

**Leone**

**ORTHODONTICS**

30<sup>th</sup> EDITION



# ORTHODONTICS

## PRODUCT CATALOGUE

30<sup>th</sup> Italian edition  
15<sup>th</sup> English edition

2021



**LEONE S.p.a.**

Orthodontics and Implantology

Via P. a Quaracchi, 50  
50019 Sesto Fiorentino  
Firenze ITALY  
Phone +39.0553044620  
Fax +39.055304405  
info@leone.it  
**www.leone.it**



**LEONE S.p.a.**

A historic company in the Italian business environment, Leone helped lay the foundations for the birth of modern dentistry almost a century ago. The Group is now made up of realities with a strong vocation for innovation and with a relevant international profile. During the last five years, Leone has moved on to digitization strategies with the design of innovative series of digital-ready products in line with the vision of the company, thus stimulating the modernization of the orthodontic and dental implant sector.



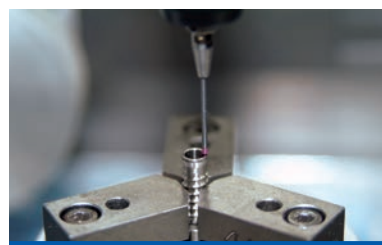
RESEARCH

Most of the remarkable investments of the company are reserved to the Centre for Biotechnological Research "Marco Pozzi", which is located inside the company. Studies on materials, surfaces and technical analysis for new products are carried out here. The collaboration with either Italian or foreign Universities and the Faculties of Engineering and Medicine and Surgery in Florence is very close. Training stages and scientific research are developed for the preparation of graduation thesis.



PRODUCTION

Engineers, mechanical and technical experts are making part of the manufacturing staff. Working side by side with the Centre for Biotechnological Research "Marco Pozzi" and making use of the most advanced technology, they are able to carry out the components of the two product ranges: orthodontics and implantology. All the innovations introduced in the production steps and the features of finished products are the result of consistent and in-depth studies as well as of remarkable investments.



QUALITY  
PRODUCT CONTROL

The high quality of Leone production is the result of sophisticated manufacturing processes and accurate quality control in compliance with UNI EN ISO 9001, ISO 13485 and ISO 13485 MDSAP international regulations for regulatory requisitions in Australia, Brazil, Canada, Japan and USA.



TECHNICAL AND COMMERCIAL ASSISTANCE

Contact your dealer in your country as a reference. You will find the comprehensive list under the section "distributors" in our website [www.leone.it](http://www.leone.it)



CUSTOMER  
SERVICE

Leone is working non stop to satisfy the customer's expectations and is represented with dealers in 60 countries. A careful pre-sale and post-sale customer assistance is provided by qualified technical and commercial staff to meet any requirement.



WAREHOUSE

Finished and semi-finished products are stocked and organized by vertical lift automatic cabinets allowing a rationalization of the space and a fully computer based processing of the orders. Standard orders are shipped within 24 hours in Italy and 5-6 working days in the foreign country.



EDUCATION  
TRAINING  
UPGRADE

Equipped with every multimedia device, the facility of 1000 sq.m is entirely dedicated to lectures and to the spreading of new therapeutic techniques. Training course, live demonstrations and cultural events are being held for either Italian or foreign specialists.

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*In this catalogue you can find QR codes storing multimedia contents which can be downloaded directly on your smartphone. You can download free QR reader applications (e.g. [www.i-nigma.com](http://www.i-nigma.com)) except for the connecting charges. Videos are also available on our web-site: [www.leone.it/english/orthodontics](http://www.leone.it/english/orthodontics)*

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#### COMPETENCE AND RELIABILITY

The Leone dealers worldwide are under constant professional improvement thanks to the technical assistance received by engineers and technical experts at Leone to get specific information on the products and solve any eventual problems from the customers.

A	Expansion screws	pages 5-40
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# EXPANSION SCREWS



A

# POP® EXPANSION SCREWS

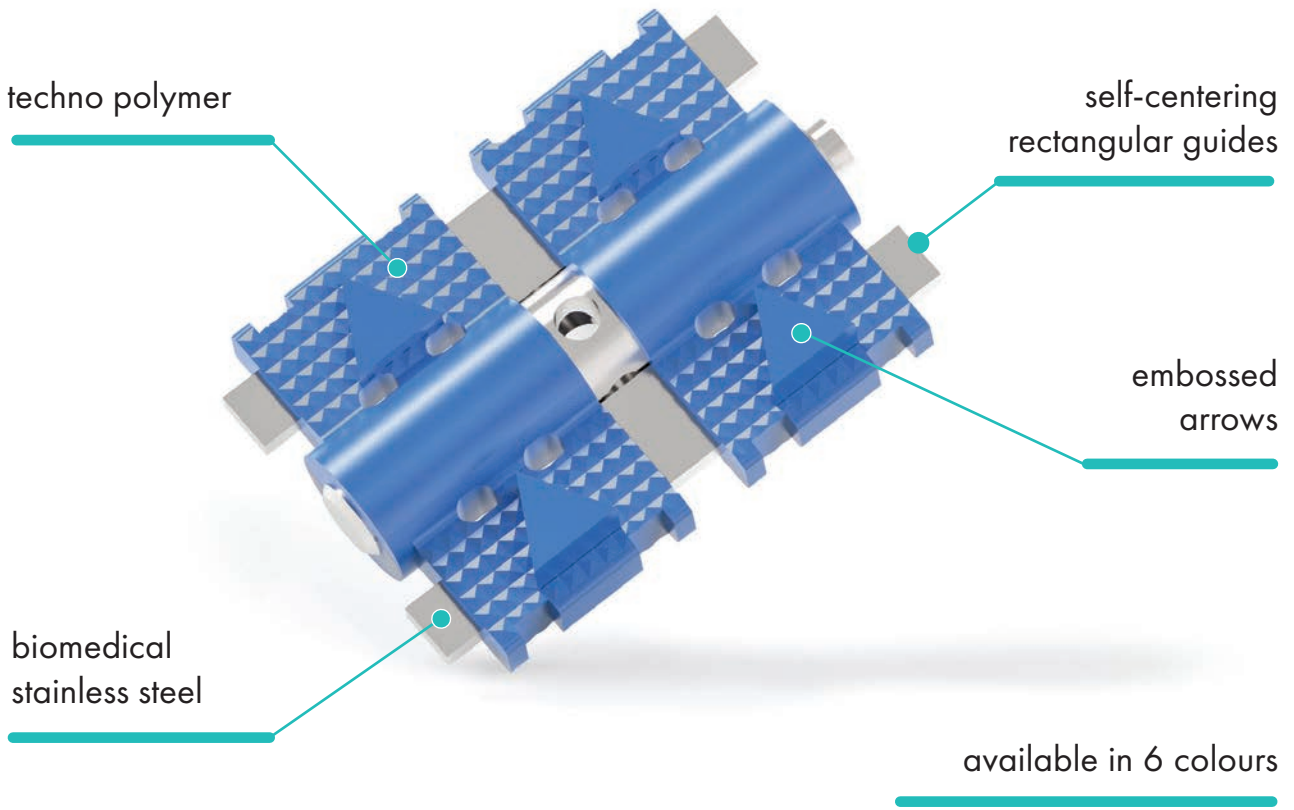
## PERFECT ORTHODONTIC PERFORMANCE



# POP!

Perfect Orthodontic Performance

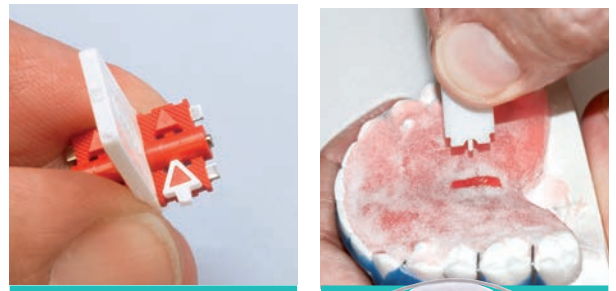
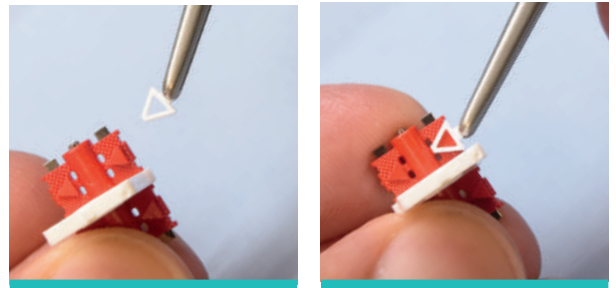
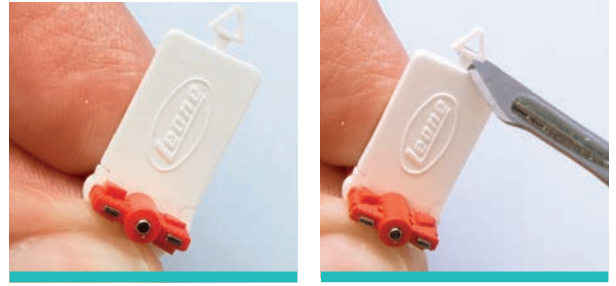
The innovative and biomechanical  
orthodontic expansion screw\*



- Made of stainless steel and biomedical techno polymer.
- The male screw is not in contact with the orthodontic acrylic resin: the function of the screw will not be influenced by the quality of the technical procedure and a non-compliant curing time.
- Continuous expansion movement: the high pressure injection of the polymer allows the perfect copy of the male thread of the screw thus ensuring a steady expansion transmission without the risk of undesired turning back in the mouth.
- The self-centering rectangular guides ensure a biomechanical and absolutely controlled symmetrical expansion.
- The flat shape of the guides and their flexibility allow the gradual release of the expansion with a physiological orthodontic movement.

\*PATENTED

- The flexibility of the screw allows the adjustments of any dental regress due to inconsistent use of the appliance by the patient, thus being very effective with holding devices following a rapid expansion treatment.
- The high adaptability of the appliance enables a comfortable application in the mouth in the days following re-activation.
- Two embossed arrows on the body indicate the direction of opening. When using a color of acrylic resin similar to the polymer body, a white arrow provided with the plastic placement tab may be easily applied to make the direction of activation visible.
- The placement plastic tab, made of two pieces combined with a unique geometry, allows a perfect protection of the holes from the acrylic resin during the packing procedure and facilitates the removal after the curing cycle.
- The screw body is available in 6 colours.



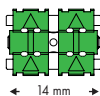


# POP<sup>®</sup> expansion screws

## Perfect Orthodontic Performance



### POP<sup>®</sup> SCREW FOR UPPER ARCH



0,8 mm

9 mm

**new**

yellow

orange

red

green

silver

blue



A4805-14G

A4805-14E

A4805-14R

A4805-14V

A4805-14T

A4805-14A

10

A4805-54G

A4805-54E

A4805-54R

A4805-54V

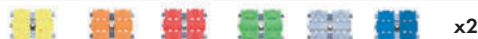
A4805-54T

A4805-54A

50



assorted colours



A4805-90

12

assorted colours

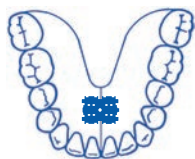


A4805-60

60



### POP<sup>®</sup> SCREW UNIVERSAL



0,7 mm

8 mm

**new**

yellow

orange

red

green

silver

blue



A4800-12G

A4800-12E

A4800-12R

A4800-12V

A4800-12T

A4800-12A

10

A4800-52G

A4800-52E

A4800-52R

A4800-52V

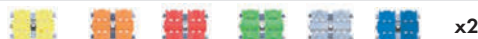
A4800-52T

A4800-52A

50



assorted colours



A4800-90

12

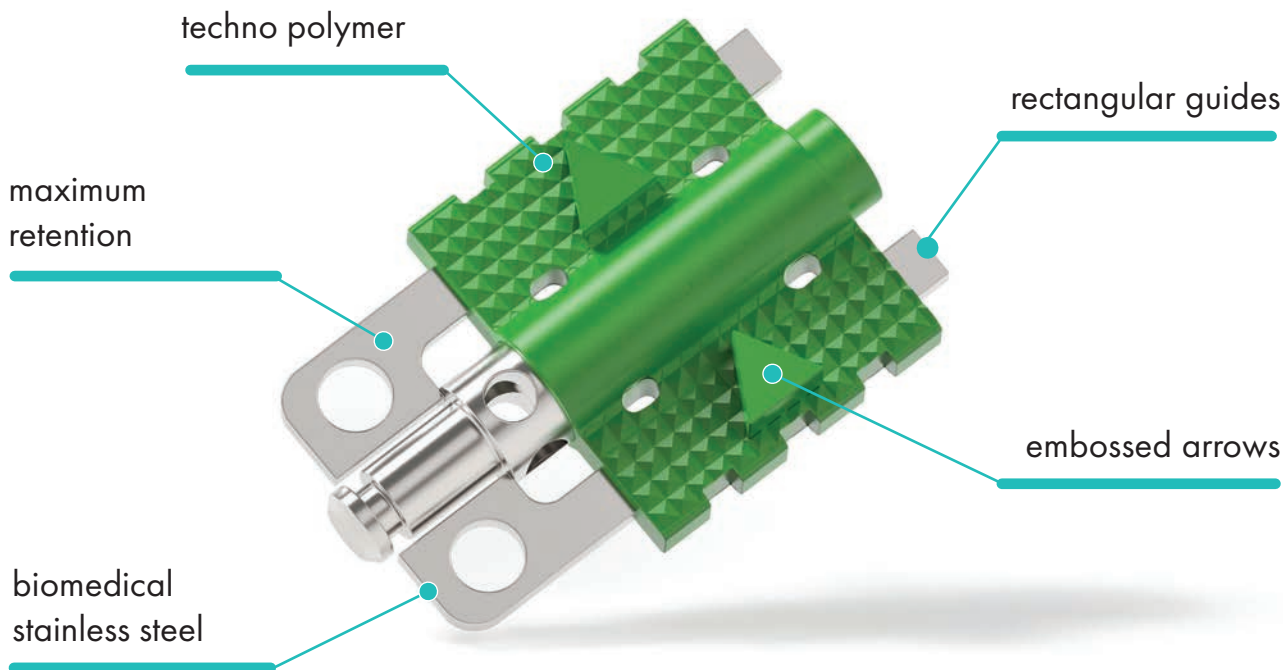
assorted colours



A4800-60

60





available in 6 colours

- The new **POP<sup>®</sup> MICRO SECTIONAL SCREW** is added to the already known POP SCREW range to increase the therapeutic chances.
- Made of stainless steel and biomedical techno polymer.
- The male screw is not in contact with the orthodontic acrylic resin: its functionability will not be influenced by the quality of the technical procedure and/or of non-compliant curing time.
- Continuous expansion movement: the high pressure injection of the polymer allows the perfect copy of the male screw thread thus ensuring a steady expansion transmission without the risk of undesired turning back into the mouth.
- The flat shape of the guides and their flexibility allow a more gradual deliver of the expansion forces for a physiological orthodontic movement.
- The metallic anchorage side of the screw has two through-holes in order to increase retention into the acrylic.
- The flexibility of the screw could compensate slight relapse due to inconsistent use of the appliance by the patient.

# POP® Micro sectional screw



- The high adaptability of the appliance enables a comfortable application into the mouth even in the days following re-activation.
- Two embossed arrows on the body indicate the direction of opening. When using a color of acrylic resin similar to the polymer body, a white arrow provided with the plastic placement tab may be easily snapped on to make the direction of activation more visible.
- Available in 6 colors.

