




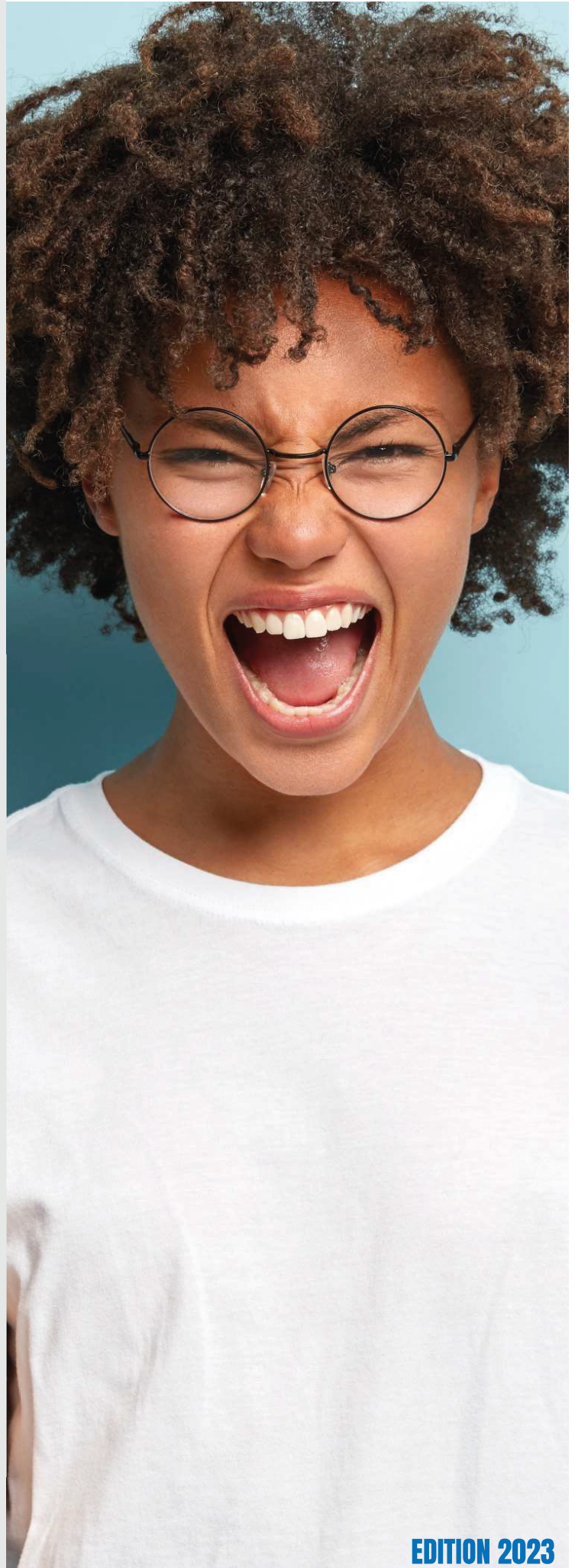
LE MED
INSTRUMENTS
GmbH



- » **INNOVATION**
- » **CLASS**
- » **QUALITY**



 Produced By
 LE MED Instruments GmbH
 Germany



EDITION 2023

ORTHODONTIC INSTRUMENTS

TRADITION & INNOVATIVE TECHNIQUE



ORTHO DONTIC



INSTRUMENTS

LE MED Instruments Mission

It is our mission to lead the global industry by providing the highest quality instruments at the best value through dependable, personalized service, on-time delivery & continuous improvement of our instruments & processes. LE MED stands behind every instrument with a lifetime guarantee.

Welcome to LE MED Instruments GmbH!

Since our founding in 1986, we have been dedicated to provide every professional around the world with the highest quality instruments at the best value in the industry. LE MED supplies Orthodontics, Podiatry and General Dental/Surgical instruments around the world. Our instruments are superior to others. LE MED use latest technology, computerized CNC machines, skillful mechanical engineers and craftsmen in production unit. From sales to customer service, manufacturing to marketing, and everything in between, we are focused on building strong relationships and exceeding your expectations every step of the way. Because with LE MED, you are not just a customer, you are a partner.

We are grateful and thank you for partnering with LE MED Instruments. We truly value you and your business and look forward to our mutual success for years to come.

Sincerely,

A handwritten signature in black ink, appearing to read 'ZYN'.

ZYN

CEO - LE MED Instruments GmbH



Exclusive Range
**ORTHODONTIC
INSTRUMENTS**

INNOVATION >> CLASS >> QUALITY >> PERFORMANCE



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Imported & Distributed
by **le med**



LE ORTHO SERIES

LE ORTHO® SERIES instruments are manufactured using high-tech equipments and high-end processing to ensure our customers get the highest quality instruments at a very reasonable price. They are designed to last and maintain a high quality throughout their life. In addition, the product properties such as hardness, robustness and corrosion resistance significantly determine the performance, reliability and durability of the instruments.



Packaging

HIGH QUALITY, RELIABLE INSTRUMENTS



Front Working Jaw
Wear and corrosion resistant metal inserted jaws
Made with highest quality hard (German Stainless Steel).

Hand Crafted Box Joint Construction
The most reliable design possible

Concave Design
For easy and efficient cutting

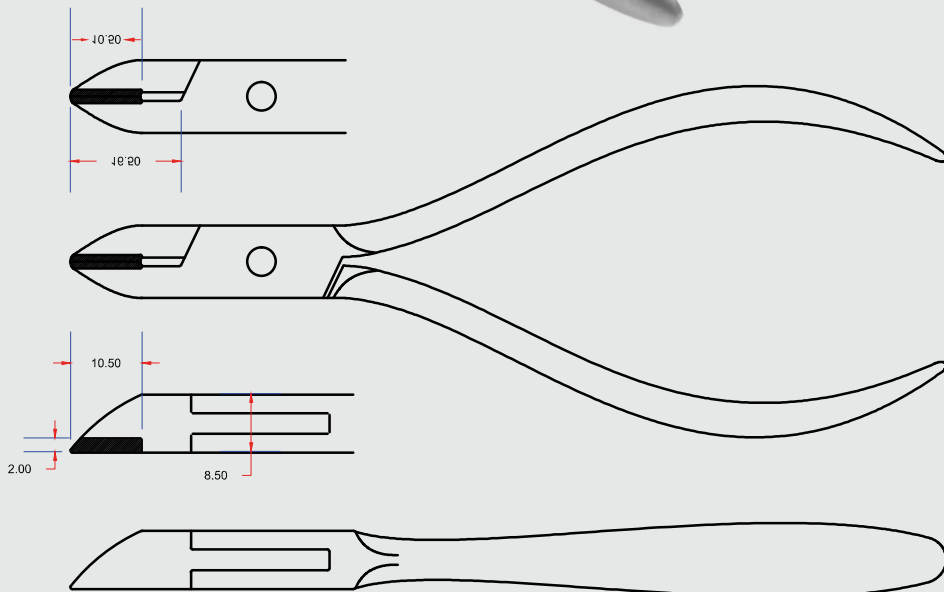
Stainless Steel
Forging is made with highest quality durable (Surgical Grade Stainless Steel).

Hand-Crafted in the LE MED
Your insurance of quality

Lifetime Warranty
Against forging breakage

Super Elegant White Matte finish.

Box-joint





Micro Pin and Ligature Cutter

- Standard size instrument with straight head.
- Concave designed for maximum vision when cutting.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM002

Wire Range

Maximum cutting capacity: soft wires up to 0.015"



Micro Pin and Ligature Cutter 15° Angle

- Standard size instrument with angled head at 15° degree.
- Concave designed for maximum vision when cutting.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM004

Wire Range

Maximum cutting capacity: soft wires up to 0.015"



Classic Pin and Ligature Cutter

- Standard size instrument with straight head.
- Concave designed for maximum vision when cutting.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM006

Wire Range

Maximum cutting capacity: soft wires up to 0.015"



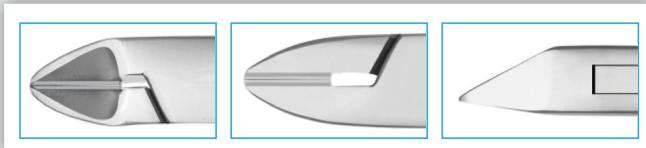
Classic Pin and Ligature Cutter 15° Angle

- Standard size instrument with angled head at 15° degree.
- Concave designed for maximum vision when cutting.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM008

Wire Range

Maximum cutting capacity: soft wires up to 0.015"



Pin and Ligature Cutter Multi-Functional

- Standard size instrument with straight head and its multi-functional ability can cut wire from both sides.
- Concave designed for maximum vision when cutting.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Wire Range

Minimum Capacity: .012" , Maximum Capacity .020"

REF:LM010



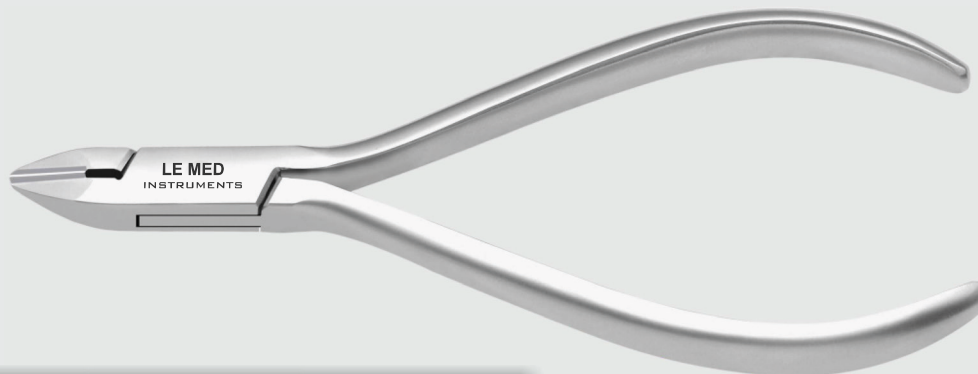
Pin and Ligature Cutter 15° Angle Multi-Functional

- Standard size instrument with angled head at 15° degree and its multi-functional ability can cut wire from both sides.
- Concave designed for maximum vision when cutting.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Wire Range

Minimum Capacity: .012" , Maximum Capacity .020"

REF:LM012



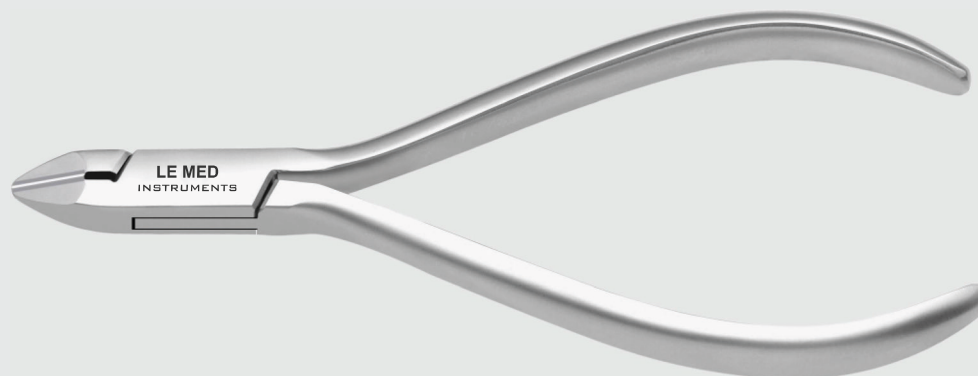
Mini Pin and Ligature Cutter

- Mini size instrument with straight head .
- Concave designed for maximum vision when cutting.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM014

Wire Range

Maximum cutting capacity: soft wires up to 0.015"



Mini Pin and Ligature Cutter 15°Angle

- Mini size instrument with angled head at 15° degree.
- Concave designed for maximum vision when cutting.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM016

Wire Range

Maximum cutting capacity: soft wires up to 0.015"



Pin and Ligature Cutter Long Handle

- Long-Handle instrument allows better control with straight head.
- Concave designed for maximum vision when cutting.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM018

Wire Range

Maximum cutting capacity: soft wires up to 0.015"



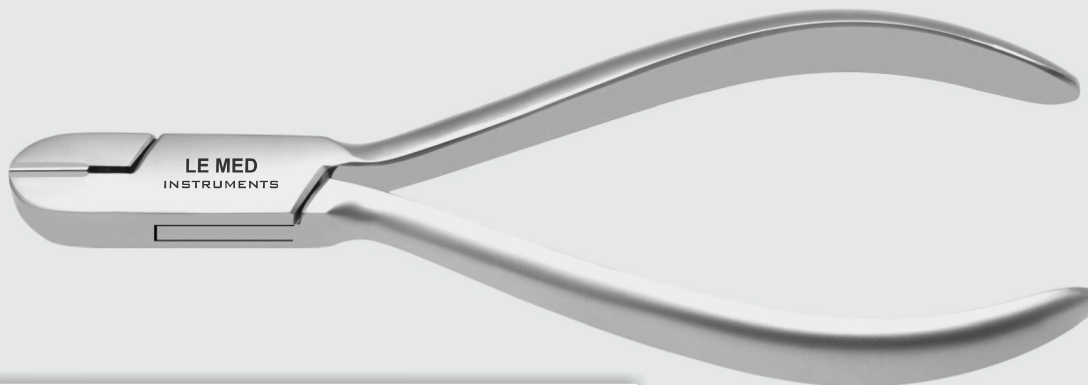
Pin and Ligature Cutter 15° Angle Long Handle

- Long-Handle instrument allows better control with angled head at 15° degree.
- Concave designed for maximum vision when cutting.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM020

Wire Range

Maximum cutting capacity: soft wires up to 0.015"



Hard Wire Cutter Straight Jaws

- Standard size instrument with straight head.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM028

Wire Range

Maximum cutting capacity: cuts wires up to .022" X .028"



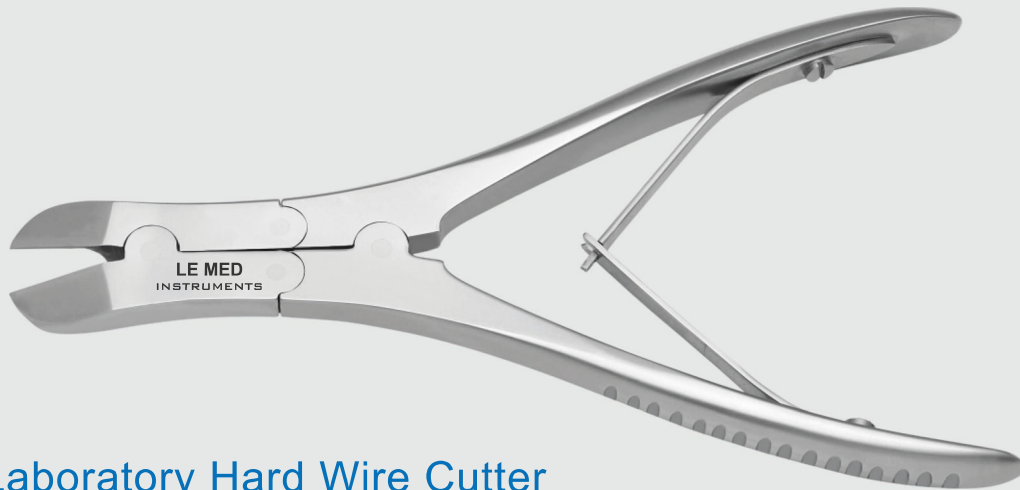
Hard Wire Cutter 15° Angle Jaws

- Standard size instrument with angled head at 15° degree.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM030

Wire Range

Maximum cutting capacity: cuts wires up to .022" X .028"



Laboratory Hard Wire Cutter

- Precision cutting blades.
- Double spring with hard metal jaws inserted.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM264

Wire Range

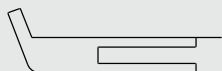
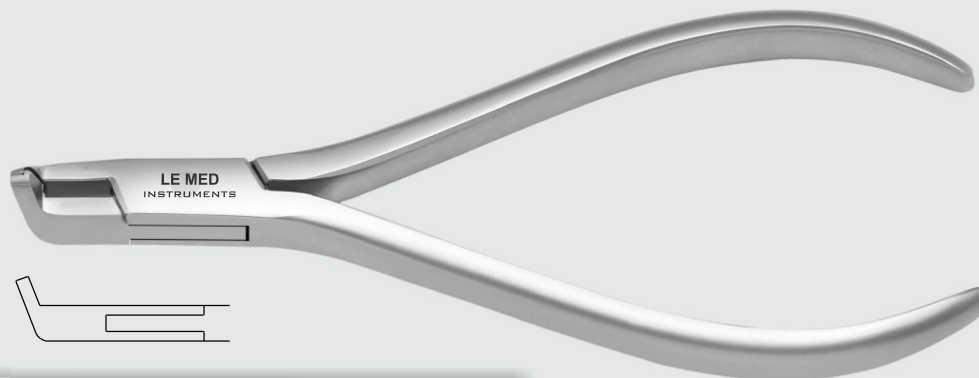
Maximum cutting capacity: cuts wires up to 0.036"

Heavy Duty Power Cutter



REF:LM266
Hard Wire Cutter-Lab Tool
Max .050"





Mini Distal End Cutter with Safety Hold

- Shear cuts hard wire and then safety holds the loose distal end to prevent wire from going into tissue.
- Mini size instrument with small head.
- Hand crafted box joint construction the most reliable design possible
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM032

Wire Range

Minimum Capacity: .014" , Maximum Capacity .021X.025"



Distal End Cutter with Safety Hold

- Shear cuts hard wire and then safety holds the loose distal end to prevent wire from going into tissue.
- Standard size instrument with small head.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM034

Wire Range

Minimum Capacity: .014" , Maximum Capacity .021X.025"



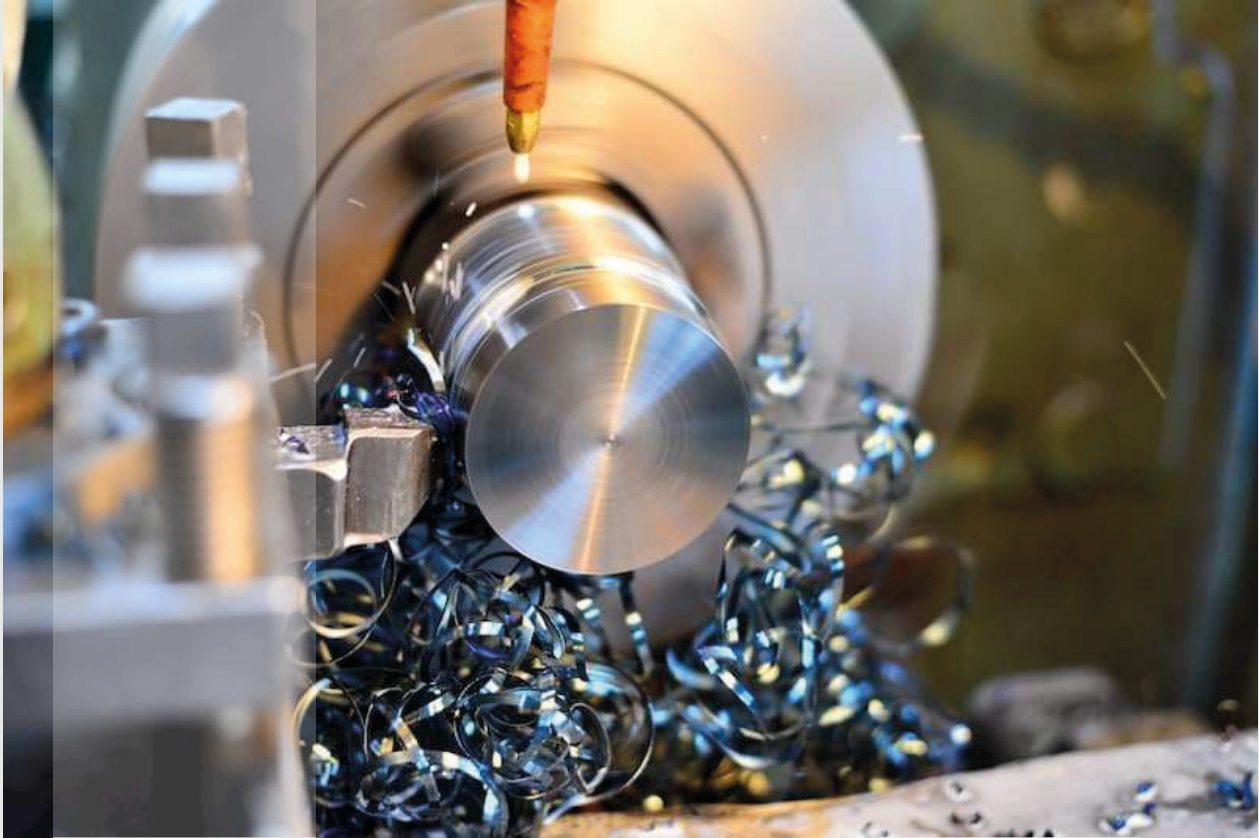
Distal End Cutter with Safety Hold Long Handle

- Shear cuts hard wire and then safety holds the loose distal end to prevent wire from going into tissue
- Long-Handle instrument allows better control with small head.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Wire Range

Minimum Capacity: .014" , Maximum Capacity .021X.025"

REF:LM036

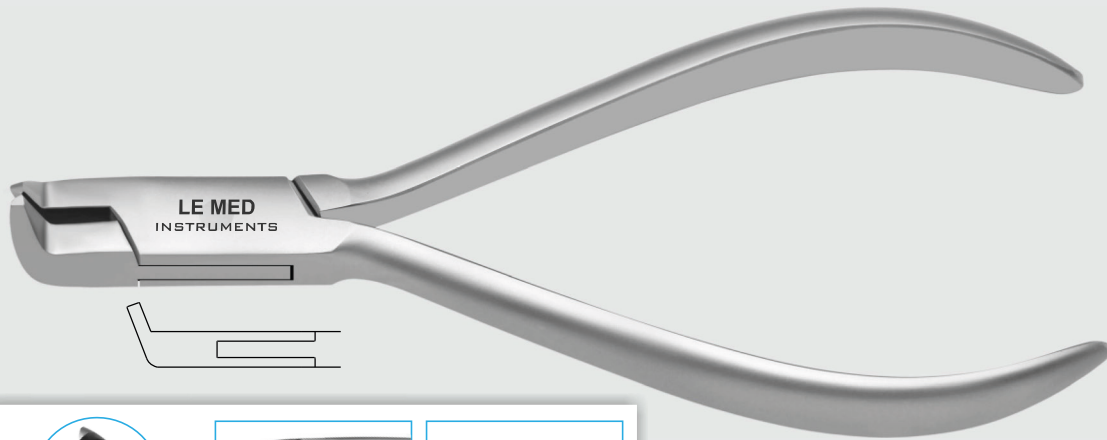


CNC MILLING

LE MED Product Orthodontic Pliers Inserted
Material on CNC Machines

HIGH QUALITY





Flush Cut Distal End Cutter without Safety Hold

- Assures arch wire is cut flush with the end of a tube.
- Standard size instrument with small head.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM050

Wire Range

Minimum Capacity: .016" , Maximum Capacity .018 X.025"



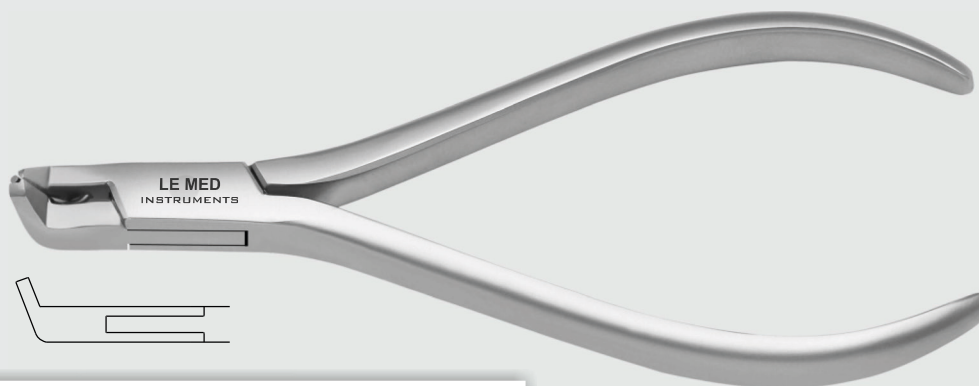
Flush Cut Distal End Cutter without Safety Hold

- Assures arch wire is cut flush with the end of a tube.
- Long-Handle instrument allows better control with small head.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM052

Wire Range

Minimum Capacity: .016" , Maximum Capacity .018 X.025"



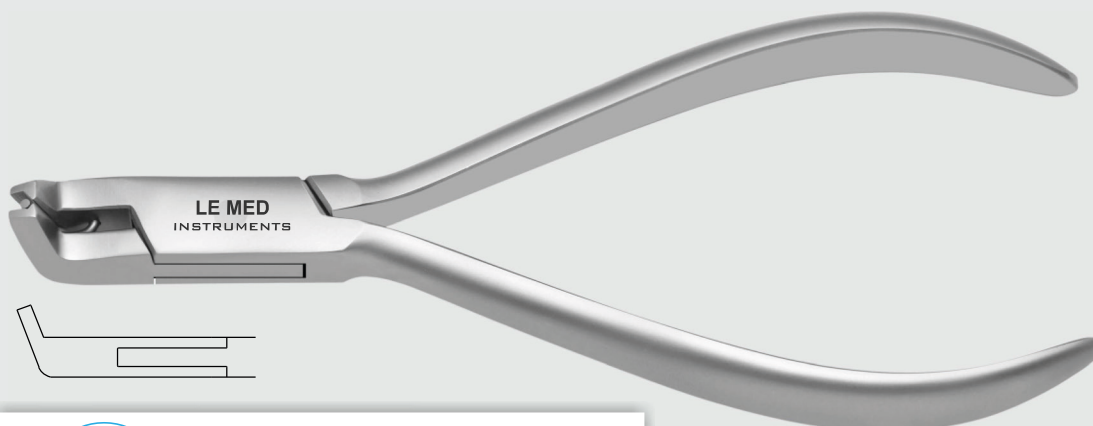
Mini Flush Cut Distal End Cutter with Safety Hold

- Assures arch wire is cut flush with the end of a tube and Safety hold is ideal for intra-oral cutting.
- Mini size instrument with small head.
- Hand crafted box joint construction the most reliable design possible
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM038

Wire Range

Minimum Capacity: .016" , Maximum Capacity .018 X.025"



Flush Cut Distal End Cutter with Safety Hold

- Assures arch wire is cut flush with the end of a tube and Safety hold is ideal for intra-oral cutting.
- Standard size instrument with small head.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM040

Wire Range

Minimum Capacity: .016" , Maximum Capacity .018 X.025"



