MBT 018 / 022

Type	MBT 018	MBT 022
Slot Size	0.018inch	0.022inch
KIT	CDS 182-XXX	CDS 222-XXX
Bulk	CD 182-XXX	CD 222-XXX

Maxillary	No.	Torque	Angulation	Width	In/Out
Central	101/201	17	4	3.1	0.6
Lateral	102/202	10	8	2.5	1.1
Cuspid	103/203	-7	8	2.8	0.5
Cuspid with Hook	133/233	-7	8	2.8	0.5
1st Bicuspid	104/204	-7	0	2.8	0.6
1st Bicuspid w/Hook	144/244	-7	0	2.8	0.6
2nd Bicuspid	105/205	-7	0	2.8	0.6
2nd Bicuspid w/Hook	155/255	-7	0	2.8	0.6

Mandibular	No.	Torque	Angulation	Width	In/Out
Anterior	312	-6	0	2.4	1.0
Cuspid	303/403	0	3	2.8	0.5
Cuspid with Hook	333/433	0	3	2.8	0.5
1st Bicuspid	304/404	-12	2	2.8	0.5
1st Bicuspid w/Hook	344/444	-12	2	2.8	0.5
2nd Bicuspid	305/405	-17	2	2.8	0.5
2nd Bicuspid w/Hook	355/455	-17	2	2.8	0.5

CROSS - MW



※ Actual product may differ from image shown

Features

- Highest quality stainless steel 17-4: Smooth surface for less friction
- Smooth tie wing undercuts for better application of elastomerics
- State-of-the-art laser welding process
- 80-gauge mesh pad ensures optimum bonding strength
- Larger & Thinner base provides optimum adhesion
- Clear axis scribe line for accurate placement

Measurement of Cross-MW

• Cross-MW Roth 018 / 022

Type	Roth 018	Roth 022
Slot Size	0.018inch	0.022inch
KIT	CWS 181-XXX	CWS 221-XXX
Bulk	CW 181-XXX	CW 221-XXX

Maxillary	No.	Torque	Angulation	Width	In/Out
Central	101/201	12	5	3.0	0.8
Lateral	102/202	8	9	2.8	1.18
Cuspid	103/203	-2	11	2.8	0.8
Cuspid with Hook	133/233	-2	11	2.8	0.8
1st Bicuspid	104/204	-7	0	2.8	0.8
1st Bicuspid w/Hook	144/244	-7	0	2.8	0.8
2nd Bicuspid	105/205	-7	0	2.8	0.8
2nd Bicuspid w/Hook	155/255	-7	0	2.8	0.8

Mandibular	No.	Torque	Angulation	Width	In/Out
Anterior	312	-1	0	2.4	1.18
Cuspid	303/403	-11	5	2.8	0.8
Cuspid with Hook	333/433	-11	5	2.8	0.8
1st Bicuspid	304/404	-17	0	2.8	0.8
1st Bicuspid w/Hook	344/444	-17	0	2.8	0.8
2nd Bicuspid	305/405	-22	0	2.8	0.8
2nd Bicuspid w/Hook	355/455	-22	0	2.8	0.8

• Cross-MW MBT 018 / 022

Type	MBT 018	MBT 022
Slot Size	0.018inch	0.022inch
KIT	CWS 182-XXX	CWS 222-XXX
Bulk	CW 182-XXX	CW 222-XXX

Maxillary	No.	Torque	Angulation	Width	In/Out
Central	101/201	17	4	3.0	0.7
Lateral	102/202	10	8	2.8	1.08
Cuspid	103/203	0	8	2.8	0.7
Cuspid with Hook	133/233	0	8	2.8	0.7
1st Bicuspid	104/204	-7	0	2.8	0.7
1st Bicuspid w/Hook	144/244	-7	0	2.8	0.7
2nd Bicuspid	105/205	-7	0	2.8	0.7
2nd Bicuspid w/Hook	155/255	-7	0	2.8	0.7

