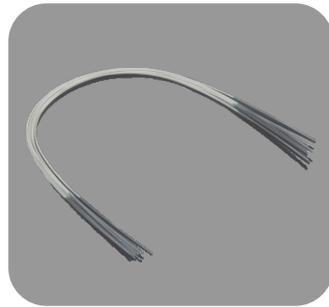




Orthodontic Catalogue 2022



[www.dtechasia.com](http://www.dtechasia.com)



# Bracket Systems & Tubes



“ A good bracket is the foundation of a good treatment plan ... Go ahead, choose the best.”

## **Self Ligating System**

Twist pro  
Cera Clip

## **Aesthetic Bracket**

Krystal Ice Plus  
Cerabrace 5G  
Cera glide

## **Metal Bracket**

Precimax  
Platinum Plus  
Iridium Master  
Econo Mini



# Cera Clip™

## Ceramic Self - Ligating Bracket

### Features

- **Hygienic:** Radial contours of the T1 follow the natural contours of the teeth, creating natural sluice ways for materia alba to wash away from the braces.
- **Comfort:** Smooth, rounded contours provide superior patient, comfort. There are no uncomfortable tie wings to stick out and cause irritation. These features allow lips and soft tissue to adapt comfortably with T1 contours. The Tenbrook T1™ is the lowest profile self-ligating bracket on the market.
- **Chamfered slot (mesio-distally):** Chamfered slot dimension allow for greater flexibility and ease of archwire engagement. High performance wires are able to deflect in a more radial manner, enhancing the archwire's effectiveness in moving teeth efficiently and decreasing permanent sets or kinks in the wire.
- **Rotating cap:** Unique and easy to use. The Tenbrook T1™ proprietary rotating cap allows for easier archwire engagements, by "carrying the wire into the slot" upon archwire engagements. No more "crushing" or scraping the surface of archwires by attempting to close a door, slide or clip. Unique axial design minimizes materia alba and calculus build up around the mechanism. The aids in deflecting material away, not allowing frictional binding of the cap.
- **Finishing:** Unique slot dimensions allow for wires to "couple" more effectively, aiding in rotational and torque control. The finishing wire matches the T1 slot dimensions (within manufacturing tolerances) almost perfectly, allowing you, the orthodontist, to realize your "true straight wire" prescription. Slot dimensions allow for four-wall contact, making T1 an active bracket for optimum torque control during finishing.

## self-ligating technology



### Features

- Pure ceramic body & clip ,highly translucent
- Mesh design base for better bonding
- Rounded & polished edges for patient comfort
- Highly accurate slot • Hook on 3,4,5



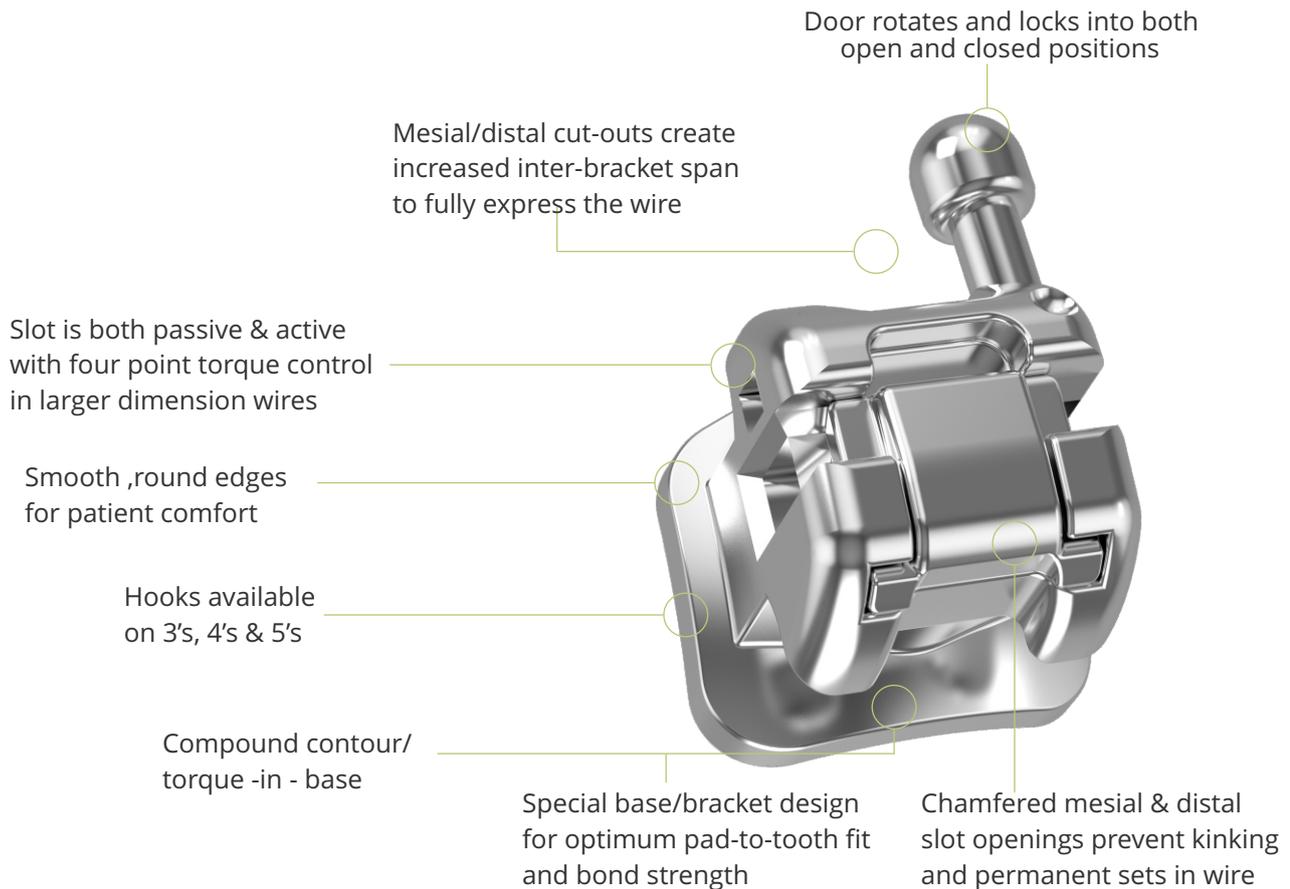
*Global trends*

*Less pain*

*Comfort*

*Hygiene*

Self ligating metal bracket system. Ultra-smooth slot for efficient sliding mechanics. The bracket body has an auxiliary rectangular slot for an additional wire engagement.