Longer Handle, Better Control

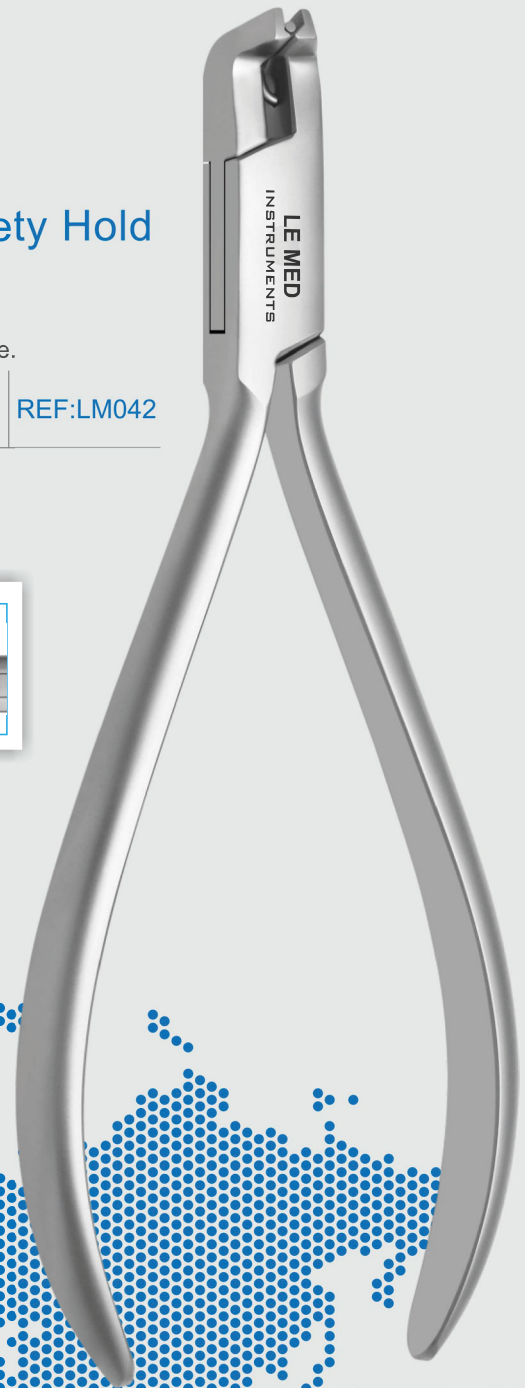
Flush Cut Distal End Cutter With Safety Hold

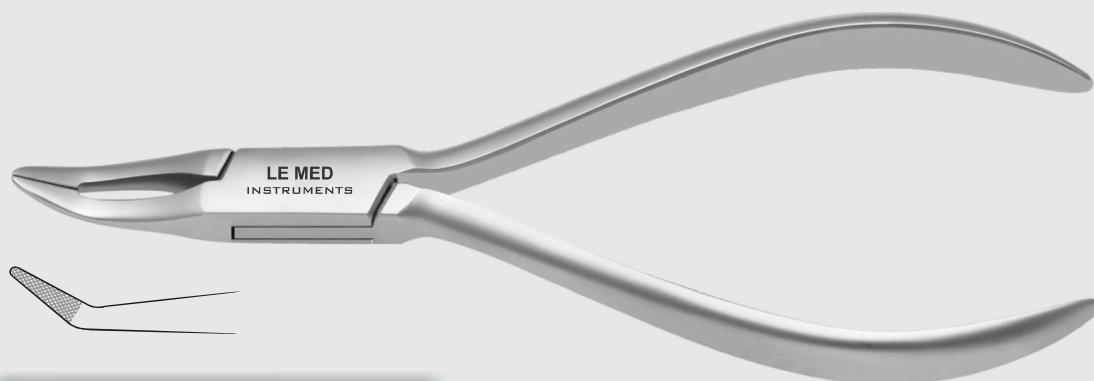
- Assures arch wire is cut flush with the end of a tube and Safety hold is ideal for intra-oral cutting.
- Long-Handle instrument allows better control with small head.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM042

Wire Range

Minimum Capacity: .016" , Maximum Capacity .018 X.025"





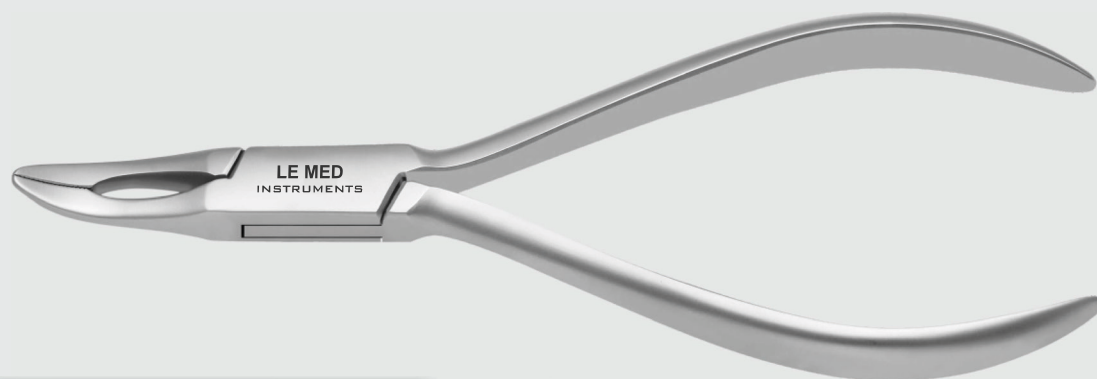
Weingart Plier Slim

- Precision working point.
- Standard size instrument with slim jaw.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM118

Wire Range

Maximum wire capacity: Bends and holds round, square and rectangular wires up to 0.030"



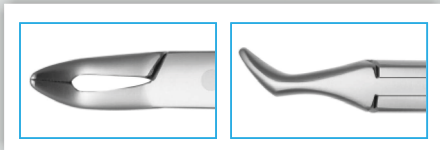
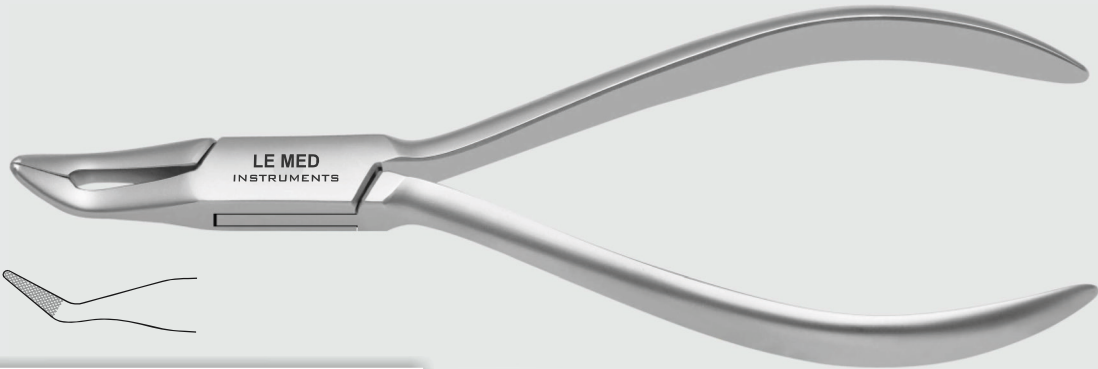
Weingart Plier Utility

- Precision working point.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM120

Wire Range

Maximum wire capacity: Bends and holds round, square and rectangular wires up to 0.030"



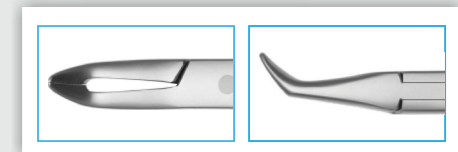
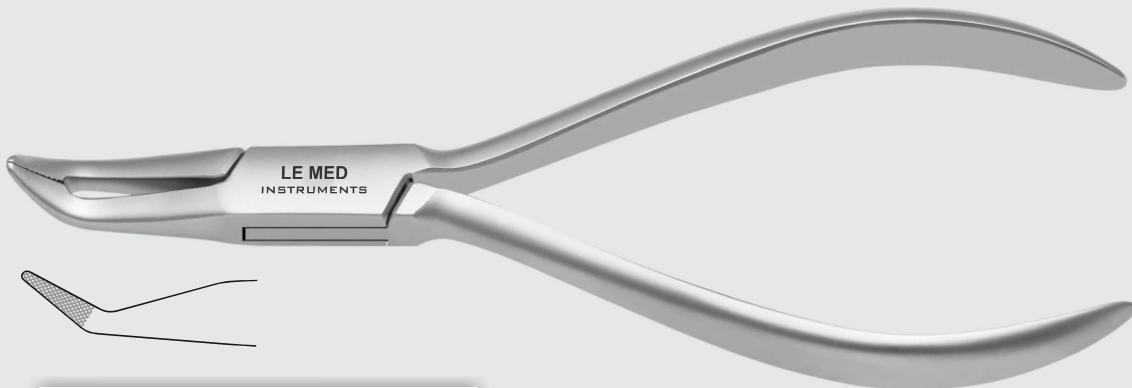
Weingart Plier Angled (Short Beak)

- Precision working point.
- Standard size instrument with short beak.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM122

Wire Range

Maximum wire capacity: Bends and holds round, square and rectangular wires up to 0.030"



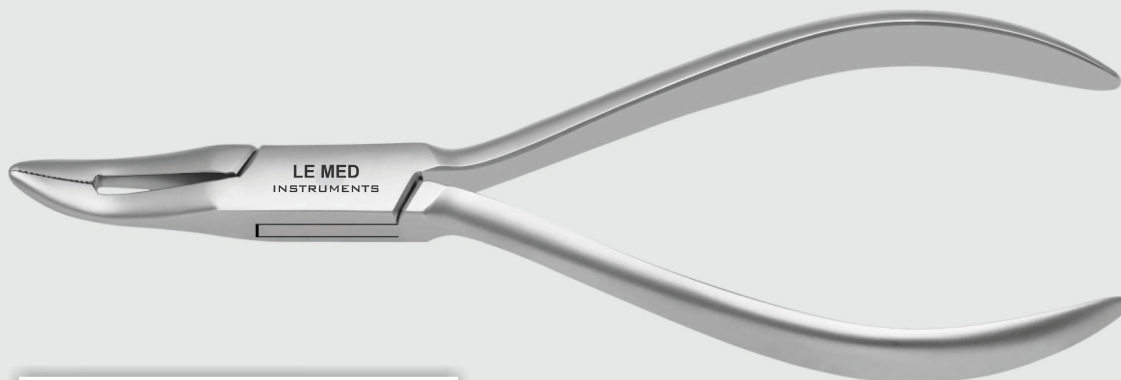
Weingart Plier Angled (Long Beak)

- Precision working point.
- Standard size instrument with long beak.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM124

Wire Range

Maximum wire capacity: Bends and holds round, square and rectangular wires up to 0.030"



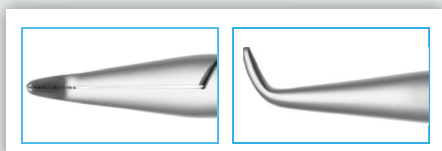
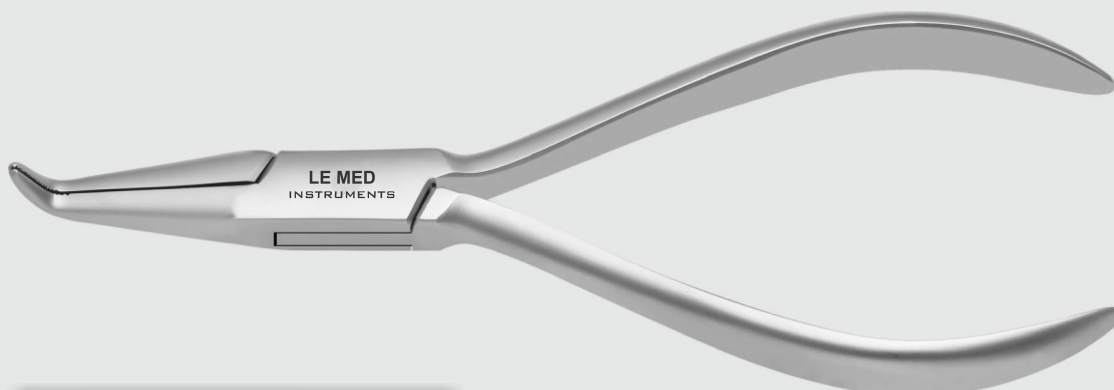
Weingart Plier with Heavy Serrated Tips

- Precision working point.
- Standard size instrument with heavy serrated tips.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM126

Wire Range

Maximum wire capacity: Bends and holds round, square and rectangular wires up to 0.030"



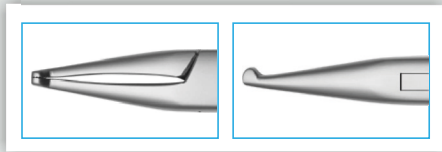
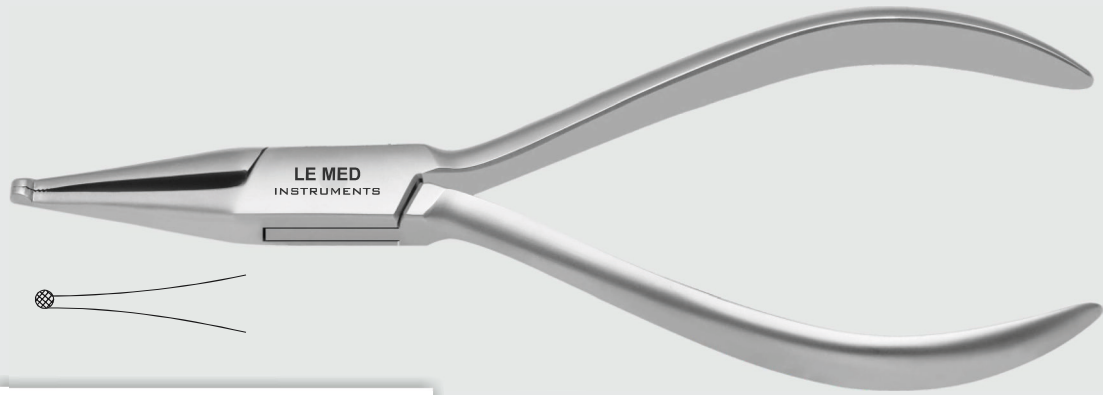
Weingart Plier Micro Lingual

- Precision working point.
- Standard size instrument with micro jaw.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM128

Wire Range

Maximum wire capacity: Bends and holds round, square and rectangular wires up to 0.030"



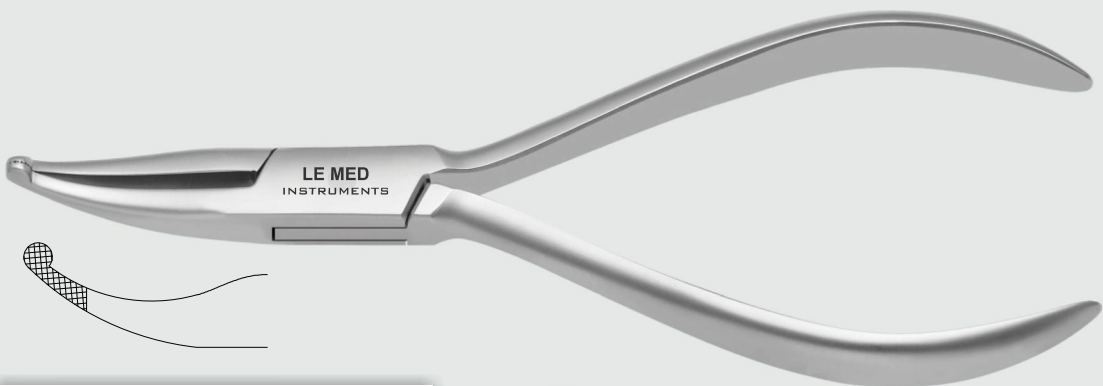
How Plier-Straight

- Straight
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Wire Range

Maximum wire capacity: Wire up to 0.030"

REF:LM114



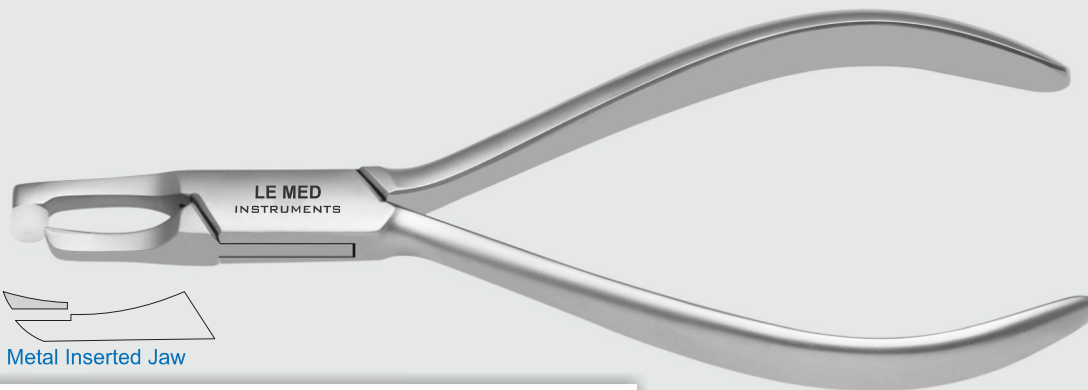
How Plier-Curved

- Curved
- Standard size instrument with angled head.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Wire Range

Maximum wire capacity: Wire up to 0.030"

REF:LM116



Metal Inserted Jaw



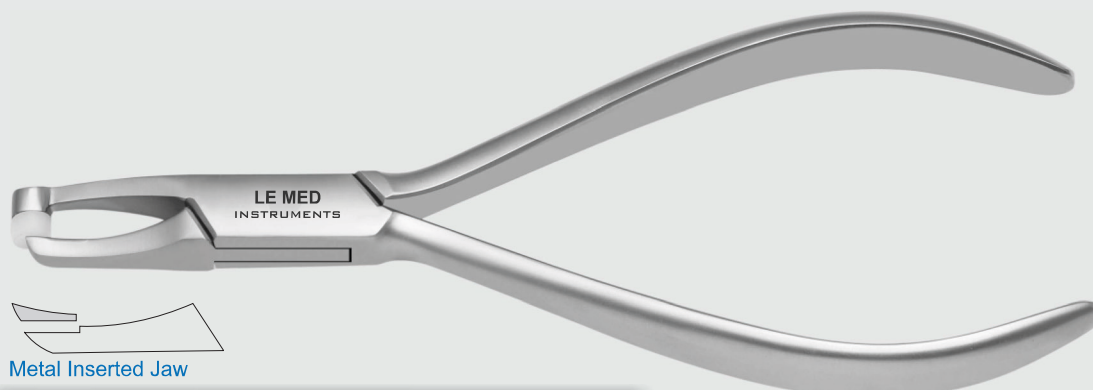
Posterior Band Remover Pliers (Short Beak)

- Standard size instrument with short beak.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM132

Description

Replacement pads (Heat Sterilizable) Diameter 6.35mm, 1/4"



Metal Inserted Jaw



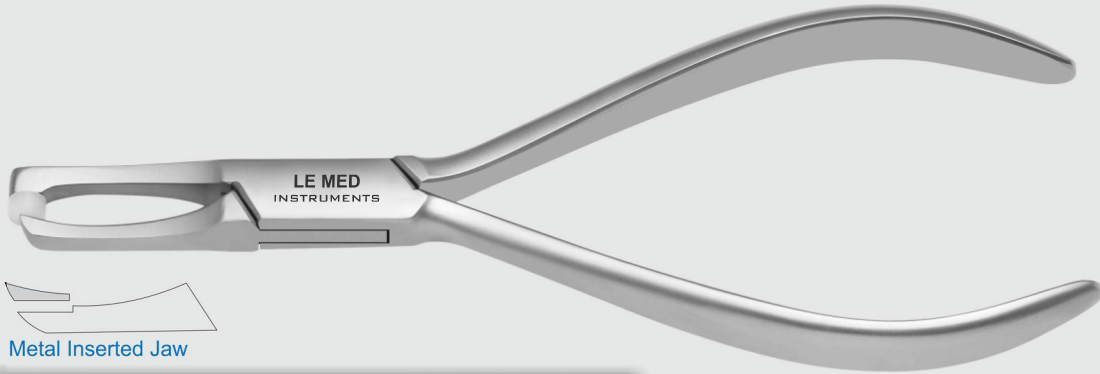
Posterior Band Remover Pliers (Standard Beak)

- Standard size instrument with standard beak.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM134

Description

Replacement pads (Heat Sterilizable) Diameter 6.35mm, 1/4"



Metal Inserted Jaw



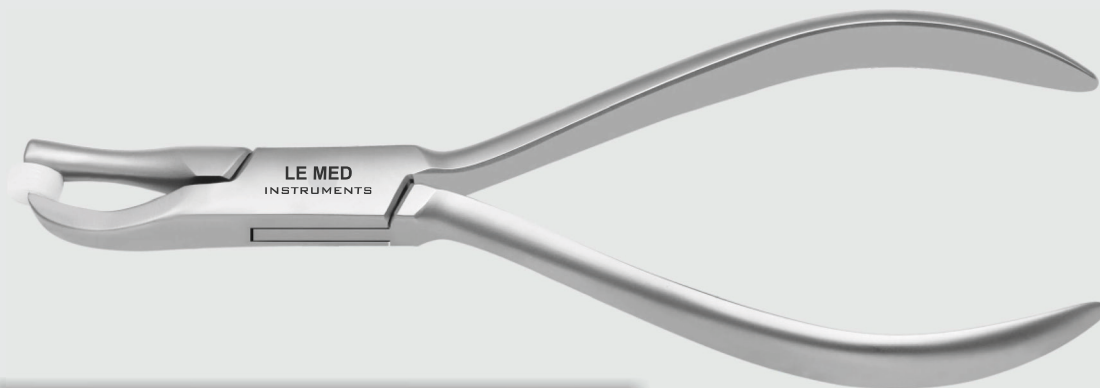
Posterior Band Remover Pliers (Long Beak)

- Standard size instrument with long beak.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Description

Replacement pads (Heat Sterilizable) Diameter 6.35mm, 1/4"

REF:LM136



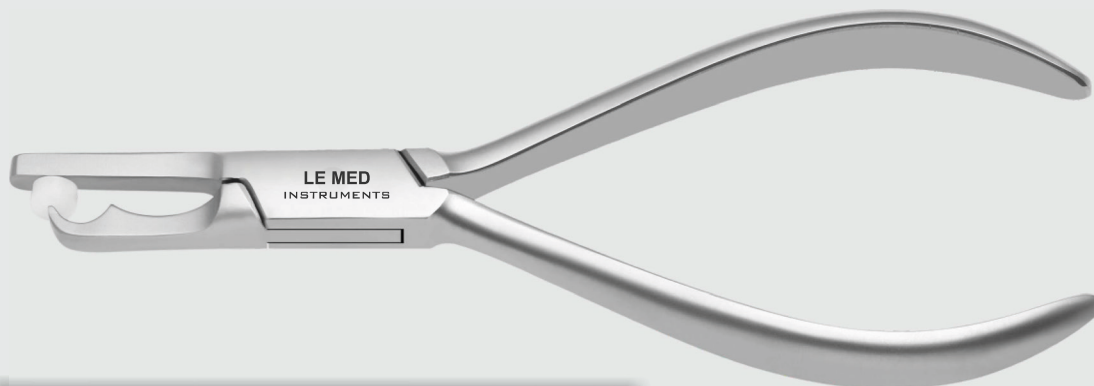
Micro Posterior Band Remover Pliers Sharp

- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Description

Replacement pads (Heat Sterilizable) Diameter 6.35mm, 1/4"

REF:LM138



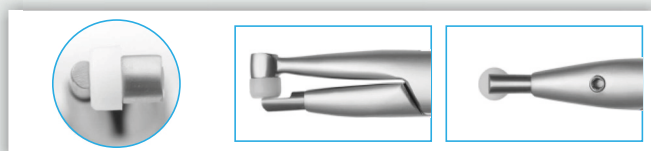
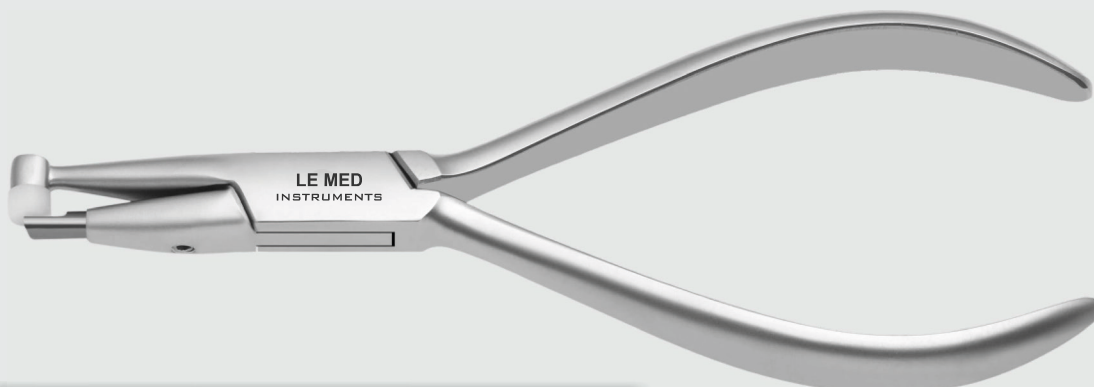
Bracket and Adhesive Removing Pliers

- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM140

Description

Replacement pads (Heat Sterilizable) Diameter 6.35mm, 1/4"



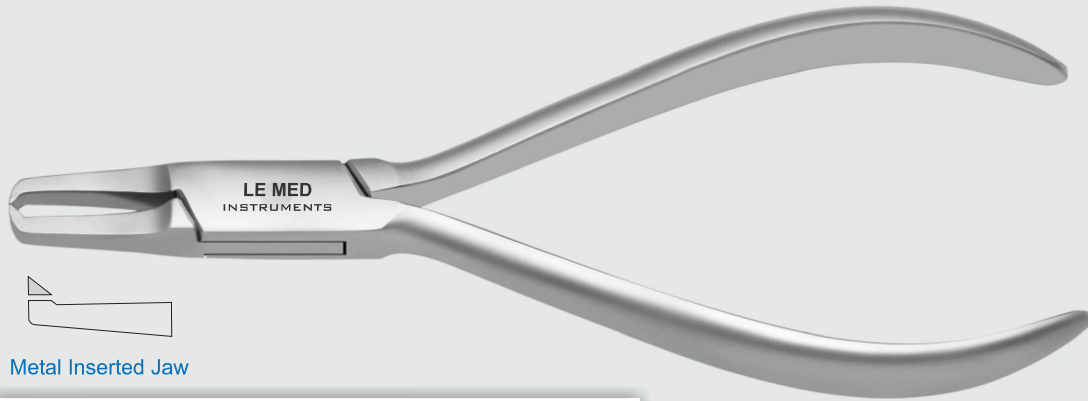
Adhesive Remover Pliers

- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM142

Description

Replacement pads (Heat Sterilizable) Diameter 6.35mm, 1/4"



Metal Inserted Jaw



Direct Bond Remover Pliers (Straight)

- Standard size instrument with straight short head.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

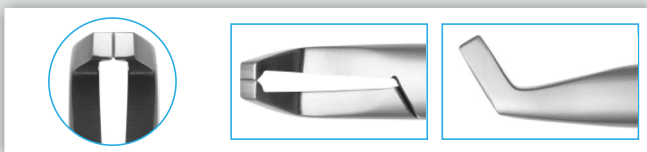
REF:LM144

Description

Plier remove direct bond brackets safely and comfortably.



Metal Inserted Jaw



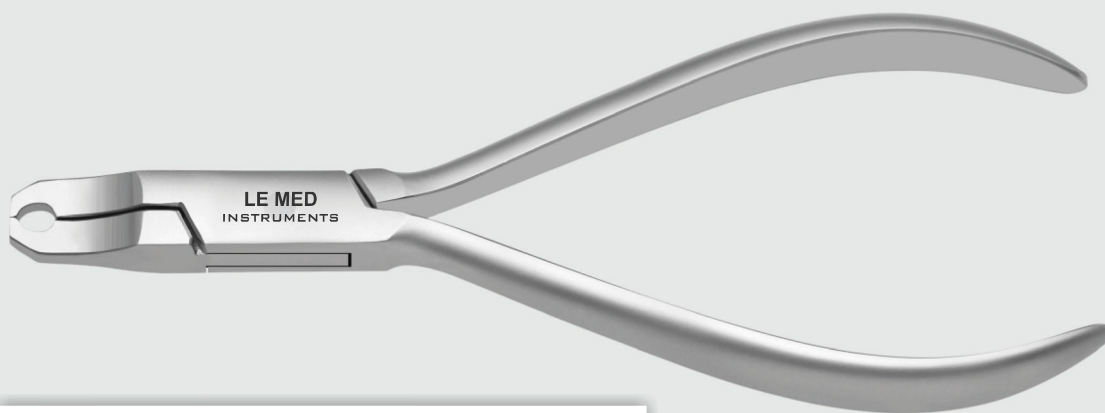
Direct Bond Remover Pliers (Angled)

- Standard size instrument with angled head.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM146

Description

Plier remove direct bond brackets safely and comfortably.