Mandibular	No.	Torque	Angulation	Width	In/Out
Anterior	312	-6	0	2.4	0.9
Cuspid	303/403	0	3	2.8	0.7
Cuspid with Hook	333/433	0	3	2.8	0.7
1st Bicuspid	304/404	-12	2	2.8	0.7
1st Bicuspid w/Hook	344/444	-12	2	2.8	0.7
2nd Bicuspid	305/405	-17	2	2.8	0.7
2nd Bicuspid w/Hook	355/455	-17	2	2.8	0.7

CUTE



[Open Type]



[Close Type]

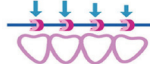
Slot size: 0.016 inch

※ Actual product may differ from image shown

Instruction

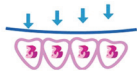
1. Close Type

- 1) Insert arch wire step by step with narrow tip pliers.
- 2) After inserting arch wire, sequential bonding on each teeth.



2. Open Type

- 1) Insert arch wire by sequence
- 2) Insert arch wire up and down



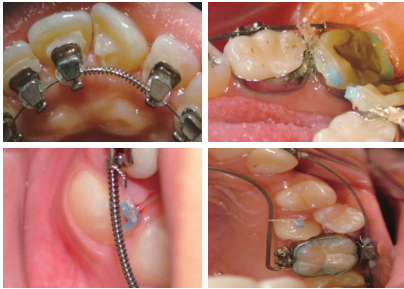
By bonding open type by sequential up and down, retention of archwire can be acquired without adding flowable resin. This method is adequate for the thicker size archwire during arch retraction or adjustment of arch width.

Cute-Bracket is designed for an efficient movement of teeth in harmony with the main brackets.
(Auxiliary brackets)

- Much smaller size than the normal bracket
- Enhanced bonding strength
- Can approach the narrow and/or deep obstructed teeth
- Ability to use as segmental adjustment working in harmony with the main bracket (buccal or lingual)
- Can be used alone for minor teeth alignment
- Depends on the conditions of patient, it can be used in many different purposes
- Easy bonding and clear de-bonding : short chairside time is necessary
- Open type and Close type available

EXAMPLE FOR APPLICATION OF CUTE

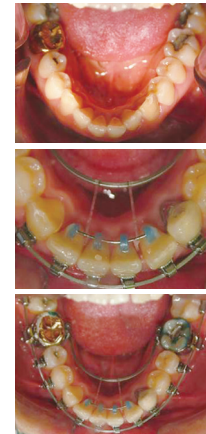
1) Narrow bonding spaces



- Due to its narrow dimension, Cute-bracket can be bonded even on the cusp of teeth
- Also it can be bonded without removing of existing arch wire
- Can control a deep obstructed teeth

2) Segmental adjustment

Lingual movement of anterior 4 teeth After arch expansion



- During buccal or lingual treatment, segmental teeth movement can be easily accelerated by using Cute-bracket
- Especially in the case of lingual movement, it can be utilized with lingual arch very well

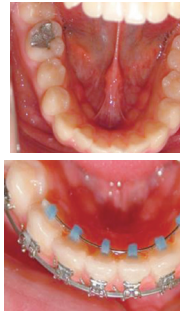
3) Single tooth adjustment

Transposition of upper left lateral incisor and canine



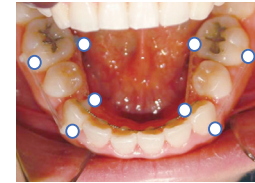
- Apply counter forces of canine after lingually repositioning of canine by using Cute-bracket and lingual arch

4) Control of partially relapsed teeth



- Cute-bracket can work independently or with other mechanics for correction and play the role of fixed retainer after the correction without any break for modification or troublesome wire bending for new retainer

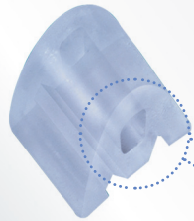
5) Control of deciduous or esthetic therapy



○ Location of CUTE

- Mandibular space closing with cute-bracket and anterior fixed retainers

ETS



[Vertical]
0.018x0.025(inch)

[Horizontal]
0.025x0.018(inch)

ETS is useful for indirect anchorage and partial orthodontic treatment.