## Features

- Rounded edges for patient comfort
- Horizontal auxiliary slot
- Vertical slot in U 1,2, 4,5 & L1,2,4,5
- Fixed hook on U3/ L3

# Krystal Ice plus™

Monocrystalline bracket

## The Clear Choice for Superior performance in aesthetics

Krystal-Ice plus is a true monocrystalline crystal clear bracket that combines aesthetics & strength resulting in a “premium invisible bracket”. These brackets are a clear choice when the orthodontist wants top of the line aesthetics as well as superb results for patients.

### Features

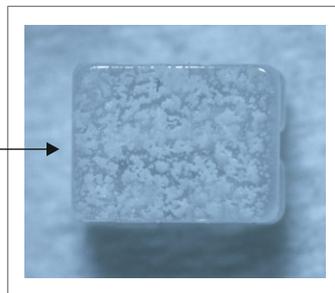
- Excellent sliding mechanics - Ultra smooth diamond & heat polished surface dramatically reduces friction.
- 
- Truly transparent - These brackets are virtually invisible and works with any colour of teeth.
- 
- 

\*Available in both Roth & MBT prescriptions!

### Bond Strength

Magnified photographs show the unique base. The krystal-ice™ bonding base is sintered with zirconia balls creating millions of undercuts that mechanically lock with the bracket adhesive. This process allows for secure retention during the length of treatment and provides for predictable debonding at the end of treatment.

*Sintered Zirconia balls at the base improves bonding strength*



### Patient Comfort

Each krystal-ice™ bracket has been diamond and heat polished to produce rounded, smooth corners for uncompromised patient comfort. The small bracket size and low profile design also provide a desirable bracket both clinicians and patients will appreciate. The krystal-ice™ brackets are also functional, the tie wings are easy to ligate, exceptionally strong and highly fracture resistant.



“krystal-Ice Plus is a true monocrystalline bracket that combines aesthetics & strength to give the “perfect natural look”

Easy Bonding/Debonding



Just squeeze the bracket



# Cerabrace™ 5G Series

## Polycrystalline brackets

Cerabrace 5G with 5 grooves in its contoured base replaces our previous 3- grooves base. The new design dove tail grooves improve adhesion and allow for clean de-bonding on completion of treatment.

### Features

- Integral hooks available on all Cuspids.
- Brackets have very natural look and do not stain or discolor easily.
- Extra smooth for patient comfort.
- Maximum under tie wing area for the best possible Ligation. Easy to ligate.
- Torque - in - base. Exact tip, torque & in/out movement.

“Cerabrace 5G replaces our previous 3- grooves base. The dove tail grooves improve adhesion & allow for clean debonding on completion of treatment”

\*Available in MBT Prescriptions!



## Cera Glide

### Polycrystalline Ceramic Bracket

Polycrystalline ceramic brackets with metal slot. The metal slot significantly reduces friction during sliding mechanics. Made from translucent polycrystalline alumina with high translucency available with a smooth slot.

### Features

- Contoured design for maximum patient comfort
- Mesh base- for optical bonding retention
- Low- friction design
- Polycrystalline aesthetic, CIM



# Platinum Plus™

## Features

Platinum Plus is our top range of Mini twin brackets. They have a very precise slot, excellent finish, low profile and laser marking on the base. The base is compound contoured so it adapts to tooth surface very well. It has a generous under tie wind space for easy ligation.

- Mini size bracket with torque in base.
- Diffusion Welded Mesh- Unique diffusion welded mesh ensures “Zero Mesh Failure” with excellent bonding strength.
- Laser mark - All brackets are laser marked at the back for easy identification.
- Sturdy & high stress resistance in spite of small size.
- Exceptional comfort and appearance.
- Available in .018 & .022 slots.
- Colour coded by quadrant.
- Hooks available on cuspids and bicuspid.



# Iridium™ Master

## MBT prescription Mini Brackets

Iridium Master is a low-profile bracket with laser welded mesh. They are specifically designed with patient comfort in mind. All brackets carry a laser marked identification on the mesh base.

## Features

- Mini size bracket with torque in base.
- Diffusion Welded Mesh- Unique diffusion welded mesh ensures “Zero Mesh Failure” with excellent bonding strength.
- Laser mark - All brackets are laser marked at the back for easy identification.
- Sturdy & high stress resistance in spite of small size.
- Exceptional comfort and appearance.
- Available in .018 & .022 slots.
- Colour coded by quadrant.
- Hooks available on cuspids and bicuspid.

\* Available in MBT prescriptions

Iridium series introduces the new “diffusion welded” mesh. This eliminates any chance of mesh failure.