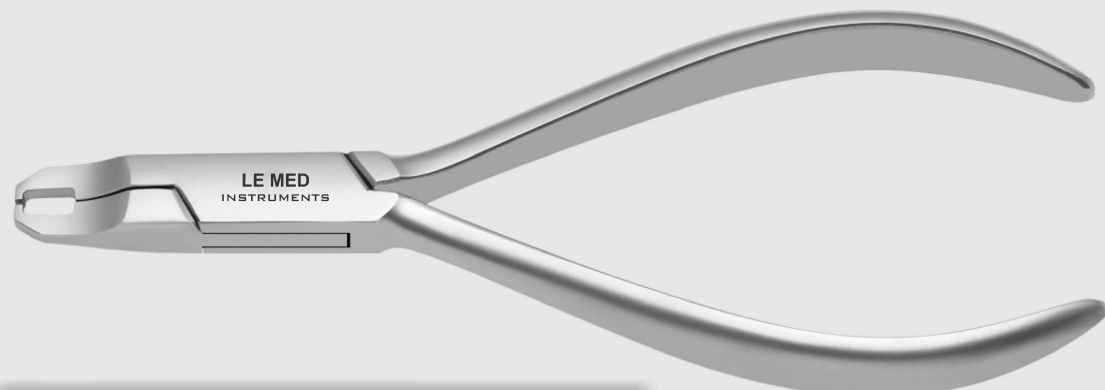
De-Bonding Plier (Closed Jaws)

- Straight with closed jaws.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM148

Description

Strong jaws of plier are ideal for de-bonding brackets safely and comfortably.



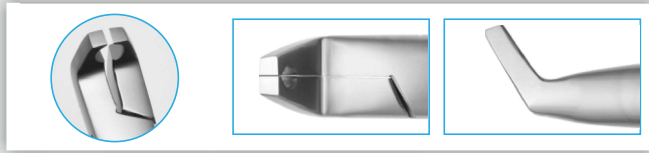
De-Bonding Plier (Wide Jaws)

- Straight with wide jaws.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM150

Description

Strong jaws of plier are ideal for de-bonding brackets safely and comfortably.



De-Bonding Plier (Angled)

- Angled with closed jaws.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM152

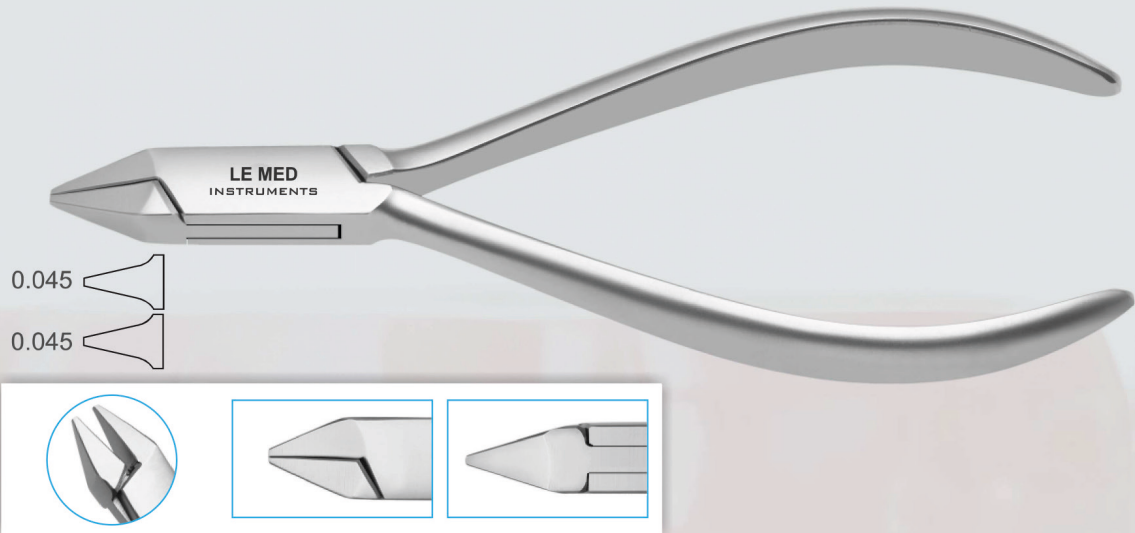
Description

Strong angled jaws of plier are ideal for de-bonding brackets safely and comfortably.

REF:LM492 Pliers Stand

Made with Stainless.
Easy to assemble and ship.





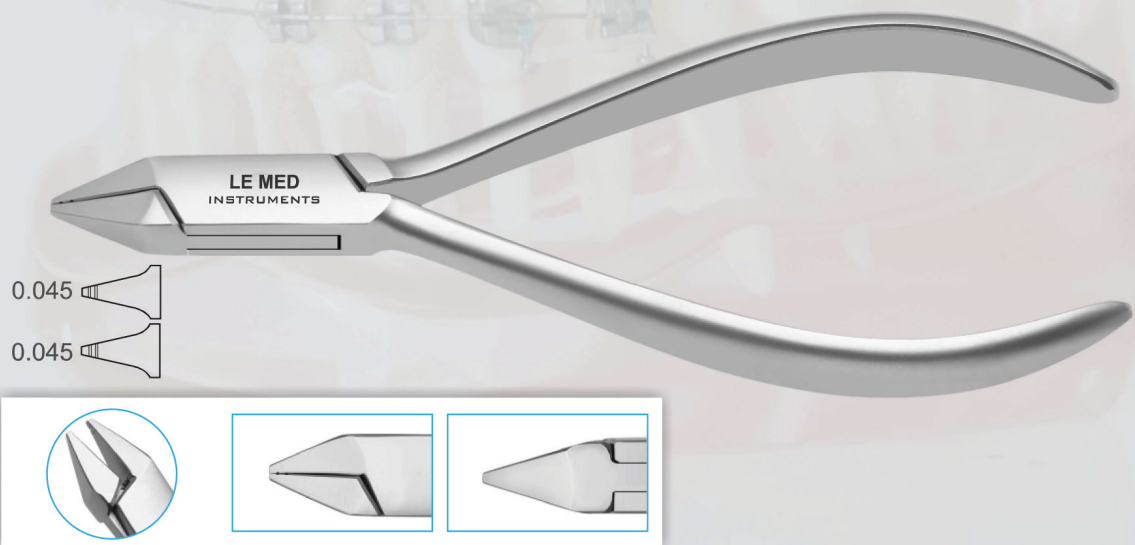
Adam Pliers

- Pyramid beaks.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM076

Wire Range

Maximum wire capacity: Bends round, square and rectangular wires up to .040"



Adam Pliers Grooved

- Pyramid beaks with two grooves for optimum grip.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM078

Wire Range

Maximum wire capacity: Bends round, square and rectangular wires up to .040"



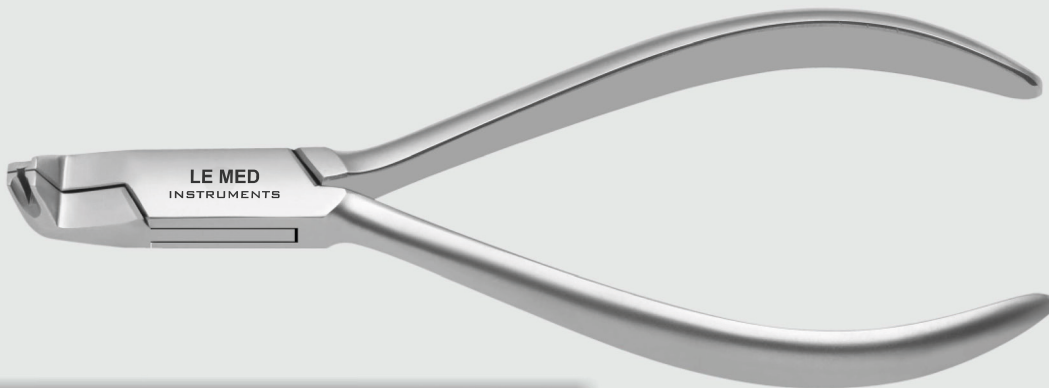
Ball Hook Crimping Plier

- Precision working jaws.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM100

Description

Used for putting permanent centerline, anti-shift gable bends and positive stops anywhere in nickel titanium arches.



Ball Hook Crimping Plier - Angled

- Precision working jaws.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM102

Description

Used for putting permanent centerline, anti-shift gable bends and positive stops anywhere in nickel titanium arches.



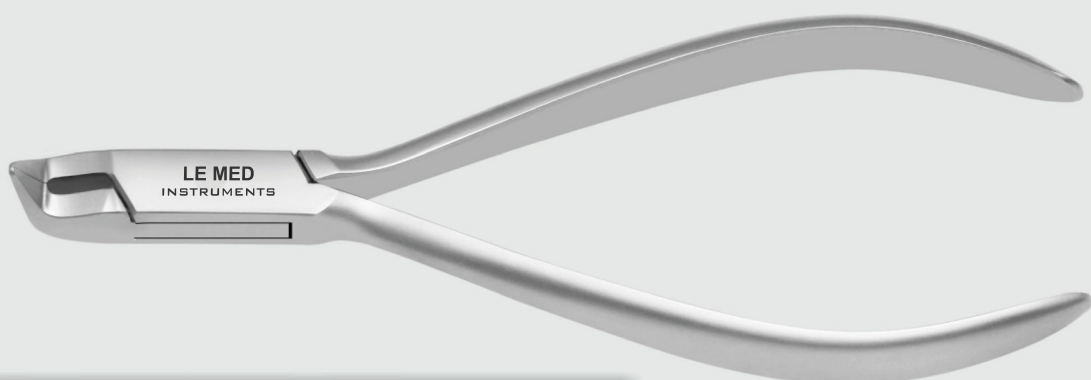
Cinch Back Plier Slim Design

- This plier is made with the optimum angle for working behind the buccal tube.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM054

Wire Range

Bends at 90 degree wires upto 0.025"



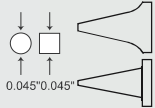
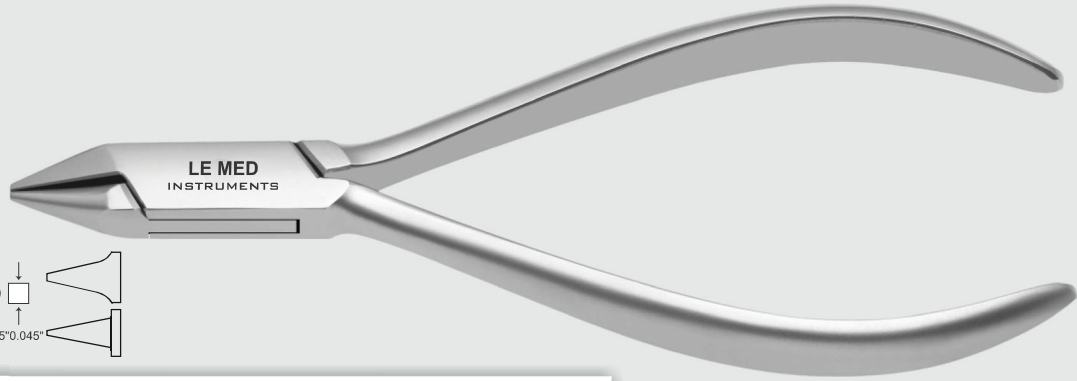
Cinch Back Plier

- This plier is made with the optimum angle for working behind the buccal tube.
- Standard size instrument
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM058

Wire Range

Bends at 90 degree wires upto 0.025"



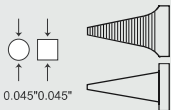
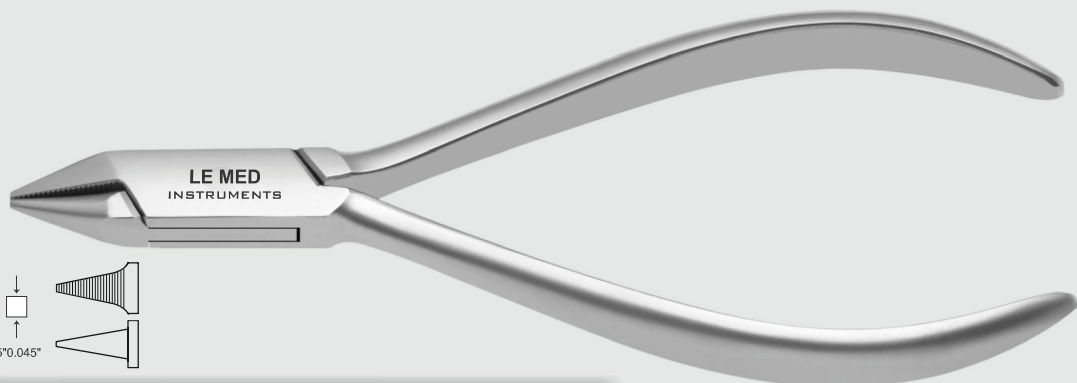
Bird Beak Pliers

- Round and pyramid beaks are tapered to a fine tip for precise bends.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM082

Wire Range

Maximum wire capacity: Bends round, square and rectangular wires up to 0.030"



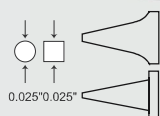
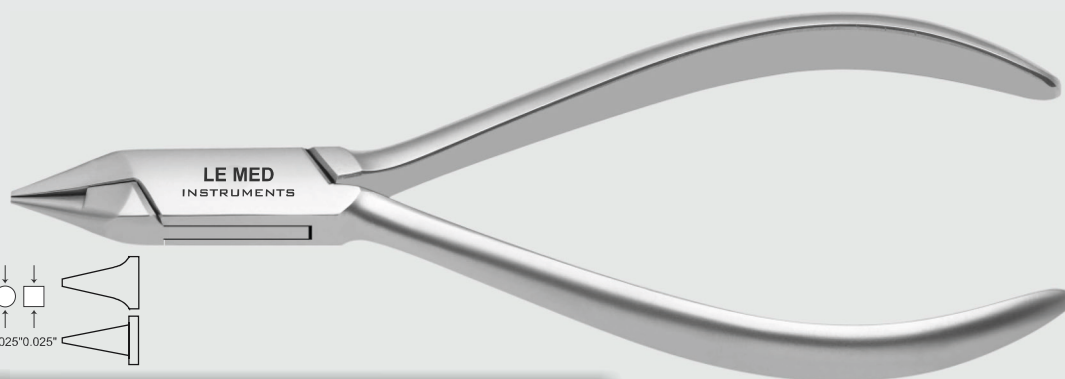
Secure Hold Bird Beak Serrated Tip

- Round and pyramid serrated beak for optimum grip.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM084

Wire Range

Maximum wire capacity: Bends round, square and rectangular wires up to 0.030"



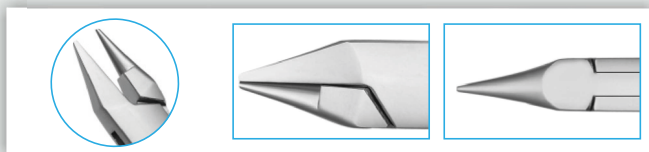
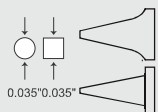
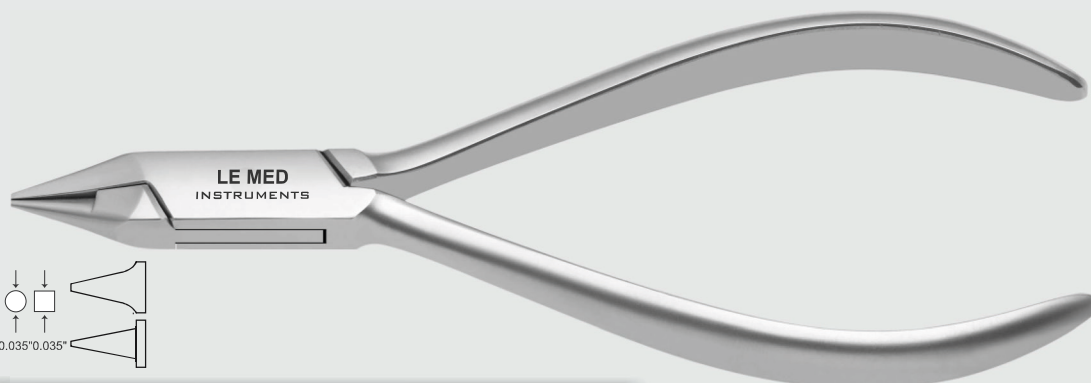
Micro Light Wire Pliers

- Smooth round and pyramid beaks are tapered to a fine tip for precise bends.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM068

Wire Range

Maximum wire capacity: Bends round, square and rectangular wires up to 0.020"



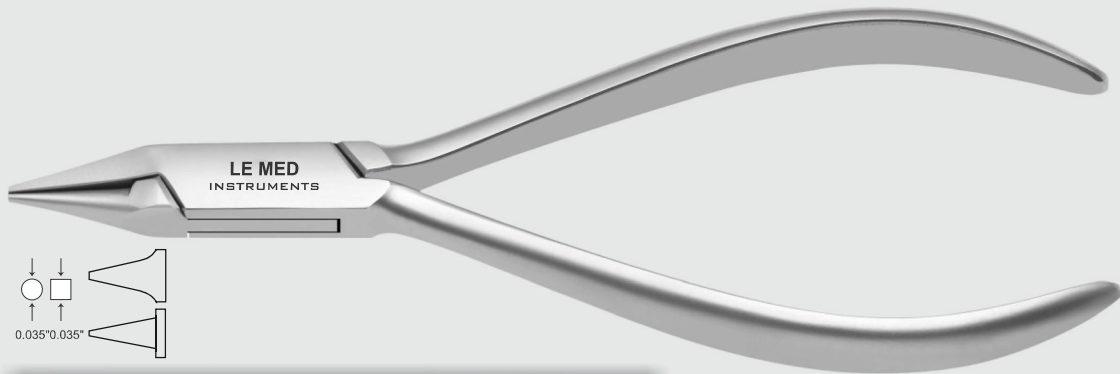
Smooth Light Wire Pliers

- Smooth round and pyramid beaks are tapered to a fine tip for precise bends.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM070

Wire Range

Maximum wire capacity: Bends round, square and rectangular wires up to 0.020"



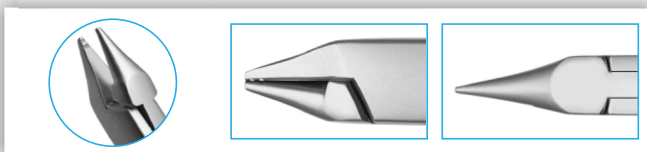
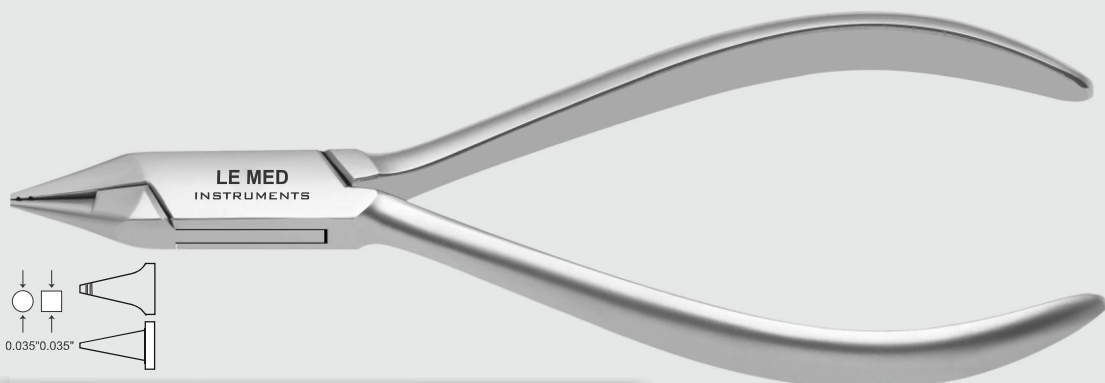
Long Beak Light Wire Pliers

- Long round and pyramid beaks are tapered to a fine tip for precise bends .
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM080

Wire Range

Maximum wire capacity: Bends round, square and rectangular wires up to 0.020"



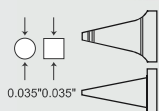
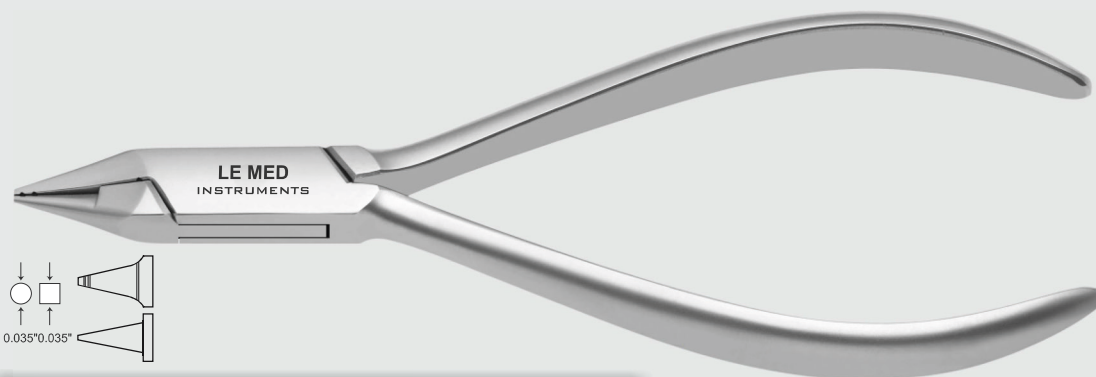
Light Wire Pliers with 2 Grooves

- Round and pyramid beaks with two grooves for optimum grip.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM072

Wire Range

Maximum wire capacity: Bends round, square and rectangular wires up to 0.020"



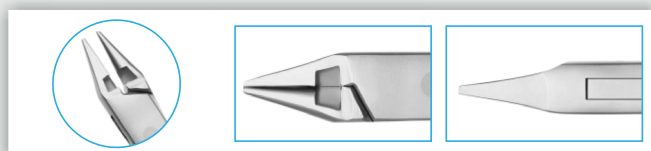
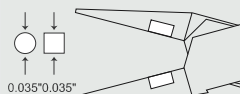
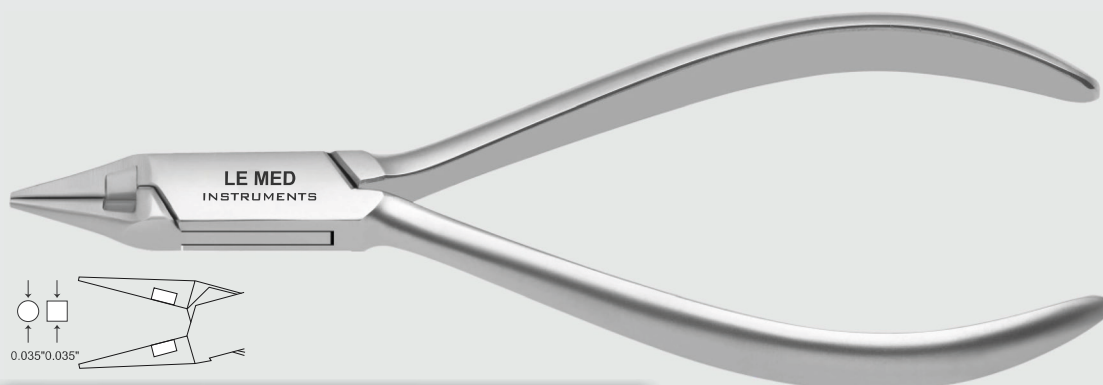
Light Wire Pliers with 3 Grooves

- Round and pyramid beaks with three grooves for optimum grip.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM074

Wire Range

Maximum wire capacity: Bends round, square and rectangular wires up to 0.020"



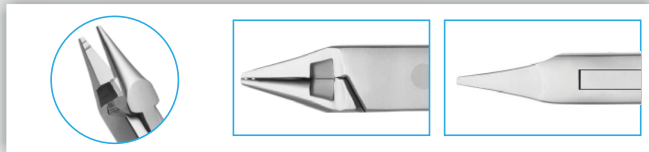
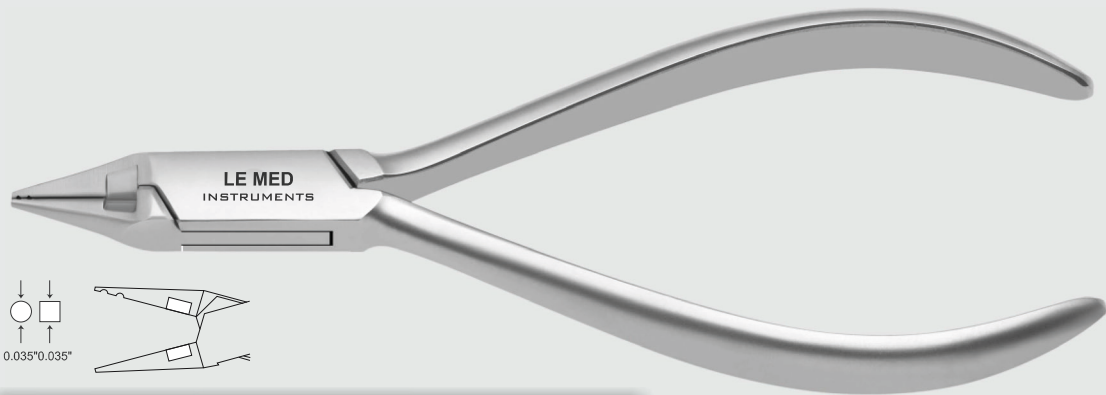
Light Wire Pliers with Cutter-Non Grooved

- Round and pyramid beaks with cutter for wire cutting ability
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM086

Wire Range

Maximum wire capacity: Bends and Cuts round, square and rectangular wires up to 0.020"



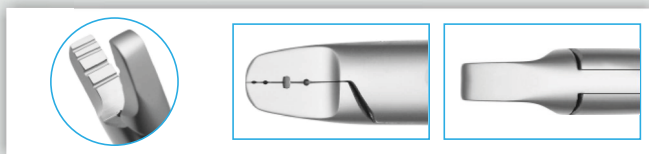
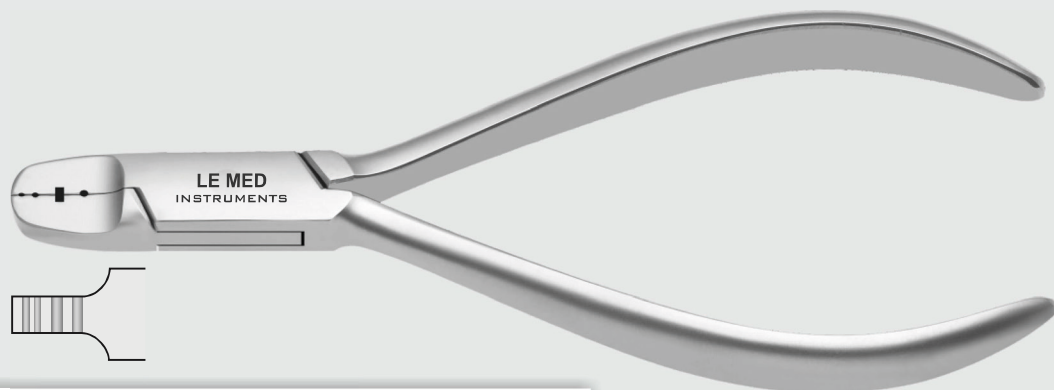
Light Wire Pliers Grooved With Cutter