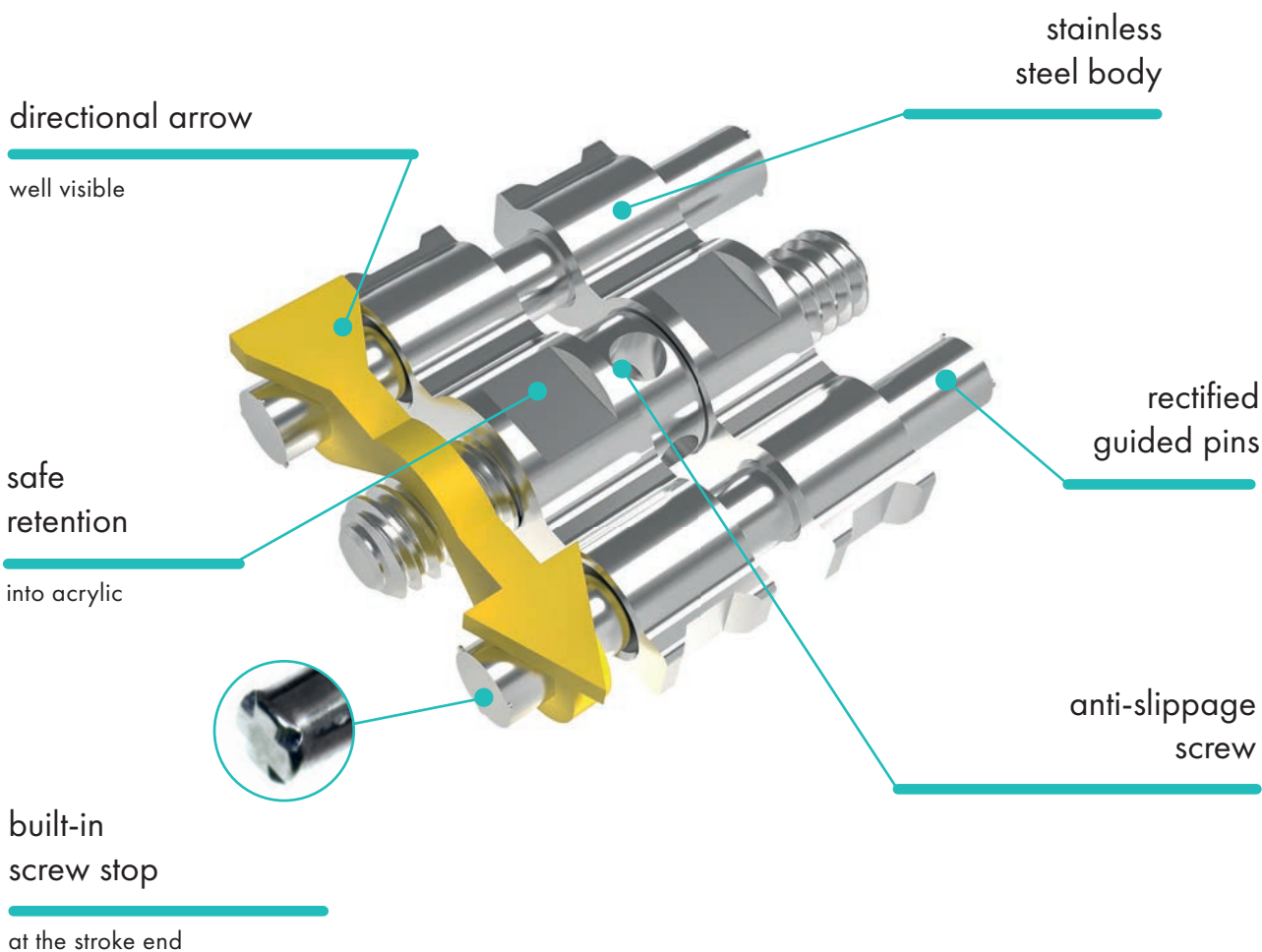


## **new** POP® MICRO SECTIONAL SCREW

						↻	↔	pkg.	
yellow	orange	red	green	silver	blue				
A4801-00G	A4801-00E	A4801-00R	A4801-00V	A4801-00T	A4801-00A			10	
assorted colours							x2	A4801-90	12



The Leone expansion screws for removable orthodontic appliances derive from 80 years of extensive research, design and millions of clinical cases. The entire production process takes place in Italy with computer aided automated machines. The screws are made of biomedical stainless steel of the highest quality and male screw threads with centesimal tolerances and total absence of surface roughness. The bodies and the guides are made with tolerances of  $\pm 0.01$  mm which ensure stability and precision. The wide range available allows the production of any type of removable device.



## STANDARD SCREW FOR UPPER APPLIANCES

								pkg.	
				0,8 mm	7 mm	A0805-111	1		
						A0805-11	10		
				0,8 mm	9 mm	A0805-95	100		
						A0805-141	1		
						A0805-14	10		
						A0805-96	100		

## MEDIUM SCREW

								pkg.
				0,8 mm	7 mm	A0803-11	10	
						A0803-95	100	
				0,8 mm	9 mm	A0803-14	10	
						A0803-96	100	

## UNIVERSAL SCREW

								pkg.
				0,7 mm	6 mm	A0800-10	10	
						A0800-95	100	
				0,7 mm	8 mm	A0800-12	10	
						A0800-96	100	

## SUPER MICRO SCREW

								pkg.
				0,7 mm	6 mm	A0890-111	1	
						A0890-11	10	
						A0890-95	100	

## SUPER MICRO SECTIONAL SCREW



				pkg.
		0,35 mm	3 mm	<b>A0891-09</b> 10
← 9 mm →	↑ 2,5 mm ↓ 4,6 mm			<b>A0891-95</b> 100
		0,35 mm	3 mm	<b>A0891-10</b> 10
← 10 mm →	↑ 2,5 mm ↓ 4,6 mm			<b>A0891-96</b> 100



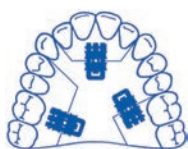
## MICRO SECTIONAL SCREW WITH BENT U-SHAPED GUIDE PIN



				pkg.
		0,4 mm	4 mm	<b>A0802-00</b> 10
← 13 mm →	↑ 3 mm ↓ 7,25 mm			<b>A0802-95</b> 100
		0,4 mm	4 mm	<b>A0802-13</b> 10
← 13 mm →	↑ 3 mm ↓ 7,25 mm			<b>A0802-96</b> 100



## MICRO SECTIONAL SCREW WITH STRAIGHT U-SHAPED GUIDE PIN



				pkg.
		0,4 mm	4 mm	<b>A0801-12</b> 10
← 12 mm →	↑ 3 mm ↓ 7,25 mm			<b>A0801-96</b> 100
		0,4 mm	6 mm	<b>A0801-13</b> 10
← 14 mm →	↑ 3 mm ↓ 7,25 mm			<b>A0801-98</b> 100
		0,4 mm	4 mm	<b>A0801-14</b> 10
← 14 mm →	↑ 3 mm ↓ 7,25 mm			<b>A0801-97</b> 100



## MICRO SECTIONAL SCREW



				pkg.
		0,4 mm	4 mm	<b>A0801-10</b> 10
← 10 mm →	↑ 3 mm ↓ 7,25 mm			<b>A0801-95</b> 100
		0,4 mm	6 mm	<b>A0801-00</b> 10
← 12 mm →	↑ 3 mm ↓ 7,25 mm			<b>A0801-99</b> 100

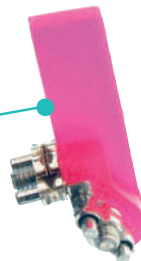
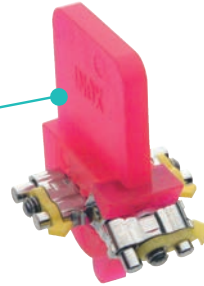


# SPECIAL PURPOSE EXPANSION SCREWS



The assortment of special expansion screws proposed by Leone derives from over 30 year experience in the manufacture of expansion screws. The screw selection ranges from the Pagani classical fan-type screw, to the Bertoni three directional ones up to the kit for the construction of the Twin Wing class II corrector.

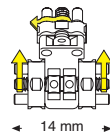
The special purpose expansion screws are made of biomedical stainless steel with a mechanical tolerance superior to 1/100 mm. The thread parts are absolutely smooth and they ensure great sturdiness, good friction and prevent from any unwanted turning back.



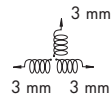
## THREE DIRECTIONAL SCREW ANATOMICAL



3 activation points

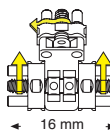


0,4 mm

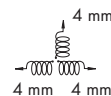


A0930-14 1

A0930-93 5



0,4 mm

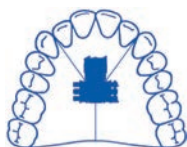


A0930-16 1

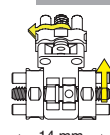
A0930-94 5



## THREE DIRECTIONAL SCREW ANATOMICAL

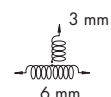


2 activation points



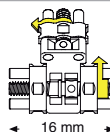
0,4 mm protrusive

0,8 mm transversal



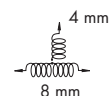
A0931-14 1

A0931-93 5



0,4 mm protrusive

0,8 mm transversal



A0931-16 1

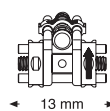
A0931-94 5



## THREE DIRECTIONAL SCREW ANATOMICAL FOR LOWER ARCH

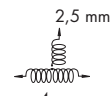


2 activation points



0,4 mm protrusive

0,8 mm transversal

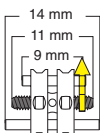


A0932-13 1

A0932-93 5



## TRAPEZOIDAL SCREW



0,8 mm

5 mm

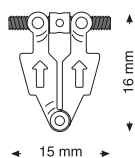
A0813-00 10

A0813-95 100





## FAN-TYPE SCREW



0,8 mm 9 mm

A0515-14	1
A0515-95	100



## ASYMMETRIC FAN-TYPE SCREW

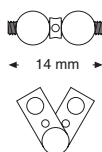
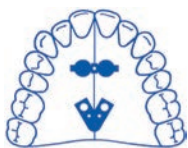


0,8 mm 9 mm

A0516-14	1
A0516-95	100



## FAN-TYPE SCREW 2 PIECES

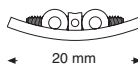


0,8 mm 9 mm

A0815-14	1
A0815-95	100



## MANDIBULAR BOW SCREW

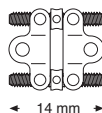


0,8 mm 5 mm

A0517-25	1
A0517-95	100



## BI-FAN-TYPE SCREW



0,8 mm 9 mm

A0518-14	1
A0518-95	100



## TWIN WING <sup>new</sup>

### CLASS II CORRECTOR KIT



**A0840-05** 1 appliance

Thanks to our experience gained with MAD appliance and based on the fundamentals of the most widely used orthodontic appliance for the treatment of Class II patients with mandibular retraction, we have miniaturized and reengineered the Forward! to manufacture the Twin Wing.

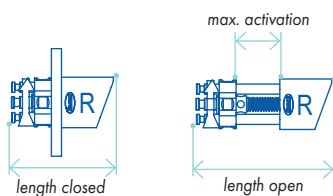
The kit, especially designed for the realization of this innovative appliance, contains all the components for an easier and more precise construction.

The appliance, thanks to the 70° inclination between the upper screws and the lower wings, scientifically and clinically proven as the most efficient for the stimulation of the mandibular growth, allows the millimetric advancement of the lower jaw.

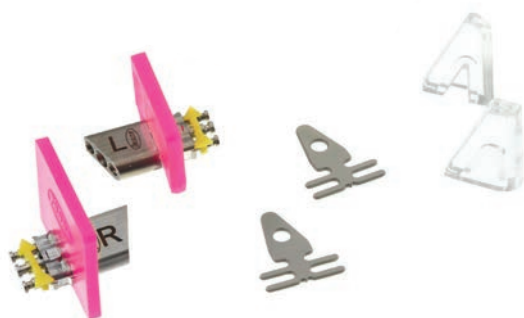
Moreover, in case of deep bite, since the occlusal surface can be kept free from the presence of block, it is possible to exclude some teeth from the contact with the acrylic, promoting a guided extrusion and consequently the resolution of vertical problems.

The kit for the construction of 1 appliance is made up of:

- 2 upper screws, 1 right and 1 left
- 2 lower wings with steel frame, 1 right and 1 left



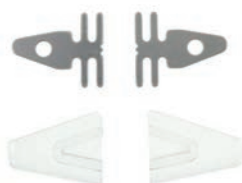
length closed	length open	max. activation	4 activations
15 mm	20 mm	5 mm	0,4 mm



#### REFILLS FOR TWIN WING

##### A0841-00

Lower wings with inner steel frame



##### Pack content:

- 1 lower right wing with steel frame
- 1 lower left wing with steel frame

Leone palatal expanders have been known worldwide for more than 50 years and are now the most complete range of expanders in the market. The 620 series is a superior product made in various dimensions with many advanced features including laser welding of the extension arms into the body of the expander for greater strength and stability.

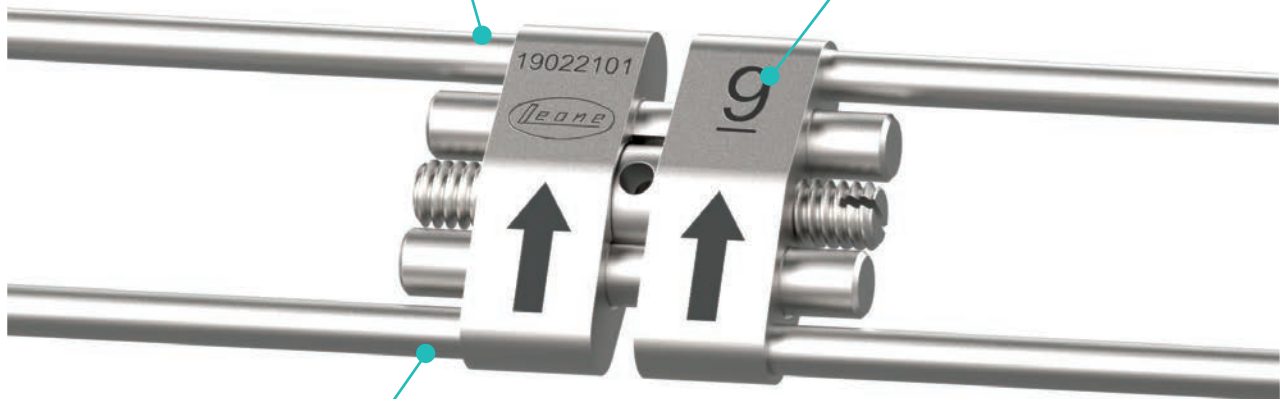
The automated manufacturing process and quality control with the highest standards allow us to confidently say that we are offering the best palatal expanders in the world today.

laser welding of  
the extension arms

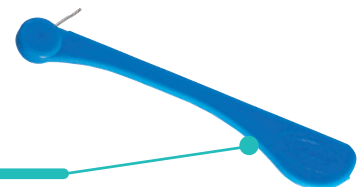
into the screw's body

laser-etched

- expansion limit
- directional arrow
- lot number

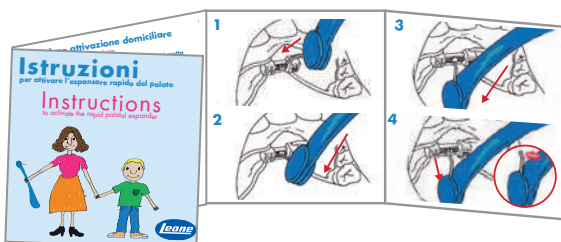


made entirely of  
biomedical  
stainless steel



swivel key

also available with  
activation turn counter



instructions for  
use of expanders

useful for parents and doctor



## RAPID EXPANDER

The best-selling palatal expander in the world

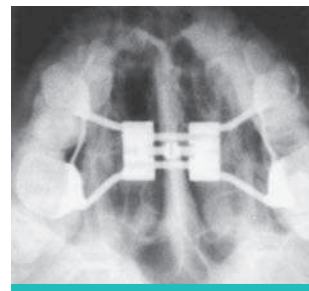
Made entirely of biomedical stainless steel. The housing design is completely smooth, with no rough areas for a secure hygiene. The expander limit, a directional arrow and the lot number are laser etched into the surface of the expander body. Supplied with a swivel key with handle and instructions for use to facilitate the patient endoral activation.

The arm bending and self-locking instrument REF P0620-00 (page 35) is also available.

Pack of 1



Swivel key included in the package



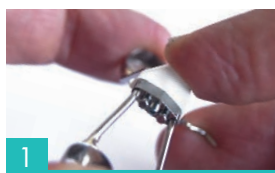
	11 mm	4 mm	∅ arms	↔ body	↻	activation turns for maximum expansion limit	
			1,5 mm	12 mm	8 mm	0,8 mm	35
			1,5 mm	14 mm	9 mm	0,8 mm	40
			1,5 mm	16 mm	11 mm	0,8 mm	50
			1,5 mm	18 mm	13 mm	0,8 mm	60
			1,5 mm	20 mm	15 mm	0,8 mm	70

## A0600-00

### PROTECTIVE TAB\* FOR HAAS-STYLE PALATAL EXPANDER

Made of two parts it allows for safe and easy protection of the activation holes from resin for rapid expanders A0620 type and the realization of expanders with palatal acrylic plate.