# Precimax™

## MIM Roth prescription brackets\*

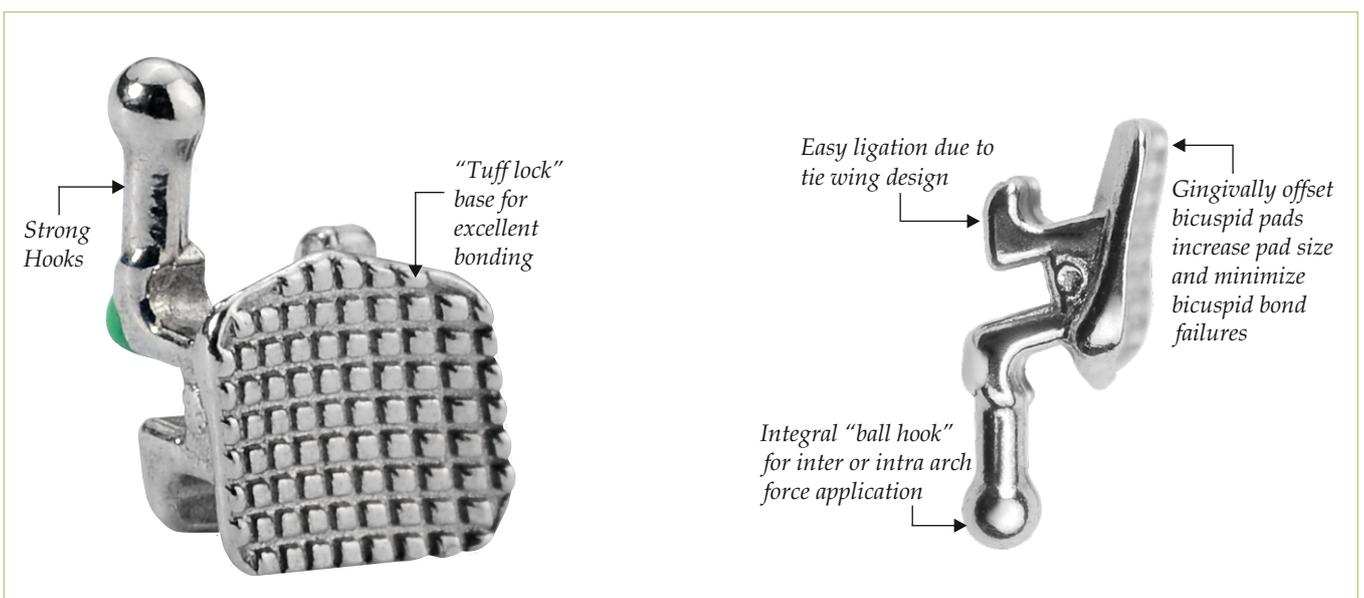
These are engineered for “Maxi MIM” efficiency. Our Precimax brackets, which manufactured by a MIM process, provide a chamfered slot to make wire engagement easy and prevent any permanent wire deformation. They also provide good underwing space for easy ligation.

### Features

- Exacting MIM tolerances of + .0005” create precise slots
- Nickel- free bio- compatible materials
- Superior base design for stronger bond
- Smooth, round edges and hooks increase patient comfort
- Full radius low- profile design
- Anatomically contoured
- Integral Metal Injection Moulded with “Tuff Lock” base



“Engineered for Maxi MIM efficiency, our Precimax™ Roth Brackets provide all the benefits of a full sized bracket, while incorporating all the aesthetics of a mini bracket”



# Econo Mini

## *Hook on 3*

Econo Mini is an all rounder in our product line up. Accurate and smooth slot, sufficient underwing space and constantly reliable quality at an affordable price.

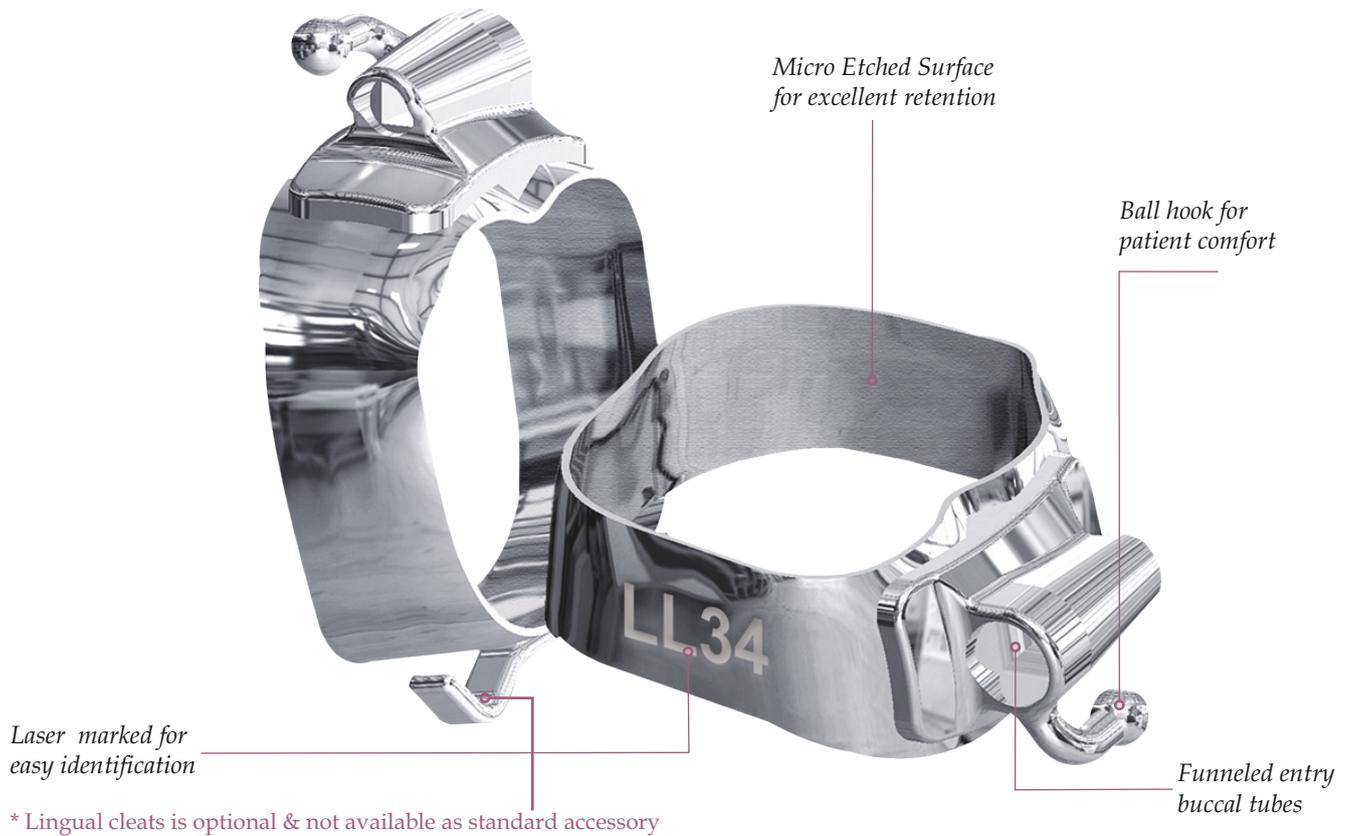
## Features

- Mini size , **mesh base** bracket with torque in base
- Zero defect bracket selling over 12 years
- Sturdy & high stress resistance in spite of small size .
- Exceptional comfort and appearance.
- Available Roth 018 and Roth 022
- Available MBT 018 and MBT 022