- Round and pyramid beaks with two grooves for optimum grip and a cutter.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM088

Wire Range

Maximum wire capacity: Bends and Cuts round, square and rectangular wires up to 0.020"



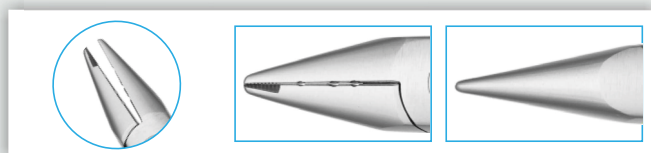
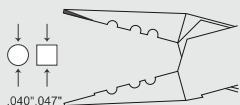
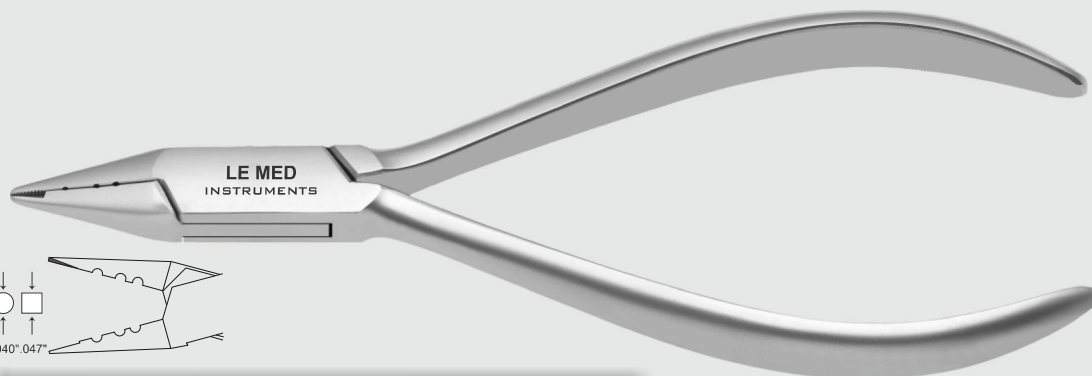
Lingual Arch Forming Plier

- Strong Jaws, grooved to hold heavy wires.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM160

Wire Range

Maximum wire capacity: Wire up to 0.036"



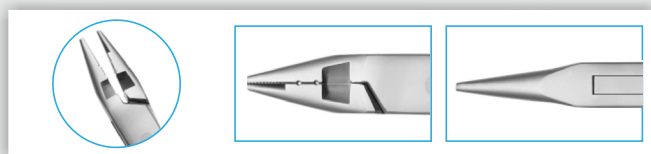
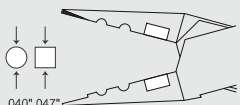
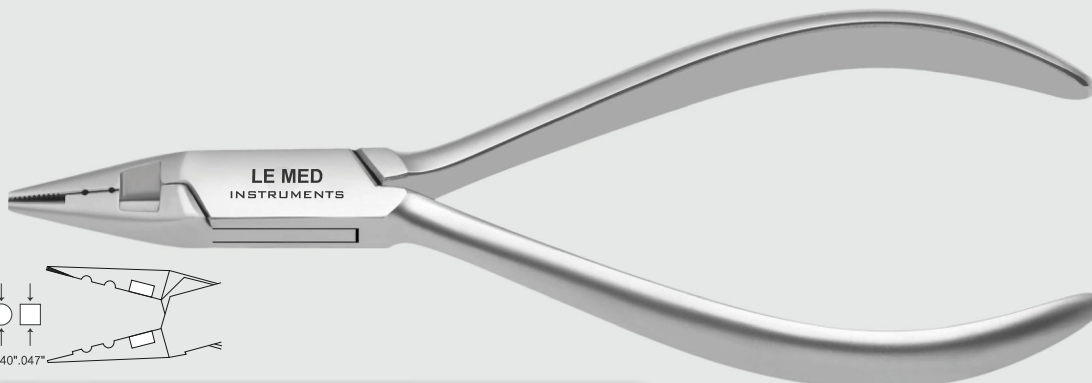
Jarabak Plier

- Half-moon serrated square tip and three closing grooves for precision loops.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM096

Wire Range

Maximum wire capacity: Bends round, square and rectangular wires up to .020"



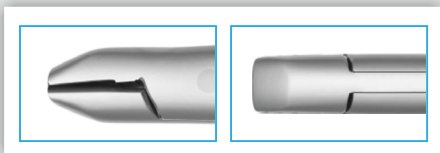
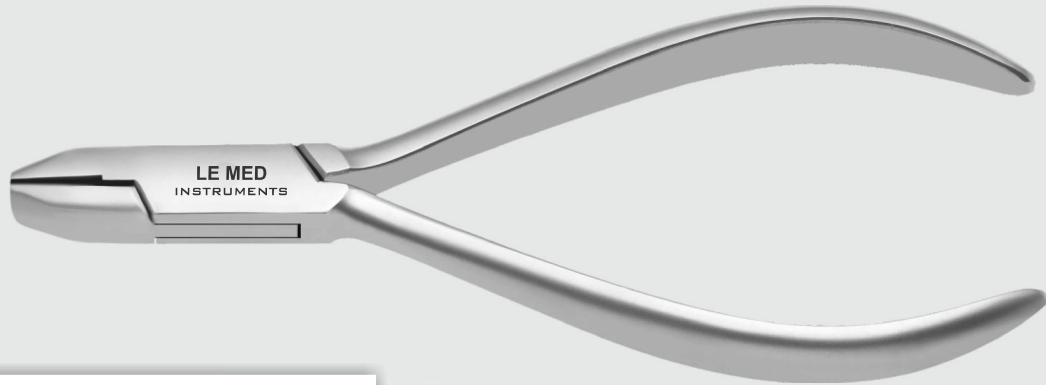
Jarabak Plier with Cutter

- Half-moon serrated square tip with two closing grooves for precision loops and a cutter.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM098

Wire Range

Maximum wire capacity: Bends round, square and rectangular wires up to .020"



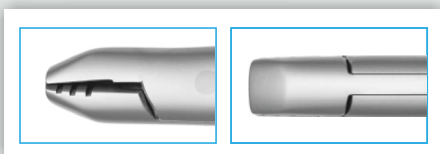
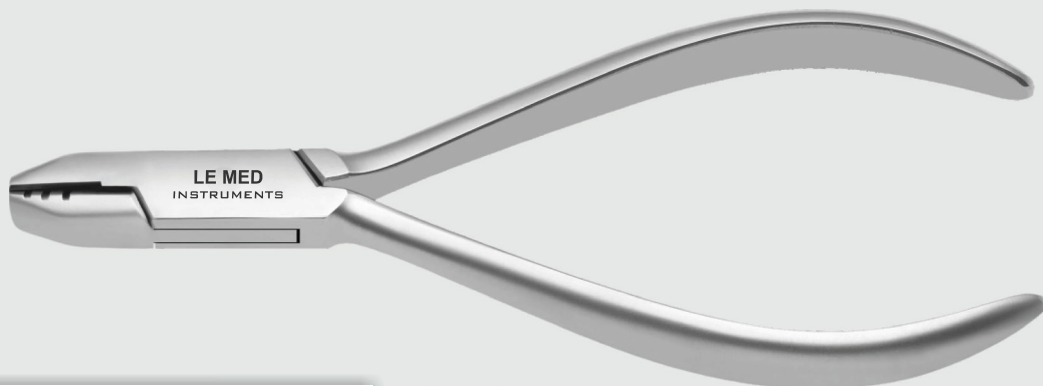
De La Rosa Pliers

- Smooth
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Wire Range

Maximum wire capacity: Wire up to 0.021" X 0.025"

REF:LM162



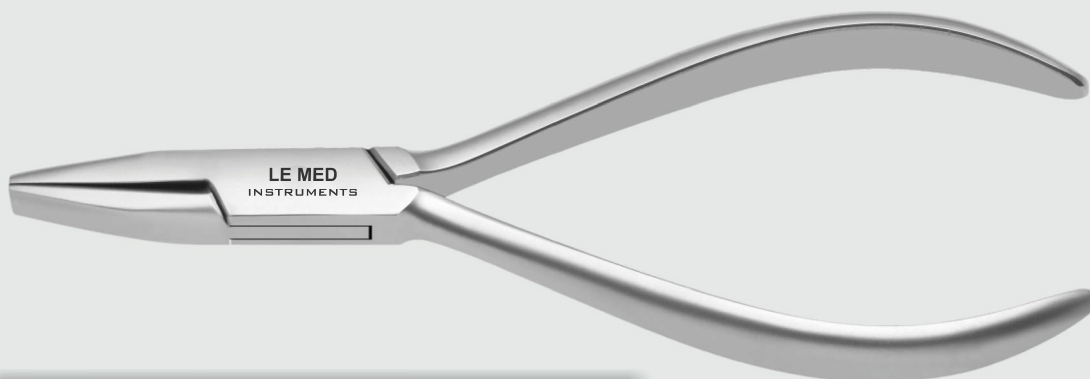
De La Rosa Pliers Grooved

- Grooved
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Wire Range

Maximum wire capacity: Wire up to 0.021" X 0.025", Grooved Size .016" - .018" - .022"

REF:LM164



Hollow Chop Plier

- Precision working jaws.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM166



Optical Plier

- Precision working jaws.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM168



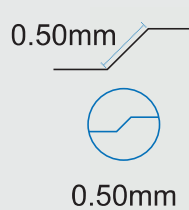
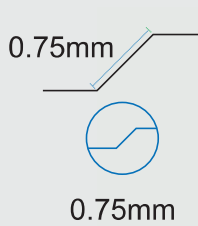
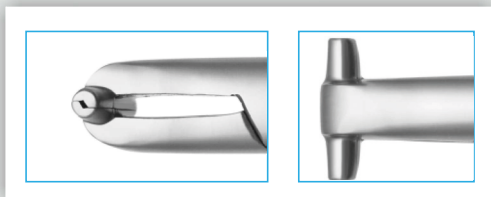
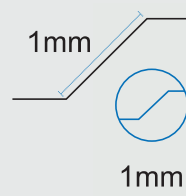
Step Pliers

Step Pliers

- Step pliers available in 1mm 0.75mm and 0.50mm.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Wire Range

Maximum cutting capacity: Wire up to 0.020"



REF:LM154

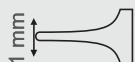
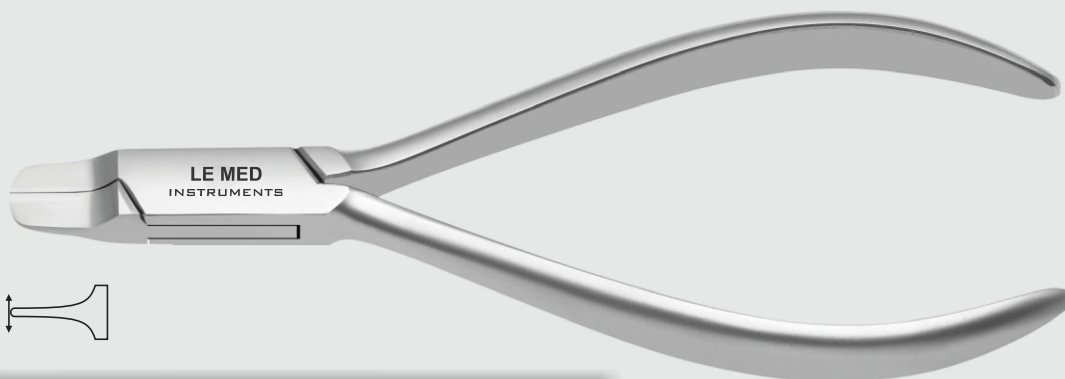
Step Pliers 1mm
Round Head

REF:LM156

Step Pliers 0.75mm
Round Head

REF:LM158

Step Pliers 0.50mm
Round Head



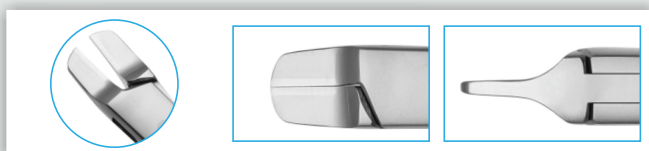
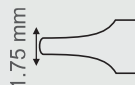
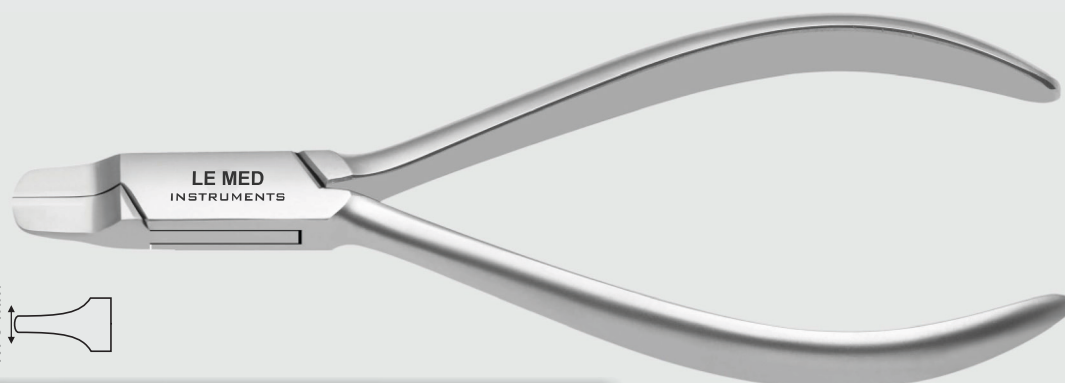
Tweed Arch Plier 1mm

- Precision working jaws.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Wire Range

Maximum wire capacity: Wire up to 0.021" X 0.025"

REF:LM104



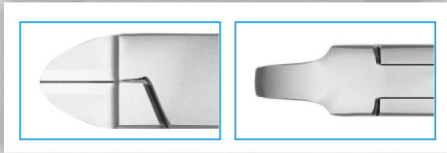
Tweed Arch Plier 1.75mm

- Precision working jaws.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Wire Range

Maximum wire capacity: Wire up to 0.021" X 0.025"

REF:LM106



Torquing Pliers-Male

- Precision working jaws.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Wire Range

Maximum wire capacity: Wire up to 0.021" X 0.025"

REF:LM108



Torquing Pliers-Female

- Precision working jaws.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

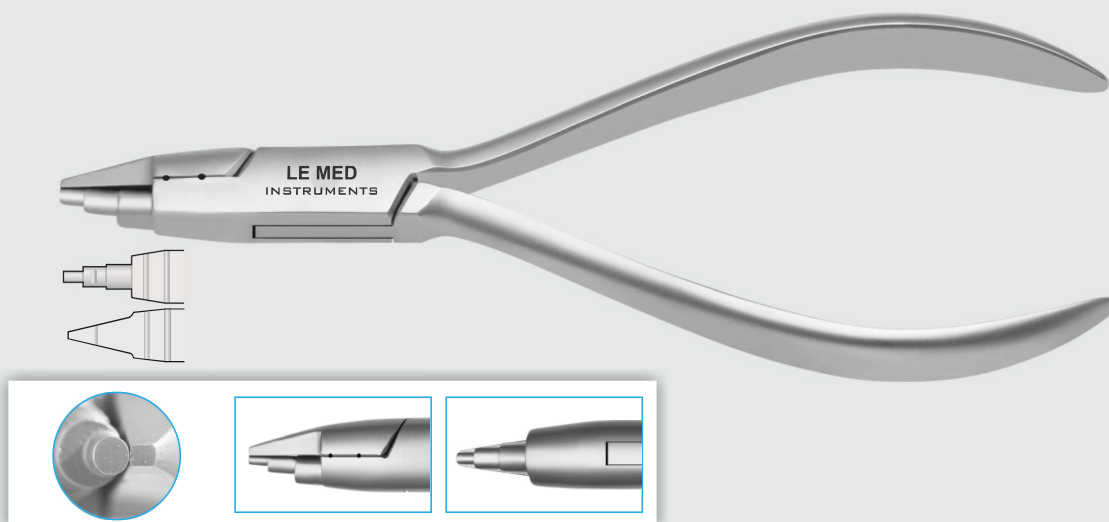
Wire Range

Maximum wire capacity: Wire up to 0.021" X 0.025"

REF:LM110



REF:LM449
Torquing Plier Key



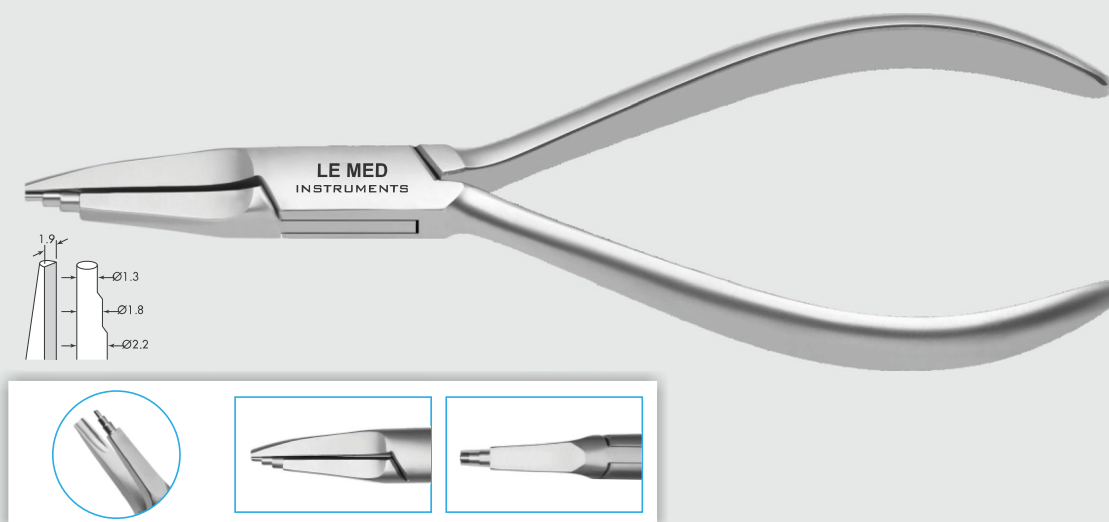
Young Plier

- Square beak with 3 grooves and 3 loops forming tips.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM090

Wire Range

Maximum wire capacity: Bends round, square and rectangular wires up to .028"



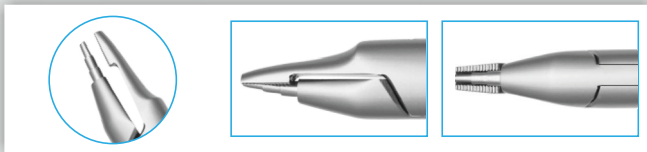
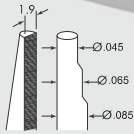
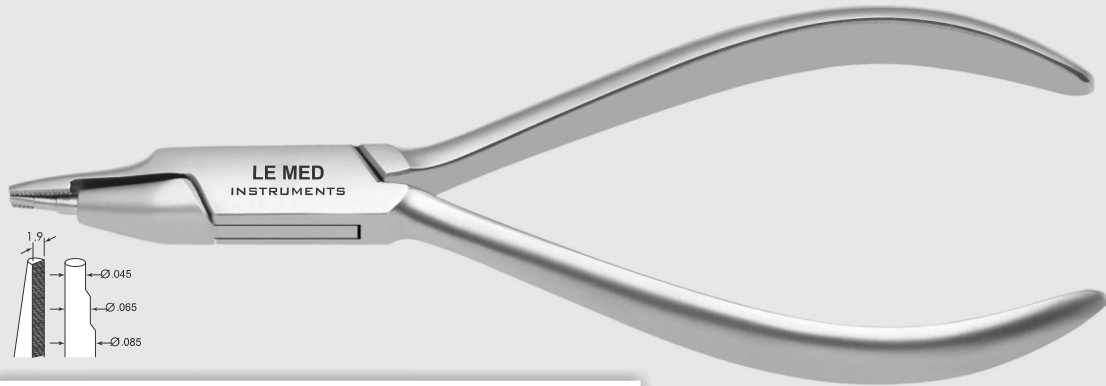
Tweed Arch Loop Forming Pliers

- Concave/Convex bending tips.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM094

Wire Range

Maximum wire capacity: Wire up to 0.022" ,Tip sizes 1.3mm" - 1.8mm" - 2.2mm"



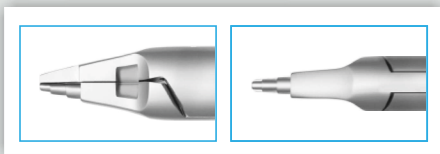
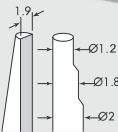
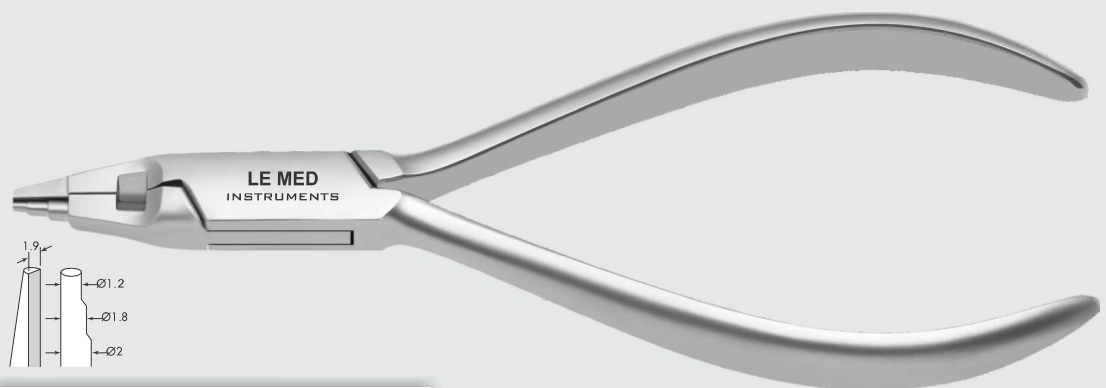
Tweed Loop Forming Pliers

- Concave/Convex bending tips.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM092

Wire Range

Maximum wire capacity: Wire up to 0.022", Tip sizes .045mm" - .065mm" - .085mm"



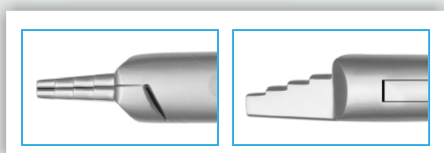
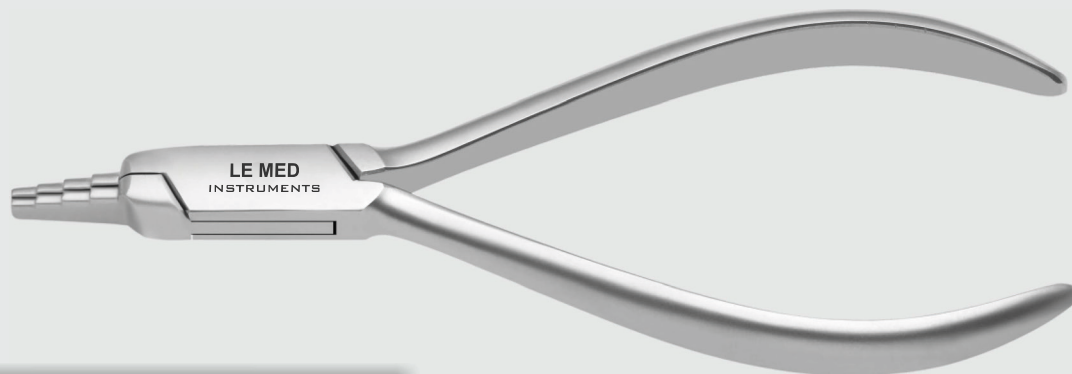
Tweed Loop Forming Pliers with Cutter

- Concave/Convex bending tips with cutter.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM093

Wire Range

Minimum Capacity: .014" to .020", Maximum Capacity .021 X.025", Tip sizes 1.2mm" - 1.8mm" - 2.0mm"



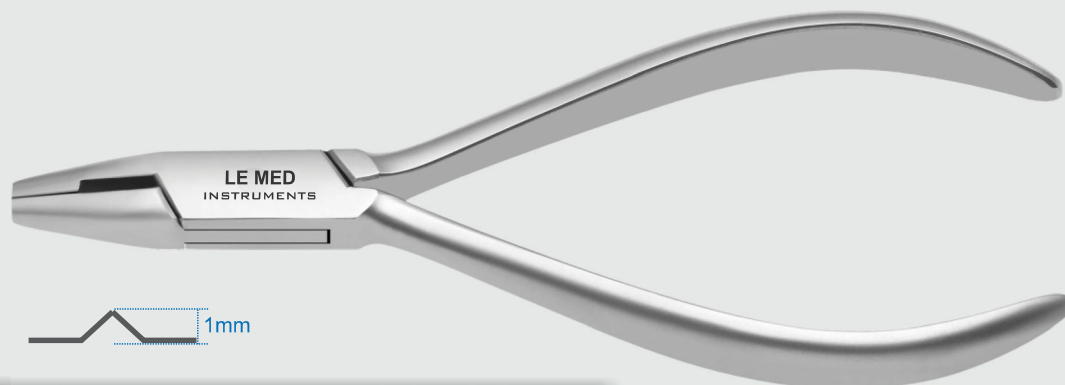
Nance Loop Pliers

- Precision working jaws (Size 3-4-5-6mm).
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Wire Range

Maximum wire capacity: Wire up to 0.022"

REF:LM170



V-Bending Plier

- Precision working jaws.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Description

Easy bending at 1mm height

REF:LM172



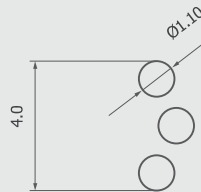
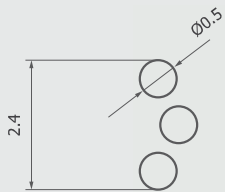
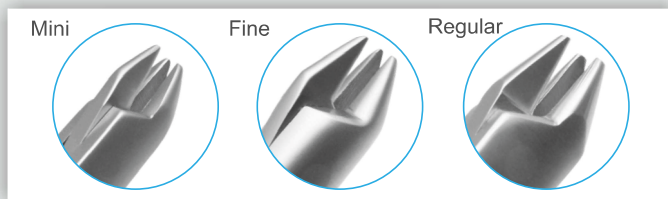
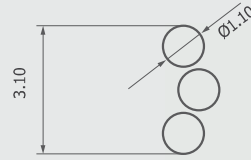
Three Prong Pliers

Three Prong Pliers

- Available in two sizes mini & standard.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Wire Range

Maximum wire capacity: Mini .020" (0.51mm)
 Maximum wire capacity: Fine .020" (0.50mm)
 Maximum wire capacity: Regular .30" (0.76mm)