Pack of 10



1 Unlock the expander with 1 activation hole and fit the bottom into the space between the two bodies, then lock the expander again.



2



3 Simply apply the upper part of the tab which is shaped to cover and protect the holes on screw's head from acrylic.



4 Once embedded into the acrylic plate, remove the top of the tab and, after cutting the resin, unlock the expander for some holes, and the rear part will also be easily removed.

\*PATENTED











## RAPID EXPANDER WITH PRE-BENT ARMS

Exactly the same as A0620 expander for all technical features and materials used, but designed with pre-bent arms to facilitate the work in the laboratory. The front arms are more inclined than the rear arms to allow the positioning of the expander's body in the most comfortable way for the patient with the best biomechanical results. Provided with one swivel key with handle and instructions for use to facilitate the patient endoral activation.

Pack of 1



Swivel key included in the package

 11 mm	 4 mm	 arms	 body	 8 mm	 0,8 mm	activation turns for maximum expansion limit
		1,5 mm	12 mm	8 mm	0,8 mm	35
		1,5 mm	14 mm	9 mm	0,8 mm	40
		1,5 mm	16 mm	11 mm	0,8 mm	50
		1,5 mm	18 mm	13 mm	0,8 mm	60

## RAPID EXPANDER WITH TELESCOPIC GUIDES\*



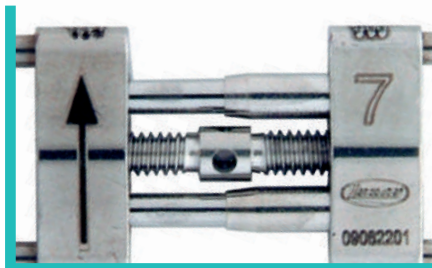
The innovative telescopic guides assure a constant friction throughout the expansion movement, a perfect stability and small sizes. It self deactivates when maximum expansion capacity has been achieved preventing from overtreatment. The 7 mm expander is ideal to treat very narrow palates. The expanders with 10 and 12 mm sizes feature a compact design for ease of arm bending and reducing the overall dimensions of the device. Supplied with a swivel key with handle and instructions for use to facilitate patient endoral activation. The arm bending and self-locking instrument REF P0620-00 (page 35) is also available.

**Pack of 1**



Swivel key included in the package

	11 mm	4 mm	arms	body			activation turns for maximum expansion limit
<b>A2620-07</b>			1,5 mm	11 mm	7 mm	0,8 mm	35
<b>A2620-10</b>			1,5 mm	14 mm	10 mm	0,8 mm	50
<b>A2620-12</b>			1,5 mm	16 mm	12 mm	0,8 mm	60



## telescopic guide pins\*

avoid the possibility of spontaneous deactivation in the mouth

\*INTERNATIONAL PATENT

## MICRO EXPANDER

Featured by a significantly smaller body bulk than other competing expanders.

It features two extra-long arms also performing support for anteriors and ensuring excellent stability and comfort for the patient.

The micro expander can also be used for the expansion of the lower jaw.

Provided with one swivel key with handle and instructions for use to facilitate the patient endoral activation.

The arm bending and self-locking instrument REF P0621-00 (page 35) is also available.

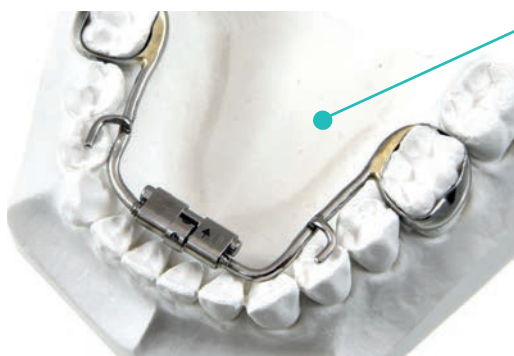
**Pack of 1**



Swivel key included in the package

lower arch expansion

arm length  
68 mm



- It can be positioned in the standard way, i.e. with the markings of the arrow and maximum expansion visible
- or it can also be positioned upside down with the two arrows visible, in case of very narrow palates, to minimize the bulkiness of the arms once they are bent.

	4,95 mm	4,05 mm	arms 1,5 mm	0,8 mm	body mm	activation turns for maximum expansion limit
<b>A0621-08</b>					12	8 35
<b>A0621-11</b>					16	11 50

## EASY ACCESS

### MICRO EXPANDER FOR PALATAL SUTURE



A1621 expander called "Easy Access" is comparable to the existing A0621, but once placed in the device, the body of the screw will remain closer to the palate with minimized overall dimensions; the head with activation holes remains in front position respect to the guide pin for easier activation with the key.

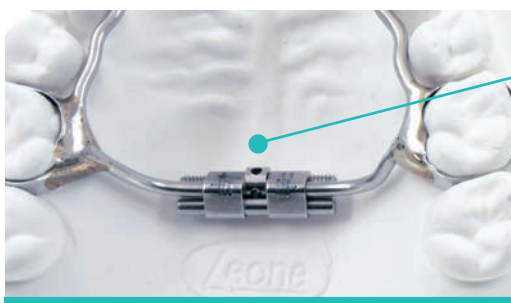
Provided with one swivel key with handle and instructions for use to facilitate the patient endoral activation.

The arm bending and self-locking instrument REF P0621-00 (page 35) is also available.

**Pack of 1**

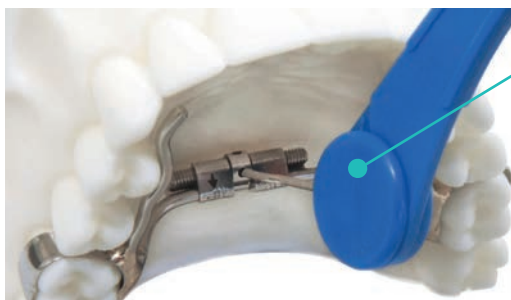


Swivel key included in the package



anterior position

holes of activation



easy access

for key activation

3 expansion value

for any therapeutic treatment

4,95 mm	4,05 mm	arms 1,5 mm	0,8 mm	body mm	activation turns for maximum expansion limit	
				12	8	35
				16	11	50
				18	13	60





## RAPID EXPANDER WITH ORTHOGONAL ARMS

The new Leone anatomical expander is the ideal solution for patients who need orthopedic maxillary expansion, as it allows the manufacture of devices with limited dimensions, maximum stability, comfort and safety. The small size of the body and the orthogonal arrangement of the bending arms allow an optimal positioning of the expander even in case of severe contraction and favor the biomechanical control of the expansion. The unique self-centering system of the guides ensures a symmetrical and stable expansion.

The package includes a swivel key with handle and instructions for use to facilitate the home endoral activation.

The arm bending and self-locking instrument REF P0630-00 (page 35) is also available.

**Pack of 1**

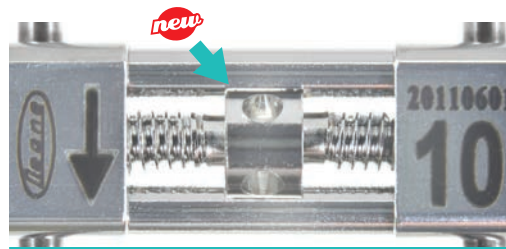


Swivel key included in the package



- The orthogonal position of the arms reduces the overall size of the device.
- The arms are placed within a through-hole into the body and the external laser welding make them to form an integral part of the expander, thus ensuring maximum safety and comfort for the patient.
- Compared to the previous version, the outer position of the arms inside the bodies works on further reducing the overall size and facilitates the adaptation of the expander by the technician.

- The presence of a special slot on the guide pins allows the head of the male screw to keep the guides centered throughout the treatment, ensuring a symmetrical, stable expansion and minimizing the possibility of spontaneous deactivation during therapy.



- Two different placements are possible thanks to the marking of the arrows on both sides of the screw.

- Available in three expansion capacities for every therapeutic need.

6 mm	4,5 mm	arms	body	arms	body	activation turns for maximum expansion limit
						40
						50
						60

## RAGNO FAN-TYPE RAPID EXPANDER AND MINI RAPID EXPANDER\*

Conceived with the cooperation of Dr. Eleonora Schellino and Prof. Remo Modica

Made entirely of biomedical stainless steel. The expanding arms are laser welded to the screw body. Laser engraved directional arrows on the **MIM**® body. It is a device for the rapid expansion of the palate that allows you to get a widening of the single anterior sector of the maxillary arch, still maintaining minimum the expansion in the posterior sector. It self-deactivates when maximum expansion capacity has been achieved preventing over-treatment. The difference between the two models is the geometric shape of the front part: A0625-07 is designed to be placed as high as possible in the palate vault thus ensuring the minimum bulkiness achievable. The overall size is approximately 20-25% less than the 9 mm version. Provided with one swivel key with handle and instructions for use to facilitate the patient endoral activation.

The arm bending and self-locking instruments REF P0625-09 for expander A0625-09 and REF P0625-07 for A0625-07 mini expander (page 35) are also available.

**Pack of 1**

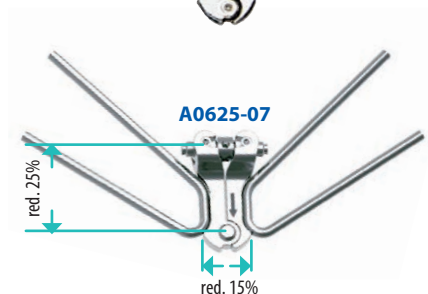


Swivel key included in the package

Comparison between  
A0625-09 and A0625-07



**A0625-09**



**A0625-07**

			activation turns for maximum expansion limit
--	--	--	--

**A0625-09**

9 mm

0,9 mm

40

			activation turns for maximum expansion limit
--	--	--	--

**A0625-07**

7 mm

0,9 mm

31

\*PATENTED

new

## RPE FOR TADs

PATENT PENDING

It allows the manufacturing of totally customized expanders both hybrid (teeth and TADs) and fully Bone Borne

### PALATAL EXPANDER FOR TADs

It features two posterior arms, and, in the package, 4 dedicated TAD attachments are included that can be adapted to patient's anatomy and welded by the lab on the body of the screw.

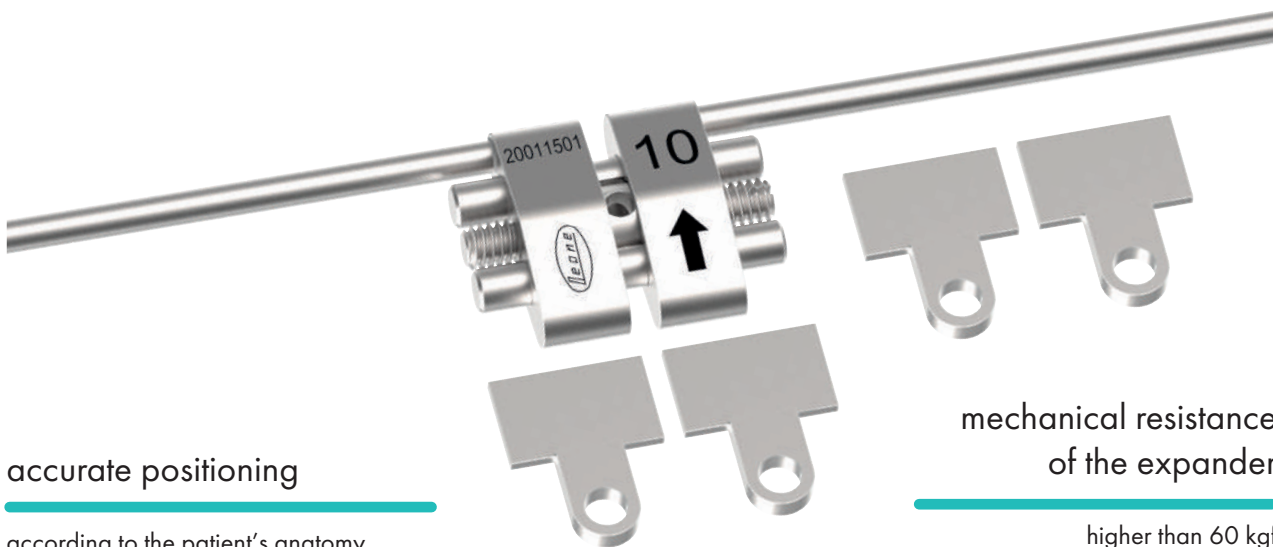
The enhanced strength of the expander ensures high mechanical resistance to apply high forces necessary for MARPE therapy (mini-screw assisted rapid palatal expander) even in adult patients.

Thanks to the adaptable TADs attachments, it is possible to highly customize the rapid palatal expander on each patient anatomy, both in TADs-first and in TADs-last approach. Therefore an optimized expansion load distribution on the TADs can be achieved.

#### Pack content:

- 4 attachments for TAD
- 1 stainless steel wrench
- 1 strengthened swivel key with handle
- instructions for the patient to facilitate endoral activation at home

Available dedicated instrument for TADs attachment customization.

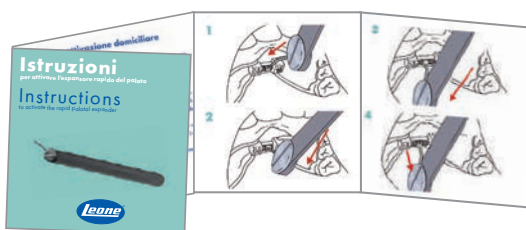


#### accurate positioning

according to the patient's anatomy and orientation of the TADs attachments based on the position of the TADs

mechanical resistance of the expander

higher than 60 kgf



#### instructions to activate the expander

useful for parents and clinicians

#### strengthened swivel key

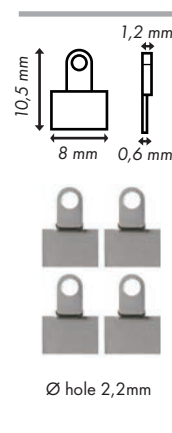
The intraoral activation key dedicated to these expanders and supplied inside the package, is characterized by a high resistance and its use is mandatory to allow the full transmission of the expansive force





**new**

							activation turns for maximum expansion limit
	11 mm	4 mm	arms	body			
			1,5 mm	12 mm	8 mm	0,8 mm	40
			1,5 mm	15 mm	10 mm	0,8 mm	50
			1,5 mm	17 mm	12 mm	0,8 mm	60



**Pack of 1 expander and 4 attachments**

## PO201-00 BENDING INSTRUMENT FOR TADs ATTACHMENTS

Made by two elements, it is used to easily adapt the TADs attachments to every anatomical and treatment need. Both components are made of stainless steel and laser marked.

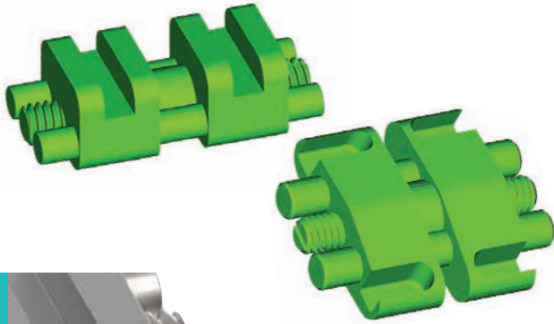


new

**CAD·CAM**  
EXPANDER

PATENTED

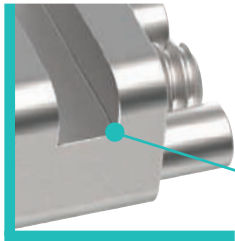
First RPE screw series designed for a full digital workflow



## RPE fully digital designed

CAD-CAM expanders allow the manufacturing of totally customized appliances with dental anchorage, hybrid (teeth and TADs) and bone borne in a full digital workflow, by using **3D Leone Designer** software.