# Premium Prewelded Bands

“Anatomically proportioned for each tooth size”



Available In Prewelded Assembly With The Following Maxillary or Mandibular Tubes

Maxillary Options

Mandibular Options

## MAXILLARY

Upper Single	(-14, +8)
Upper Double (Auxillary Wire Slot)	(-14, +9)

## MANDIBULAR

Lower Single	(-25, +5)
Lower Single	(-20, 0)
Lower Double (Auxillary Wire Slot)	(-20, 0)

## ANATOMIC MOLAR BANDS ( SIZES )

Small - Medium	33	33+	34	34+	35	
Medium - Large	35+	36	36+	37	37+	38
Large - Extra Large	38+	39	39+	40	40+	

## Features

Pre welded Molar Bands: Anatomically proportioned for each tooth size.

- Micro-etched internal surface
- Laser marked for easy identification
- Ball hook for patient comfort
- Funnelled entry in the welded tubes

# Bondable Buccal Tubes

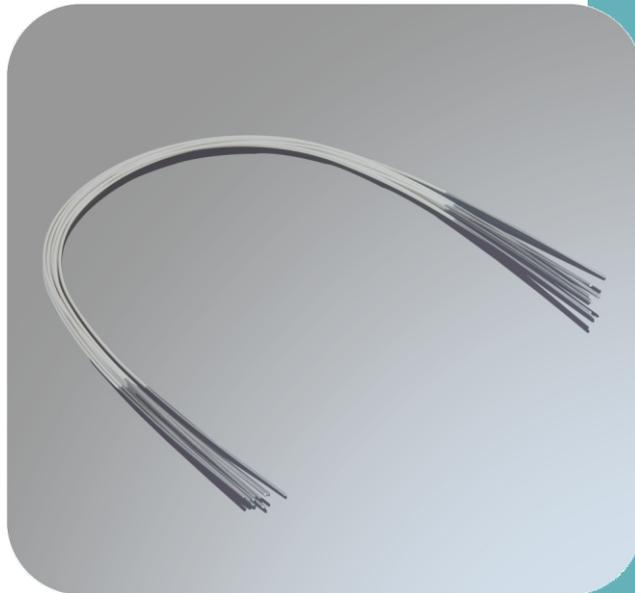
D-Tech range of bondable tubes are super accurate, with a funnel entry to allow for easy insertion of wires. They have a laser welded mesh base and laser identification mark on base. Bracket base has an indent for perfect positioning. They are available for both 6<sup>th</sup> & 7<sup>th</sup> Molar.



“D-Tech offers the orthodontic professional an amazing array of buccal tubes. Precision engineered with latest MIM technology. Range includes single, double, triple tubes with choice of convertible & non convertible. Tubes are also available as bondable with a high quality mesh”

# Wires & Springs

“D-Tech super elastic nickel titanium archwire is made of the best quality, nickel titanium, so it retains its shape & memory longer, reducing chair time and patient wire changes.”



Nobody knows wires  
like we do !!



## **Ni Ti Archwires**

Ni Ti SE Archwires

Dimpled Wire

## **Reverse Curve Wire**

RC with toe-in

RC with Straight Leg

RC Pre Torqued

HANT 30°-35° Wire

Ni Ti Twist Wire

Ni Ti Lingual Archwire

Ni Ti Stepped Force

## **Ni Ti Springs**

Open Spring

Close Spring

Distalising Spring

Ti - Mol Alloy

Stainless Steel Wire

## **Aesthetic Wire**

Silver Rhodium Wire

Super Coated Wire

Teflon Coated Wire

Orthodontic Spool Wire

Nickel Titanium Spool



# Ni Ti Archwires

## Super Elastic Bright

D-Tech super elastic nickel titanium archwire is made of the best quality, nickel titanium, so it retains its shape & memory longer, reducing chair time and patient wire changes. Super elastic nickel titanium preform arch wire for easy engagement and delivery of constant but gentle force that effectively moves teeth with a minimum of patient discomfort. Ideal for alignment and levelling in early to mid-stages of treatment. All Ni Ti wires exhibit a unique "Superelastic" behaviour.

**"D-Tech super elastic nickel titanium archwire is made of the best quality, nickel titanium, so it retains its shape memory longer, reducing chair time and patient wire changes."**



## Features

- Bright finished... Low friction.
- Permanent midline marking.
- Strength and ductility combination.
- High resistance to twist and fatigue.
- Smooth surface.
- Remarkable effect and patient comfort.
- It has a smooth bright finish, which allows brackets to slide freely along the wire, thus lowering bracket friction and accelerating tooth movement.

10 per pack

Size Guide	
○	0.012 U/L
○	0.014 U/L
○	0.016 U/L
○	0.018 U/L
○	0.020 U/L

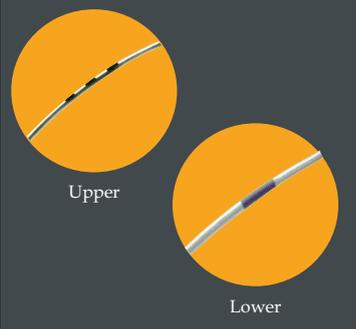
10 per pack

Size Guide	
□	0.016 X 0.016 U/L
□	0.016 X 0.022 U/L
□	0.017 X 0.022 U/L
□	0.017 X 0.025 U/L
□	0.018 X 0.022 U/L
□	0.018 X 0.025 U/L
□	0.019 X 0.025 U/L
□	0.021 X 0.025 U/L