- Comfortable and aesthetic by smaller size and simple structure
- Possible to bond with ETS where it is difficult to bond with regular bracket
- Valuable when used together with the indirect skeletal anchorage
- Able to create natural torque by using both horizontal and vertical
- Useful for partial orthodontic treatments
- Easy for oral hygiene management
- Horizontal type and Vertical type available

※ Order option: Kit(20pcs)and Bulk available



Direct bonding technique



Indirect bonding by tray or transfer zig



Insert arch wire: use small beak pliers

EXAMPLE FOR APPLICATION OF ETS

1) Anterior alignment

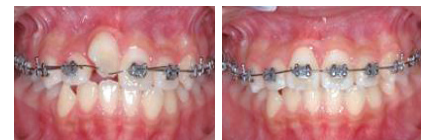


[Upper]



[Lower]

2) Correction of single-tooth rotation



3) Torque control by lingual leveling



EXAMPLE FOR APPLICATION OF ETS

Alignment of blocked-out maxillary lateral incisors

[Pre-treatment]

- Because of deep bite it is difficult to place the conventional brackets during correction of crossbite.



[After 3 Months]

- Space gaining with open coil spring for #12,22
- Bonding of ETS
- 012 Niti



[After 5 Months]

- Laterals are intruded and moved labially



[After 6 Months]

- Bonding of conventional bracket
- Insertion of continuous arch wire



TUBE

Bondable Single Buccal Tubes (Non convertible)

- Funneled entrance design, easier to put into the archwire
- MIM Buccal tubes with Stainless Steel 17-4
- 80 mesh base with two pads with different sizes increases bonding strength
- Color coded indents on the facial surface assist bonding and positioning
- Positioning Notch for adjusting

※ Order option: Set(4pcs) and Bulk available

Measurement of Tube

• Roth 1st / 2nd Molar

Type	Roth	
Position	1st Molar	2nd Molar
Kit	TRS-001	TRS-002
Bulk	TR1-XX	TR2-XX

1st Molar	Torque	Offset
UR	-14	10
UL	-14	10
LR	-25	4
LL	-25	4

2st Molar	Torque	Offset
UR	-14	10
UL	-14	10
LR	-25	4
LL	-25	4

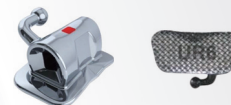
• MBT 1st / 2nd Molar

Type	MBT	
Position	1st Molar	2nd Molar
Kit	TMS-001	TMS-002
Bulk	TM1-XX	TM2-XX

1st Molar	Torque	Offset
UR	-14	10
UL	-14	10
LR	-20	0
LL	-20	0

2st Molar	Torque	Offset
UR	-14	10
UL	-14	10
LR	-10	0
LL	-10	0

[1st Molar]



[2nd Molar]



※ Actual product may differ from image shown

ATTACHMENTS

• Stop (10pcs/pack)

Picture	Item No.	Description
	A101 Stop	Universal Wall thickness:0.45mm Width:2.4mm

• Crimpable Hook (10pcs/pack)

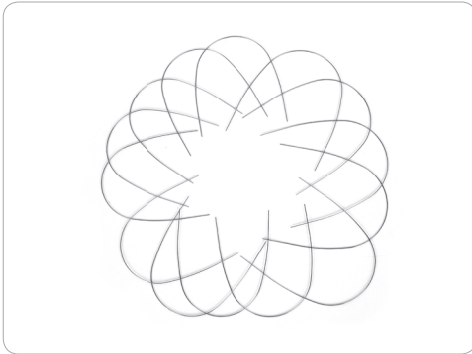
Picture	Item No.	Description
	A102 Crimpable hook, short	Wall thickness:0.45mm Width:2.4mm Length: 1.3mm
	A103 Crimpable hook, medium	Wall thickness:0.45mm Width:2.4mm Length: 2.2 mm
	A104 Crimpable hook, long	Wall thickness:0.45mm Width:2.4mm Length: 3.0 mm

• Long Curved Crimpable Hook (10pcs/pack)

Picture	Item No.	Description
	A105L&A105R Crimpable hook, long curved L&R	Wall thickness:0.45mm Width:2.4mm Length: 5.5 mm
	A106L&A106R Crimpable hook, Extra-long curved L&R	Wall thickness:0.45mm Width:2.4mm Length: 9.0 mm