Thanks to a manufacturing process called Laser Melting, the STL file will become a high precision sintered framework, that will fit perfectly the slot on the expander bodies thus to be joined permanently by laser welding



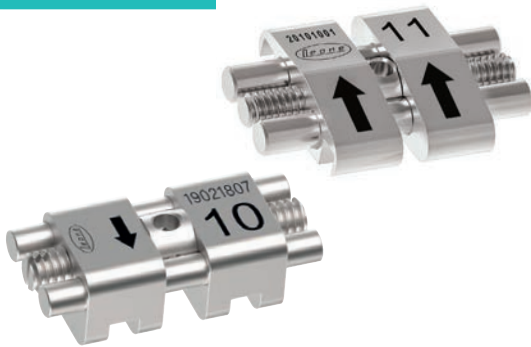
## squared slots

The CAD-CAM expanders bodies feature, instead of the standard arms, squared slots that allow a correct oriented coupling of digitally designed customized laser melted framework and, thanks to their geometric shape, the fully transmission of the expansion forces to the teeth and/or TADs



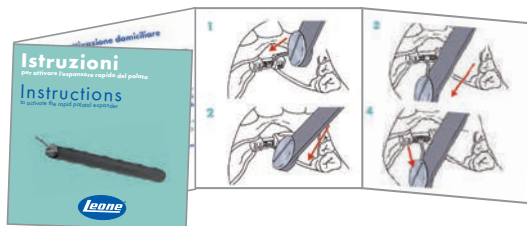
## the strongest RPE of the range

CAD-CAM expanders are manufactured by biomedical stainless steel with increased mechanical properties and a dedicated geometry of the male screw head that allow us to declare, based on in-vitro tests performed, a strengthness higher than 60kgf, about 50% higher than standard RPE. These features ensure the treatment efficiency even with maxillary expansion in adult patients with 2 or 4 TADs



## strengthened swivel key

The strengthened swivel key for CAD-CAM expanders, supplied inside the package, is more resistant than standard one and its use is mandatory in order to enable the full transmission of expansion forces



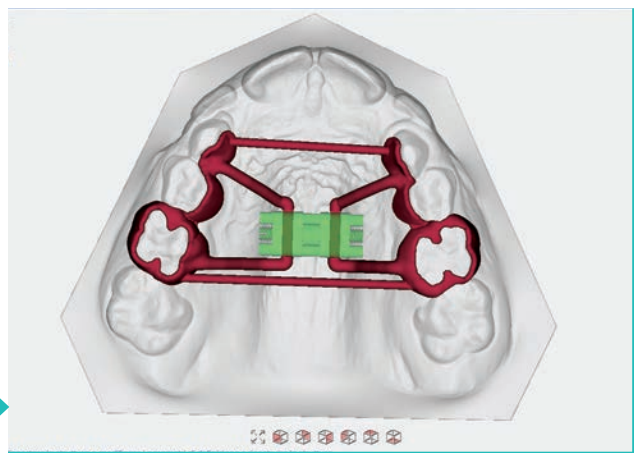
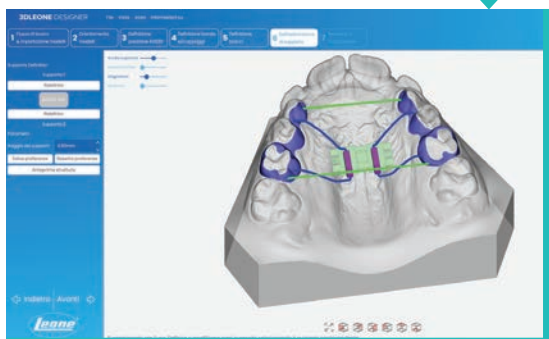
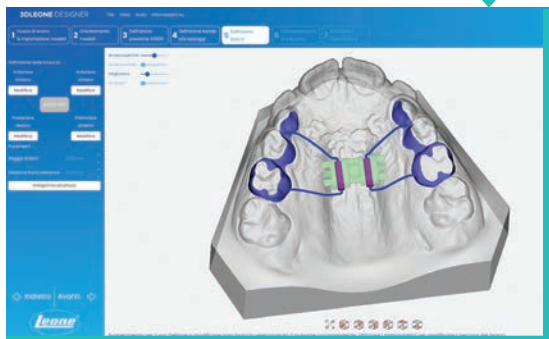
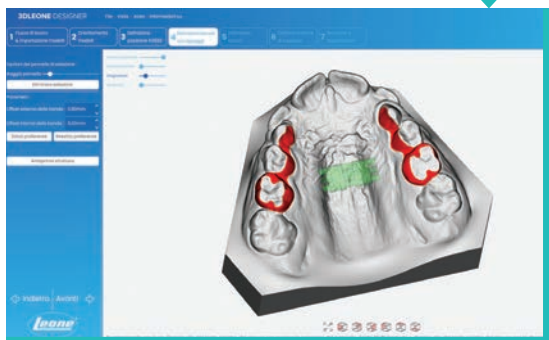
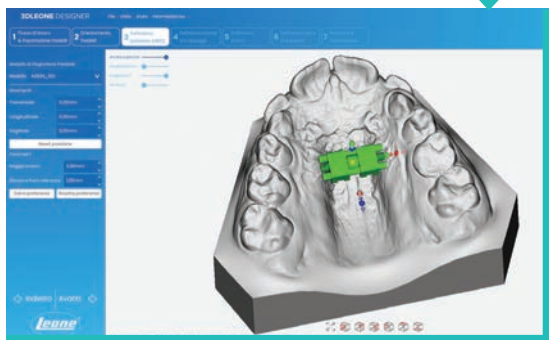
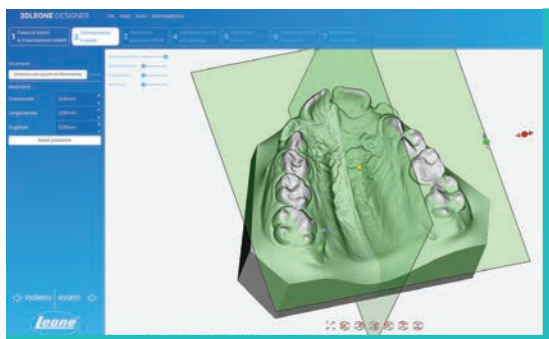
## instructions to activate the expander

useful for parents and clinicians





**3D LEONE DESIGNER  
SOFTWARE**



**3D Leone Designer** is the first software based on an easy and driven workflow for the digital design of customized framework to be coupled with our innovative CAD-CAM expanders.

Based on our experience with many different software in the dental field and due to the increased customer's requests, Leone has realized an innovative and intuitive software that allow to design, not only bands and supports, but even the expander arms with automatically placing the expander in the right position, without spending too much time and no need of digital skills.

**3D Leone Designer** software allow to upload and manage STL files of both upper and lower arch, obtained from laboratory scanner or directly from intra-oral scanner, and it has already in library all the range of Leone CAD-CAM expander available.

Once the digital and driven workflow will be done, the STL file designed will become, thanks to an innovative technology called Selective Laser Melting, a high precision sintered framework and will be coupled perfectly with the chosen Leone CAD-CAM expander. The framework and the expander will be then permanently laser welded.

*For further information on 3D Leone Designer software visit web site [www.leone.it/3dssoftware](http://www.leone.it/3dssoftware)*



## CAD-CAM ANATOMICAL EXPANDER

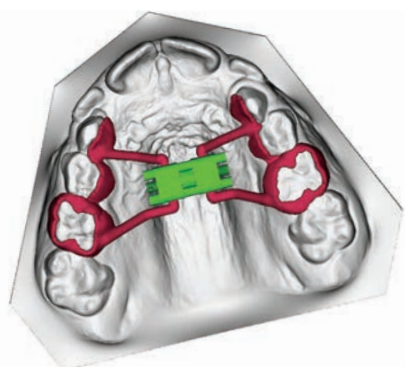


The anatomical CAD-CAM expander looks like a regular anatomical expander with orthogonal arms, but it is a device optimized for the CAD-CAM procedure: instead of the arms, features 2 squared slots that allow a correct oriented coupling for the welding of digitally designed customized laser melted framework.

The reduced overall dimensions, the exclusive self-centering guides system, the strengthened stainless steel of the male screw allow the positioning of the expander even in case of very narrow palates and high resistance and reliability throughout all the therapy even for the usage in MARPE appliances in adult patients. Expansion capacity in mm, directional arrow and lot number are laser marked on the body of the screw.

Supplied with:

- 1 stainless steel key
  - 1 strengthened swivel key with handle
  - instructions for the patient to facilitate endoral activation at home
- .stl file available on Leone website and included in the library of **3D Leone Designer software**.



**new**



6 mm



4,5 mm



body



activation turns  
for maximum  
expansion limit



**A0630-08D**

1,5x1,5mm

12 mm

8 mm

0,8 mm

40



**A0630-10D**

1,5x1,5mm

14 mm

10 mm

0,8 mm

50



**A0630-12D**

1,5x1,5mm

16 mm

12 mm

0,8 mm

60

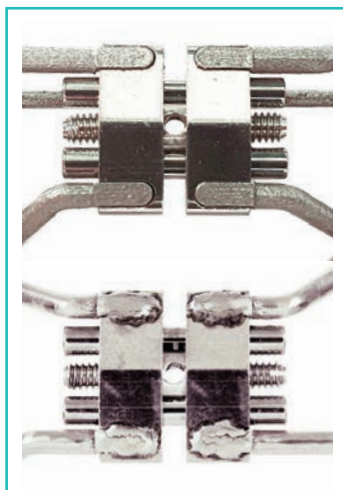
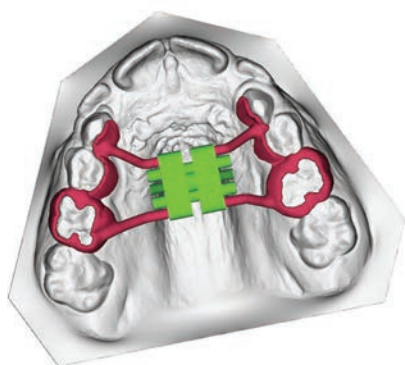
## CAD-CAM RAPID EXPANDER



CAD-CAM rapid expander looks like the world best sellers expander, but it is a device optimized for the CAD-CAM procedure : instead of the arms it has 4 transversal squared slots on the bodies that allow a correct oriented coupling for the welding of digitally designed customized laser melted framework. The exclusive self-centering guides system, the strengthened stainless steel of the male screw and the guides and the optimal ratio between bulkiness and dimension, ensure a reliable treatment and a perfect bio-mechanical expansion control throughout all the therapy even for the usage in MARPE appliances in adult patients. Expansion capacity in mm, directional arrow and lot number are laser marked on the body of the screw.

Supplied with:

- 1 stainless steel key
  - 1 strengthened swivel key with handle
  - instructions for the patient to facilitate endoral activation at home
- .stl file available on Leone website and included in the library of **3D Leone Designer software**.



**new**

	11 mm	4 mm	1,5 mm	body	8 mm	0,8 mm	activation turns for maximum expansion limit
				12 mm	8 mm	0,8 mm	35
				14 mm	9 mm	0,8 mm	40
				16 mm	11 mm	0,8 mm	50
				18 mm	13 mm	0,8 mm	60



## LEAF EXPANDER® MEMORIA® LEAF SPRING ACTIVATED EXPANDER\*



This device is an evolution in the design of the previous spring-loaded expander, designed with technical and scientific collaboration of Dr. Claudio Lanteri and Mr. Filippo Francolini. This new expander features a small size body, and it is equipped with two Nickel Titanium **MEMORIA®** leaf springs allowing the release of calibrated and continuous forces to promote the expansion of the maxillary arch. Re-loading is needed when the two opposing leaf springs move apart: the endoral activation, which must be done in the dental office, will put the springs in contact again thus allowing the release of the selected force. The expander is available in two models, 450 g and 900 g and each one of these is available in two expansion capacities: 6 mm and 9 mm. The expander is supplied with the leaf springs (2 or 3 according to the size) ready-compressed by two metal staples that the technician will remove after the construction of the device.

The package includes a special clip with safety leash to keep the leaf springs compressed, facilitating the technician and the clinician in specific phases of the realization and treatment. Inside the package are also available practical instructions for use where all the construction steps and methods of delivery to the clinician are illustrated.

Supplied with a swivel key with handle to facilitate the endoral activation by the professional.

Pack of 1

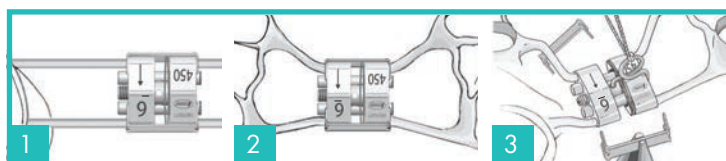


Swivel key and clip included in the package

**ok** ORTHODONTICS FOR KIDS



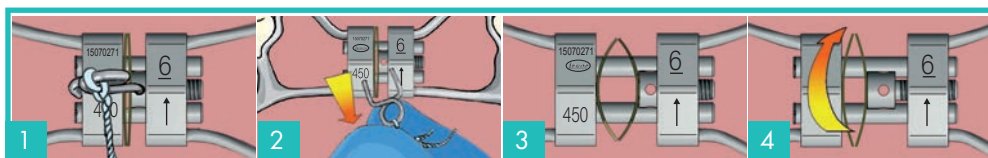
staple



						activation turns for maximum expansion limit
11 mm	4 mm	arms	body			

	<b>A2703-06</b> 2 springs 450 g approx	1,5 mm	12 mm	6 mm	0,4 mm	30
	<b>A2704-06</b> 2 springs 900 g approx					
	<b>A2703-09</b> 3 springs 450 g approx	1,5 mm	12 mm	9 mm	0,4 mm	45
	<b>A2704-09</b> 3 springs 900 g approx					

### INTRA-ORAL UTILIZATION CHART



### ACTIVATION PROTOCOL

LEAF model	LEAF expander cementation	FIRST phase	SECOND phase	THIRD phase
<b>6 mm</b> A2703-06 - A2704-06	spring activation - 0 turns	after 6 weeks 10 turns	after 4 weeks 10 turns	after 4 weeks 10 turns
<b>9 mm</b> A2703-09 - A2704-09	spring activation - 0 turns	after 8 weeks 15 turns	after 6 weeks 15 turns	after 6 weeks 15 turns

\*PATENTED



**A2700-00**  
**EXPANSION MEASURING GAUGE FOR LEAF EXPANDER\***

Helpful to verify the expansion gained and the need to activate the expander or compress the springs again. Easy to place design, it makes easier to check the expansion value directly into the mouth.

Made of steel, suitable for hot and cold sterilization.

**Pack of 1**

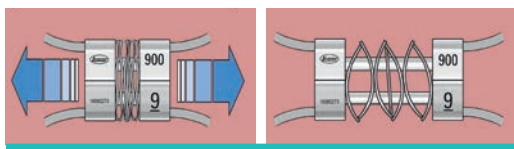


**LEAF**  **EXPANDER\***

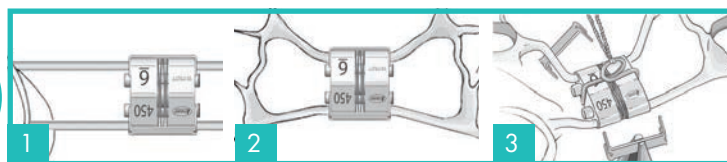
**MEMORIA® LEAF SPRING**  
**SELF-ACTIVATED EXPANDER\***





It includes all advantages of the Leaf expander without the need for periodic reactivation. The effectiveness of this expander is based entirely on the elastic capacity of the leaf springs made of Nickel Titanium that release controlled and continuous forces. The choice of the expander is decided on the basis of the transversal discrepancy of the patient: the therapy is predetermined and does not require any further action either by the clinician nor by the patient. The expander is available in two models, 450 g and 900 g and each one of these is available in two expansion capacities: 6 mm (four leaf springs) and 9 mm (six leaf springs). The expander is supplied with leaf springs ready-compressed by two metal staples that the technician will remove after the construction of the device. The package includes a special clip with safety leash to keep the leaf springs compressed, facilitating the technician and the clinician in specific phases of the realization and treatment. Inside the package are also available practical instructions for use where all the construction steps and methods of delivery to the clinician are illustrated.

**Pack of 1**



**ok** ORTHODONTICS  
FOR KIDS



	11 mm	4 mm	∅	arms	body	
						<b>A2705-06</b> 4 springs 450 g approx
				1,5 mm	12 mm	6 mm
						<b>A2705-09</b> 6 springs 450 g approx
				1,5 mm	12 mm	9 mm

\*PATENTED



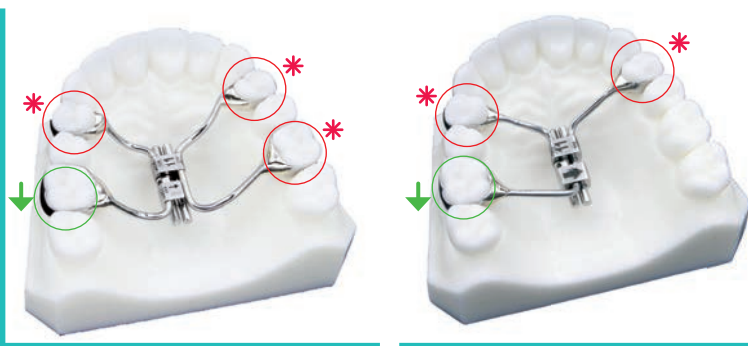
Swivel key included in the package

## BABY RPE EXPANSION SCREW\*

Developed with the assistance and clinical experience of Prof. Nicola Veltri, the RPE baby expansion screw is intended for the rapid expansion of the palate suture, and is available with either 2 or 4 arms. The model with 4 arms may be an alternative to the expander A0620, while the model with 2 arms may be an alternative to the expander A0621. Supplied with a swivel key with handle and instructions for use to facilitate the patient endoral activation.