## Round / Rectangular

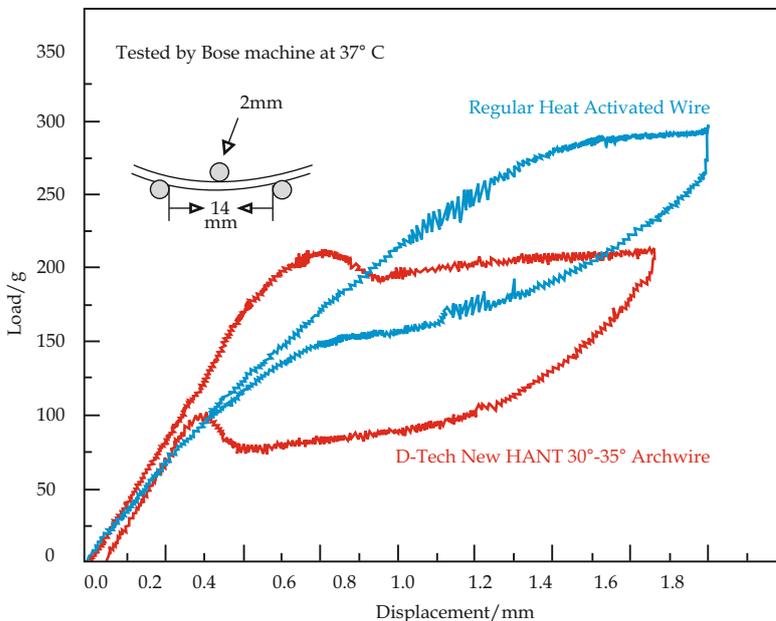
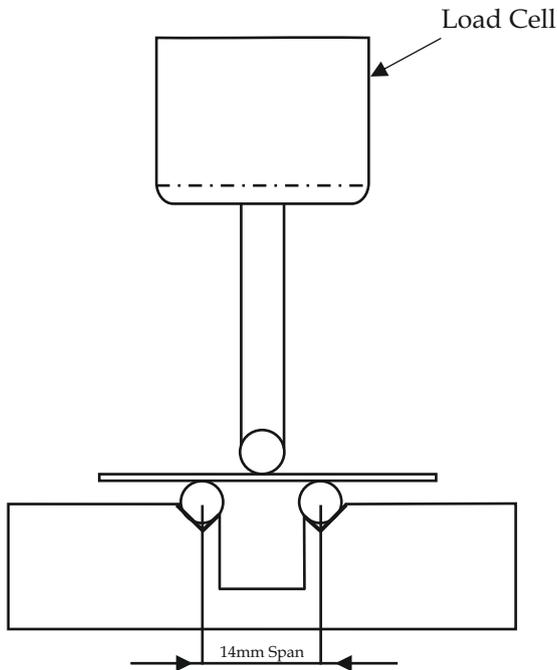
Permanent, etched center marks designate upper or lower arch. Three (3) lines indicate upper arch and a single (1) line indicates a lower arch form.



## Three-point deflection testing to measure force values

State-of-the-art Bose ELF 3200 mechanical test system was used for 3 point bending testing of orthodontic wires. Samples were immersed into the water chamber which was controlled at 37°C Celsius.

Three-point deflection testing



Our new HANT 30°-35° wire is soft, even at room temperature but fully austenitic at 35° C in the mouth.

The new HANT 30°-35° Ni Ti wire is partly martensitic at room temperature. The martensitic characteristics that we refer to is the "soft" state of the Ni Ti material. The material gives you the "best of both worlds" offering you a soft easy to manipulate wire at room temperature and fully resilient wire after insertion in to the mouth. Our new wire is martensitic below 30° C. So its soft at room temperature. Its fully austenitic at 35° C, so it is super elastic in the mouth.

## HANT 30°-35° wire

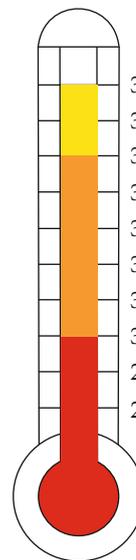
NiTi wires need to demonstrate *extreme elasticity, consistent force, and shape memory*, over a limited range of deflection.

Flat curve of tooth moving force evidences "Constant Force".

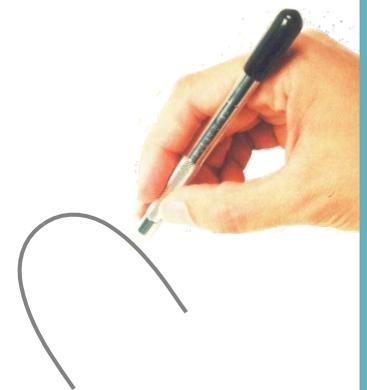
Extreme elasticity shape memory is shown by near complete rebound

Wire are tested on Bose ELF 3200 machine for every production batch.

Bose ELF 3200



Ice tool chills wire quickly for easy placement of intricate bends



Austenitic Start  $A_s = 30^\circ C$   
Austenitic Finish  $A_f = 35^\circ C$



HANT 30°-35° Archwire 10 per pack

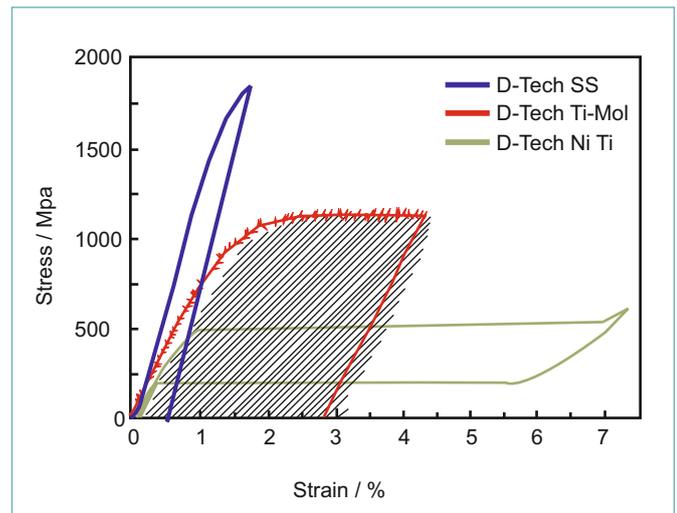
### Size Guide

○ 0.014 U/L	□ 0.016 X 0.022 U/L
○ 0.016 U/L	□ 0.017 X 0.025 U/L
○ 0.018 U/L	□ 0.019 X 0.025 U/L

# Ti-Mol™ Alloy

## Features

- Ideal combination of flexibility & force
- Midline marking
- Nickel free , so no nickel allergy
- Tremendous time efficiency and therapeutic effect.
- Provides stronger force than Ni Ti wire but more elastic than SS wire
- Can be shaped by orthodontists to meet their various requirements.