MISO WIRES

Pre heat-treated Stainless Steel Archwire



- Uniquely pre heat-treated and stress-relieved
- Increased resilience to improve mechanics
- Forming ensures precise arch forms
- Excellent for all orthodontic and orthognathic treatment



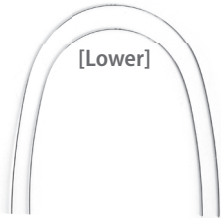
Size	Part No.	
	Upper	Lower
0.014	MSSU-14	MSSL-14
0.016	MSSU-16	MSSL-16
0.018	MSSU-18	MSSL-18
0.020	MSSU-20	MSSL-20
016*016	MSSU-1616	MSSL-1616
016*022	MSSU-1622	MSSL-1622
017*025	MSSU-1725	MSSL-1725
018*025	MSSU-1825	MSSL-1825
019*025	MSSU-1925	MSSL-1925
021*025	MSSU-2125	MSSL-2125
0215*028	MSSU-21528	MSSL-21528

NiTi Superelastic Archwire



[Upper]

[Lower]

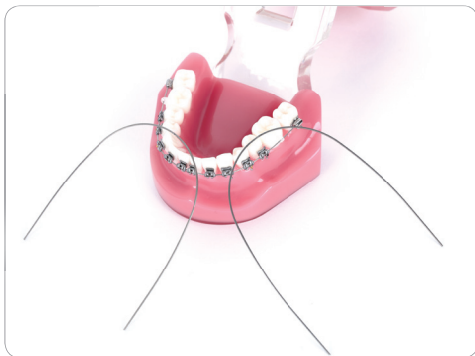


- Super Elastic Wire with full shape recovery
- Higher residual forces of recovery for efficient tooth movement
- Lower load forces of engagement
- Reduced number and frequency of archwire changes
- A smoother surface helps to minimize friction during treatment

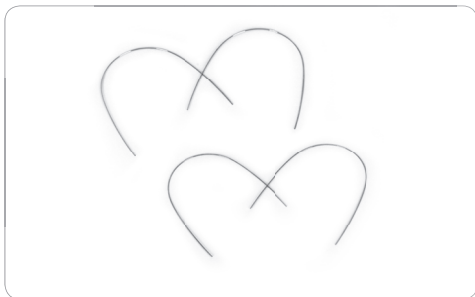
Size	Part No.	
	Upper	Lower
0.008	MSU-8	MSL-8
0.010	MSU-10	MSL-10
0.012	MSU-12	MSL-12
0.014	MSU-14	MSL-14
0.016	MSU-16	MSL-16
0.018	MSU-18	MSL-18
0.020	MSU-20	MSL-20
016*016	MSU-1616	MSL-1616
016*022	MSU-1622	MSL-1622
017*025	MSU-1725	MSL-1725
018*025	MSU-1825	MSL-1825
019*025	MSU-1925	MSL-1925



NiTi Thermal Archwire

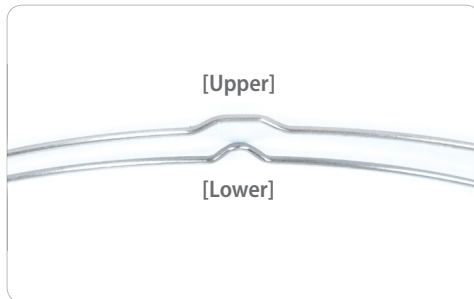


- Thermal heat activated archwire
- Precise temperature transformation at 20~35°C
- Easy operation at low temperatures
- Light continuous forces provide great patient comfort
- Consistent and predictable tooth movement



Size	Part No.		Europa II
	Upper Part No.	Lower Part No.	Part No.
0.014	MTU-14	MTL-14	MTU-14E
0.016	MTU-16	MTL-16	MTU-16E
0.018	MTU-18	MTL-18	MTU-18E
0.020	MTU-20	MTL-20	MTU-20E
016*016	MTU-1616	MTL-1616	MTU-1616E
016*022	MTU-1622	MTL-1622	MTU-1622E
017*025	MTU-1725	MTL-1725	MTU-1725E
018*025	MTU-1825	MTL-1825	MTU-1825E
019*025	MTU-1925	MTL-1925	MTU-1925E
021*025	MTU-2125	MTL-2125	MTU-2125E