**Pack of 1**

6 mm	4,5 mm	arms 1,5 mm	body	11	0,8 mm	activation turns for maximum expansion limit
			16 mm	11	0,8 mm	50
<b>A3620-11</b>						
6 mm	4,5 mm	arms 1,5 mm	body	11	0,8 mm	activation turns for maximum expansion limit
			16 mm	11	0,8 mm	50
<b>A3621-11</b>						



\* ANCHORAGE  
↓ EXPECTED DENTAL MOVEMENT

## MULTIFUNCTIONAL ORTHODONTIC SCREWS\*

Intended for unilateral distalization and expansion of upper molars. Available with 3 or 4 arms. Featuring one guide only and expansion capacity up to 11 mm.

**Pack of 1**



Key with safety ring leash included in the package

6 mm	4,5 mm	arms 1,5 mm	body	11	0,8 mm	activation turns for maximum expansion limit	
			16	11	0,8 mm	50	
<b>A3626-11</b>							
			16	11	0,8 mm	50	
<b>A3628-11</b>							
<b>RIGHT</b>				16	11	0,8 mm	50
<b>LEFT</b>	<b>A3629-11</b>						

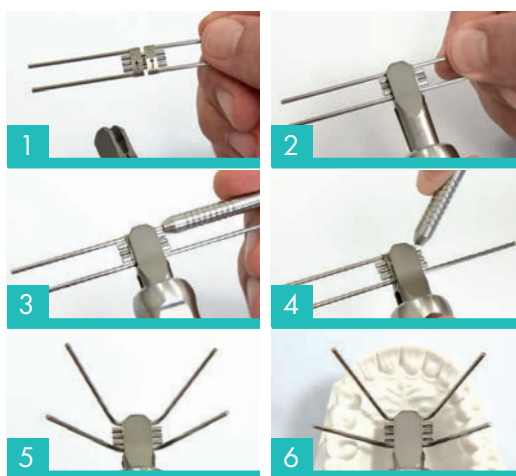
\*PATENTED



## ARM BENDING AND SELF-LOCKING INSTRUMENT\* FOR EXPANDERS

Handy instrument to firmly hold the expander; it allows for easy and accurate modeling of the arms along with the special arm bending P1620-02. The instrument ends, with a clutch mechanism, are shaped on the model of expander to avoid damage to the bodies and are kept closed by a cursor clamp device that is turned on and off with a simple thumb action. The edge thickness of the clutching ends is designed to indicate the minimum space between the body of the expander and the palatal vault. By placing the instrument with the screw on the plaster model, the correct inclination and the right height to bend the arms will be clearly visible. It is also useful to test the expander prior to use by opening and closing the expander with the special straight key.

		for expanders
	<b>P0620-00</b>	A0620-08/09/11/13/15 A2620-07/10/12
	<b>P0630-00</b>	A0631-08/10/12
	<b>P0621-00</b>	A0621-08/11 A1621-08/11/13
	<b>P0625-09</b>	A0625-09
	<b>P0625-07</b>	A0625-07



## A0558-01 SWIVEL KEY WITH ACTIVATION TURN COUNTER\*

The A0558-01 key is characterized by a "click" after each activation turn which can be heard by the user to control the activation turns of the expander in the oral cavity. A counter on the rear part of the handle enables the easy activation turn control by the patient.

**Pack of 10**



1 Find the first visible hole of the expander located in the oral cavity



2 Place the key with stop into the located hole of the expander



3 By using the handle, push the key to the anterior-posterior direction so as to begin the activation of the expander



4 The activation ends when a "click" is detected by the key that exceeds the offset limit on the circular end of the handle (1 click equals 1/4 turn)



5 Pull the key out of the hole when the activation is completed



6 Check that the key has reached the stop on the circular end of the handle



7 Place the tip of the white turn counter on the line corresponding to the number of turn activations done

\*PATENTED



## RAPID MOLAR DISTALIZER



**A1730-91** 1 case



**A1730-99** 10 cases



Leone First Class is the perfect appliance to get a rapid controlled distalization of the upper molars, conceived with the technical and scientific cooperation of Drs. Arturo Fortini, Massimo Lupoli and Mr. Massimiliano Parri. The vestibular and lingual tubes are made with **MIM**® technology for maximum comfort and precision. The bicuspid tube is a little higher to compensate the non perfect alignment of molars that may be found in some patients. One turn a day activation produces a distal movement of 0,1 mm sufficient to get molar distalization with a minimum loss of anchorage. The package is supplied with all the components necessary for the construction of the appliance.



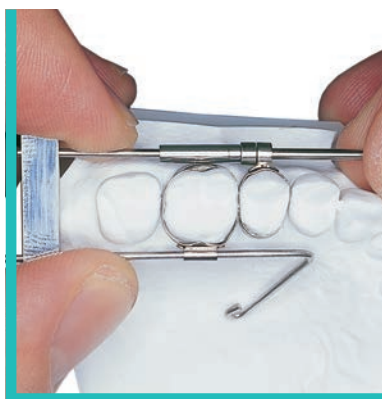
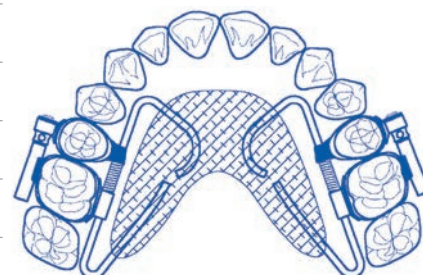
Key with safety ring leash included in the package

### REFILLS FOR FIRST CLASS LEONE

Pack of 10

content of 1 case kit

Male screws		<b>A1730-01</b>	2
Threaded tubes		<b>A1730-02</b>	2
<b>MIM</b> ® vestibular tubes		<b>A1730-03</b>	2
<b>MIM</b> ® palatal tubes		<b>A1730-04</b>	2
<b>MIM</b> ® vestibular tubes, high		<b>A1730-05</b>	2
Fixing rings		<b>A1730-06</b>	4
Palatal wires		<b>A1730-07</b>	2
Keys		<b>A1730-08</b>	1
<b>MEMORIA</b> ® springs		<b>A1730-09</b>	2



### **P1730-91** **PARALLELING DEVICE FOR FIRST CLASS LEONE**

Specific device for the visualization and the maintenance of a parallel position between the vestibular screw and the lingual bar during soldering.

**Pack content:** 2 paralleling male screws, 2 paralleling devices and instructions for use

## DISTALIZER FAST BACK LEONE



**A1760-91** 1 case

Fast Back is a device for the distalization of upper molars, developed through the cooperation of Dr. C. Lanteri and Mr. F. Francolini. The Fast Back device provides a translation movement of the molars using a pre-determined amount of pressure. There is no need for the cooperation of the patient thus maintaining a good anchorage control. The principle of the Fast Back distalization process is based on the compression of a **MEMORIA®** coil spring, available either in 200 g or 300 g, which exerts a constant force on the molar. The spring can be re-activated each month through the expansion of the screws in the device. The tube pre welded on the molar band, enables the screw arm to slide smoothly with total control of the direction of distalisation.

The Fast Back kit contains all the elements needed for the construction of a bilateral Fast Back device.

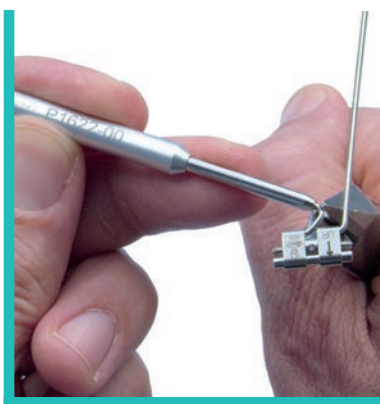
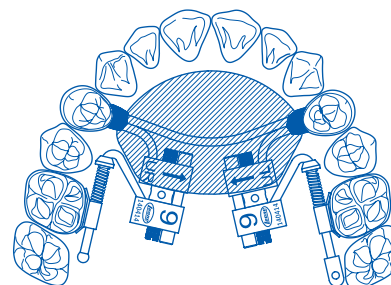


Key with safety ring leash included in the package

### REFILL FOR FAST BACK LEONE

		activation turns for maximum expansion limit		pkg.
Distalizer 9 mm UR		40	0,8 mm	<b>A1760-09</b> 1
Distalizer 9 mm UL				<b>A1761-09</b>
<b>MIM®</b> palatal tubes		<b>A1730-04</b>		
Spherical ends		<b>A1763-00</b>		
Ends with hole for ligature		<b>A1763-05</b>		
Spring-compression stop		<b>A1763-01</b>		
<b>MEMORIA®</b> coil spring 200 g		<b>A1763-02</b>		
<b>MEMORIA®</b> coil spring 300 g		<b>A1763-03</b>		
Keys		<b>A1763-04</b>		

pak  
of 10



### **P1622-00** ARM BENDING INSTRUMENT FOR FAST BACK

It facilitates the job of the technician during the construction of the device. It allows to maintain the linearity of the arm which has to slide on the palatal tube. The aluminium handle joined to the tempered steel tube assures a firm grip to get accurate bends.




**A0558-00**  
EXPANSION SWIVEL KEY

Pack of 10

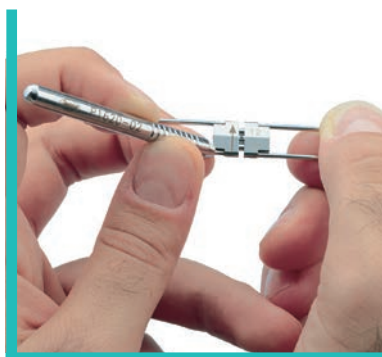


**PRE-BENT KEYS FOR EXPANDERS WITH SAFETY LEASH**

Stainless steel. Pre-bent at 45°. **For patient.**

- A0557-03** 10 keys, 10 safety leashes, 10 instructions for use
-  **A0557-13** 100 keys, 100 safety leashes, 100 instructions for use

**A0557-00**  
**STRAIGHT KEYS FOR EXPANDERS**  
Stainless steel.  
**Only for use in the laboratory.**  
Pack of 100



**P1620-02**  
ARM BENDING INSTRUMENT FOR EXPANDERS

Ideal to bend the expander arms with ease and precision.



**P1621-00**  
INSTRUMENT FOR ENDORAL ACTIVATION

Suggested for use with multifunctional orthodontic screws.



**A0666-01**  
REAMER

It is used to tap holes into acrylics. Suitable for all expansion screws with 0,4 mm pitch.

**Refill tip A0669-00.**

**P1520-00**  
SCREWDRIVER

For micro spring screws. Tip: 1,5 mm.



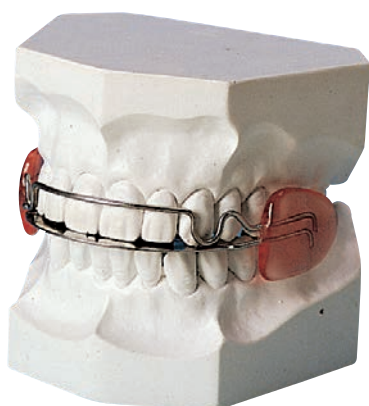
**MIM® ACTIVATOR TUBE FOR EXTRAORAL FACEBOW**

Manufactured with Metal Injection Moulding technology, it allows high retention into acrylics. Comfortable design.

**Pack of 10**

- A0761-45** ∅ .045"
- A0761-51** ∅ .051"





## BITE PLANES FOR FUNCTIONAL PLATES

A stainless steel range of products giving the chance of manufacturing high quality functional plates.

Pack of 10



**A0720-10**  
**STANDARD BITE PLANE**  
Soft, 0,5 mm.



**A0596-10**  
**ANATOMICAL DOUBLE BITE PLANE**  
Double bite plane in spring hard stainless steel.  
Soft, 0,5 mm.



**A0721-10**  
**PLATE LATERAL LEVELS**  
Soft, 0,5 mm.



**A0595-10**  
**ANATOMICAL BITE PLANE**  
Soft, 0,5 mm.



**A0722-00**  
**DOUBLE BITE PLANE**

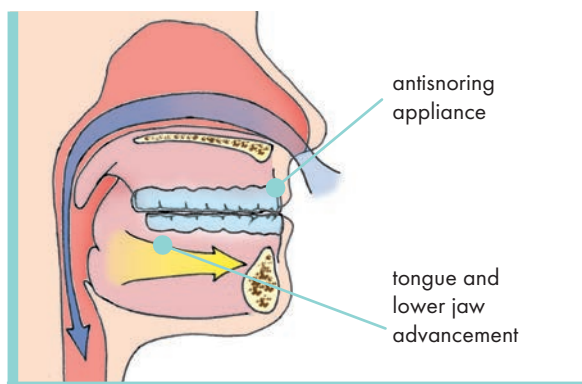
# ANTISNORING APPLIANCES



A

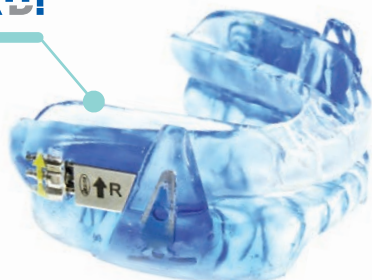
# M.A.D. SERIES LEONE

These intraoral nighttime appliances can treat snoring acting directly on the mechanism which is the main cause of it, pushing the lower jaw in a forward position. Mandibular repositioning pushes forward also the tongue and the epiglottis, spacing them from the uvula, thus to solve soft tissues vibration during the airflow, that is what produce the snore sound. MAD appliances can be used for the treatment of sleep apnea (OSA) since they can solve the rear airways obstruction by restoring breathing capacity during sleeping time. The American Academy of Dental Sleep Medicine claims that the most efficient appliances are bi-maxillary type, custom-made by a dental lab and, furthermore, they must allow an additional advancement over the construction bite position, about 4-5 mm. There are all over the world, many different type of MAD appliances to treat snoring syndrome and sleep apnea: we have decided to accomplish, and improve, the elements for the realization of the most widely used appliances according even with the clinical and scientific proven efficiency. This is our proposal based on the requirements of any clinical specialist: **appliance efficiency, high safety standards and stability and comfort for the patient.**



## ANTISNORING BIMAXILLARY DORSAL TYPE APPLIANCES

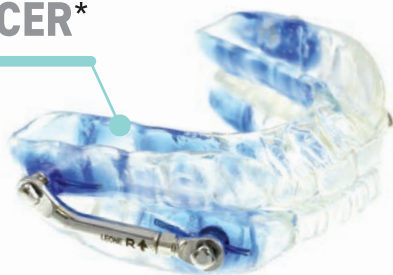
**FORWARD!\***



**FORWARD!** *new*  
**MAX RETENTION\***

## TELESCOPIC ADVANCER PLUGS AND TUBE APPLIANCES

**TELESCOPIC  
ADVANCER\***



**TELESCOPIC  
ADVANCER DUAL\*** *new*

\*PATENTED



## FORWARD!

### ANTISNORING KIT

**A5300-07** 1 appliance



**A5300-17** 10 appliances

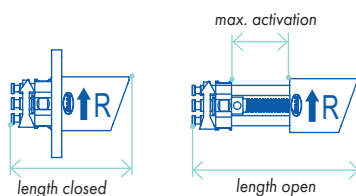
The first hardware kit specifically engineered for the antisnoring bi-maxillary Dorsal type appliance.

This time-saving kit includes all the necessary components for an easier and more precise construction of the appliance.

The kit for the assembly of 1 appliance is made up of:

- 2 upper screws, 1 right and 1 left
- 2 lower wings with inner steel frame, 1 right and 1 left.