REF:LM174

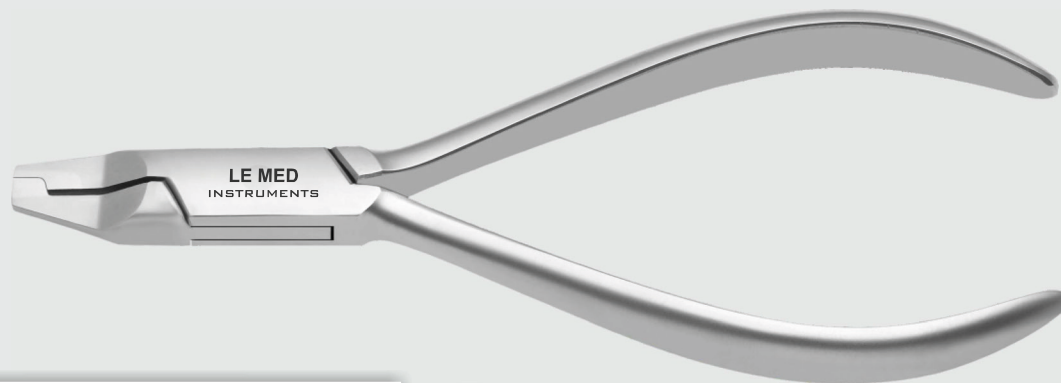
Three Prong Pliers mini .020" (0.51mm) Round Head

REF:LM176

Three Prong Pliers fine .020" (0.50mm) Round Head

REF:LM178

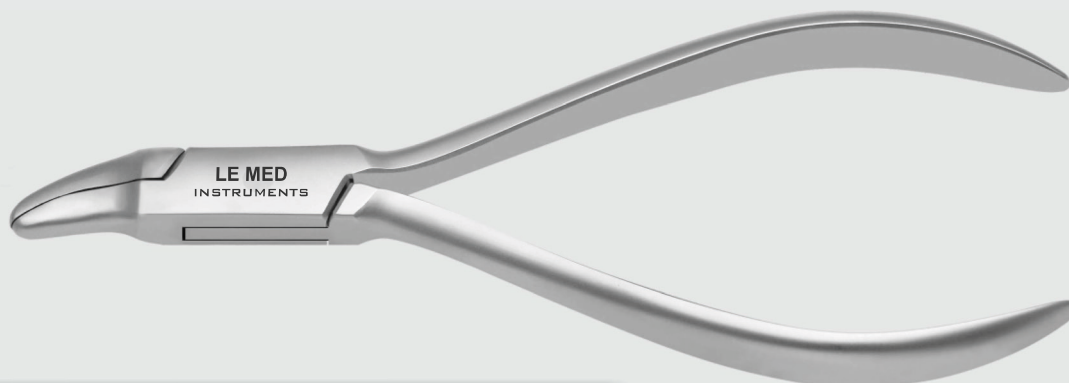
Three Prong Pliers regular .30" (0.76mm) Round Head



Crown and Band Pliers

- Precision working jaws.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

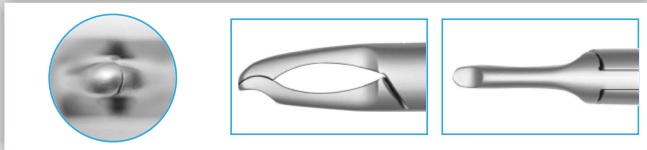
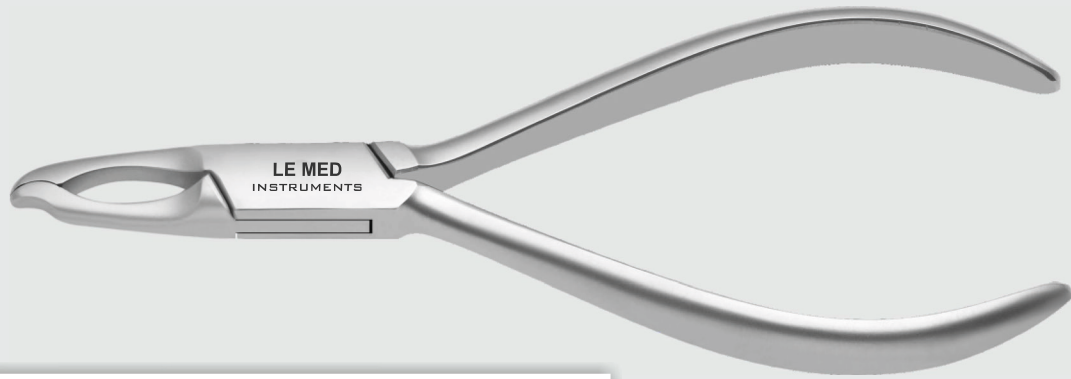
REF:LM180



Band Contouring Pliers

- Precision working jaws.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM184



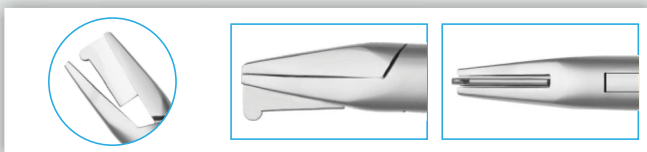
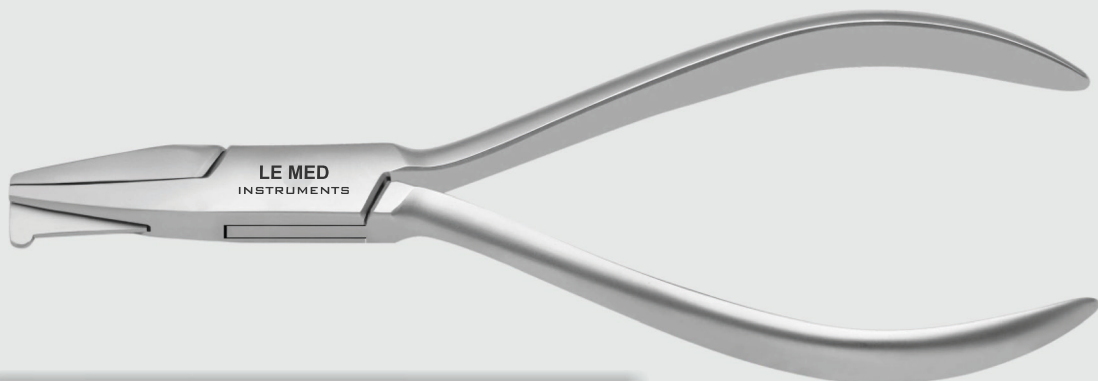
Crown and Contouring Pliers

- Precision working jaws.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Description

Precision aligned round tips perfectly aligned for consistent contouring and bending.

REF:LM186



Ligature Wire Forming Plier

- Precision working jaws.
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM182



THE HORIZONTAL



THE HOLE PUNCH



THE VERTICAL

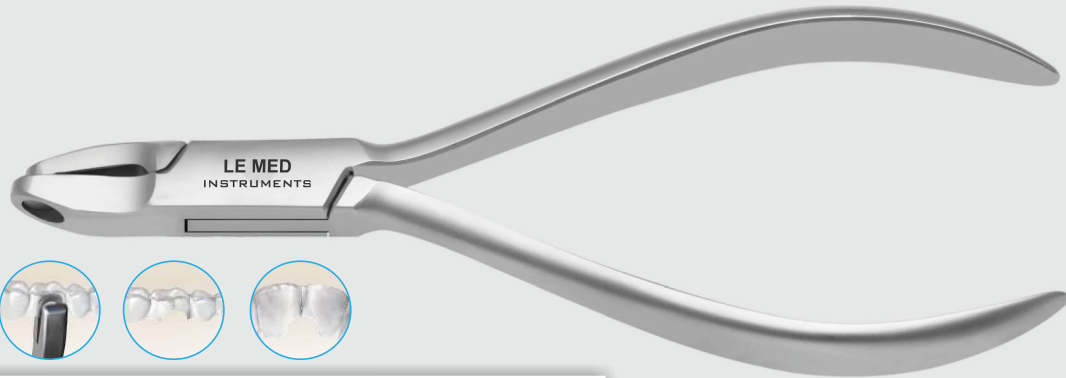
**TEAR DROP
ALIGNER PLIERS**



RETENTION DIMPLE



ERASER ALIGNER



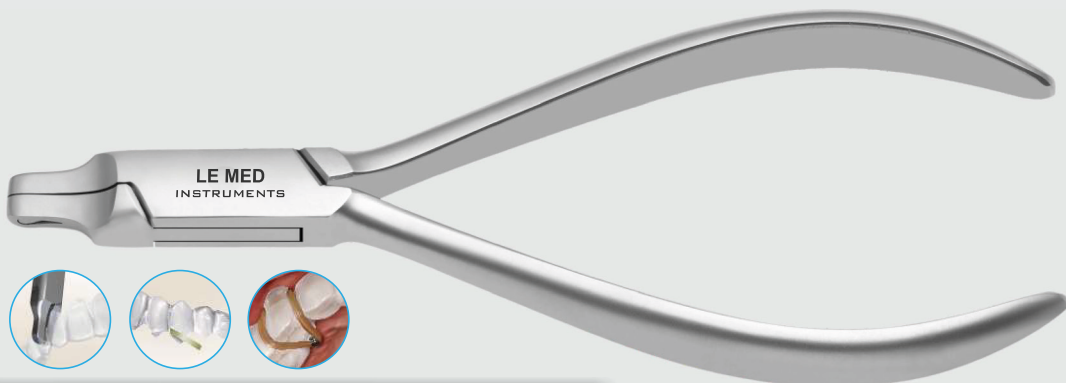
Hole Punch Aligner Pliers

- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM188

Description

The hole punch is used to create Round Cutouts for relief of clear aligners around bounded buttons used for elastics.



Tear Drop Hole Aligner Pliers

- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM190

Description

An instrument created to add a notch at the gingival margin of clear aligners anywhere elastic hooks are required within the arch.



Horizontal Hole Aligner Pliers

- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM192

Description

The Horizontal instrument produces an indentation to accent individual root torque.



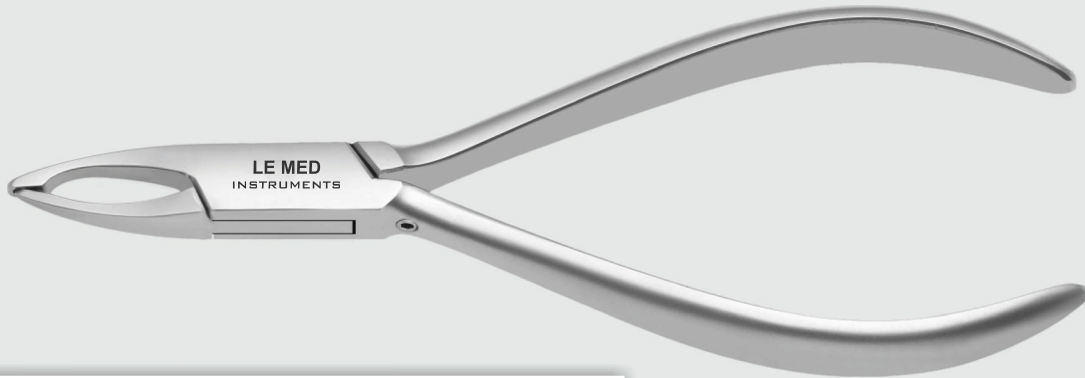
Vertical Hole Aligner Pliers

- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM194

Description

Correcting Rotations is often a challenge with aligners. The vertical Emphasizes overcorrection of rotations by producing an indentation at the mesial or distal line angles on the facial and/or lingual of a specific tooth.



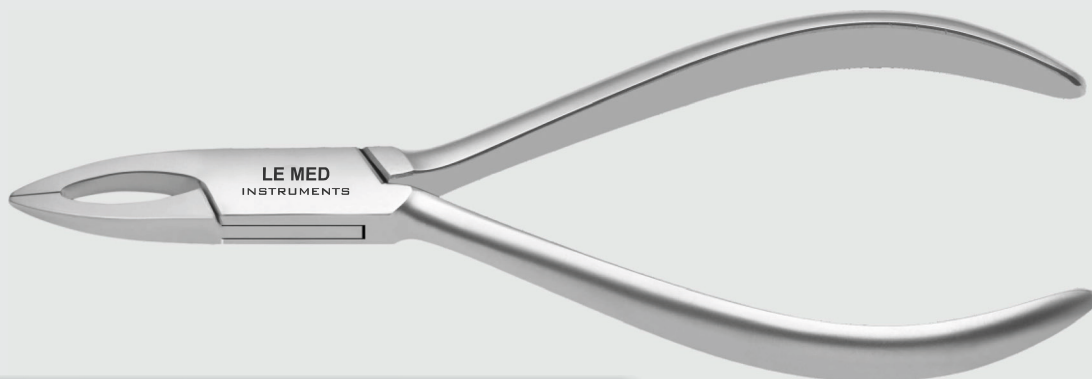
Retention Dimple Aligner Pliers

- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Description

Moyes round dimple in only location on the aligners.

REF:LM196



Eraser Aligner Pliers

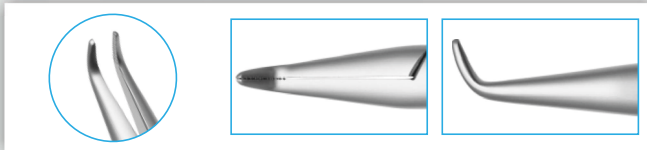
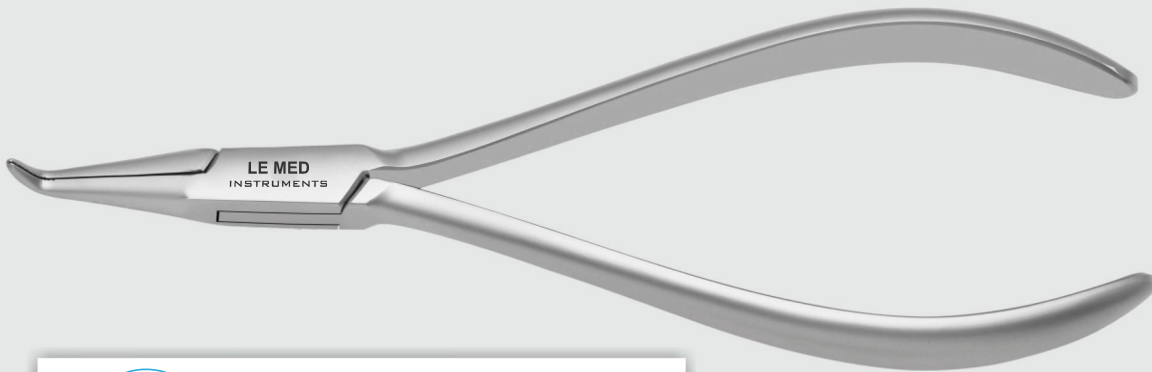
- Standard size instrument.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM198

LE MED
INSTRUMENTS

LINGUAL PLIERS





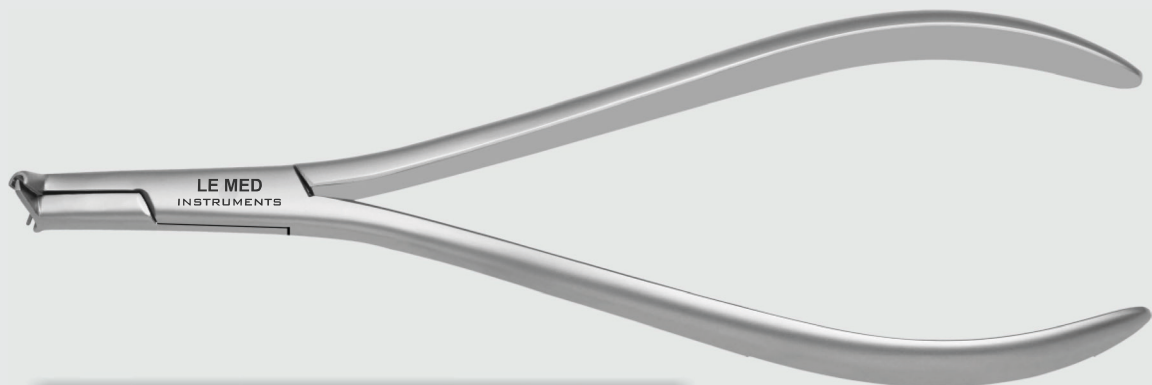
Lingual Weingart 60° Angle Long Handle

- Small serrated tips are angled at 60° for easy access in the posterior region.
- Long-Handle instrument allows better control with angled head at 60° degree.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM200

Wire Range

Maximum wire capacity: Bends and holds round, square and rectangular wires up to 0.030"



Lingual Cinch Back – Large Wire Serrated Tips Long Handle

- This plier is made with the optimum angle for working behind the buccal tube.
- Long-Handle instrument allows better control.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM056

Wire Range

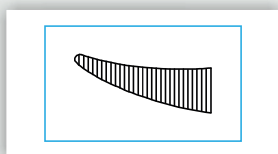
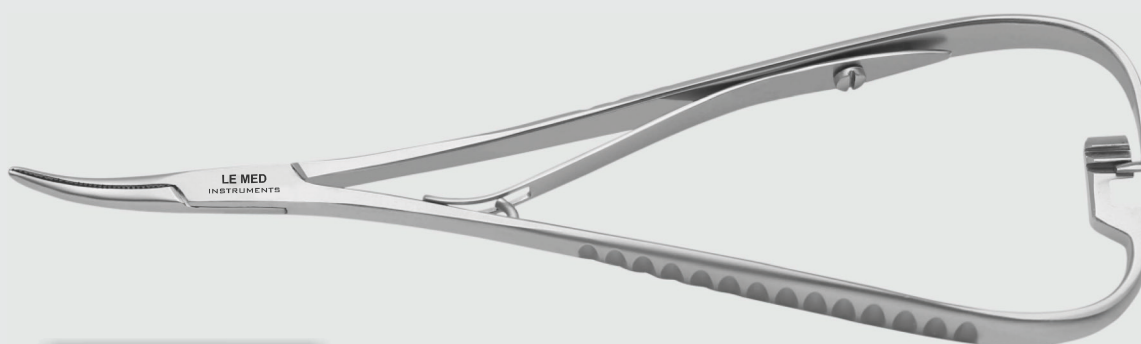
Bends at 90 degree wires all wires including NiTi up to 0.018"



Lingual Bracket Removing Plier Long Handle

- Long-Handle instrument allows better control with angled head.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM204



Lingual Mathieu Smaha Curved

- Smooth handling.
- Safety lock provide smooth opening and closing.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM248



Lingual Pin and Ligature Cutter 45° Degree

- Standard size instrument with angled head at 45° degree.
- Concave designed for maximum vision when cutting.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM022

Wire Range

Maximum wire capacity: soft wires up to 0.015"



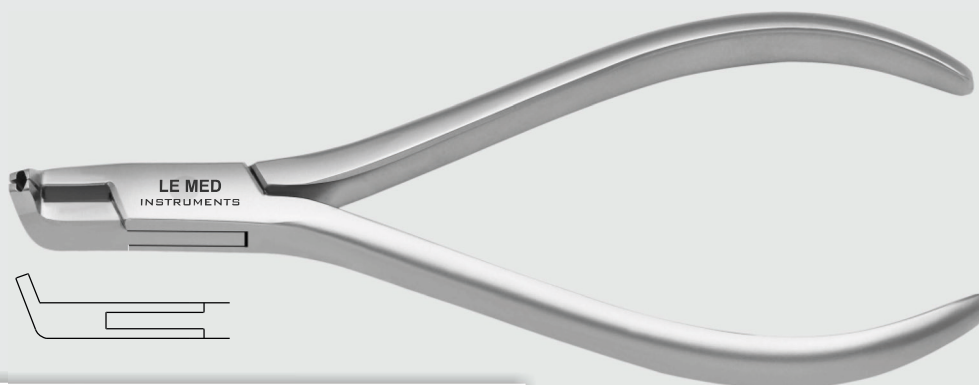
Lingual Pin and Ligature Cutter 45° Degree Long Handle

- Long-Handle instrument allows better control with angled head at 45° degree.
- Concave designed for maximum vision when cutting.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM024

Wire Range

Maximum wire capacity: soft wires up to 0.015"



Lingual Mini Flush Cut Distal End Cutter V Design

- Assures arch wire is cut flush with the end of a tube and Safety hold is ideal for intra-oral cutting.
- Mini size instrument with small head.
- Hand crafted box joint construction the most reliable design possible
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM044

Wire Range

Minimum Capacity: .016" , Maximum Capacity .018 X.025"



Lingual Flush Cut Distal End Cutter V Design

- Assures arch wire is cut flush with the end of a tube and Safety hold is ideal for intra-oral cutting.
- Standard size instrument with small head.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM046

Wire Range

Minimum Capacity: .016" , Maximum Capacity .018 X.025"



EVERFINE
Cutting

LE MED
INSTRUMENTS



Lingual Flush Cut Distal End Cutter V Design Long Handle

- Assures arch wire is cut flush with the end of a tube and Safety hold is ideal for intra-oral cutting.
- Long-Handle instrument allows better control with small head.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

Wire Range

Minimum Capacity: .016" , Maximum Capacity .018 X.025"

REF:LM048



Lingual Standard Handle Distal End Cutter

- This instrument features standard handles and a slim box joint with a compact head to ensure easy access in hard to reach areas.
- Standard size instrument with small head.
- Hand crafted box joint construction the most reliable design possible
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM211

Wire Range

Minimum Capacity: .016" , Maximum Capacity .018 X.025"



Lingual Long Handled Distal End Cutter

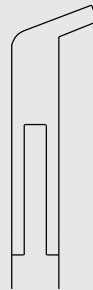
- This instrument features long handles and a slim box joint with a compact head to ensure easy access in hard to reach areas.
- Long-Handle instrument allows better control with small head.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

REF:LM212

Wire Range

Minimum Capacity: .016" , Maximum Capacity .018 X.025"

Longer Handle, Better Control



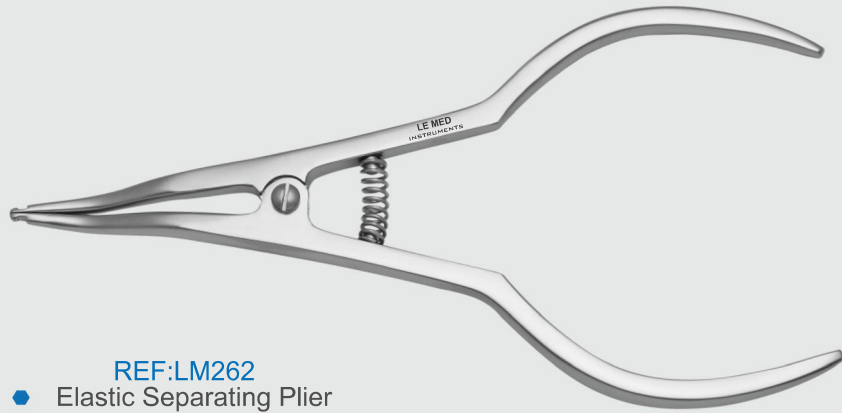
Lingual Long Handled Distal End Angled

- This instrument features long handles and a slim box joint with a compact head to ensure easy access in hard to reach areas.
- Long-Handle instrument allows better control with small head.
- Hand crafted box joint construction the most reliable design possible.
- Forging is made with highest quality surgical grade stainless steel.
- Super Elegant White Matte Finish.

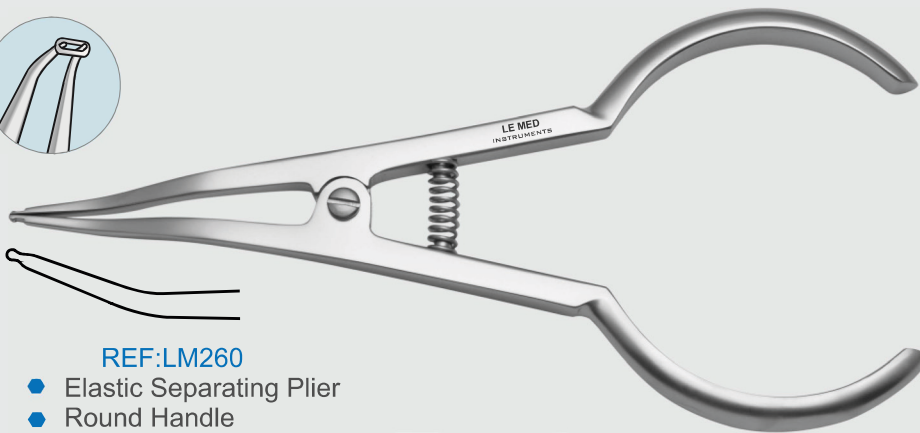
Wire Range

Minimum Capacity: .016" , Maximum Capacity .018 X.025"

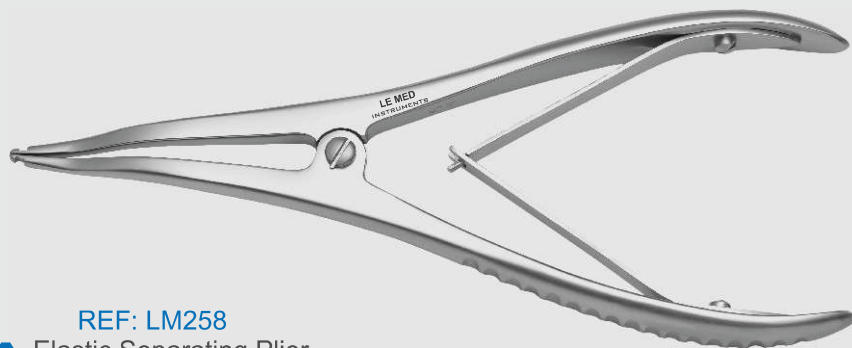
REF:LM213



REF:LM262
● Elastic Separating Plier



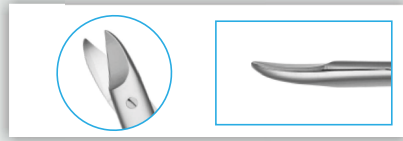
REF:LM260
● Elastic Separating Plier
● Round Handle



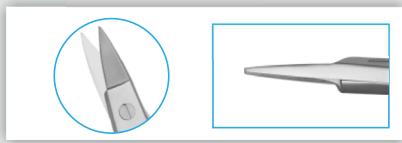
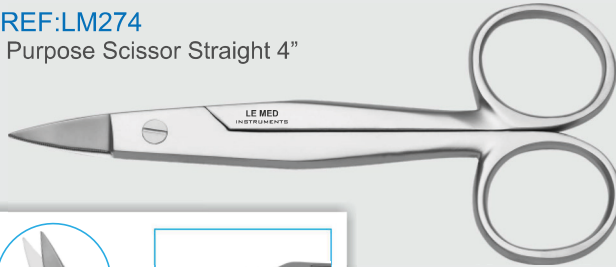
REF: LM258
● Elastic Separating Plier



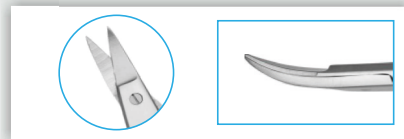
REF:LM272
● Crown & Collar Curved



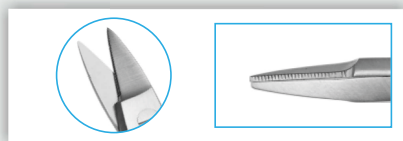
REF:LM274
● All Purpose Scissor Straight 4"