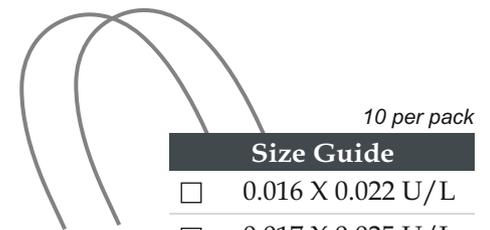


Stress-Strain curve of D-tech Ni Ti alloy.  
D-tech Ti - Mol™ and Stainless Steel orthodontic wires

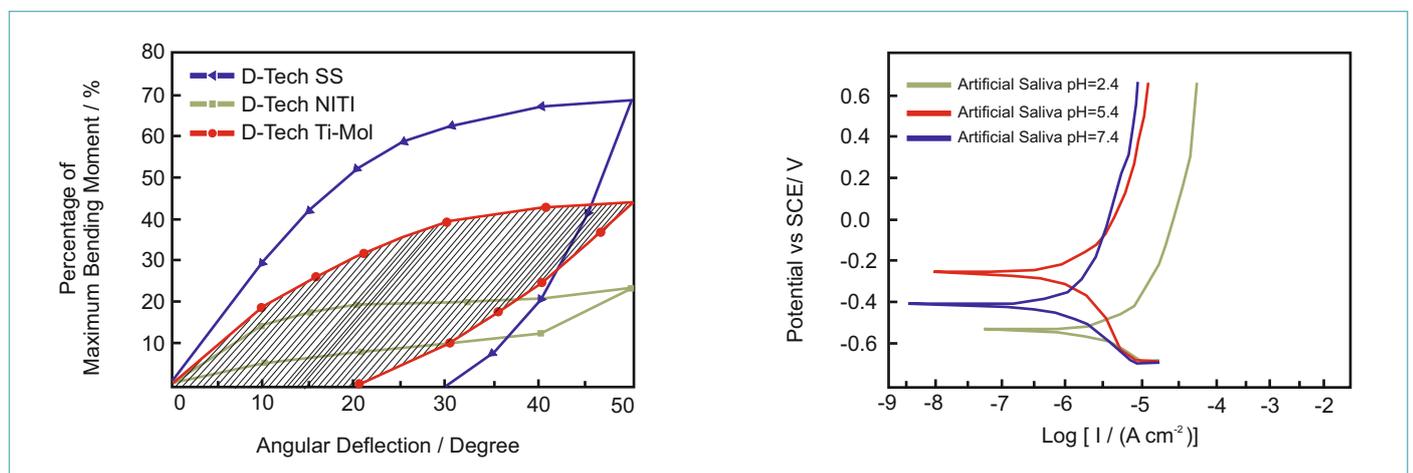
## Nickel free !! Great formability!!

Orthodontists using TMA\* will appreciate D-Tech's Equivalent- Ti-Mol.™ It provides the adaptability and handling characteristics of stainless steel with improved memory and gentler force levels compared to S.S. Ti-Mol™ is a nickel free alloy to help reduce patient Sensitivity. Due to its unique bendability, Ti-Mol™ can eliminate the need for bracket repositioning caused by misplacement or irregular morphology ensuring exact finishing capabilities.

\*TMA is a registered trademark of ORMCO, Inc.



Available in all other sizes on request



Bending moment-deflection curve of D-tech Ni Ti alloy  
D-tech Ti-Mol™ and Stainless Steel orthodontic wires.

Anodic curves of D-Tech Ti-Mol™ in artificial saliva

# Reverse Curve

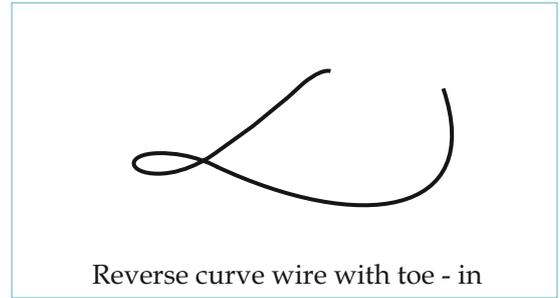
## (Toe - in)

Unique design counters the extrusive component of space closing force while continuing to open the bite. Curved in ends prevent mesio-lingual rotation of molars. Avoids extraction space tipping.

Reverse curve wires can be used for bite correction or, with springs and elastomers, for retraction.

10 per pack

Size Guide			
○	0.014 U/L	□	0.016 X 0.016 U/L
○	0.016 U/L	□	0.016 X 0.022 U/L
○	0.018 U/L	□	0.017 X 0.025 U/L
		□	0.019 X 0.025 U/L



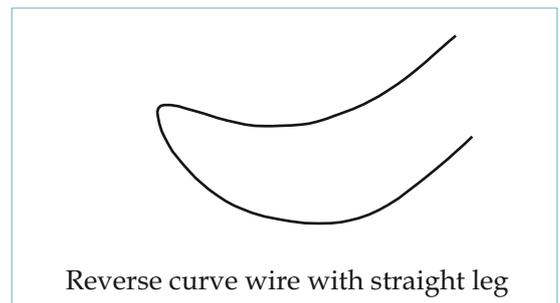
# Reverse Curve

## (Straight Leg)

A low-force, reverse curve of spee wire designed to open bites, prevent molar rotations & maintain anterior torque without crown tipping.