A multiple kit for the construction of 10 appliances is available.



length closed	length open	max. activation	4 activations
18 mm	25 mm	7 mm	0,4 mm

### REFILLS FOR FORWARD!

#### A5301-00

Lower wings with inner steel frame



#### Pack content:

- 1 left lower wing with steel frame
- 1 right lower wing with steel frame

#### A5302-00

Screw 70° angulated body



#### Pack content:

- 1 upper right screw
- 1 upper left screw

**new**

## FORWARD! MAX RETENTION ANTISNORING KIT

**A5310-07** 1 appliance



**A5310-17** 10 appliances



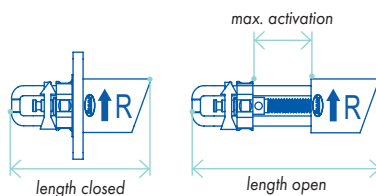
This kit is specially engineered for the realization of an antisnoring bimaxillary Dorsal type appliance and this version is featured by a higher retention capacity of the upper screws in the acrylic splint thanks to the distal "U" bent guide.

It contains all the necessary components for a fast and precise construction of the appliance.

The kit for the construction of 1 appliance is made up of:

- 2 upper screws with "U" guide, 1 right and 1 left
- 2 lower wings with inner steel frame, 1 right and 1 left.

A multiple kit for the construction of 10 appliances is available.



length closed	length open	max. activation	4 activations
20 mm	27 mm	7 mm	0,4 mm

### REFILLS FOR FORWARD! MAX RETENTION

#### A5301-00

Lower wings  
with inner steel frame



#### Pack content:

- 1 left lower wing with steel frame
- 1 right lower wing with steel frame

#### A5312-00

Max Retention 70° angulated screw  
and "U" bent guide



#### Pack content:

- 1 upper right screw
- 1 upper left screw

## FORWARD! AND FORWARD! MAX RETENTION FEATURES



The upper screws are specifically designed to get a thrust on the inclined plane of the lower unit: the protrusive anterior portion is a **metallic body perfectly angulated at 70°**, while the posterior portion has extensive retention capacity for the acrylic to avoid breakages. The screw mechanism has a **built-in stop** that gives both **perfect friction** and stability during the forward movement, as well as preventing the screw from coming apart once **7 mm** of maximum elongation is reached.



Each upper screw has an arrow clearly laser marked on metal front body, indicating the **direction of activation** to get the forward movement. The screws, both left and right, are specifically manufactured to get a **single direction of activation on both sides** and minimize mistakes. Each directional activation generates 0.1 mm advancement.



The lower wings, one right and one left, are **anatomically shaped for superior comfort** and perfect matching with the 70° inclined plane of the upper screw bodies. The clear material is fully compatible with any orthodontic acrylic resin, while the inner metallic **frame can be anatomically adapted** and incorporated into the resin of the lower splint, to ensure superior strength for the mandibular advancement in adult patients.



## TELESCOPIC ADVANCER ANTISNORING KIT

A5100-07

1 MEDIUM appliance

A5200-07

1 LONG appliance



A5100-17

10 MEDIUM appliances

A5200-17

10 LONG appliances

The kit, specifically engineered for the construction of one antisnoring appliance with telescopic plugs and tubes, includes all the components for an easier and precise construction of the appliance.

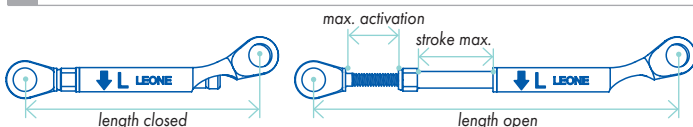
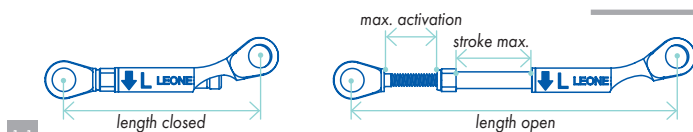
1 kit for the assembly of 1 appliance is made up of:

- 2 Telescopic arms (plug and tube), 1 right and 1 left
- 4 housings for acrylic
- 4 housing screws
- 1 wrench for activation

A multiple kit for the assembly of 10 appliances is also available.



	length closed	length open	stroke max.	max. activation	4 activations
<b>MEDIUM Telescopic arm</b>	26 mm	43 mm	10 mm	7 mm	0,4 mm
<b>LONG Telescopic arm</b>	31 mm	53 mm	15 mm	7 mm	0,4 mm



### REFILLS FOR TELESCOPIC ADVANCER

#### A5101-00

Housing screws and wrench for activation



#### Pack content:

- 4 housing screws
- 1 wrench for activation

#### A5101-01

Housings with screws and wrench for activation



#### Pack content:

- 4 housings for acrylic
- 4 housing screws
- 1 wrench for activation

#### A5101-02

MEDIUM Telescopic Arms



#### Pack content:

- 1 Telescopic Arm MEDIUM right
- 1 Telescopic Arm MEDIUM left

#### A5201-00

LONG Telescopic Arms



#### Pack content:

- 1 Telescopic Arm LONG right
- 1 Telescopic Arm LONG left



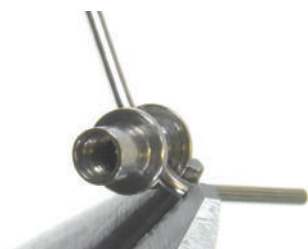
#### P1515-00

### FAN-TYPE HAND WRENCH

Thanks to its design, this screwdriver allows to easily tighten the fixing screws for support of the Telescopic Advancer devices.



The plug and tube components are manufactured by using **biocompatible stainless steel with the highest strength** available providing durability to any biomechanical stress. The plug component features a special design that does not permit the disassembling from the tube even when the patient is in wide-open mouth position.



The housings for acrylic are designed to be embedded in the acrylic splint: they feature a **laser welded wire throughout** that can be easily bent to enhance the resin retention and avoid unwanted detachment. The outer part presents a threaded portion to accommodate the square head screws binding the ends of the Telescopic arms.

The **wrench for activation** supplied with the kit can be used in the laboratory to tighten the square head screws.



The same instrument is necessary to activate the square head advancer screw into the plug in the direction indicated by the laser etched arrow: each quarter turn of activation produces 0.1 mm advancement.

**The maximum elongation is 7 mm on both sides.**



A ruler is laser etched on the wrench handle to check the activation length throughout treatment.





## **new** TELESCOPIC ADVANCER DUAL ANTISONORING KIT



A5120-07  
A5220-07

1 MEDIUM appliance  
1 LONG appliance

A5120-17  
A5220-17

10 MEDIUM appliances  
10 LONG appliances

This kit is specially engineered for the construction of an antisonoring appliance with telescopic plugs and tubes and this version is featured by a dual possibility of activation. It can be activated either by acting on the square head portion of the inner advancer screw, or by using the pin of the wrench in the holes close to the square head portion. The two types of activation can be performed thanks to the dedicated extremities of the DUAL activation wrench, supplied with the device. The diameter of the advancer screw has been increased and its resistance is 25% higher than the standard model. The arms are specifically manufactured to have a single direction of activation on both the right and the left side, from the bottom to the top, to minimize the home activation mistakes and eventual asymmetries of the appliance. The advancer screw has alternatively

laser-marked bands that allow to measure the millimeters of protrusion. All the components are made up of high resistance biomedical stainless steel that ensures a high reliability to all biomechanical stresses. The peculiar shape of the telescopic plug and tube keeps connected the upper and the lower splints even when the patient's mouth is widely open. The kit, that is different from the Telescopic Advancer standard only for the Telescopic arms Dual, contains all the necessary components for a fast and precise construction of the appliance and it is made up of:

- 2 telescopic arms Dual (plug and tube), 1 right and 1 left
- 4 housings for acrylic
- 4 housing screws
- 1 Dual wrench for activation

A multiple kit for the construction of 10 appliances is available

	length close	length open	stroke max.	max. activation	4 activations
<p>Telescopic Arm Dual MEDIUM</p>	26 mm	43 mm	10 mm	7 mm	0,4 mm
<p>Telescopic Arm Dual LONG</p>	31 mm	53 mm	15 mm	7 mm	0,4 mm

### REFILLS FOR DUAL TELESCOPIC ADVANCER

#### A5121-00

Housing screws and Dual wrench for activation



#### Pack content:

- 4 housing screws
- 1 Dual wrench for activation

#### A5121-01

Housings with screws and Dual wrench for activation



#### Pack content:

- 4 housings for acrylic
- 4 housing screws
- 1 Dual wrench for activation

#### A5121-02

Telescopic Arm Dual MEDIUM



#### Pack content:

- 1 Telescopic Arm Dual MEDIUM right
- 1 Telescopic Arm Dual MEDIUM left

#### A5221-00

Telescopic Arm Dual LONG



#### Pack content:

- 1 Telescopic Arm Dual LONG right
- 1 Telescopic Arm Dual LONG left



The Dual activation wrench can be used to activate the Telescopic arm by acting on both, the square head of the advancer screw and the hole close to the square head.



The direction of activation is laser marked on the Telescopic arm and it is the same for the Telescopic left and right arms (bottom to top). Each quarter turn of activation produces 0.1 mm advancement: the maximum elongation is 7 mm on each side.



The inner advancer screw has laser marked bands that, alternating with unmarked thread portions, allow to measure the amount of protrusion. Another element that allows a better perception of activation is the black arrow alternatively laser marked on the square nut.



In addition, a ruler is laser marked on the handle of the Dual wrench for activation, that allows to verify the millimeters of activation carried out during treatment.



**PLATE HOLDERS**

Manufactured from non toxic, unbreakable plastic. With inner socket for key and one space for patient's phone number.

- A3038-99** Small
- A3039-99** Large

**PLATE HOLDER KIT ASSORTED COLORS**

- Pack of 200:**
- 30 white
  - 30 pink
  - 40 yellow
  - 40 blue
  - 30 green
  - 30 orange



SMALL	LARGE	pkg.	colour	SMALL	LARGE	pkg.
<b>A3038-00</b>	<b>A3039-00</b>	10	white	<b>A3038-93</b>	<b>A3039-93</b>	200
<b>A3038-00S</b>	<b>A3039-00S</b>		pink	<b>A3038-93S</b>	<b>A3039-93S</b>	
<b>A3038-00G</b>	<b>A3039-00G</b>		yellow	<b>A3038-93G</b>	<b>A3039-93G</b>	
<b>A3038-00A</b>	<b>A3039-00A</b>		blue	<b>A3038-93A</b>	<b>A3039-93A</b>	
	<b>A3039-00F</b>		fluorescent		<b>A3039-93F</b>	
<b>A3038-00V</b>	<b>A3039-00V</b>		green	<b>A3038-93V</b>	<b>A3039-93V</b>	
<b>A3038-00E</b>	<b>A3039-00E</b>		orange	<b>A3038-93E</b>	<b>A3039-93E</b>	

# WIRES AND WIRE FORMS



C



*In our Centre for Biotechnological Research "Marco Pozzi", the Shimadzu micro hardness tester and the Instron testing machine are used for the verification of the mechanical properties of the wires.*

Leone orthodontic wires are available in a range of alloys and different grades of elasticity and hardness to meet any therapeutic requirements. The mechanical properties of the wires are constantly checked to ensure consistent quality.

All Leone wires are supplied in a practical packaging either in rolls or in straight wire sections.

The range includes laboratory wires made of stainless steel, chromium cobalt alloy, which can be heat-treated, and **BIOSTEEL**® nickel-free content.

The numerous forms of archwires available are manufactured from various alloys:

- stainless steel with different mechanical properties to meet all orthodontic requirements;
- nickel titanium alloy, available as **MEMORIA**®, **THERMOMEMORIA**® and **MEMORIA**® **NATURA**®, releasing gentle but constant forces, it can be formed into a large variety of shapes;
- nickel-free titanium molybdenum alloy, available as Beta **MEMORIA**®, featuring exceptional pliability and elasticity as well as low friction.

The Leone packages for wires feature a special accurate design. Clasp and Crozat wires are packaged in anti-rolling coiled spools while straight wires are packaged in triangular shaped tubes to prevent rolling out from the table. All Leone archwires are packaged in little envelopes that clearly show the part number, the dimensions, the product features and the lot number.

## CLASP WIRE

### LEOWIRE® ROUND SPRING HARD WIRE

Chromium stainless steel alloy.  
Diamond drawn to obtain highly resistant and stainless levelled surfaces. Suitable for all orthodontic applications.

### BIOSTEEL® ROUND SPRING HARD WIRE NICKEL-FREE\*

Stainless steel alloy purposely made to prevent any nickel allergic reactions (Cr 16,5%, Mn 11%, Mo 2,7%, N 0,5%, balance Fe).  
Suitable for all orthodontic applications.

*\*Nickel trace elements of  $\leq 0,05\%$  are due to the process of manufacturing*



standard spool

∅		LEOWIRE® spring hard	BIOSTEEL® spring hard	
mm	inch	1800/2000 N/mm <sup>2</sup>	1800/2000 N/mm <sup>2</sup>	m
0,5	.020	<b>C0400-05</b>		50
0,6	.024	<b>C0400-06</b>	<b>C0401-06</b>	40
0,7	.028	<b>C0400-07</b>	<b>C0401-07</b>	25
0,8	.032	<b>C0400-08</b>	<b>C0401-08</b>	20
0,9	.036	<b>C0400-09</b>	<b>C0401-09</b>	10
1,0	.040	<b>C0400-10</b>	<b>C0401-10</b>	10
1,1	.044	<b>C0400-11</b>		10
1,2	.048	<b>C0400-12</b>		10
1,3	.052	<b>C0400-13</b>		10
1,4	.055	<b>C0400-14</b>		8

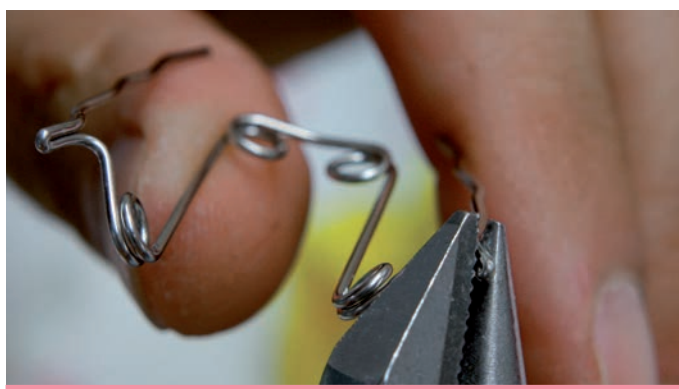
laboratory roll

LEOWIRE® spring hard		BIOSTEEL® spring hard		
1800/2000 N/mm <sup>2</sup>	1800/2000 N/mm <sup>2</sup>	m	g	
<b>C0450-05</b>		306		
<b>C0450-06</b>	<b>C0451-06</b>	225		
<b>C0450-07</b>	<b>C0451-07</b>	165		
<b>C0450-08</b>	<b>C0451-08</b>	125		
<b>C0450-09</b>	<b>C0451-09</b>	100	500	
<b>C0450-10</b>	<b>C0451-10</b>	80		
<b>C0450-11</b>		70		
<b>C0450-12</b>		53		
<b>C0450-13</b>		45		
<b>C0450-14</b>		39		



## CHROMIUM-COBALT WIRE

Heat-treatable chromium cobalt alloy, stainless and tough. Its tensile strength allows clasps, even difficult ones to be easily shaped, without breakage. It is self tempering during soldering or heating at 450° C. Necessary for any Crozat wire technique.



mm	inch	hard heat-treatable		pkg.
		1350/1500 N/mm <sup>2</sup>	m	g
0,6	.024	<b>C0410-06</b>	30	70
0,7	.028	<b>C0410-07</b>	22	
0,8	.032	<b>C0410-08</b>	17	
0,9	.036	<b>C0410-09</b>	13	
1,0	.040	<b>C0410-10</b>	11	
1,1	.044	<b>C0410-11</b>	9	
1,2	.048	<b>C0410-12</b>	8	
1,3	.052	<b>C0410-13</b>	6	



## STRAIGHT ROUND WIRE

An alloy properly designed for forming arches and springs in fixed orthodontic appliances. It is diamond drawn to obtain resistant surfaces.

Available in three tempers: hard, spring hard and extra spring hard to be adapted to any therapeutic application.