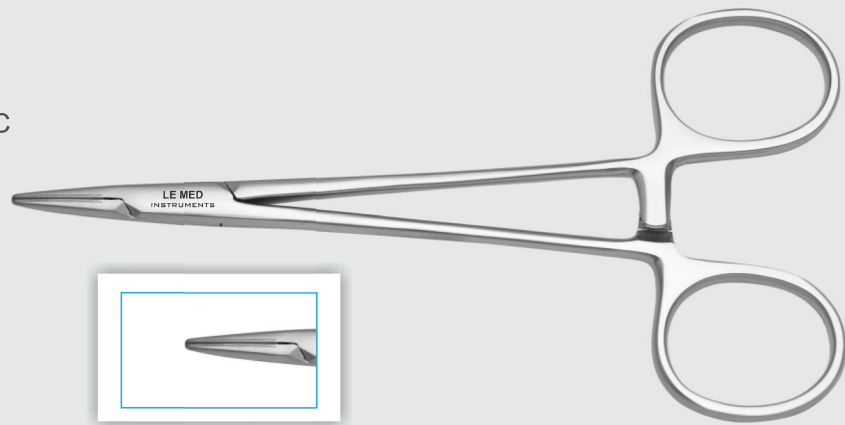
REF:LM276
● All Purpose Scissor Curved 4"



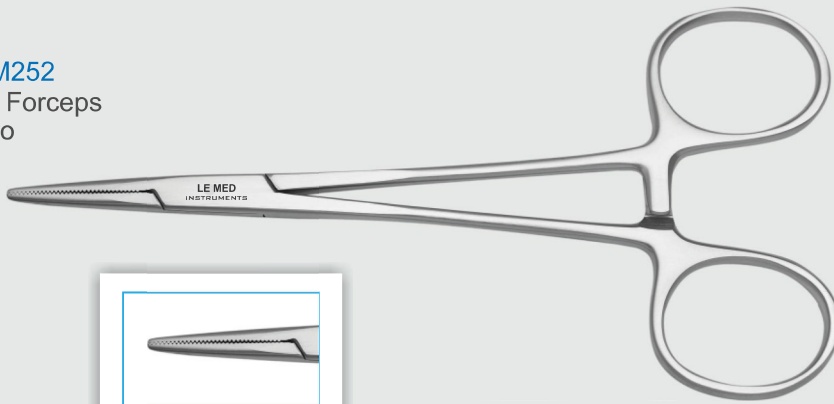
REF:LM278
● Crown Scissor 4"



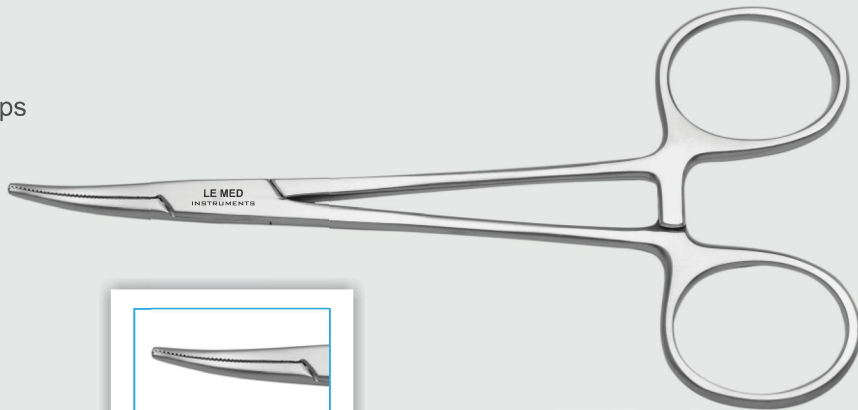
REF:LM250
Wire Holder
Straight 5 1/4" TC



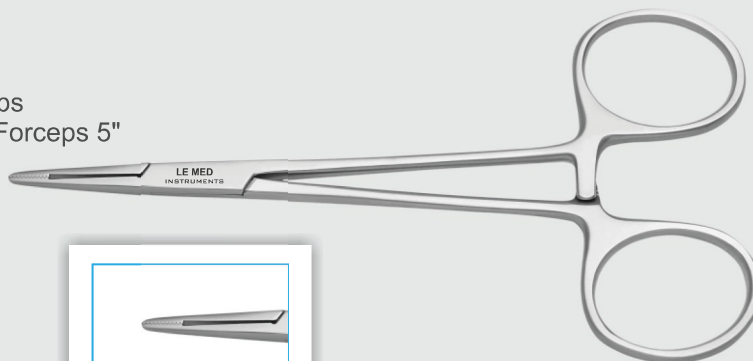
REF:LM252
Mosquito Forceps
Micro



REF:LM254
Mosquito Forceps
Curved



REF:LM256
Mosquito Forceps
Elastic Placing Forceps 5"
Tip Half 1/2

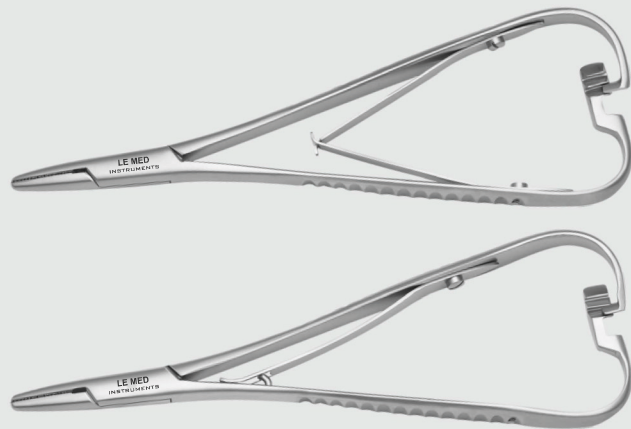




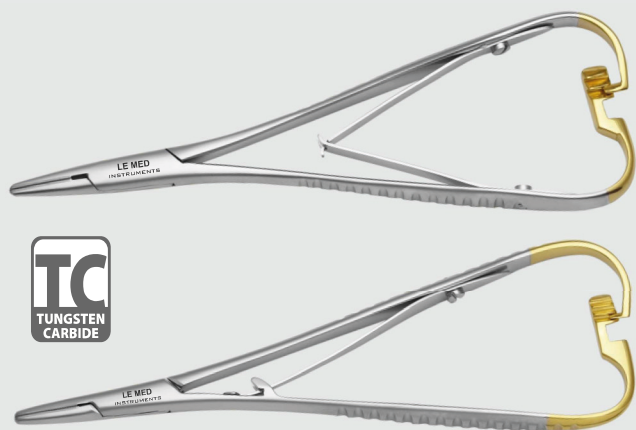
Mathieu Needle Holder

- Long durability due to tungsten carbide inserts on both jaws.
- Smooth handling
- Super Elegant white matt finish
- Available in double spring and single spring.
- Safety lock provide smooth opening and closing.

Mathieu Standard Tip
REF:LM214 Double Spring
REF:LM216 Single Spring

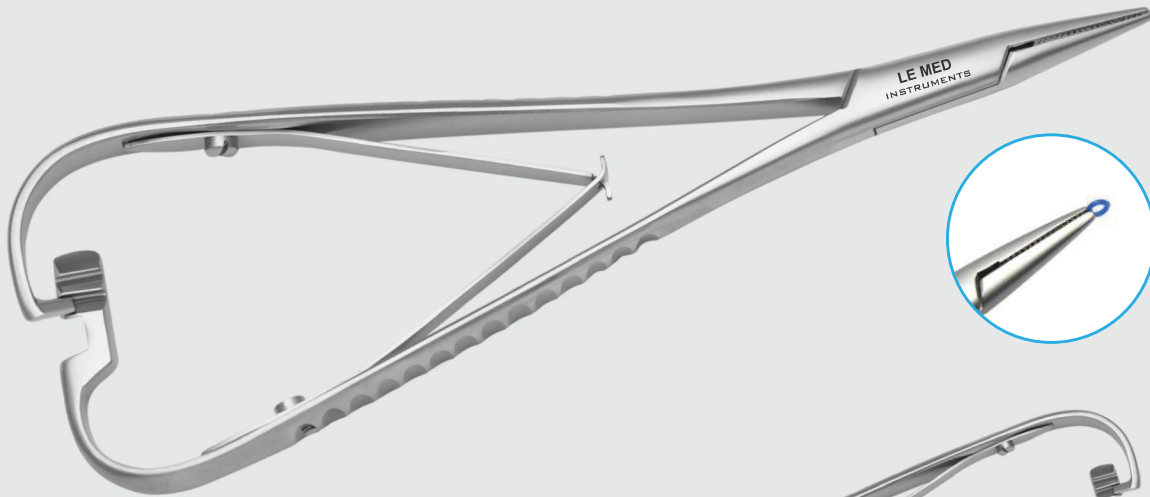


Mathieu Standard Tip T.C
REF:LM218 Double Spring T.C
REF:LM220 Single Spring T.C

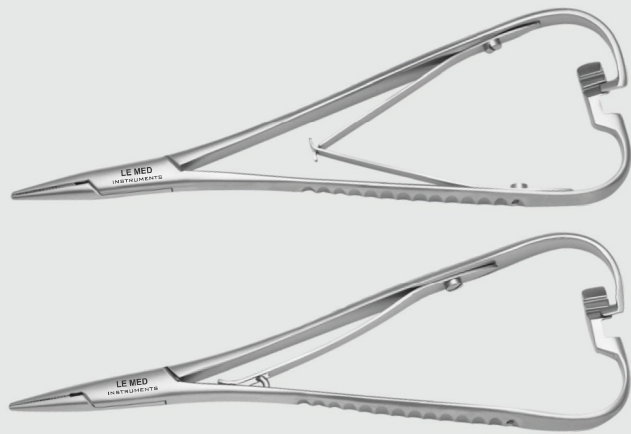


Mathieu Needle Holder

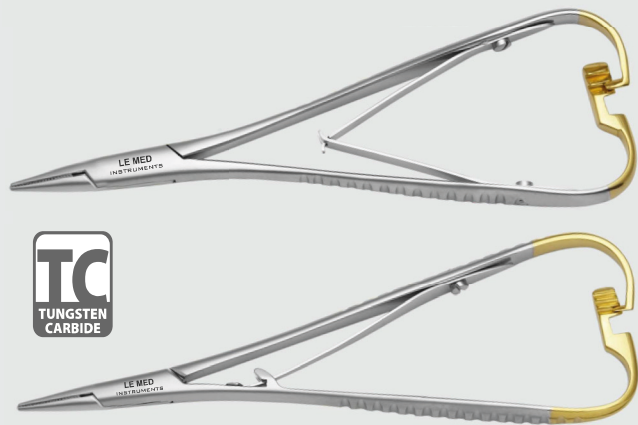
- ◆ Long durability due to tungsten carbide inserts on both jaws.
- ◆ Smooth handling
- ◆ Super Elegant white matt finish
- ◆ Available in double spring and single spring.
- ◆ Safety lock provide smooth opening and closing.



Mathieu Narrow Tip
REF:LM222 Double Spring
REF:LM224 Single Spring



Mathieu Narrow Tip T.C
REF:LM226 Double Spring T.C
REF:LM228 Single Spring T.C





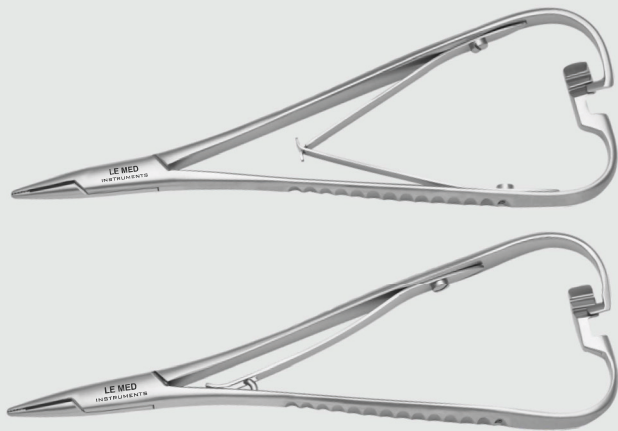
Mathieu Needle Holder

- Smooth handling
- Super Elegant white matt finish
- Available in double spring and single spring.
- Safety lock provide smooth opening and closing.

Mathieu Narrow 1/2 Tip
REF:LM230 Double Spring
REF:LM232 Single Spring



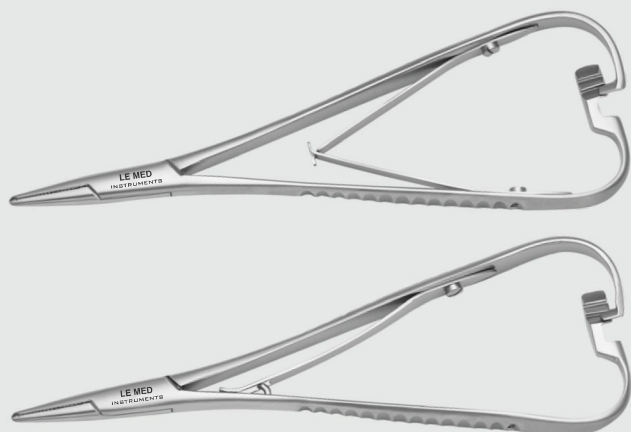
Narrow
1/2 Tip



Mathieu Hole Tip
REF:LM234 Double Spring
REF:LM236 Single Spring



Hole
Tip



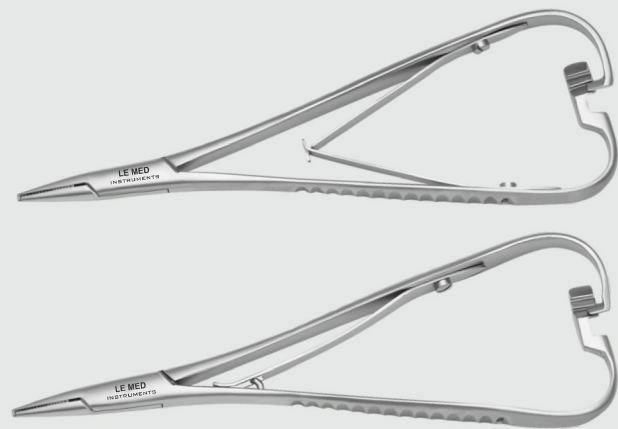
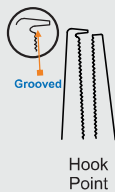
Mathieu Needle Holder

- Smooth handling
- Super Elegant white matt finish
- Available in double spring and single spring.
- Safety lock provide smooth opening and closing.

Mathieu Curved Tip
REF:LM238 Double Spring
REF:LM240 Single Spring



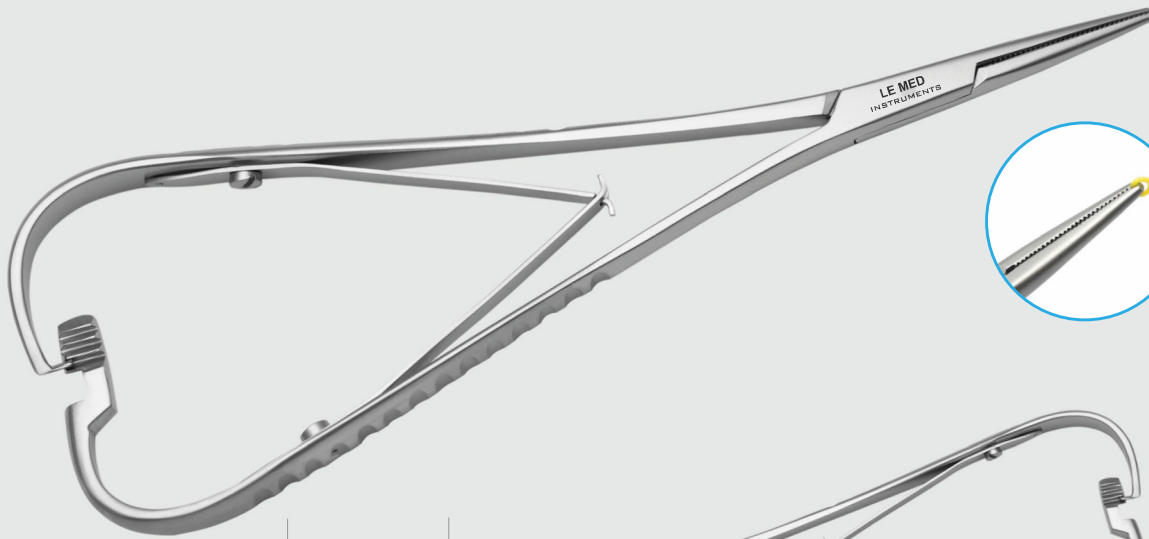
Mathieu Hook Tip with Grooved
REF:LM242 Double Spring
REF:LM243 Single Spring





Mathieu Needle Holder

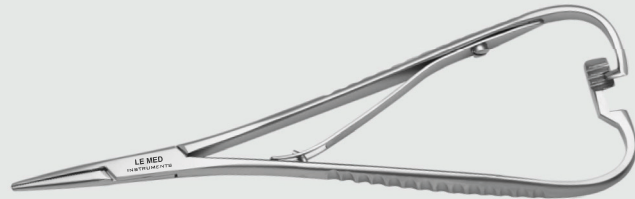
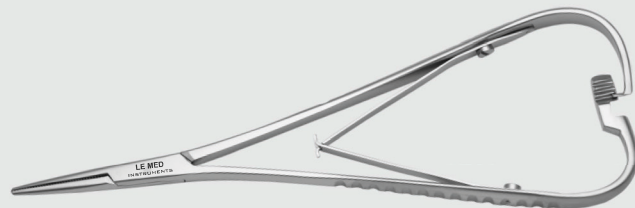
- Smooth handling
- Super Elegant white matt finish
- Available in double spring and single spring.
- Safety lock provide smooth opening and closing.



Mathieu Smaha Ultra Fine Tip
REF:LM246 Double Spring
REF:LM244 Single Spring



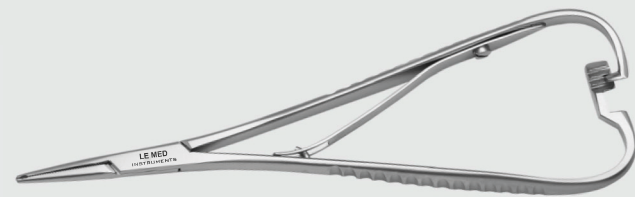
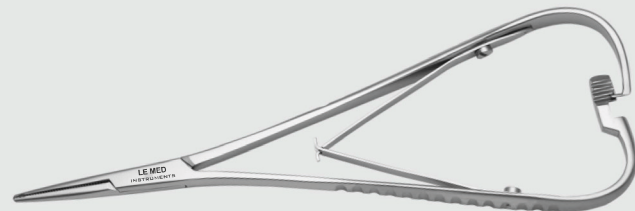
Smaha Ultra
Fine Tip



Mathieu Smaha Hole Tip
REF:LM247 Double Spring
REF:LM249 Single Spring



Smaha Hole
Tip



Orthodontic Scalers Hollow Handle



REF:LM292
Band Pusher/Scaler



REF:LM282
Ligature Director
Curved
Explorer Sharp



REF:LM284
Sickle Explorer
Angled Explorer



REF:LM286
Band Pusher
Small Scaler



REF:LM288
Ligature Placing
Double Ended



REF:LM290
Ligature Director
Straight/Angled



REF:LM280
Distal Bender
Double Ended



REF:LM294
Sickle Probe
/Sharp Explorer



REF:LM298
Band Pusher
Small Scaler



REF:LM300
Medium Scaler
Director



REF:LM302
Band Pusher
Small Scaler



REF:LM296
Ligature Wire Tying
Director V shape



REF:LM304
Ligature Arch Taker
Double Ended .25



REF:LM306
Ligature Taker
Double Ended



REF:LM308
Ligature Director
/Explorer



REF:LM310
Ligature Director
Pluggger Serrated head



REF:LM312
Scaler Large
Scaler Medium



REF:LM314
Scaler Large
Scaler Medium



REF:LM316
Medium Scaler/
Ligature Director
Curved



Hollow Handle



REF:LM309
Scaler Large Curved
Sickle Explorer



REF:LM311
Medium Scaler
Sickle Explorer



REF:LM313
Ligature Arch Taker
Double Ended



REF:LM315
Ligature Arch Taker
Angled Explorer



REF:LM317
Sickle Explorer Large
Angled Explorer



REF:LM324
Angled Explorer
Single Sided



REF:LM318
Sickle Explorer
Single Sided



REF:LM320
Scaler Large
Single Sided



REF:LM322
Scaler Large
Curved Single Sided



REF:LM325
Medium Scaler
Single Sided



REF:LM326
Spatula 6mm
Single Sided



REF:LM328
Spatula 8mm
Single Sided



REF:LM330
Spatula 10mm
Single Sided



Mouth Mirror with Handle
REF:LM332 Size: diameter 20MM
REF:LM336 Size: diameter 22MM
REF:LM340 Size: diameter 24MM



Set of 12.pcs

Orthodontic Scalers Solid Handle



REF:LM358
Band Pusher/Scaler



REF:LM348
Ligature Director
Curved
Explorer Sharp



REF:LM350
Sickle Explorer
Angled Explorer



REF:LM352
Band Pusher
Small Scaler



REF:LM354
Ligature Placing
Double Ended



REF:LM356
Ligature Director
Straight/Angled



REF:LM346
Distal Bender
Double Ended



REF:LM360
Sickle Probe
/Sharp Explorer



REF:LM264
Band Pusher
Small Scaler



REF:LM366
Medium Scaler
Director



REF:LM368
Band Pusher
Small Scaler



REF:LM362
Ligature Wire Tying
Director V shape



REF:LM370
Ligature Arch Taker
Double Ended .25



REF:LM372
Ligature Taker
Double Ended



REF:LM374
Ligature Director
/Explorer



REF:LM376
Ligature Director
Pluggger Serrated head



REF:LM378
Scaler Large
Scaler Medium



REF:LM380
Scaler Large
Scaler Medium



REF:LM382
Medium Scaler/
Ligature Director
Curved



Solid Handle



REF:LM375
Scaler Large Curved
Sickle Explorer



REF:LM377
Medium Scaler
Sickle Explorer



REF:LM379
Ligature Arch Taker
Double Ended



REF:LM381
Ligature Arch Taker
Angled Explorer



REF:LM383
Sickle Explorer Large
Angled Explorer



REF:LM390
Angled Explorer
Single Sided



REF:LM384
Sickle Explorer
Single Sided



REF:LM386
Scaler Large
Single Sided



REF:LM388
Scaler Large
Curved Single Sided



REF:LM391
Medium Scaler



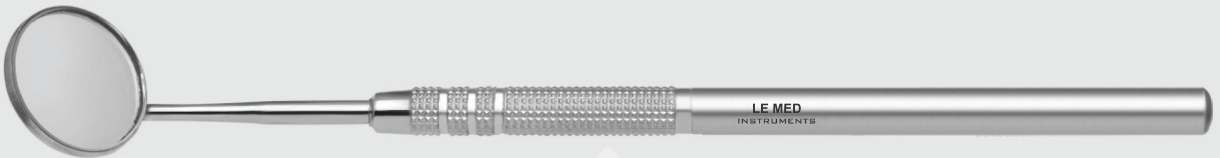
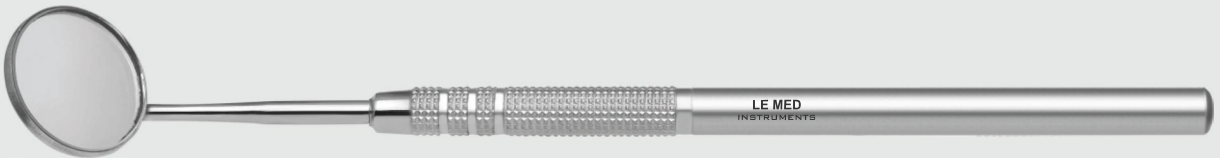
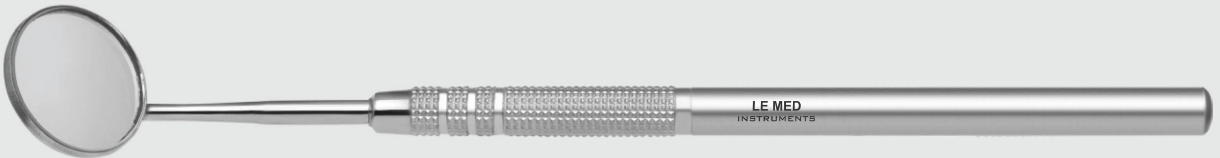
REF:LM392
Spatula 6mm
Single Sided



REF:LM394
Spatula 8mm
Single Sided



REF:LM396
Spatula 10mm
Single Sided



Mouth Mirror with Handle
REF:LM334 Size: diameter 20MM
REF:LM338 Size: diameter 22MM
REF:LM342 Size: diameter 24MM



Set of 12.pcs



REF:LM398
 • Straight Bracket Tweezer
 With Serration Inside Tips.



REF:LM400
 • Straight Bracket Tweezer
 With Serration Inside Tips.



REF:LM402
 • Posterior Bracket
 Tweezer Curved With Thin Tips



REF:LM404
 • Self Locking Bracket Tweezer
 Curved With Serration Inside Tips



REF:LM408
 • Self Locking Bracket
 Tweezer Straight



REF:LM410
 • Self Locking Bracket
 Tweezer Straight



REF:LM412
 • Self Locking Bracket
 Tweezer With Thin Tips



REF:LM414
 • Self Locking Bracket
 Tweezer With Thin Tips



REF:LM416
 • Self Locking Bracket
 Tweezer Curved



REF:LM418
 • Self Locking Bracket
 Tweezer Curved



REF:LM420
 • Posterior Bracket Round
 Tweezer Thin Tips (Small)



REF:LM422
 • Posterior Bracket Round
 Tweezer Thin Tips



REF:LM423
● Posterior Bracket Round Tweezer Thin Tips



REF:LM406
● Tweezers Sharped Hooked Pointed Angled Tip 60° 4.50



REF:LM424
● Bracket Tweezer With Thin Serrated Tips



REF:LM426
● Bracket Tweezer Curved With Thin Serrated Tips



REF:LM428
● Bracket Tweezer With Thin Serrated Tips



REF:LM430
● Bracket Tweezer With Thin Serrated Tips

RETRACTORS



REF:LM450
● Check Retractor Small Stainless Steel



REF:LM453
● Cheek Retractor Long Stainless Steel



REF:LM452
● Check Retractor Regular Stainless Steel



REF:LM455
● Photo Lip Retractor One Sided Stainless Steel



REF:LM435
Self-Ligating Opening Tool



REF:LM437
Self-Ligating Opening Tool



REF:LM438
High Heat Bite Stick
Upto 135 degree sterilizable

- Metal serrated triangle tip
- Molded high impact plastic
- Safe for dry heat sterilizers



REF:LM432
Strip Placer



REF:LM434
Martensitic positioner
polar bear



REF:LM444
Cheezle Handle

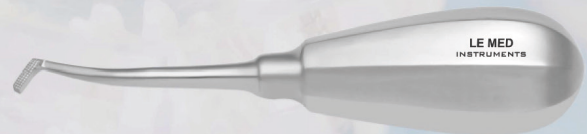


REF:LM436
Positive Positioner



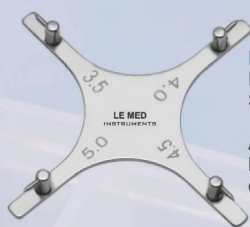
REF:LM446
Product: Mershon Band Pusher

- Reduced risk of slippage
- Lightweight hollow handle



REF:LM448
Mershon band Pusher with
small Handle Serrated Tip

GAUGE



REF:LM458
Product: Boone Gauge
Stainless Steel

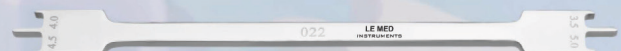
Accurately measures height of bracket placement from incisal edge. 3.5, 4.0, 4.5, and 5.0mm.