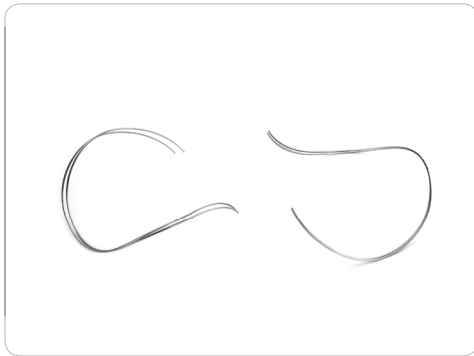
NiTi Dimpled Archwire



- The dimple, mid-line indication ensures accurate wire placement, and keeps wires from slipping
- Excellent shape characteristics and resiliency

Size	Part No.	
	Upper	Lower
0.014	MDU-14	MDL-14
0.016	MDU-16	MDL-16
0.018	MDU-18	MDL-18
0.016*0.016	MDU-1616	MDL-1616
0.016*0.022	MDU-1622	MDL-1622
0.017*0.025	MDU-1725	MDL-1725
0.018*0.025	MDU-1825	MDL-1825
0.019*0.025	MDU-1925	MDL-1925

NiTi Reverse Curve



- Providing gentle movement and light continuous forces
- Providing optimal force to bite opening and closing, leveling and aligning, and deep and open bite correction



Size	Part No.	
	Upper	Lower
0.014	MRU-14	MRL-14
0.016	MRU-16	MRL-16
0.018	MRU-18	MRL-18
016*022	MRU-1622	MRL-1622
017*025	MRU-1725	MRL-1725
018*025	MRU-1825	MRL-1825
019*025	MRU-1925	MRL-1925

Spoiled Ligature Wire



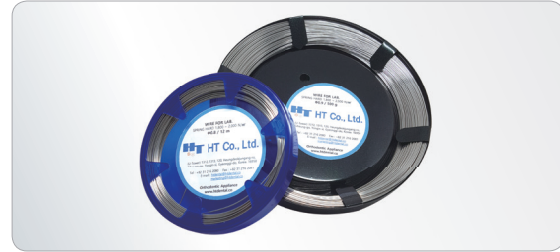
- 1 Pound / Roll
- Size : 008 (MSLW-8), 009 (MSLW-9), 010 (MSLW-10)

Twist Ligature Ties



- 1000 Ties / Box
- Size : 009 (MTLT-9), 010 (MTLT-10)

Wire For Lab



Size	12M Code	1 Pound Code
Ø0.35	MFL-35	
Ø0.40	MFL-40	
Ø0.45	MFL-45	
Ø0.50	MFL-50	
Ø0.60	MFL-60	MFL-60P
Ø0.70	MFL-70	MFL-70P
Ø0.80	MFL-80	MFL-80P
Ø0.90	MFL-90	MFL-90P
Ø1.00	MFL-100	MFL-100P
Ø1.20	MFL-120	MFL-120P

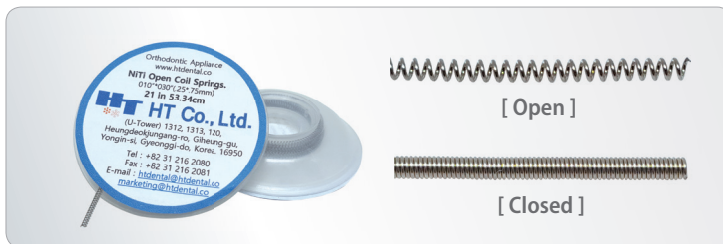
NiTi Closed Coil Spring



- Divides to 4 forces depending on the strength ultra light(green), light(blue), medium(yellow), heavy(red)
- High elastic spring with constant strength of stability
- Various eyelet sizes for easy engagement of hooks