Available in all other sizes on request 10 per pack

Size Guide			
○	0.014 U/L	□	0.016 X 0.016 U/L
○	0.016 U/L	□	0.016 X 0.022 U/L
○	0.018 U/L	□	0.017 X 0.025 U/L
		□	0.019 X 0.025 U/L



# Coated wires

## Aesthetic wire

### Features

- Latest technology of "Multi layer coating gives long life & top performance.
- Ideal choice in combination with top quality aesthetic ceramic brackets
- Ultra aesthetic . Teflon coating usually lasts 2 weeks in the mouth.
- Inked midline marking  
Upper ■ Lower ■
- It makes the wire very smooth and reduces friction of wire as well.
- Available in both round and rectangular.



Ni Ti coated, friction reducing, tooth-colored coatings blend with natural dentition as well as ceramic, brackets. Stain and crack resistant, the arch maintains its original color and will not crack when deflected or bent. These wires blend in with tooth anatomy and esthetic brackets to further enhance the visual appeal of esthetic bracket systems.

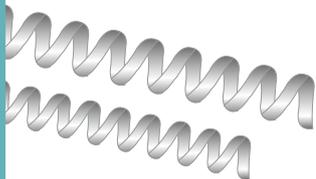


This wire is long lasting.....  
Lasts as much as 6 weeks  
in the mouth and therefore helps to  
increase time gap between  
patient recall"

# Ni Ti Springs

Coil springs can be generally categorized into three types: Compression, Extension, and Distalizing.

Compression, or Open Coil, springs are used to create spaces between teeth or, more simply, to move points away from one another. The coils are compressed when loaded and provide forces outward to create and maintain needed space.



## Ni Ti Open Coil Springs

Ni Ti super elastic open coil spring comes in standard lengths of 7 inches and can be deflected to twice their original length without causing any permanent deformation. They provide Constant force for maximum efficiency in opening spaces when placed on wire compressed between two brackets.

## Ni Ti Close Coil Springs

Ni Ti close springs with loop ends are designed to close spaces with consistent and predictable results. They provide excellent results in closing spaces and anterior retraction. They can be easily engaged to bracket hook or buccal tube hook. In case the distance between two hooks exceeds expansion limits of this coil spring, use ligature with the close spring to engage hooks.

## Stainless Steel Wire Preformed S.S. Archwire

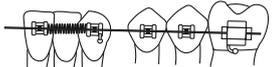
### Features

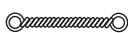
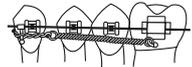
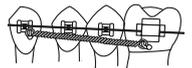
- Superior smooth, bright finish.
- Precise shape and flatness of arches is ensured through tight production control.
- Best suited as finishing wire, as forces drop quickly as teeth move.
- Easy bend placement.
- Good corrosion resistance.

Stainless Steel single strand archwires for treatments requiring complex bends and loops, with the force and stability that is needed for final treatment phases. S.S wire is available in round and rectangular sizes. The archwire has superior strength with excellent ductility to accept intricate bends. Super-bright finish for reduced friction.

Extension, or Closed Coil, springs are used to close spaces between teeth or, more simply, to move points closer to one another. The coils are extended when loaded and provide retraction forces to close spaces.

Distalizing, or Open-Closed Coil, springs are specialized springs used to distalize molars. The springs are compressed when loaded and exert forces against the molars to tip or move them in the proper direction.

OPEN COIL SPRING		1 per pack
Force	Length	
Light (010)	7" length	

CLOSE COIL SPRING		10 per pack
Length	Eyelet	
L 9mm	E 1.5	
L 12mm	E 1.5	
L 9mm	E 2.0	
L 12mm	E 2.0	

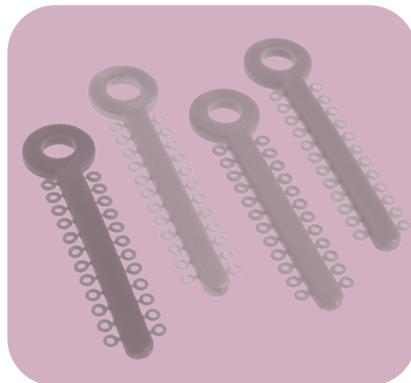
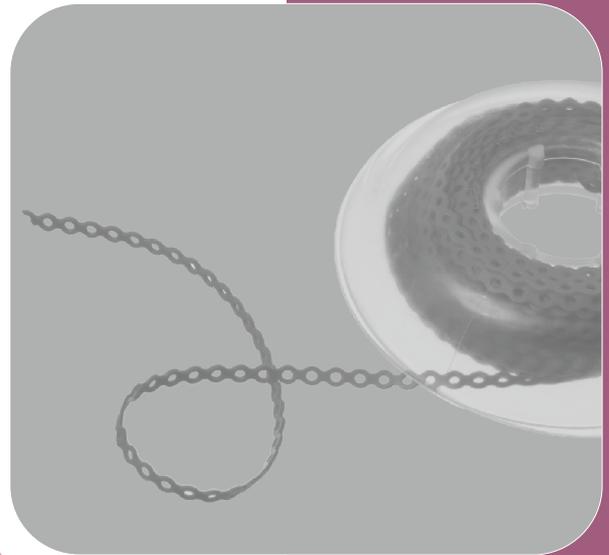
Eyelets are integral and made of NiTi.



“D -Tech’s preformed Stainless Steel archwires are made of high quality medical grade Type 304VSS material with highly polished surfaces to provide reduced friction between bracket and arch.”



# General Supplies



Elastomeric Chain  
Ligature Ties  
Elastic Ties Big Ring end  
EZ Ties  
Intra Oral Elastics  
Bondable Buttons  
Elastomeric Chain  
Crimpable Hooks  
Embrace LC

“Elastomerics, This is the final stretch...  
Let’s use the best.”



# Ligature Ties Big Ring End

Ligature Ties Big Ring End: Premium grade ligature ties with a large ring head to allow easy holding and removal of ties from the stick

## Features

- Extended elastic memory
- Improved stain resistance
- High force of restoration
- Ideal ring for holding
- Various colours including grey, yellow, red, clear
- Packing: 1008 EA/ PKG (42x24)



# Ligature Ties

Improved module design makes ligating easier. Modules can be pulled off of sticks cleanly without burs or weak spots



# EZ Ties

Ties with a V bend that allows for super easy & quick ligation. This design allows for lower friction in the alignment phase due to the unique shape of the ties.