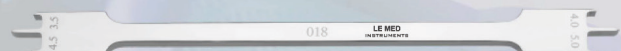
REF:LM464
IWANSON
100 mm
Measuring range 0 - 10 mm



REF:LM460
Boley Gauge Stainless steel



REF:LM466
Stainless Steel Height Gauge 0.22



REF:LM468
Stainless Steel Height Gauge 0.18



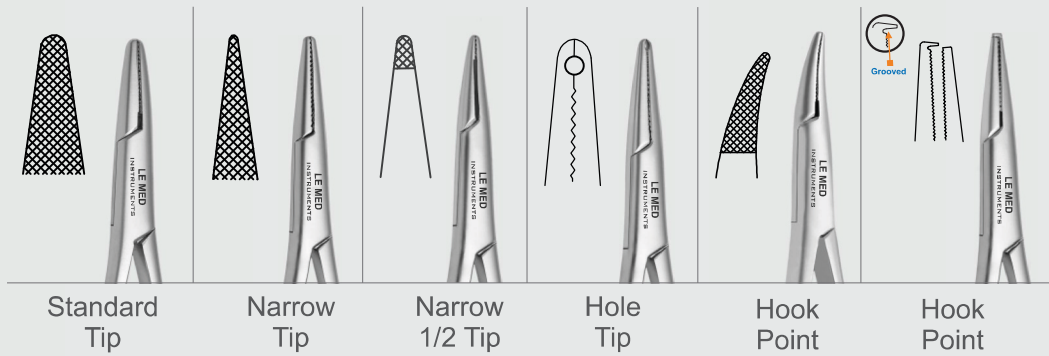
REF:LM462
Boley Gauge Stainless steel



REF:LM470
Bracket Height Gauge Movable Head



Economic Style



Mathieu Standard Tip
 REF:LM214E Double Spring
 REF:LM216E Single Spring
 REF:LM218E Double Spring with T.C
 REF:LM220E Single Spring with T.C

Mathieu Narrow Tip
 REF:LM222E Double Spring
 REF:LM224E Single Spring
 REF:LM226E Double Spring with T.C
 REF:LM228E Single Spring with T.C

Mathieu Narrow Tip 1/2
 REF:LM230E Double Spring
 REF:LM232E Single Spring

Mathieu Curved Tip
 REF:LM238E Double Spring
 REF:LM240E Single Spring

Mathieu Hole Tip
 REF:LM234E Double Spring
 REF:LM236E Single Spring

Mathieu Hook Tip with Grooved
 REF:LM242E Double Spring
 REF:LM243E Single Spring

DENTAL IMPRESSION TRAYS



REF:LM486
 Set of 10.pcs Dental Impression Trays
 Perforated

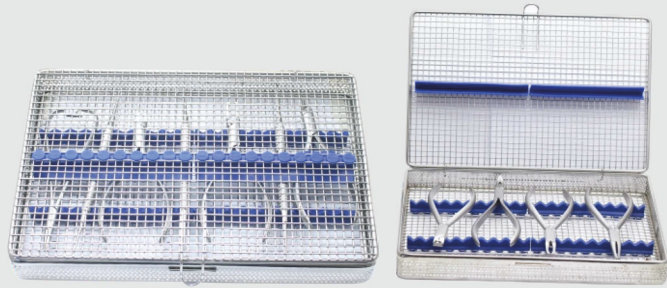
REF:LM488
 Set of 6.pcs Dental Impression Trays
 Perforated



REF:LM490
 Set of 10.pcs Dental Impression Trays
 Non-Perforated



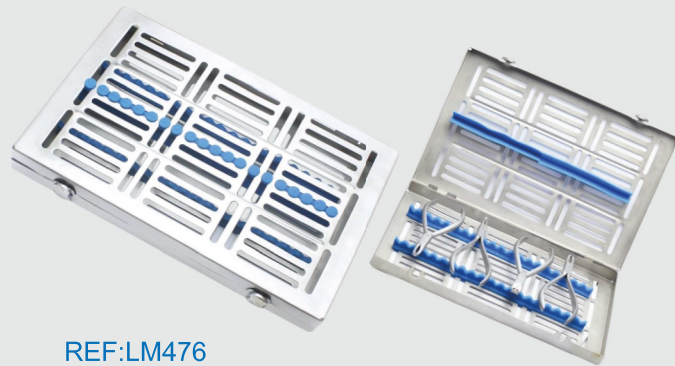
● LE MED is glad to introduce its new range of sterilization trays. These revolutionary trays are characterized by their particular quality and functionality which facilitate the cleaning and sterilization process. Their special shape allows to handle with extreme safety the surgical instruments during the washing and sterilization phase. Also hand scrubbing will be eliminated, reducing therefore any risk of injuries for the user.



REF:LM472
Wire Mesh Sterilization Tray
Stainless Steel Rubber
Size: 27X18X3 cm



REF:LM474
Wire Mesh Sterilization Tray
Stainless Steel Rubber
Size: 20X18X3 cm



REF:LM476
Steri-Wash Tray (Signature Cassettes)
Stainless Steel
Size: 29X18X3cm



REF:LM480
Scalars Tray Solid
Size: 30X20X1.5cm



REF:LM478
Steri-Wash Tray (for 10 pieces)
18X6X2 cm



REF:LM482
Scalars Tray Solid
Size: 20X13.5X1.5cm



REF:LM500
Scalars Tray Solid
Size: 12X8X0.75cm
Size: 8.5X6.15X0.75cm



REF:LM494
Kidney Tray
Size: 10.50X6X1.75cm
Size: 8.5X4.75X1.50cm
Size: 6.25X3.5X1cm



REF:LM484
Scalars Tray Solid
Size: 8.25X4.65X0.65cm



Instruction for Use (IFU)

Product Name

Non-sterile, non-measuring, non-active, reusable OrthodonticPLIER

Intended Purpose

A hand-held manual dental instrument designed to hold small objects or to bend or to cut metal strips or wire used in orthodontic procedures. It is typically made of high-grade steel and consists of two arm/hands that form a handle proximally and extend distally through a pivot point to terminate with jaws available in various shapes depending on intended use. This is a reusable device.

Intended User & Patient Population

These devices are used by professional and competent Dentists and not by layman to facilitate a procedure for patients of all age groups and Dentists should have appropriate knowledge, experience, education and training to perform pertinent procedure.

Expected Patient Age Group

Product is for all age groups.

Contraindications

These devices should not be used with patients, who are allergic to the specific material used i.e. stainless steel.

Moreover, instruments should not be used for anything other than their intended use.

Diagram / Drawing:

Refer to technical drawing, catalogue, etc.

Materials

Stainless steel material used for manufacturing are in conforming ASTM F899-20 & EN ISO 7153-1:2016, which is recommended for non-active Surgical and Dental Instruments.



Warnings: Solutions, Materials and Equipment

Stainless Steel -Avoid Contact with:

- Strong acids e.g. hydrochloric, aqua regia, dilute Sulphuric, carbonic and tartaric.
- Salt solutions e.g. ammonium chloride, mercury salts and stannous chloride.
- Potassium thiocyanate and potassium permanganate.
- Iodine solutions

Corrosion and Pitting

- Localized corrosion can be caused by Chloride-bearing solutions such as blood and saline.
- Avoid prolonged rinsing in saline solutions and use pure water instead.
- Periodically check the condition of the instrument, making sure there is no sign of corrosion. Discard the damaged instruments.

Detergents, Water and Lubricant

- Use only detergents that have been CE marked for cleaning medical devices made from stainless steel.
- Repeated exposure to strong alkaline solutions may cause discoloration of the device. Take into account the local water hardness levels when selecting the detergent.
- Use Pure water i.e. water that has been demineralized, deionized, distilled or processed through reverse osmosis.
- Water quality may influence the result of the cleaning and disinfection of the instruments. Therefore, use only deionized / distilled water or purified water / high purified water for all the steps that require water. Water with chloride contents may damage or even destroy the instruments
- Tap water contains minerals that may leave stains on the device after processing. Tap water can be used if validated and approved by your facility.
- Never use general –purpose oils for instruments; only water-soluble medical grade lubricants should be used. (If required)

Material and Equipment

- Never use abrasives on instruments, as this will spoil the surface finish. This may later cause discoloration, rusting or pitting.
- Do not use abrasive cleaners & brushes with hard bristles.
- Use only detergents, cleaning materials and equipment that have been CE marked for processing medical devices made from stainless steel.

Warnings: Processing Instructions For Use

- Follow instructions for use and warnings issued by the detergent manufacturer. Ensure all detergent residues are rinsed off as this may result in spotting or staining.
- Follow instructions for use and warnings issued by the ultrasonic/washer disinfectant manufacturer.
- When sterilizing (instruments) in an autoclave cycle ensure that the instructions from sterilizer's manufacturer are followed.
- Always check all instructions for use and sterilization of new instruments.
- **Temperatures**
 - No part of the process should exceed 140°C. To prevent coagulation of proteinaceous substances, the initial cleaning/rinsing should not exceed 40°C.
- **Personnel**
 - Always qualified and experienced personnel should perform (re)processing.
- **Processing**
 - Do not leave instruments in cleaning or disinfecting solutions for long terms (over night or weekend), the instruments can be destroyed.
 - Do not mix dental instruments and textiles/linen in the same autoclave load.
 - All steps of (re)processing must be completed in a sequential manner, moving in one direction only from dirty to clean; as mentioned below.
 - Never use without sterilization.

Handling

- Always handle all instruments gently. Never overstrain, drop or misuse them. This may undue stresses or strains on the devices during processing.
- Do not bang or drop devices or knock devices against each other as this may damage their structure or cutting edges.
- Never handle instruments by their tips. These should be cleaned by trained personnel only who will ensure the delicate working ends are adequately protected during storage or sterilization.
- Do not allow devices to remain wet, store clean and dry. Keep sterilized devices out of direct sunlight and away from moisture.
- Never store damp instruments. So, they must be thoroughly dried first.
- Never miss instruments or overstrain joints or necks.
- Keep fingers away from sharp tips and edges, use extreme caution when handling sharp devices.

Warnings: Cross Contamination High risk patients

- If prions and Creutzfeld-Jakob disease are suspected, special reprocessing requirements must be followed. These procedures have not been described within the scope of these reprocessing instructions. Please refer to Annex 7 of the recommendation "Hygiene requirements for the reprocessing of medical devices" by Rkl and BfArM.
- Follow hospital/facility approved procedures or recommendations in "Transmissible Spongiform Encephalopathy Agents: Safe Working And The Prevention Of Infection" compiled by the Advisory Committee on Dangerous Pathogens' Spongiform Encephalopathy Advisory Committee for processing devices that have been exposed to unconventional slow viruses or prion diseases such as Creutzfeldt Jakob Disease (C.J.D), Kuru, Gerstmann-Straussler-Scheinker Syndrome (G.S.S.), Fatal Familial Insomnia (F.F.I.), Scrapie, Bovine Spongiform Encephalopathy (B.S.E.) etc. Segregate instruments used on high risk tissues for patients born after 1st January 1997. See NICE IPG 196 (2006)

Health and Safety

- Wear protective clothes, gloves and eye wear as specified in your Health and Safety procedures.
- Dirty and clean instruments must not come into contact with each other – keep separate to avoid cross-contamination.
- Give special attention to micro-instruments. Their fine tips can easily be damaged by contact with other instruments or the sides of the case in which they should be kept. Hand cleaning is preferable.
- Follow hospital/facility approved Health & Safety procedures at all times.
- Consult National Infection Control / Prevention Protocols for specific guidance regarding processing of medical devices and always follow recommended best hospital practices and local government Health & Safety procedures and regulatory requirements.

Warnings: Use

Intended Use

- Ensure instruments are only be used for their intended purpose.
- Instrument should always be used in controlled environment i.e. following operation theatre SOP/Law.

Before & After use

- An instrument count should be made before and after surgery to ensure no devices are missing.
- Check all instruments for damage before and after use.
- Ensure instruments are not caught in soiled linen as these will create an injury hazard at the laundry and may become damaged beyond repair.
- Always inspect for rust, pits, cracks, pores, dents and misalignments before use.

Limitations on Reprocessing

End of Life

Due to the product design and the materials used, no definite limit to the maximum number of performable processing cycles can be specified. Repeated processing has minimal effect on these instruments. End of life is normally determined by wear and damage due to use. The service life of the medical devices is determined by their function and careful handling. They are then to be disposed of according to best hospital procedure. Do not use any damaged instruments.

Instructions for Reprocessing

- The devices should be monitored, controlled, handled, cleaned and processed by suitably trained and qualified personnel under an approved quality management system such as ISO 9001 or ISO 13485.
- Processing systems used must be able to sterilize devices to EN 556.
- It remains the responsibility of the processor to ensure that the processing as actually performed, using equipment, materials and personnel in the processing facility achieve the desired result. This requires validation and routine monitoring of the process. Likewise, any deviation by the processor from the instructions provided should be properly evaluated for effectiveness and potential adverse consequences.

Preparation at Point of Use Before Processing

Remove Contamination

- Wherever possible do not allow debris (e.g. blood or other bodily fluids) to dry on the devices. For best results and to maximize instrument life, process as soon as is reasonably practical after use.
- Ensure all instruments exposed during the procedure are reprocessed, even if they were not used as they may have been inadvertently contaminated.
- Remove excess soil by rinsing in pure water (below 40°C) as soon as possible after use. If necessary use a CE marked soft bristled brush or instrument wipe to remove sub/room contaminants, brush carefully from stock to tips i.e. remove gross soiling with disposable low-linting cloth/paper wipe from the instruments directly after application. Do not use fixating agents or hot water (>40°C), as this causes fixation of residues and can impair successful cleaning. In order to avoid contamination drying on, soak the used instruments in a disinfectant bath.
- If the devices cannot be processed immediately after use, manufacturer recommends the use of an Enzymatic preparation solution such as Ruhof Prezyme XF to keep debris moist. Ensure all surface areas of the device including any lumen, are fully coated in the solution.

Containment & transportation

- Pack the device in a closed suitable container and transport of the instruments to the processing location, in order to avoid unwanted movement and damage to instruments and environmental contamination.
- It is recommended that these instruments are processed as soon as is reasonably practical following use.
- Care must be taken to prevent unwanted contamination. Follow hospital/facility approved procedures using trained staff for transporting contaminated devices.

Preparation at processing facility

Preparation for Decontamination

- No particular requirements.

Preparing before cleaning

- Keep working ends open for cleaning.
- Ensure staff who will be processing the devices are trained in handling the devices due to their delicate nature
- Rinse off any enzyme preparation solution using pure water (<40°C).

Manual Cleaning / Disinfection

Cleaning: Manual

- Equipment: Neutral pH Detergent (The ideal cleaning agent is nonabrasive, low-foaming and free-rinsing), CE marked soft bristled brush, pure running water method, CE marked instrument wipe, hospital approved tissue paper, hot air dryer, dry cabinet or air gun.
 1. Rinse gross soil from instrument.
 2. Remove any obvious debris accumulated during use from the instrument with a soft, non-metallic instrument cleaning brush plus mild detergent and sterile purified water solution. Using brush, apply detergent solution to all surfaces ensuring that hinged instruments are cleaned in both open and closed positions.
 - During manual cleaning, never use steel wool, wire brushes, scalpel blades or highly abrasive detergent or cleansers to remove soil from dental instruments. These will damage the instruments' protective surface and lead to corrosion. Use a clean soft bristled brush to clean instruments with an accessible channel.
 3. Rinse thoroughly with sterile, purified water until free of detergent residual and debris.
- Always follow best hospital practices / recommended procedure for cleaning and follow detector manufacturer's instructions for use for the concentration, temperature and contact time. Inspect instruments for good cleaning result and repeat procedure if necessary. The best effects are achieved by cleaning and rinsing the instruments immediately after each application.

Disinfection: Manual

- Instruments should be disinfected with recommended disinfectant solution (Rkl – and VAH- listed disinfectant) and make sure there should be no contact between the instruments. Pay close attention to the correct dosages and exposure times according to disinfectant solution manufacturer's instructions for use for the correct dosage and contact time. It shall be guaranteed that the disinfectant reaches all the areas of the disinfected device (move parts in the disinfection bath and rinse any covered surfaces with a syringe - without a cannula - with the disinfecting agent). An overdose of the cleaning/disinfection solution is to be avoided. Then rinse instruments thoroughly with water.

Manual Drying

Thoroughly dry using low-linting sterile wipes before sterilization. Medical grade, sterile, oil free compressed air may be used to aid the drying process in order to avoid as much water residues in cavities as possible.

Automated Cleaning

- Recommended Equipment: Suitable sized CE marked processing trays, CE marked and validated washer / disinfectant machine to EN ISO 15883, CE marked enzyme or alkaline detergent, which is a liquid, low foaming, free rinsing and non-abrasive, biodegradable.
- Detergents should not contain artificial colouring agents; optical brighteners; perfumes; halides at an in-use concentration greater than 120 mg/L; fatty soaps, glycerine or lanolin; or leave a toxic residue.

 1. Initial –rinse / Pre – wash: with cold filtered water: > 1 min. Temp. < 40°C.
 2. Drain
 3. Repeated pre-rinse with cold water: 3 min. (Temp. < 40°C)
 4. Emptying
 5. Detergent wash i.e. cleaning with 0.5% alkaline detergent: > 5 min. at 55°C
 6. Drain
 7. Neutralize with warm water: approx. 40°C, 3 min., neutralizing agent
 8. Draining
 9. Rinsing with deionized water: 3 min. temp. approx. 40°C
 10. Emptying
 11. Thermal disinfection: > 90° C for 5 min.
 12. Drying with 15-25 min. at 90 – 110°C.

The program of the WD must include an appropriate drying phase. When drying is achieved as part of a washer-disinfecter cycle do not exceed 120°C.

 13. Open the machine and allow any remaining water vapor to escape. Remove the product from the WD after the end of the program and cooling to room temperature. If necessary, blow out the product additionally with medical compressed air until it is completely dry.

Maintenance, Inspection and Testing

Lubrication

- Apply a small quantity of surgical grade lubrication oil to hinges. Discard blunt or damaged instruments.
- Always lubricate after cleaning with a proprietary water-soluble instrument lubricant.
- Unless otherwise directed, instruments should be inspected, cleaned, rinsed and lubricated (if required) before being put into service.

Inspection and function testing

- Hinged instruments: Check for smooth movement of hinge without excessive "play".
- Prior to use, visually inspect the instrument for bent, broken, cracked, worn, or missing component(s).
- Edges and surface should be free of nicks.
- Do not use the instrument if it is damaged or defective.
- Sharpen, service or replace instruments, if necessary.
- If instruments are still dirty, repeat cleaning and disinfection procedures.
- After manual cleaning / disinfection, check visible surfaces visually for residues.

Packaging

- Pack serviced and cleaned instruments for sterilization. A standard sterile barrier system may be used. Standard packaging of instruments for sterilization according to ISO 11607 and EN 868. Ensure that the pack is large enough to contain the instrument without stressing the seals. When used as intended, these instruments do not need an outer wrap or additional protection.
- In sets: Instruments may be loaded into dedicated instrument trays, or general-purpose sterilization trays. Ensure that cutting edges are protected, and do not exceed > Kg per tray. Wrap the trays using appropriate method.
- When sterilizing reusable instruments in one autoclave cycle ensure that the sterilizer's maximum load is not exceeded.
- Always use protective caps for packaging / storage of clean instruments, where needed.
- Never pack instruments with other heavier instruments without care. Remember always – heavy instruments on the bottom and light instruments on the top.
- If instruments are still dirty, repeat cleaning and disinfection procedures.
- **Steam sterilization (autoclave) of instruments:**
 - 3 pre-occur phases
 - Heat up to a sterilization temperature of 134°C
 - Moreover, it is recommended that sterilization temperatures should not exceed 280F (137C).
 - Shortest hold time: 5 min
 - Drying time: at least 20 min

Note

Ensure steam quality in accordance with EN 2851
Dry times may be highly variable due to the differences in packaging materials (e.g. non-woven wraps), environmental conditions, steam quality, device materials, total mass, sterilizer performance and varying cool down time. The user should employ verifiable methods (e.g. visual inspection) to confirm adequate drying. Always follow recommended local government Health & Safety procedures and regulatory requirements for Sterilization of the instruments.

Sterilization

In Sets: Instruments can be loaded into dedicated instrument trays or general purpose sterilization trays. Be sure to protect the cut edges and do not exceed the allowable weight per screen. Pack the screens using a suitable method.

Storage

- Store packaged device in dry / clean place and dust free environment at moderate conditions as per Hospital best practices to allow device to remain clean, dry, and ready for service.
- Store sterile product closed in a clean, dust-free and dry sterile container.
- Protect the devices against mechanical damage.
- The devices shall be stored and transported in safe containers / packaging units.
- Protect from direct light.
- Store sterile container in a clean and dry environment with controlled humidity at room temperature.
- Ensure the necessary separation between sterile and non-sterile packages.
- Always check labels, indicators and packaging integrity before using stored instruments.
- Do not store sterile containers near aggressive substances (e.g. alcohols, acids, bases, solvents and disinfectants).
- The sterile packaging of the instruments have to be inspected before opening to ensure they are undamaged.
- For sterilization as well as for the transport and storage of instruments after sterilization appropriate and recommended sterilization containers shall be used (e.g. those acc. To DIN EN 868, ISO 11607 standard).

Note

Also observe your internal storage standards for sterilized products.

Calibration

The products do not require calibration.

Disposal

No special decomposition or disposal required for pertinent product(s) as they don't contain any toxic or hazardous material; when recycling medical devices please follow your local government Health & Safety procedures and regulatory requirements.

Warranty

This product is guaranteed to be free from defects in material or workmanship. The warranty is null and void should product damage occur as a result of mis-handling or mis-use. Modifications carried out on device may also result in loss of guarantee / warranty rights. Care must be taken in the use handling and use of this product.

Return

In case of damage or faulty, please return to supplier with same packaging and event description. **Failed Devices**
If the device fails any of the quality inspection criteria above it should be segregated, identified accordingly and decontaminated. It should then be either sent back to manufacturer for repair along with the signed Decontamination Certificate, or disposed of following hospital approved procedures, e.g. Sharps Bin or Clinical Waste etc.

Serious Incident

Report to the manufacturer / authorized representative and the competent authority of the member state in which user and/or patient is established; about any serious incident that has occurred in relation to the device.

Complications

The complications related to the use of instruments are dependent on procedure adopted, no complications are associated with instruments.

Legends

UDI LIC: D934 MELPEX BEAUTY INSTRUMENTS
Ranger Head Quarter Road, SKT-PK

Importer/Distributor

LE MED Instruments GmbH

Stau 123

26122 Oldenburg

Germany

Tel.: + 49 (0)441 68308 6040

Email: info@lemedinst.com

Website: www.lemedinst.com

Website: www.lemedinst.com

Importer SRN DE-IM-000017840

CMC MEDICAL DEVICES & DRUGS SL NO. CMC/CE/2020/22122020.8 C/ Horacio Lengua n16 C. P. 29006 Málaga-Spain Phone+34 951 214 054 Email: info@cmcmcdicaldevices.com				
	Medical Device		Manufacturer	
	EU Authorized Representative		Manufacturing Date with country code (Pakistan)	
	Serial Number		Use-by date	
	Instrument are non-sterilized		Number of pieces contained	
	Instrument is sterilizable in steam sterilization (autoclave)		Batch code	
	Fragile, handle with care		Temperature limitations: Transport and store between 5°C to 40°C	
	Keep away from Sunlight		Humidity limitations: Transport and store between 40% RH to 70%RH	
	Keep dry		Caution, consult accompanying documents	
	Latex free		The device complies with European applicable regulatory requirements of medical devices	



Gebrauchsanweisung

Produktbezeichnung

Unsteril, nicht essende, nicht aktive, wiederverwendbare kieferorthopädische Zange

Verwendungszweck

Ein handgehaltenes zahnärztliches Instrument zum Halten kleiner Gegenstände oder zum Biegen oder Schneiden von Metallstrahlen oder -drähten, die bei kieferorthopädischen Verfahren verwendet werden. Es ist aus Edelstahl gefertigt worden und besteht aus zwei Armstangen, die proximal einen Griff bilden und distal durch einen Dreieckstyp verknüpft werden, um in Backen zu enden, die je nach Verwendungszweck in verschiedenen Formen erhältlich sind. Es handelt sich um ein wiederverwendbares Gerät

Vorgesehener Benutzer und Patientengruppe

Diese Geräte werden von professionellen und kompetenten Zahnärzten und nicht von Laien verwendet, um Patienten aller Altersgruppen einen Eingriff zu erleichtern. Zahnärzte sollten über die entsprechenden Kenntnisse, Erfahrungen, Ausbildungen und Schulungen verfügen, um die Verfahren durchzuführen.

Altersgruppe der Patienten

Das Produkt ist für alle Altersgruppen geeignet.

Gegenanzeigen

Diese Geräte sollten nicht bei Patienten verwendet werden, die auf das verwendete Material - d.h., rostfreien Stahl, allergisch reagieren.

Außerdem sollen die Instrumente nicht für andere als die vorgesehenen Zwecke verwendet werden.

Diagramm / Zeichnungen

Siehe technische Zeichnung, Katalog, etc.

Materialien

Die für die Herstellung verwendeten Materialien aus Edelstahl entsprechen dem Standard ASTM F899-20 & EN ISO 7153-1(2016), welche für nicht aktive chirurgische und zahnmedizinische Instrumente empfohlen werden.



Warnungen: Lösungen, Materialien und Ausrüstung

Rostfreier Stahl - vermeiden Sie Kontakt mit:

- starken Säuren, z. B. Salzsäure, Königswasser, verdünnte Schwefelsäure, Kohlensäure und Weinsäure.
- Säurelösungen, z. B. Ammoniumchlorid, Oxidationslösungen und Zinnchlorid.
- Kaliumthiocyanat und Kaliumpermanganat
- Jodhaltige Lösungen

Korrosion und Lochfraß

- Örtliche Korrosion kann durch chlordioxidhaltige Lösungen wie Blut und Kochsalzlösung verursacht werden. Vermeiden Sie daher längere Spülen in Kochsalzlösungen und verwenden Sie stilles reines Wasser.
- Überprüfen Sie regelmäßig den Zustand des Instrumentes und stellen Sie sicher, dass es keine Anzeichen von Korrosion gibt. Entsorgen Sie beschädigte Instrumente.

Reinigungsmitel, Wasser und Schmiermittel

- Verwenden Sie nur Reinigungsmittel, die für die Reinigung von Medizinprodukten aus rostfreiem Stahl CE-genehmigt sind.
- Wiederholter Kontakt mit stark alkalischen Lösungen kann zu Verfärbungen des Geräts führen. Berücksichtigen Sie daher bei der Auswahl des Reinigungsmittels den örtlichen Wasserhärtegrad.
- Die Wasserqualität kann das Ergebnis der Reinigung und Desinfektion der Instrumente beeinflussen. Verwenden Sie daher reines Wasser, d.h. demineralisiertes, deionisiertes, destilliertes oder durch Umkehrosmose aufbereitetes Wasser für alle Schritte, die o. g. geringes Wasser erfordern. Wasser mit Chloridanteilen kann die Instrumente beschädigen oder sogar zerstören.
- Leitungswasser enthält Mineralien, die Flecken auf dem Gerät hinterlassen können. Leitungswasser kann verwendet werden, wenn es zuvor, wie oben beschrieben, validiert wurde.
- Verwenden Sie niemals Alkohollösungen für die Instrumente, sondern nur wasserlösliche Desinfektionsmittel.

Material und Ausrüstung

- Verwenden Sie niemals Scheffelmitel für die Instrumente, da diese die Oberflächenbeschaffenheit beeinträchtigt. Es kann im Laufe der Zeit zu Verfärbungen, Rost oder Lochfraß führen.
- Verwenden Sie keine schwebenden Reinigungsmittel und Bürsten mit harten Borsten.
- Verwenden Sie nur Reinigungsmittel - mischlerien und -geräte, die für die Aufbereitung von Medizinprodukten aus rostfreiem Stahl CE-genehmigt sind.