Type	Size	8mm	13mm
Ultra Light (Green)	Φ1.5-Φ1.5	MCS15-8U	MCS15-13U
	Φ1.5-Φ2.0	MCS20-8U	MCS20-13U
	Φ1.5-Φ2.5	MCS25-8U	MCS25-13U
Light (Blue)	Φ1.5-Φ1.5	MCS15-8L	MCS15-13L
	Φ1.5-Φ2.0	MCS20-8L	MCS20-13L
	Φ1.5-Φ2.5	MCS25-8L	MCS25-13L
Medium (Yellow)	Φ1.5-Φ1.5	MCS15-8M	MCS15-13M
	Φ1.5-Φ2.0	MCS20-8M	MCS20-13M
	Φ1.5-Φ2.5	MCS25-8M	MCS25-13M
Heavy (Red)	Φ1.5-Φ1.5	MCS15-8H	MCS15-13H
	Φ1.5-Φ2.0	MCS20-8H	MCS20-13H
	Φ1.5-Φ2.5	MCS25-8H	MCS25-13H

Coil Spring



Type	Size	Part No.
NiTi Open Coil Spring	21" (010*030)	MOS1030
SS Closed Coil Spring	1m (010*030)	MSCS1030
SS Open Coil Spring	1m (010*030)	MSOS1030

MISO DELUXE DE-BONDING PLIERS

- Ergonomic design for easy bracket removal
- Go through precision processing(0.01mm)
- High quality material



miso DE-BONDING PLIERS

Patent Number: 10-0746634



MISO DE-BONDING PLIERS



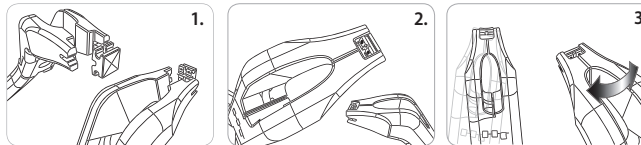
Easier and safer way of de-bonding the bracket

- Produced the highest quality, corrosion resistant stainless steel
- Prevent the fracture on bracket
- Possible to remove the bracket even with the ligation of wire
- Provide easier and comfortable handling for users
- Able to use with other bracket brands



How to use

Patent Number: 10-0746634



miso DE-BONDING PLIERS

INSTRUMENTS

Utility Pliers

Product	Model No.	Description
 How Plier	Model No. 151	Long well tapered shape. With 0.094" (2.4mm) gripping pads which are serrated and shaped, so that their center line coincides with the axis of the rotation of the plier and holds the wire securely. Beaks are rounded to be completely lip safe.
 Utility Plier Weingart	Model No. 154	Classic design, general utility plier. Pointed serrated tips. Holds wire firmly at convenient angle. The beaks are rounded to make the plier completely mouth safe. Useful for removal of ceramics.

Loop Forming, Bending and Laboratory Pliers

Product	Model No.	Description
 Bird beak Plier	Model No. 101	It is used for working round wires up to .030" (0.76mm) in diameter. The beaks are .025" (0.64mm) at the tip. The beaks are parallel at .020" (0.51mm) opening.
 Tweed Loop Forming Plier (1 Piece)	Model No. 102	It has got a fixed, one-piece tip with three forming sections for making Omega loops. The tip sections measure .060", .090" and 0.120".
 Light Wire Plier	Model No. 103	The beaks are more tapered and longer than Bird Beak Plier. Excellent for bending small diameter loops. For wires up to .016" (0.41mm).

Pliers, Direct Bonding Bracket & Band Removers

Product	Model No.	Description
 D.B. Bracket Removing Plier	Model No. 201	Useful for ceramic and stainless steel brackets. The tips wedge between edge of bracket and tooth surface remove it with ease. Completely lip safe.
 D.B. Bracket Removing Plier, with pad	Model No. 202	Designed for quick and comfortable removal of direct bond brackets. It will also remove adhesive from the tooth.

Utility Pliers

Product	Model No.	Description
 Posterior Band Removing, Plier, long	Model No. 203	Will remove bands with maximum patient comfort. The tip is postured in the middle of the pad for band removing easily. A plastic padded tip and a sharp removing beak allow, with slight pressure, easy band removal.
 Direct Bond Bracket Removing Plier, angled	Model No. 206	Ideal for quick and safe removal of direct bond brackets. The 60° angle allows access to anterior and posterior brackets.