“Improved module design makes ligating easier. Modules can be pulled off of sticks cleanly without burs or weak spots”.



Closed	
Short	
Long	

# Elastomeric Chain

Elastomeric chain is with excellent stretch and rebound, giving superior elongation for easy application. It is available in three sizes Closed, Short & Long

## Features

- Unique heat-curing process enables chain to last longer than others.
- Elasticity remains active up to 6 weeks, assuring faster tooth movement.
- Length -15ft per spool.
- Colors available are clear, grey, tooth color, multicolor & glow.



Elastomeric chain is with excellent stretch and rebound, giving superior elongation for easy application. It is available in three sizes.

# Intra Oral Elastics

## Features

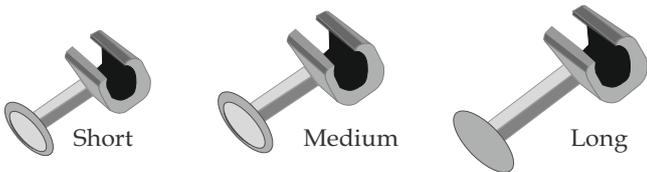
- Color coded strong elastic for intra oral use.
- Packing 1000 EA/PKT .
- Packaged in easy to use zip lock bag.



# Crimpable Hook

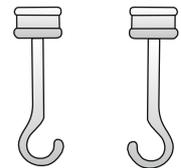
Short, Medium, Long

Sturdy ball hooks, remain firmly in place when crimped.



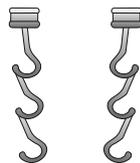
# Crimpable Hook

Curved Left & Right



# Crimpable Hook

Spiral Left & Right



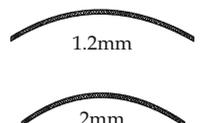
# Bondable Button

Metal injection Molded and designed to conform to tooth Surface. Mesh base for maximum retention.



# Universal Retainer

Available in 1.2mm or 2mm thick strips .Entire strip has mesh on one side. Can be cut & used as required.



# Embrace™ Light cure LC orthodontic adhesive bonding system

Embrace LC is intended for use in bonding orthodontic brackets : made of Metal , Composite or ceramic brackets

Embrace LC is a highly filled material that delivers **optimum bond strength** in all situations. Small particle filler for extra strength and yet easy to debond.

Embrace LC has the right level of **tackiness**. Ideal level of this property ensures that the cement holds the bracket in position and does not allow the bracket to drift during the adjustment of bracket position.

**Solvent free primer** : Our unique formulation of primer is solvent free so there is no need to air dry the layer of primer before curing. This makes the priming less technique sensitive.

## Features

- Unlimited working time to precisely place metal, composite or ceramic brackets followed by a quick light cure.
- UV Cures in only 20 seconds of light exposure.
- Small particle filler for extra strength and yet easy to debond
- Color stable to preserve excellent aesthetics.



### PACKAGING

- 1x5g Adhesive Paste syringe
- 1x3ml Primer bottle
- 1x3g Ortho Etch syringe



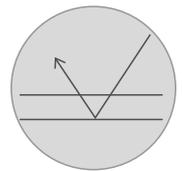
Optimal Bonding Strength



Perfect Debonding



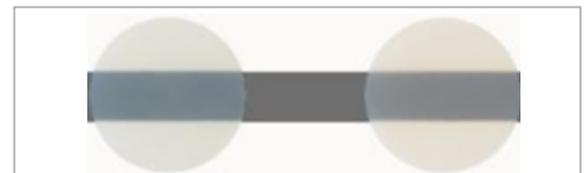
No solvent



Translucent

## TRANSLUCENCY OF PASTE

D Tech product is ideal to predicate M in translucency. This translucency indicates a perfect Refractive Index match of the fillers and resins which leads to a better curing throughout the cement. This is particularly important in bracket bonding because light exposure is only in the periphery of the bracket.



Leading Brand M Adhesive Paste

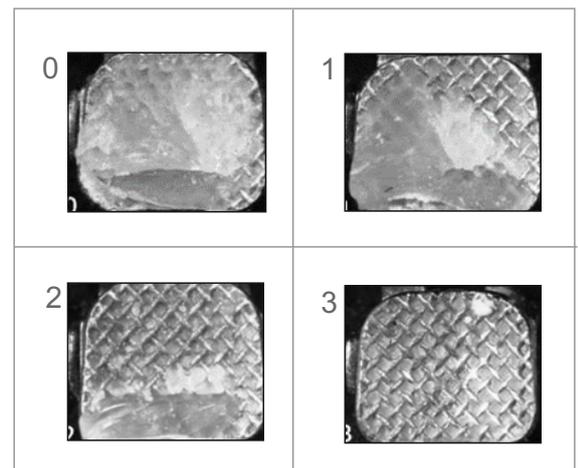
D Tech Embrace LC Adhesive Paste

This translucency indicates a perfect Refractive Index match of the fillers and resins which leads to a better curing throughout the cement. This is particularly important in bracket bonding because light exposure is only in the periphery of the bracket.

## EFFICIENT DEBONDING

The importance of debonding . It is essential that a bracket must debond in a manner that is safe for the enamel and at the same time not leaving behind too much cement for clean up. As per ASI system the ideal debonding situation is in Case 1& 2 which is explained below.

0	The entire adhesive left on the bracket base	X
1	More than half of the adhesive left on the bracket base	✓
2	Less than half of the adhesive left on the bracket base	✓
3	No adhesive left on the bracket base	X



\* 90% of our debonding trials has given results in Category 2 & 3 which is ideal.

Self Ligating Bracket  
Ceraclip  
Twist pro

Aesthetic Brackets  
Krystal ice plus  
Cerabrace 5G  
Ceraglide

Platinum plus  
Iridium master  
Precimax  
Econo Mini

Archwire Ni Ti  
Archwire HANT  
Archwire RC  
Archwire TMA  
Archwire Coated  
Springs

Bondable tubes  
Molar bands

General Supplies  
Embrace LC  
Elastomerics  
Crimpable hooks  
Bondable Buttons



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