∅	hard	spring hard	extra spring hard	pkg.
inch	1400/1600 N/mm <sup>2</sup>	1800/2000 N/mm <sup>2</sup>	2200/2400 N/mm <sup>2</sup>	
.014	<b>C8080-14</b>	<b>C8180-14</b>	<b>C8380-14</b>	20 wires
.016	<b>C8080-16</b>	<b>C8180-16</b>	<b>C8380-16</b>	
.018	<b>C8080-18</b>	<b>C8180-18</b>	<b>C8380-18</b>	
.020	<b>C8080-20</b>	<b>C8180-20</b>	<b>C8380-20</b>	
.032	<b>C8080-32</b>			
.036	<b>C8080-36</b>			
.040	<b>C8080-40</b>			
.045	<b>C8080-45</b>			
.051	<b>C8080-51</b>			



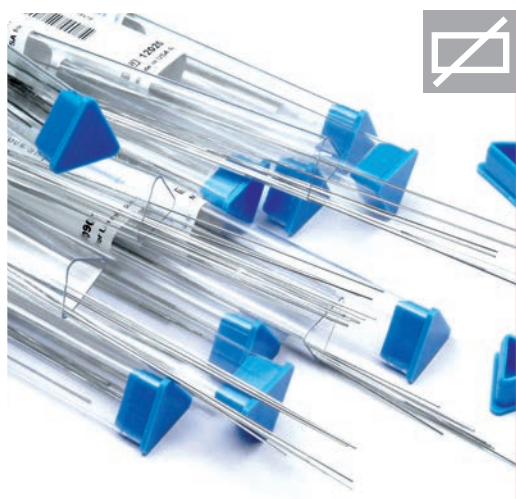
## STRAIGHT RECTANGULAR WIRE

An alloy properly designed for orthodontic applications.

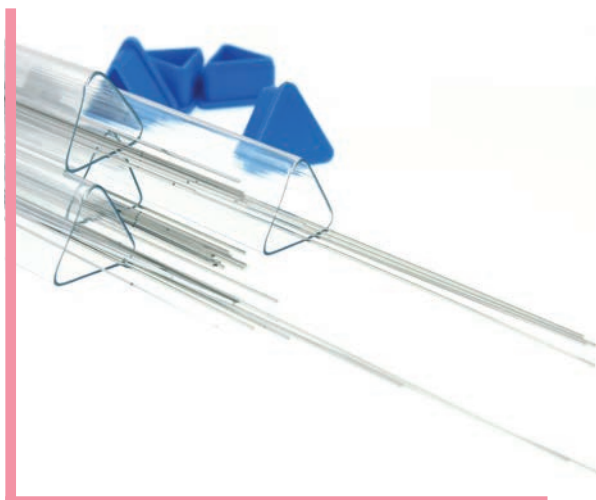
Diamond drawn to obtain perfectly square angles and levelled surfaces.

Available in two tempers: spring hard and extra spring hard, it is tested and quality controlled in the laboratory.

∅	spring hard	extra spring hard	pkg.
inch	1800/2000 N/mm <sup>2</sup>	2200/2400 N/mm <sup>2</sup>	
.016x.016	<b>C8016-16</b>	<b>C8116-16</b>	10 wires
.016x.022	<b>C8022-16</b>	<b>C8122-16</b>	
.017x.017	<b>C8017-17</b>	<b>C8117-17</b>	
.017x.022	<b>C8022-17</b>	<b>C8122-17</b>	
.017x.025	<b>C8025-17</b>	<b>C8125-17</b>	
.018x.022	<b>C8022-18</b>		
.018x.025	<b>C8025-18</b>	<b>C8125-18</b>	
.019x.025	<b>C8025-19</b>	<b>C8125-19</b>	
.020x.025	<b>C8025-20</b>		
.021x.025	<b>C8025-21</b>	<b>C8125-21</b>	
.0215x.028	<b>C8028-21</b>	<b>C8128-21</b>	







## LEOLOY® SQUARE AND RECTANGULAR HEAT-TREATABLE WIRE

Chromium-cobalt base alloy, heat-treatable. Highly stainless and resistant to breakage. Available in two tempers.

**Pack of 10 wires**

soft heat-treatable 1400/1600 N/mm <sup>2</sup>	inch	spring heat-treatable 1700/1900 N/mm <sup>2</sup>
<b>C8216-16</b>	.016x.016	<b>C8416-16</b>
<b>C8222-16</b>	.016x.022	<b>C8422-16</b>
<b>C8225-17</b>	.017x.025	<b>C8425-17</b>

### BLUE LEOLOY® - soft heat-treatable

It is initially the softest of the two tempers. It is intended for construction of archwires which require considerable bending. After heat-treating (480° C), it will become so hard as stainless steel wires. Recommended for Ricketts technique.

### YELLOW LEOLOY® - spring heat-treatable

With slight springer qualities than blue. It is intended for construction of archwires which require considerable bending. It can be used as furnished or can be heat treated (480° C) if greater springback is required.



## "AUSTRALIAN" WIRE SPOOLS

It is diamond drawn for perfect levelling of surfaces. The two tempers are laboratory tested and quality controlled. Spools, 8 m

∅	extra spring hard	super hard heat-treated
inch	2200/2400 N/mm <sup>2</sup>	2500/2700 N/mm <sup>2</sup>
.012	<b>C0420-12</b>	
.014	<b>C0420-14</b>	<b>C0430-14</b>
.016	<b>C0420-16</b>	<b>C0430-16</b>
.018	<b>C0420-18</b>	<b>C0430-18</b>
.020	<b>C0420-20</b>	<b>C0430-20</b>

## "AUSTRALIAN" ARCHWIRES SPECIAL PLUS

**Pack of 10**

medium upper	∅ inch	medium lower
<b>C2010-16</b>	.016	<b>C2050-16</b>
<b>C2010-20</b>	.020	<b>C2050-20</b>





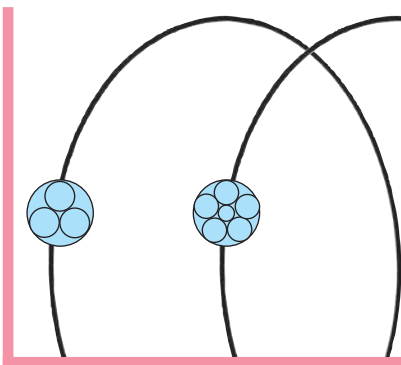
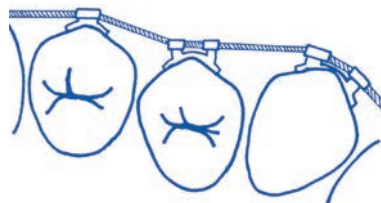
## STRAIGHT TWIST WIRE

∅		
inch		pkg.
.015	<b>C8580-15</b>	10 wires
.0175	<b>C8580-17</b>	
.0195	<b>C8580-19</b>	
.0215	<b>C8580-21</b>	



## STRAIGHT FLEX WIRE

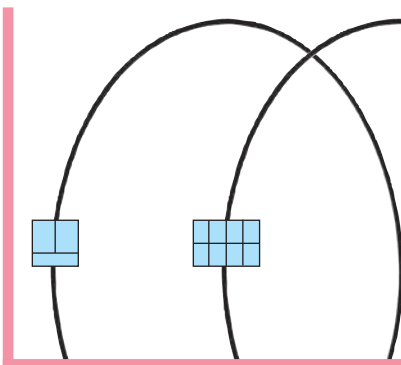
∅		
inch		pkg.
.015	<b>C8880-15</b>	10 wires
.0175	<b>C8880-17</b>	
.0195	<b>C8880-19</b>	



## ROUND PREFORMED TWIST AND FLEX ARCHWIRES

twist		
∅		
inch		pkg.
.0155	<b>C5540-15</b>	10
.0175	<b>C5540-17</b>	

flex		
∅		
inch		pkg.
.0155	<b>C5440-15</b>	10
.0175	<b>C5440-17</b>	



## RECTANGULAR PREFORMED TWIST ARCHWIRES

twist 3 wires		
inch		pkg.
.016x.016	<b>C5541-16</b>	10
.016x.022	<b>C5542-16</b>	

twist 8 wires		
inch		pkg.
.017x.025	<b>C5745-17</b>	10
.018x.025	<b>C5745-18</b>	

## ROUND AND RECTANGULAR STANDARD ARCHWIRES

Standard preformed. Made out of extra spring hard wire for higher resiliency. Marked at the midline, black for upper and red for lower.

Pack of 10



upper	∅	lower
	inch	
<b>C5110-12</b>	.012	<b>C5150-12</b>
<b>C5110-14</b>	.014	<b>C5150-14</b>
<b>C5110-16</b>	.016	<b>C5150-16</b>
<b>C5110-18</b>	.018	<b>C5150-18</b>
<b>C5110-20</b>	.020	<b>C5150-20</b>

upper	∅	lower
	inch	
<b>C5111-16</b>	.016x.016	<b>C5151-16</b>
<b>C5112-16</b>	.016x.022	<b>C5152-16</b>
<b>C5115-17</b>	.017x.025	<b>C5155-17</b>
<b>C5115-18</b>	.018x.025	<b>C5155-18</b>
<b>C5115-19</b>	.019x.025	<b>C5155-19</b>
<b>C5115-21</b>	.021x.025	<b>C5155-21</b>

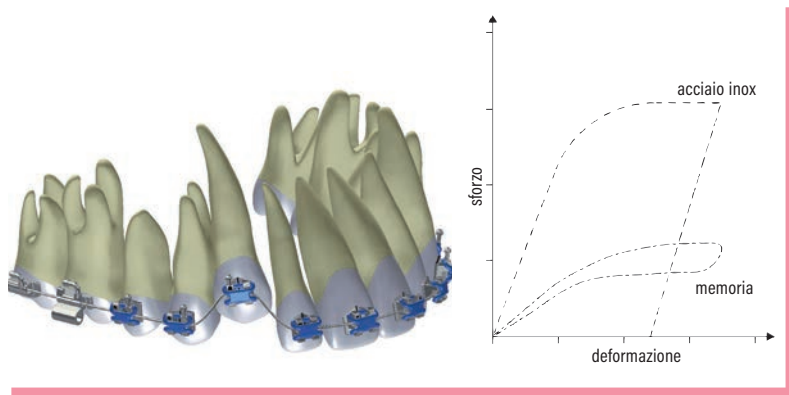
## ROUND AND RECTANGULAR PREFORMED ARCHWIRES

Extra spring hard wire, round or rectangular, diamond drawn for leveling of surfaces. Available in small, medium and large shape, both upper and lower, they represent the ideal answer to achieve your treatment goals.

Archwire selector C5950-00 is available to choose the right shape for your treatment.



∅	small		medium		large		pkg.
	upper	lower	upper	lower	upper	lower	
.014			<b>C3110-14</b>	<b>C3150-14</b>			
.016	<b>C3010-16</b>	<b>C3050-16</b>	<b>C3110-16</b>	<b>C3150-16</b>	<b>C3210-16</b>	<b>C3250-16</b>	10
.018	<b>C3010-18</b>	<b>C3050-18</b>	<b>C3110-18</b>	<b>C3150-18</b>	<b>C3210-18</b>	<b>C3250-18</b>	
.020			<b>C3110-20</b>	<b>C3150-20</b>			
∅			<b>C3111-16</b>	<b>C3151-16</b>			
.016x.016							
.016x.022	<b>C3012-16</b>	<b>C3052-16</b>	<b>C3112-16</b>	<b>C3152-16</b>	<b>C3212-16</b>	<b>C3252-16</b>	
.017x.025			<b>C3112-17</b>	<b>C3152-17</b>			
.018x.025	<b>C3012-18</b>	<b>C3052-18</b>	<b>C3112-18</b>	<b>C3152-18</b>	<b>C3212-18</b>	<b>C3252-18</b>	10
.019x.025	<b>C3012-19</b>	<b>C3052-19</b>	<b>C3112-19</b>	<b>C3152-19</b>	<b>C3212-19</b>	<b>C3252-19</b>	
.021x.025			<b>C3112-21</b>	<b>C3152-21</b>			



## MEMORIA® PREFORMED ARCHWIRES

In a superelastic nickel-titanium base alloy, these archwires provide gentle and continuous forces, reduce treatment time and improve patient comfort. The highly polished surface eliminates any bracket slot friction. Their non-deformability and superelasticity, which are expressed in the continuous force delivery over a wide deflection range, have been tested on thousands of treatments. Available in small, medium and large shape, both upper and lower, they represent the ideal answer to achieve your treatment goals.

## C5950-00

### PREFORMED ARCHWIRE SELECTOR

Lay the selector on the model and select the right arch shape.



∅	small		medium		large		pkg.
	upper	lower	upper	lower	upper	lower	
.012			<b>C5910-12</b>	<b>C5950-12</b>			10
.014	<b>C5913-14</b>	<b>C5953-14</b>	<b>C5910-14</b>	<b>C5950-14</b>	<b>C5916-14</b>	<b>C5956-14</b>	
.016	<b>C5913-16</b>	<b>C5953-16</b>	<b>C5910-16</b>	<b>C5950-16</b>	<b>C5916-16</b>	<b>C5956-16</b>	
.018	<b>C5913-18</b>	<b>C5953-18</b>	<b>C5910-18</b>	<b>C5950-18</b>	<b>C5916-18</b>	<b>C5956-18</b>	
.020			<b>C5910-20</b>	<b>C5950-20</b>			
.016x.016			<b>C5911-16</b>	<b>C5951-16</b>			10
.016x.022	<b>C5914-16</b>	<b>C5954-16</b>	<b>C5912-16</b>	<b>C5952-16</b>	<b>C5917-16</b>	<b>C5957-16</b>	
.017x.025	<b>C5914-17</b>	<b>C5954-17</b>	<b>C5912-17</b>	<b>C5955-17</b>	<b>C5917-17</b>	<b>C5957-17</b>	
.018x.018			<b>C5911-18</b>	<b>C5951-18</b>			
.018x.025	<b>C5914-18</b>	<b>C5954-18</b>	<b>C5915-18</b>	<b>C5955-18</b>	<b>C5917-18</b>	<b>C5957-18</b>	
.019x.025	<b>C5914-19</b>	<b>C5954-19</b>	<b>C5915-19</b>	<b>C5955-19</b>	<b>C5917-19</b>	<b>C5957-19</b>	
.021x.025			<b>C5915-21</b>	<b>C5955-21</b>			

∅	medium		pkg.
	upper	lower	
.012	<b>C5910-012</b>	<b>C5950-012</b>	25
.014	<b>C5910-014</b>	<b>C5950-014</b>	
.016	<b>C5910-016</b>	<b>C5950-016</b>	
.018	<b>C5910-018</b>	<b>C5950-018</b>	
.020	<b>C5910-020</b>	<b>C5950-020</b>	
.016x.016	<b>C5911-016</b>	<b>C5951-016</b>	25
.016x.022	<b>C5912-016</b>	<b>C5952-016</b>	
.017x.025	<b>C5912-017</b>	<b>C5955-017</b>	
.018x.018	<b>C5911-018</b>	<b>C5951-018</b>	
.018x.025	<b>C5915-018</b>	<b>C5955-018</b>	
.019x.025	<b>C5915-019</b>	<b>C5955-019</b>	
.021x.025	<b>C5915-021</b>	<b>C5955-021</b>	



## MEMORIA® PREFORMED ARCHWIRES "V" BEND

A V bend on midline avoids any unwanted displacement of the archwire by ensuring the therapeutical treatment previously foreseen with the selected archwire shape.



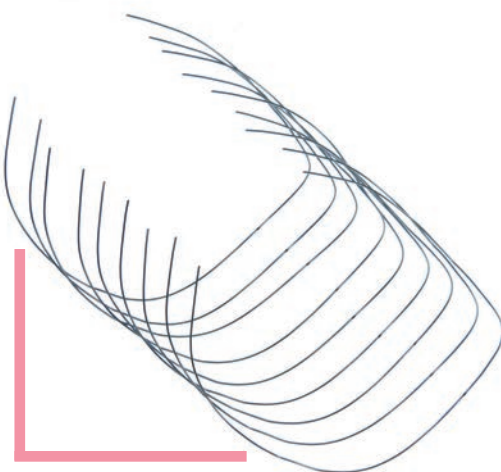
medium upper	∅	medium lower	
	inch		pkg.
<b>C5910V12</b>	.012	<b>C5950V12</b>	10
<b>C5910V14</b>	.014	<b>C5950V14</b>	
<b>C5910V16</b>	.016	<b>C5950V16</b>	
<b>C5910V18</b>	.018	<b>C5950V18</b>	

medium upper	∕	medium lower	
	inch		pkg.
<b>C5911V16</b>	.016x.016	<b>C5951V16</b>	10
<b>C5912V16</b>	.016x.022	<b>C5952V16</b>	
<b>C5912V17</b>	.017x.025	<b>C5955V17</b>	
<b>C5915V18</b>	.018x.025	<b>C5955V18</b>	

## MEMORIA® ARCHWIRES REVERSE CURVE OF SPEE

Superelastic nickel titanium archwires for levelling movements and closure of spaces. They are also indicated for the correction of bite closure alterations.