Warnungen: Verarbeitung

Anweisungen für den Gebrauch

- Beachten Sie die Gebrauchsanweisungen und Warnhinweise des Reinigungsmittelherstellers. Vergewissern Sie sich, dass alle Reinigungsmitelrückstände abgewischt worden sind, da es ansonsten zu Fleckenbildung oder zur Verschmutzung führt.
- Beachten Sie die Gebrauchsanweisungen und die Warnhinweise des Herstellers bei Verwendung eines Ultraschall-Desinfektionsgeräts.
- Bei der Sterilisation von Instrumenten in einem Autoklavzyklus ist sicherzustellen, dass die Anweisungen des Herstellers des Sterilisators befolgt werden.
- Überprüfen Sie stets alle Anweisungen zur Verwendung und Sterilisation neuer Instrumente.

Temperaturen

- Kein Teil des Prozesses sollte 140°C überschreiten. Um die Koagulation von eiweißhaltigen Substanzen zu verhindern, sollte die Ersteinreinigung/Spülung 40°C nicht überschreiten.

Personal

- Die (Auf-)Verarbeitung sollte nur von qualifiziertem und erfahrenem Personal durchgeführt werden.

Bereitstellung

- Lassen Sie die Instrumente nicht über längere Zeit in Reinigungs- oder Desinfektionslösungen liegen (über Nacht oder über das Wochenende), da die Instrumente zerstört werden können.
- Mischen Sie zahnärztliche Instrumente und Textilien/Wäsche NICHT in der gleichen Autoklavladung.
- Alle Schritte der (Wieder-)Aufbereitung müssen sequenziell durchgeführt werden, wobei nur in eine Richtung von schmutzig nach sauber vorgegangen werden darf, wie unten erwähnt.
- Niemals ohne Sterilisation verwenden.

Handhabung

- Behandeln Sie alle Instrumente stets vorsichtig. Überprüfen Sie, ob Sie nicht lassen sie sie nicht fallen und verwenden sie sie nicht falsch. Vermeiden Sie übermäßige Belastungen der Geräte während der Anwendung. Lassen Sie die Geräte nicht fallen oder stoßen sie nicht gegeneinander, da dieses ihre Struktur oder ihre Schneiden beschädigen kann.
- Fassen Sie die Instrumente niemals an der Spitze an. Diese sollten nur von geschultem Personal gehalten werden, das dafür sorgt, dass die empfindlichen Arbeitenden nicht von Leugung oder Sterilisation angemessen geschützt sind.
- Lassen Sie die Instrumente nicht nass werden, sondern legen sie sie sauber und trocken. Bewahren sterilisierte Instrumente vor direktem Sonnenlicht und Feuchtigkeit geschützt auf.
- Bewahren sie niemals feuchte Instrumente auf. Sie müssen vorher gründlich getrocknet werden.
- Instrumente niemals feierhaftig gebrauchen oder Gelenke oder Gestelle überbeanspruchen.
- Halten sie die Finger von scharfen Spalten und Kanten fern und seien Sie beim Umgang mit scharfen Geräten äußerst vorsichtig.

Risikopatienten

- Bei Verdacht auf Prionen und Creutzfeld-Jakob-Krankheit sind besondere Aufbereitungsanforderungen zu beachten. Diese Verfahren sind im Rahmen dieser Aufbereitunganleitung nicht beschrieben. Bitte beachten Sie die Anlage 7 der Empfehlung "Hygieneanforderungen an die Aufbereitung von Medizinprodukten" vom RKI und dem BfArM.
- Befolgen Sie die vom Krankenhaus/der Einrichtung genehmigten Verfahren oder die Empfehlungen in "Transmissible spongiforme Enzephalopathie-Erreger: Safe Working And The Prevention Of Infection" des Advisory Committee on Dangerous Pathogens Spongiform Encephalopathy Advisory Committee für die Aufbereitung von Produkten, die mit unkonventionellen Viren oder Prionenerkrankungen wie Creutzfeldt-Jakob-Krankheit (C. J. D.), Kuru, Gerstmann-Sträussler-Scheiner-Syndrom (G. S. S.), Fatal Familial Insomnia (F. F. I.), Scrapie, Bovine Spongiforme Enzephalopathie (B. S. E.). Bei Patienten, die nach dem 1. Januar 1997 geboren wurden, sind die Instrumente, die an Hochrisiko-Gewebe verwendet werden, auszussordern. Siehe NICE IPG 196 (2006)

Gesundheit und Sicherheit

- Tragen Sie Schutzkleidung, Handschuhe und Schutzbrillen, wie in Ihren Gesundheits- und Sicherheitsvorschriften angegeben.
- Verschmutzte und saubere Instrumente dürfen nicht miteinander in Berührung kommen - halten sie sie getrennt, um Kreuzkontaminationen zu vermeiden.
- Achten Sie besonders auf Mikro-Instrumente. Ihre feinen Spalten können leicht durch Kontakt mit anderen Instrumenten oder dem Seiler des Koffers, in dem sie aufbewahrt werden, beschädigt werden. Die Reinigung von Hand ist vorzuziehen.
- Befolgen Sie jederzeit die vom Krankenhaus/der Einrichtung genehmigten Gesundheits- und Sicherheitsverfahren. Konsultieren Sie die nationalen Protokolle zur Infektionskontrolle/prävention für spezifische Anleitungen der Aufbereitung von Medizinprodukten und befolgen Sie stets die empfohlenen bewährten Krankenhauspraktiken sowie die Gesundheits- und Sicherheitsverfahren der örtlichen Behörden und die gesetzlichen Bestimmungen.

Warnungen: Verwendung

Verwendungszweck

- Sicherstellung, dass die Instrumente nur für den vorgesehenen Zweck verwendet werden.
- Die Instrumente sollten immer in einer kontrollierten Umgebung verwendet werden - d.h., gemäß den SOP/Gesetzen für den Operationsaal.

Vor- und Nach der Verwendung

- Vor und nach der Operation sollten die Instrumente geölt werden, um sicherzustellen, dass keine Geräte fehlen.
- Überprüfen Sie alle Instrumente vor und nach der Verwendung auf Beschädigungen.
- Achten Sie darauf, dass sich die Instrumente nicht in verschmutzter Wäsche verfangen, da diese in der Wäscherei eine Verknüpfungsfähigkeit darstellen und irreparabel beschädigt werden können.
- Überprüfen Sie die Instrumente vor der Verwendung stets auf Rost, Graß, Risse, Poren, Delien und Fehlstellungen.

Beschränkungen der Wiederaufbereitung

Ende der Lebensdauer
Aufgrund des Produktalters und der verwendeten Materialien kann keine definitive Grenze für die maximale Anzahl der durchführbaren Aufbereitungen angegeben werden. Wiederholte Aufbereitung hat nur minimale Auswirkungen auf diese Instrumente. Das Ende der Lebensdauer wird in der Regel durch Verschleiß und Beschädigung durch den Gebrauch bestimmt. Die Lebensdauer der Medizinprodukte wird bestimmt durch die Funktion und sorgfältige Handhabung. Sie sind dann gemäß den besten Krankenhausverfahren zu entsorgen. Verwenden Sie keine beschädigten Instrumente.

Anleitung zur Wiederaufbereitung

- Die Produkte sollten von entsprechend geschultem und qualifiziertem Personal im Rahmen eines anerkannten Qualitätsmanagementsystems wie ISO 9001 oder ISO 13485 überachtet, kontrolliert, gehandhabt, gereinigt und aufbewahrt werden.
- Die verwendeten Aufbereitungssysteme müssen in der Lage sein, die Produkte gemäß EN 556 zu sterilisieren.
- Es liegt in der Verantwortung des Aufbereitenden sicherzustellen, dass die tatsächlich durchgeführte Aufbereitung mit den Geräten, Materialien und dem Personal in der Aufbereitungsanlage das gewünschte Ergebnis erzielt. Dies erfordert eine Validierung und routinemäßige Überwachung des Prozesses. Ebenso sollte jede Abweichung des Verarbeitenden von den gegebenen Anweisungen ordnungsgemäß auf ihre Wirksamkeit und mögliche nachteilige Folgen überprüft werden.

Aufbereitung am Ort der Verwendung vor der Verarbeitung

Verunreinigungen entfernen

- Achten Sie nach Möglichkeit darauf, dass keine Rückstände (z. B. Blut oder andere Körperflüssigkeiten) auf den Geräten anhaften. Um beste Ergebnisse zu erzielen und die Lebensdauer der Instrumente zu maximieren, sollten sie so bald wie möglich nach der Verwendung aufbereitet werden.
- Stellen Sie sicher, dass alle während des Verfahrens freigesetzten Instrumente aufbereitet werden, auch wenn sie nicht verwendet wurden, da sie versehentlich kontaminiert werden sein könnten.
- Entfernen Sie überschüssige Verschmutzungen durch Abspülen in reinem Wasser (unter 40°C) so bald wie möglich nach der Verwendung. Falls erforderlich, verwenden Sie eine CE-genehmigte Bürste mit weichen Borsten oder ein Instrumentenloch, um hartnäckige Verunreinigungen zu entfernen, bürsten Sie vorsichtig vom Schaft bis zu den Spitzen.
- Entfernen Sie grobe Verschmutzungen mit einem fusselfarbenen Einwegluch-Papiertuch von den Instrumenten direkt nach der Anwendung. Verwenden Sie keine Frischmittel oder heisses Wasser (>40°C), da dies zur Färbung von Rückständen führt und den Reinigungsprozess beeinträchtigen kann. Um ein Anhaften von Kontaminationen zu vermeiden, sollten die benutzten Instrumente in einem Desinfektionsbad eingeweicht werden.
- Können die Geräte nicht sofort nach Gebrauch aufbereitet werden, empfiehlt der Hersteller die Verwendung einer enzymatischen Aufbereitungslösung wie Ruhof Prepzyme XF, um Rückstände feucht zu halten. Stellen Sie sicher, dass alle Oberflächen des Geräts, vollständig mit der Lösung bedeckt sind.

Einschulung und Transport

- Verpacken Sie die Geräte in einem geschlossenen, getrennten Behälter und transportieren Sie die Instrumente zum Aufbereitungsort, um SMOGs und Sölden an den Instrumenten sowie Umgebungverschmutzungen zu vermeiden.
- Es wird empfohlen, diese Instrumente so bald wie möglich nach dem Transport aufzubereiten.
- Es muss darauf geachtet werden, dass während der Befragung unmerkliche Kontaminationen der Umgebung verhindert werden. Befolgen Sie die vom Krankenhaus/der Einrichtung genehmigten Verfahren und setzen Sie geschultes Personal für den Transport kontaminierter Geräte ein.

Vorbereitung im Verarbeitungsbetrieb

- Vorbereitung auf die Dekontamination
- Keine besonderen Anforderungen.

Vorbereiten vor der Reinigung

- Halten Sie die Arbeitenden zur Reinigung offen.
- Sicherstellung, dass das Personal, das die Geräte bearbeitet, aufgrund ihrer empfindlichen Beschaffenheit in der Handhabung der Geräte geschult ist.
- Spülen Sie die Enzymzubereitungslösung mit reinem Wasser (<40°C) ab.

Manuelle Reinigung/Desinfektion

Reinigung: Manuell

- Ausstattung: pH-neutrales Reinigungsmittel (das ideale Reinigungsmittel ist nicht schaumend, schaumarm und freisäuernd), CE-genehmigte Bürste mit weichen Borsten, reines fließendes Wasser, CE-genehmigtes Instrumentenloch, krankenhaushygienegeeignetes Seidenpapier, Heißlufttrockner, Trockenschrank oder Luftpistole.

1. Grobe Verschmutzungen vom Instrument abspülen.
2. Örtliche Verschmutzungen, die sich während des Gebrauchs angesammelt haben, mit einer weichen, nichtfaserigen Instrumentenreinigungsbürste und einer Lösung aus mildem Reinigungsmittel und sterilem gereinigtem Wasser vom Instrument entfernen. Tragen Sie die Reinigungslösung mit der Bürste auf alle Oberflächen auf und achten Sie darauf, dass die mit Schmierern versehenen Instrumente sowohl in geöffneten als auch in geschlossenen Position gereinigt werden.

- Verwenden Sie bei der manuellen Reinigung niemals Stahlwolle, Drahtbürsten, Stahlpfählchen oder stark abrasive Reinigungsmittel, um Schutz vor zahnärztlichen Instrumenten zu entfernen. Diese beschädigen die Oberfläche der Instrumente und führen zu Korrosion. Verwenden Sie eine saubere Bürste mit weichen Borsten, um Instrumente mit einem zugänglichen Kanal zu reinigen.

3. Spülen Sie die Instrumente gründlich mit sterilem, gereinigtem Wasser, bis sie frei von Reinigungsmittelrückständen und Ablagerungen sind.
- Halten Sie bei der Reinigung stets an die bewährten Krankenhauspraxis (das empfohlene Verfahren und Befolgen Sie die Gebrauchsanweisungen des Reinigungsmittelherstellers für Konzentration, Temperatur und Einwirkzeit. Überprüfen Sie die Instrumente auf ein gutes Reinigungsergebnis und wiederholen Sie das Verfahren, wenn notwendig. Die beste Wirkung wird erzielt, wenn die Instrumente unmittelbar nach jeder Anwendung gereinigt und abgespült werden.

Desinfektion: Manuell

Die Instrumente sollten mit der empfohlenen Desinfektionslösung (RKI- und VAH-gelistetes Desinfektionsmittel) desinfiziert werden, wobei darauf zu achten ist, dass kein Kontakt zwischen den Instrumenten besteht. Achten Sie auf die korrekte Dosierung und Einwirkzeit gemäß der Gebrauchsanweisung des Desinfektionsmittelherstellers. Es muss gewährleistet sein, dass das Desinfektionsmittel alle Bereiche des zu desinfizierenden Geräts erreicht (Teile im Desinfektionsbad bewegen und verdeckte Flächen mit einer Spritze - ohne Kanäle - mit dem Desinfektionsmittel absprühen). Eine Überdosierung der Reinigungs-/Desinfektionslösung ist zu vermeiden. Anschließend die Instrumente gründlich mit Wasser abspülen.

Manuelle Trocknung

Vor der Sterilisation mit fusselfarbenen sterilen Tüchern gründlich trocknen. Zur Unterstützung des Trocknungsprozesses kann medizinische, sterile, ölfreie Druckluft verwendet werden, um Wasserreste in den Hohlräumen so weit wie möglich zu entfernen. Stellen Sie sicher, dass alle Instrumente gründlich getrocknet werden sind, bevor sie gelagert werden.

Automatisierte Reinigung

Automatischer Reinigungs-/Desinfektionsprozess

- Empfohlene Ausrüstung: CE-genehmigte Aufbereitungschalen geeigneter Größe, CE-genehmigtes und validiertes Reinigungs-/Desinfektionsgerät nach EN ISO 19833, CE-genehmigtes enzymatisches oder alkalisches Reinigungsmittel (das flüssig, schwach schäumend, frei alkalisch, nicht schaumend und biologisch abbaubar ist).
- Die Reinigungsmittel dürfen keine künstlichen Farbstoffe, opifischen Aufheller, Parfümstoffe, Halogenide in einer Konzentration von mehr als 120 mg/l, fettartige Seifen, Glycolen oder Lantoln enthalten oder ölige Rückstände hinterlassen.

1. Erstspülung/Vorwäsche: mit kaltem, gefiltertem Wasser: - 1 Min., Temp. < 40°C
2. Entleeren
3. Wiederholtes Vorspülen mit kaltem Wasser: 3 Min. (Temp. < 40°C)
4. Entleeren
5. Reinigungsmittelwäsche, d.h. Reinigung mit 0,5% alkalischem Reinigungsmittel: 5 Min. bei 55°C
6. Entleeren
7. Neutralisieren mit warmem Wasser: ca. 40°C, 3 Min., Neutralisationsmittel
8. Entleeren
9. Spülen mit entsäuerndem Wasser: 3 Min. Temp. ca. 40°C
10. Entleeren
11. Thermische Desinfektion: > 90° C für 5 min.
12. Trocknung mit 15-25 min. bei 90 - 110°C

Das Programm des WD muss eine angemessene Trocknungsphase beinhalten. Wenn die Trocknung im Rahmen eines Reinigungs- und Desinfektionszyklus erfolgt, dürfen 120°C nicht überschritten werden. 13. Öffnen Sie das Gerät und lassen Sie den restlichen Wasserdampf entweichen. Nehmen Sie das Produkt nach Programmende und Abkühlung auf Raumtemperatur aus dem WD. Falls erforderlich, lassen Sie das Produkt zusätzlich mit Druckluft aus, bis es vollständig trocken ist.

Schmiermittel

Wartung, Inspektion und Prüfung

- Tragen Sie eine kleine Menge Schmieröl in chirurgischer Qualität auf die Scharniere auf. Stumpfe oder beschädigte Instrumente entsorgen.
- Nach der Reinigung immer mit einem handelsüblichen wasserlöslichen Instrumentenschmiermittel schmieren.
- Sofern nicht anders angegeben, sollten die Instrumente vor der Inbetriebnahme inspiziert, gereinigt, gespült und (falls erforderlich) geschmiert werden.

Inspektion und Funktionsprüfung

- Instrumente mit Scharnier: Prüfen Sie die Leichtigkeit des Scharniers ohne übermäßiges "Spiel".
- Prüfen Sie das Instrument vor dem Gebrauch visuell auf verbogene, getrocknete, gerissene, abgenutzte oder fehlende Komponenten.
- Die Kanten und die Oberfläche müssen frei von Kerben sein.
- Verwenden Sie das Instrument nicht, wenn es beschädigt oder defekt ist. Schürfen, warten oder ersetzen Sie die Instrumente, falls erforderlich. Wenn die Instrumente immer noch verschmutzt sind, wiederholen Sie die Reinigungs- und Desinfektionsverfahren.
- Nach der manuellen Reinigung/Desinfektion die sichtbaren Oberflächen visuell auf Rückstände prüfen.

Verpackung:

- Verpacken Sie die gewarteten und gereinigten Instrumente für die Sterilisation. Es kann ein Standard-Sterilbarriersystem verwendet werden.
- Standardverpackung von Instrumenten für die Sterilisation nach ISO 11907 und EN 888.
- Stellen Sie sicher, dass die Verpackung groß genug ist, um das Instrument vollständig aufzunehmen, ohne die Dichtungen zu belasten. Bei bestimmungsgemäßem Gebrauch benötigen diese Instrumente keine äußere Umhüllung oder zusätzlichen Schutz.
- Achten Sie bei der Sterilisation von wiederverwendbaren Instrumenten in einem Autoklavzyklus darauf, dass die maximale Beladung des Sterilisators nicht überschritten wird.
- Verwenden Sie immer Schutzkappen für die Verpackungslagerung von sauberen Instrumenten, falls erforderlich.
- Packen Sie Instrumente niemals unvorsichtig mit anderen, schweren Instrumenten zusammen. Denken Sie immer daran - schwere Instrumente nach unten und leichte Instrumente nach oben.
- **Dampfsterilisation (Autoklav) von Instrumenten:**
 - 3 Vor-Vakuum-Phasen
 - Erhitzen bis zu einer Sterilisationstemperatur von 134°C
 - Außerdem wird empfohlen, dass die Sterilisationstemperatur 280 F (137°C) nicht überschreiten sollte.
 - Kürzeste Halbzzeit: 5 min
 - Trocknungszeit: mindestens 20 Minuten

Anmerkung:

Achten Sie auf die Dampfqualität gemäß EN 280! Die Trocknungszeiten können aufgrund von Unterschieden bei den Verpackungsmaterialien (z. B. Versiummhalten), den Umgebungsbedingungen, der Dampfqualität, den Getriebeleistungen, der Geometrie, der Leistung des Sterilisators und der unterschiedlichen Abkühlzeit sehr unterschiedlich sein. Der Anwender sollte nachprüfbar Methoden (z. B. Sichtkontrolle) anwenden, um eine angemessene Trocknung zu bestätigen. Befolgen Sie stets die empfohlenen Gesundheits- und Sicherheitsverfahren der örtlichen Behörden und die gesetzlichen Vorschriften für die Sterilisation von Instrumenten.

Sterilisation

In Sie: Die Instrumente können in spezielle Instrumentenstöße oder Altbred-Sterilisationsstöße geladen werden. Achten Sie darauf, dass die Scharniere geschützt sind, und überschreiten Sie nicht das zulässige Gewicht pro Stöße. Die Seite mit einer geeigneten Methode verpacken.

Lagerung

- Lagern Sie das verpackte Produkt an einem trockenen / sauberen Ort und in einer staubfreien Umgebung unter moderaten Bedingungen gemäß den besten Praktiken des Krankenhauses, damit das Produkt sauber, trocken und einsetzbar bleibt.
- Lagern Sie das sterile Produkt vorzugsweise in einem sauberen, staubfreien und trockenen Sterilbehälter.
- Die Produkte sind vor mechanischer Beschädigung zu schützen.
- Die Produkte müssen in saubere Behälter/Verpackungseinheiten gelagert und transportiert werden.
- Vor direktem Licht schützen.
- Sterilbehälter in einer sauberen und trockenen Umgebung mit kontrollierter Luftfeuchtigkeit bei Raumtemperatur lagern.
- Auf die notwendige Trennung zwischen sterilen und nicht sterilen Verpackungen achten.
- Prüfen Sie vor der Verwendung der gelagerten Instrumente stets die Umvertheilung der Etiketten, Indikatoren und Verpackungen.
- Sterilisationsmittel nicht in der Nähe von aggressiven Substanzen (z. B. Alkohole, Säuren, Basen, Lösungsmittel und Desinfektionsmittel) lagern.
- Die Sterilverpackung der Instrumente ist zu überprüfen vor dem Öffnen, um sicherzustellen, dass sie unbeschädigt sind.
- Für die Sterilisation sowie für den Transport und die Lagerung der Instrumente nach der Sterilisation sind geeignete und empfohlene Sterilisationsbehälter zu verwenden (z.B. siehe nach DIN EN 888, ISO 11907).
- Beachten Sie auch Ihre internen Lagerungsvorschriften für Sterilbehälter.

Kalibration

Die Produkte müssen nicht kalibriert werden.

Entsorgung

Keine besondere Entsorgung oder Entsorgung für die entsprechenden Produkte erforderlich, da sie keine giftigen oder gefährlichen Stoffe enthalten; bei der Weiterverwertung medizinischer Geräte beachten Sie bitte die örtlichen Gesundheits- und Sicherheitsvorschriften und gesetzlichen Bestimmungen.

Garantie

Für dieses Produkt wird garantiert, dass es frei von Material- und Verarbeitungsfehlern ist. Die Garantie erlischt, wenn das Produkt durch ungeschießliche Handhabung oder falschen Gebrauch beschädigt wird. Modifikationen am Gerät können ebenfalls zum Verlust der Garantie des Garantieanspruchs führen. Bei der Verwendung und Handhabung dieses Produkts ist Vorsicht geboten.

Rückgabe

Im Falle einer Beschädigung oder eines Defekts senden Sie die Ware bitte in der gleichen Verpackung und mit der gleichen Ereignisbeschreibung an den Lieferanten zurück.

Fehlerhafte Geräte

Wenn das Produkt eines der oben genannten Qualitätsprüfkriterien nicht erfüllt, sollte es ausgedeutet, entsprechend gekennzeichnet und dekontaminiert werden. Es sollte dem entweder zur Reparatur im den Hersteller zurückgeschickt werden, zusammen mit der unterzeichneten Dekontaminationsbescheinigung, oder gemäß dem Krankenhaus genehmigten Verfahren entsorgt werden, z. B. über den Behälter für scharfe Gegenstände oder klinische Abfälle.

Schwerer Vorfall

Meldung an den Hersteller / Bevollmächtigten und die zuständige Behörde des Mitgliedstaats, in dem der Anwendung und/oder Patient benachteiligt ist, über jeden schwerwiegenden Vorfall, der im Zusammenhang mit dem Produkt aufgetreten ist.

Komplikationen

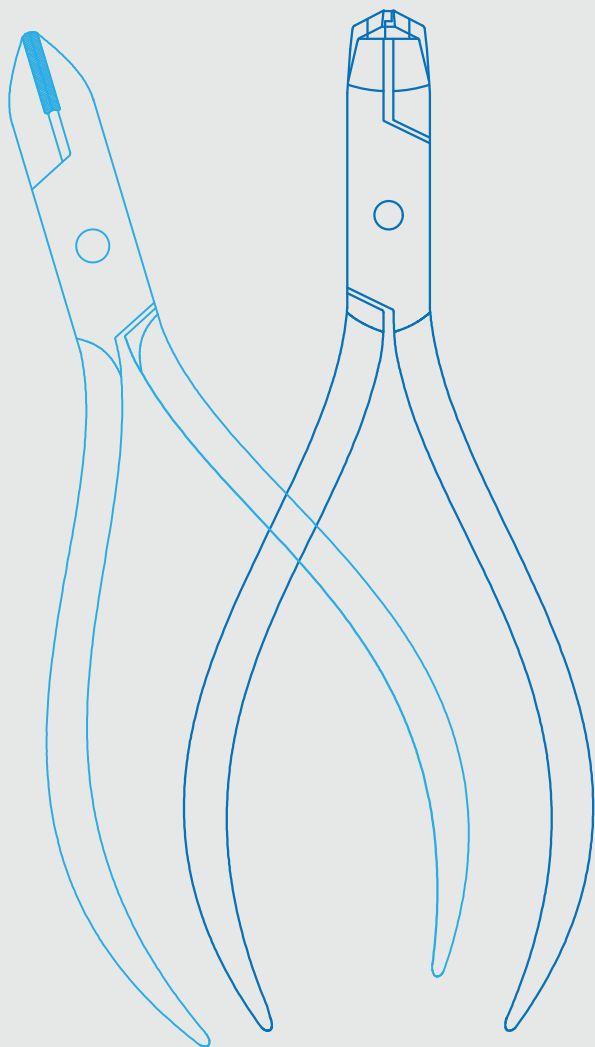
Die Komplikationen im Zusammenhang mit der Verwendung von Instrumenten hängen von dem angewandten Verfahren ab, es werden keine Komplikationen mit Instrumenten in Verbindung gebracht.


Legende

UDI LIC: D934
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RANGEX H.Q ROAD CANT, SGT-KP

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Germany
Tel.: + 49 (0)411 68308 6040
Email: info@lemedinst.com
Website: www.lemedinst.com
Importer SRN DE-IM-000017840

EC REP	Hersteller	REF	Katalog Nummer
EC REP	EU Bevollmächtigter Vertreter	PK	Herstellungsdatum mit Ländercode (PakStanz)
SN	Seriennummer	Haltbarkeitsdatum	Gebrauchsanweisung beachten
134°C 111	Instrumente sind nicht sterilisiert	QTY	Anzahl der enthaltenen Teile
134°C 111	Das Instrument ist in der Dampfsterilisation (Autoklav) sterilisierbar	LOT	Chargencode
134°C 111	Zerbrechen! mit Vorsicht zu behandeln	Temperaturbeschränkungen:	Transport und Lagerung zwischen 5°C und 40°C
134°C 111	Vom Sonnenlicht fernhalten	%	Begrenzte Luftfeuchtigkeit: Transport und Lagerung zwischen 40% RH und 70% RH
134°C 111	Trocken halten	CE	Das Produkt entspricht den in Europa geltenden gesetzlichen Anforderungen für Medizinprodukte
134°C 111	Achtung, Begleiddokumente beachten	CE	
134°C 111	Latexfrei		



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