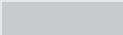
Wire and Ligature Cutters

Product	Model No.	Description
 Distal End Cutter with safety hold	Model No. 211	It shear cuts hard wire and braided wire and then, safely holds the loose distal ends of the wire, thus preventing from falling down into the oral tissues. The cutting edges are diamond honed. Maximum cutting capacity: rectangular and twist wires up to .022" x .028" (0.56 x 0.71mm); round wires up to .020" (0.51mm) in diameter.
 Mini-Distal End Cutter with safety hold	Model No. 212	Just a smarter version!
 Flush Cut Distal End Cutter	Model No. 213	It cuts flush to the buccal tube and holds loose distal wire ends.
 No. 332 Pin and Ligature Cutter, straight	Model No. 214	It is designed for easy and efficient cutting of pins and ligatures. The cutting edges are diamond-honed. Maximum cutting capacity: Soft wires up to .015".
 Mini Pin and Ligature Cutter, straight	Model No. 215	Designed as a miniature ligature cutter. The tips are very fine for easy access into the difficult areas of the mouth. Maximum cutting capacity: Soft wires up to .015".
 Hard Wire Cutter, straight	Model No. 216	Provided with tungsten carbide inserts to provide extra hardness required for cutting all sizes and types of archwires. Maximum cutting capacity: Rectangular wires up to .022" x .028" and round up to .020".
 Mini-Pin and Ligature Cutter, 7 degree	Model No. 217	Provided with 7° cutting angle for easy access. Maximum cutting capacity: Soft wires up to .015".
 Pin and Ligature Cutter, 15 degree	Model No. 218	Provided with 15° cutting angle for easy access. Effective for cutting all soft wires, pins and elastics up to .015".
 Hard Wire Cutter, 15 degree	Model No. 219	Provided with 15° cutting angle for easy access with tungsten carbide inserts to provide extra hardness required for cutting all sizes and types of archwires. Maximum cutting capacity: Archwires up to .022" x .028"

LIGATURE TIES



- Latex-Free
- Available in 2 types
 - Normal 1040 ties per pack (26*40 sticks)
 - Mini 1000 ties per pack (10*100 sticks)

Color	Color Name	Normal	Mini
	MAGENTA	EL-N01	EL-M01
	LIGHT PURPLE	EL-N02	EL-M02
	PINK	EL-N03	EL-M03
	RED	EL-N04	EL-M04
	ORANGE	EL-N05	EL-M05
	YELLOW	EL-N06	EL-M06
	LIGHT GREEN	EL-N07	EL-M07
	GOLD	EL-N08	EL-M08
	SILVER GREY	EL-N09	EL-M09
	PEARL WHITE	EL-N10	EL-M10
	CRYSTAL BLUE	EL-N11	EL-M11
	LIGHT BLUE	EL-N12	EL-M12
	BLUE	EL-N13	EL-M13

DURA-STRIP



- Sturdy connecting part with flexible blade offers more reliability
- Excellent shaping and contouring
- Precise spacing and greater tactile control
- Providing safety to both doctor and patient
- Other related products
 - Gauge Set (0.10, 0.20, 0.25, 0.30, 0.40, 0.50mm)
 - Manual Stripping Handle

• Double Sided Strip

Size (mm)	Crit (μm)	Holes	Part No.
0.08	15	W / WO	DS15-08(H)
0.12	25	W / WO	DS25-12(H)
0.15	40	W / WO	DS40-15(H)
0.19	60	W / WO	DS60-19(H)
0.29	90	W / WO	DS90-29(H)

• Single Sided Strip

Size (mm)	Crit (μm)	Holes	Part No.
0.06	15	Without	SS15(L/R)-06
0.08	25	Without	SS15(L/R)-08
0.10	40	Without	SS15(L/R)-10
0.14	60	Without	SS15(L/R)-14
0.17	90	Without	SS15(L/R)-17

• Aligning Strip

Size (mm)	Density (μm)	Holes	Part No.
0.1	40	Without	AS40-01
0.2	40	With	AS40-02H
0.3	40	With	AS40-03H
0.4	40	With	AS40-04H

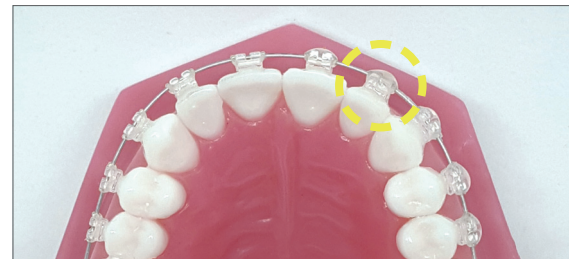
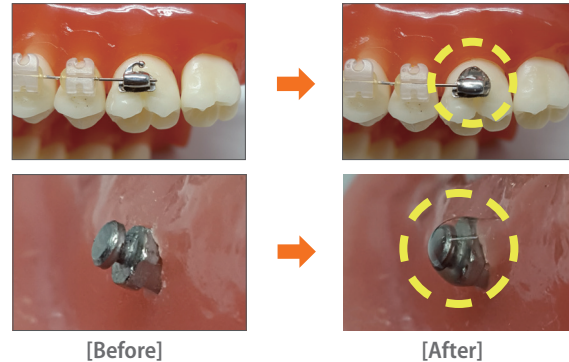
MISO S GEL

Temporary mucosal protector



[Soft. Shield. Save time. Super easy removal.]

- Light Curing
- Flowable, easy application
- Easy to remove at once
- Most effective at the beginning of orthodontic treatment
Can reduce irritation and pain

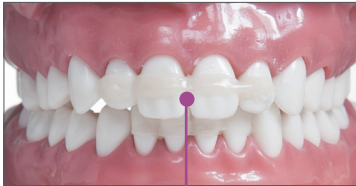


MISO RETAINER

Available Sizes : 1mm*200mm*1unit / 2mm*200mm*1unit

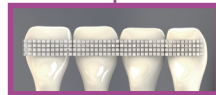
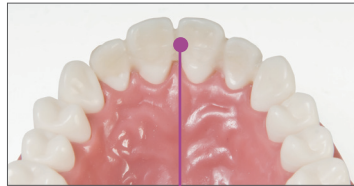
Splinting

- Is Quick, Clean and Simple
- Is comfortable for patient-smooth & highly esthetic
- Supports teeth effectively
- Has superior durability
- Is easy to remove when necessary



Orthodontic retainer

- Aesthetic
- Metal free-comfortable for patient
- A quick application
- Easy to adapt directly to teeth and bond in place



Implant temporary

- Aesthetic
- Easy to make implant temporary prostheses
- Easy to remove when necessary



TYPODONT

Available options

- Plain (without brackets)
- With Mono Ceramic (sapphire) brackets
- With Metal brackets
- With Poly ceramic brackets
- With Mono Ceramic brackets+ Metal brackets
- All desired combinations of HT products



[Plain]



[With MISO]



[Combination]

※ Actual product may differ from image shown

ORTHODONTIC RETAINER CASE

- Whitening tray case
- Can keep Mouth goods clean
- Can Keep musical instrument mouthpiece and contact lens
- Designed for high durability
- Sophisticated design with various colors
- Portable size and light weight



- 81mm*67mm*36mm / 35g
- Made of ABS material



- 82mm*74mm*29mm / 29g
- Polypropylene(sky)
- 82mm*74mm*29mm / 40g
- ABS(white)

SOCIAL CONTRIBUTION PRODUCTS



“God bless you”
and a miso logo are etched on the handle.

This product is intended for social contribution
by HT and BUNDANG NEW YORK DENTAL CLINIC,
and thus the proceeds from sales have been
contributing to society.



HT INTERNATIONAL ACTIVITIES



We'll be keeping our fingers crossed for
your future you're dreaming of.

HT practices Love through Faith and Hope.
We look forward to your participation.



MEET US

- AEEDE (UAE Dubai)
- IDS (Germany Cologne)
- AAO (United States)
- KAO (Korea)
- KDX (Korea)
- SIDEX (Korea)
- DENTAL SALON / DENTAL EXPO (Russia Moscow)
- And many more...