Pack of 10



upper	∅	lower
	inch	
<b>C6910-16</b>	.016	<b>C6950-16</b>
<b>C6910-18</b>	.018	<b>C6950-18</b>

upper	∕	lower
	inch	
<b>C6912-16</b>	.016x.022	<b>C6952-16</b>
<b>C6912-17</b>	.017x.025	<b>C6952-17</b>
<b>C6912-19</b>	.019x.025	<b>C6952-19</b>



# nickel titanium archwires

## MEMORIA® ANATOMICAL ARCHWIRES

Superelastic nickel titanium base alloy archwires which deliver biological forces over a wide deflection range. **MEMORIA®** archwires are available in five arch forms developed after extensive research and represent the ideal answer to individual treatment problems. Using the special arch selector, the best suited arch shape can be easily found.



∅	A	B	C	D	E	
inch						pkg.
.014	C6040-14	C6140-14	C6240-14	C6340-14	C6440-14	
.016	C6040-16	C6140-16	C6240-16	C6340-16	C6440-16	10
.018	C6040-18	C6140-18	C6240-18	C6340-18	C6440-18	
∅						
.016x.016	C6041-16	C6141-16	C6241-16	C6341-16	C6441-16	
.016x.022	C6042-16	C6142-16	C6242-16	C6342-16	C6442-16	10
.017x.025	C6042-17	C6142-17	C6242-17	C6342-17	C6442-17	
.019x.025	C6045-19	C6145-19	C6245-19	C6345-19	C6445-19	

## C6250-00

### MEMORIA® ANATOMICAL ARCHWIRE SELECTOR

Lay the selector on the model and select the right arch shape.



## THERMOMEMORIA® ARCHWIRES

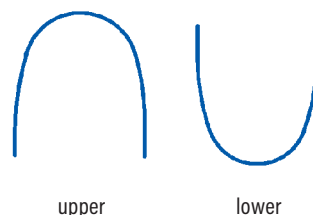
An innovation in nickel titanium alloy archwires. According to room or body temperature, these archwires have a different behaviour. These archwires can be permanently bent with a plier at room temperature, but after insertion, at mouth temperature of about 37° C, they revert to their initial programmed shape, providing gentle and continuous forces to teeth. This particular feature makes their insertion into misaligned bracket slots easier and reduce patient's trauma while permitting the use of rectangular wires during early treatment and gaining good torque control of roots during tooth movements.

Pack of 10



upper	∅ inch	lower
C5930-16	.016	C5970-16
C5930-18	.018	C5970-18

upper	∕ inch	lower
C5931-16	.016x.016	C5971-16
C5932-16	.016x.022	C5972-16
C5935-18	.018x.025	C5975-18
C5935-19	.019x.025	C5975-19
C5935-21	.021x.025	C5975-21



## C6100-13 ARCHWIRE KIT STEP SYSTEM 2.0



**Pack content:** 13 archwires, 7 upper and 6 lower, necessary for the execution of one-case treatment for **STEP 2.0** technique. Each archwire is single packaged. The packages are identified with a reference number and a tooth sketch which respectively indicate the standard application sequence and the arch wire function.

<p><b>.014</b> ARCO MEMORIA SUPERIORE MEMORIA UPPER ARCH</p> <p><b>SUP 1</b> ALLINEAMENTO E LIVELLAMENTO LEVELING AND ALIGNING</p>	<p><b>.016</b> ARCO MEMORIA SUPERIORE MEMORIA UPPER ARCH</p> <p><b>SUP 2</b> ALLINEAMENTO E LIVELLAMENTO LEVELING AND ALIGNING</p>	<p><b>.016</b> ARCO AUSTRALIANO SUPERIORE AUSTRALIAN UPPER ARCH</p> <p><b>SUP 3</b> CONTROLLO ANGOLOZIONE TIP CONTROL</p>
<p><b>.020</b> ARCO AUSTRALIANO SUPERIORE AUSTRALIAN UPPER ARCH</p> <p><b>SUP 4</b> CONTROLLO ANGOLOZIONE TIP CONTROL</p>	<p><b>.021 x .027</b> ARCO BIDIMENSIONALE CIG BETA MEMORIA/ACCIAIO BETA MEMORIA/S.S. BIDIMENSIONAL ARCH W/ W</p> <p><b>.016</b> x <b>.016</b></p> <p><b>SUP 5</b> CHIUSURA DEGLI SPAZI SPACE CLOSURE</p>	<p><b>.021 x .027</b> ARCO BETA MEMORIA BETA MEMORIA ARCH</p> <p><b>SUP 6</b> FINITURA FINISHING</p>
<p><b>.014</b> ARCO MEMORIA INFERIORE MEMORIA LOWER ARCH</p> <p><b>INF 1</b> ALLINEAMENTO E LIVELLAMENTO LEVELING AND ALIGNING</p>	<p><b>.016</b> ARCO MEMORIA INFERIORE MEMORIA LOWER ARCH</p> <p><b>INF 2</b> ALLINEAMENTO E LIVELLAMENTO LEVELING AND ALIGNING</p>	<p><b>.016</b> ARCO AUSTRALIANO INFERIORE AUSTRALIAN LOWER ARCH</p> <p><b>INF 3</b> CONTROLLO ANGOLOZIONE TIP CONTROL</p>
<p><b>.020</b> ARCO AUSTRALIANO INFERIORE AUSTRALIAN LOWER ARCH</p> <p><b>INF 4</b> CONTROLLO ANGOLOZIONE TIP CONTROL</p>	<p><b>.021 x .025</b> ARCO MEMORIA NICKEL TITANIO MEDIO NICKEL TITANIUM MEMORIA ARCH - MEDIUM</p> <p><b>INF 5</b> CONTROLLO TORQUE TORQUE CONTROL</p>	<p><b>.021 x .027</b> ARCO BETA MEMORIA BETA MEMORIA ARCH</p> <p><b>INF 6</b> FINITURA FINISHING</p>



## BETA MEMORIA® WIRES AND ARCHWIRES

In a titanium molybdenum alloy, they feature high elasticity and good bendability with pliers. Highly finished to minimize friction between wire and slot. Nickel free. They are suitable for patients with allergic reactions.

## LINGUAL ARCHWIRES FOR IDEA-L BRACKETS

Sections .012" and .014" are made of a special Nickel Titanium alloy allowing light adaptations necessary in case of treatment extension to first bicuspids, thus keeping high elasticity. Section .016" Beta **MEMORIA**® is ideal to optimize the alignment and levelling values obtained.

Pack of 2

### BETA MEMORIA® ARCHWIRES

	upper	∅ inch	lower	pkg.
medium	<b>C7110-16</b>	.016	<b>C7150-16</b>	10
	<b>C7110-18</b>	.018	<b>C7150-18</b>	

	upper	∅ inch	lower	pkg.
small	<b>C7012-21</b>	.021x.027	<b>C7015-21</b>	10
medium	<b>C7112-16</b>	.016x.022	<b>C7115-16</b>	
	<b>C7112-17</b>	.017x.025	<b>C7115-17</b>	
	<b>C7112-19</b>	.019x.025	<b>C7115-19</b>	
	<b>C7112-21</b>	.021x.027	<b>C7115-21</b>	

### BETA MEMORIA® STRAIGHT ROUND WIRE

∅ inch		pkg.
.016	<b>C7900-16</b>	10 wires 35 cm long
.032	<b>C7900-32</b>	
.036	<b>C7900-36</b>	
∅		
.016x.022	<b>C7922-16</b>	
.017x.025	<b>C7925-17</b>	

### MEMORIA® LINGUAL ARCHWIRES

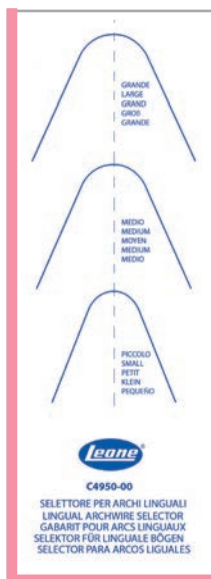
∅ inch	small	medium	large
.012	<b>C4950-12</b>	<b>C4951-12</b>	<b>C4952-12</b>
.014	<b>C4950-14</b>	<b>C4951-14</b>	<b>C4952-14</b>

### BETA MEMORIA® LINGUAL ARCHWIRES

.016	<b>C4970-16</b>	<b>C4971-16</b>	<b>C4972-16</b>
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### C4950-00 LINGUAL ARCHWIRE SELECTOR

Lay the selector on the model and choose the correct arch shape.







## MEMORIA® NATURA® PREFORMED ARCHWIRES

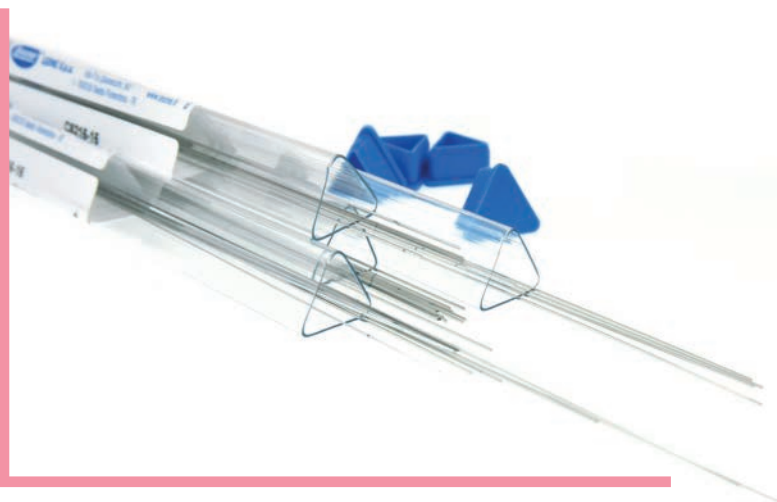
They combine high elasticity and resistance to deformation of superelastic nickel titanium archwires with the best aesthetics. The tooth coloured coating is very stiff and resistant to oral liquid absorption, therefore a reduced friction is obtained when used with metal and cosmetic brackets.

Available round or rectangular.  
**Pack of 10**



	upper	∅	lower
		inch	
	<b>C5918-14</b>	.014	<b>C5958-14</b>
	<b>C5918-16</b>	.016	<b>C5958-16</b>
	<b>C5918-18</b>	.018	<b>C5958-18</b>
	<b>C5918-20</b>	.020	<b>C5958-20</b>

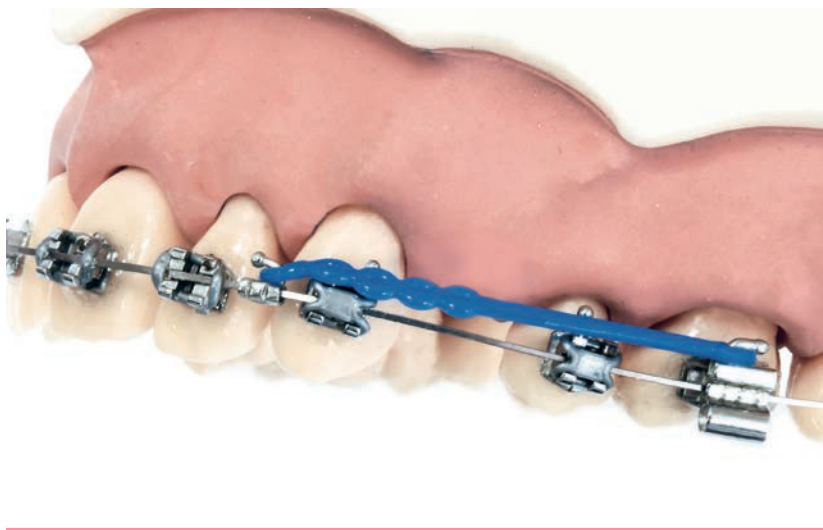
	upper	∠	lower
		inch	
	<b>C5982-16</b>	.016x.022	<b>C5992-16</b>
	<b>C5985-18</b>	.018x.025	<b>C5995-18</b>
	<b>C5985-19</b>	.019x.025	<b>C5995-19</b>
	<b>C5985-21</b>	.021x.025	<b>C5995-21</b>



## C8922-16 MEMORIA® RECTANGULAR STRAIGHT WIRE

Nickel titanium base alloy wire which maintains high elasticity and allows sectionals and springs to be easily shaped. Available in .016"x.022".

**Pack of 10 wires, 18 cm long**



## BI-DIMENSIONAL ARCHWIRES BETA MEMORIA®/STAINLESS STEEL WITH HOOK

Specialty arch wires that combine different materials and geometries with the aim of torque control in the front portion during the space closure.

The arches have hooks that once positioned between the lateral and the cuspid, are intended for the application of pull tractions and are used as connector between the parts of the arch wire.

The front portion is made of Beta **MEMORIA**® alloy and is available in .019"x .025" or .021" x .027" for the torque control. The rear portion is made of stainless steel, available in .016"x .016" to promote the sliding of the arch wire into the slot

**Pack of 2**

upper	distance between the hooks		lower	distance between the hooks	
	mm	inch		mm	mm
<b>C7110-34</b>	34	.019x.025 / .016x.016	<b>C7150-24</b>	24	
<b>C7110-36</b>	36		<b>C7150-26</b>	26	
<b>C7111-34</b>	34	.021x.027 / .016x.016	<b>C7151-24</b>	24	
<b>C7111-36</b>	36		<b>C7151-26</b>	26	



## ARCHWIRES WITH HOOKS

Medium arch form.  
Made of spring hard wire .019"x.025"

**Pack of 10**

upper		lower	
mm		mm	
34	<b>C3112-34</b>	24	<b>C3152-24</b>
36	<b>C3112-36</b>	26	<b>C3152-26</b>
38	<b>C3112-38</b>	28	<b>C3152-28</b>
40	<b>C3112-40</b>	30	<b>C3152-30</b>
42	<b>C3112-42</b>		

The size expressed in mm indicates the distance between the hooks.

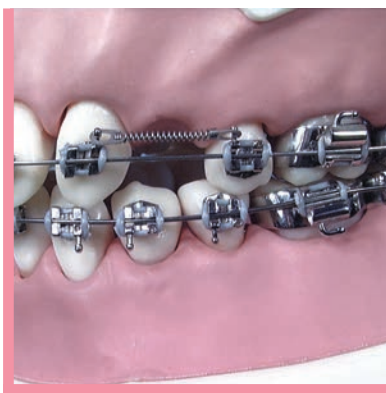
# nickel titanium coil springs



## MEMORIA® COIL SPRINGS

In superelastic nickel titanium alloy, they have always been used in orthodontic treatments. These springs combine the characteristics of coil spring design with the non-deformable properties of superelastic **MEMORIA®** alloy. Available open for compressions and gain in space, closed with wound ends for use with hooks of tubes and brackets.

The type with a ligature wire allows spaces wider than 15 mm to be linked.



**MEMORIA®**  
CLOSED COIL SPRINGS  
WITH WOUND ENDS

	g		pkg.
light	150	<b>C1230-00</b>	
medium	200	<b>C1230-01</b>	10
heavy	250	<b>C1230-02</b>	



**MEMORIA®**  
OPEN COIL SPRINGS

Pack of 2 springs, 18 cm long

	spring	wire	
super	.030	.009	<b>C1009-30</b>
light	.036	.009	<b>C1009-36</b>
light	.030	.010	<b>C1211-30</b>
medium	.030	.012	<b>C1212-30</b>
heavy	.036	.014	<b>C1214-36</b>
for extraoral	.045	.010	<b>C1210-45</b>
lip bumper	.055	.014	<b>C1214-55</b>



**MEMORIA®**  
CLOSED COIL SPRING WITH  
WOUND ENDS AND LIGATURE WIRE

	g		pkg.
light	150	<b>C1231-00</b>	
medium	200	<b>C1231-01</b>	10
heavy	250	<b>C1231-02</b>	



**C1230-95**  
**MEMORIA®** COIL SPRING KIT

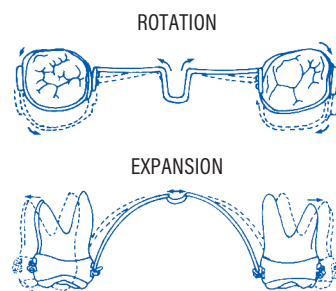
For crimping of surgical hooks use plier P1911-00.

### Pack content:

3 open coil springs, 15 closed coil springs with wound ends, 15 closed coil springs with wound ends and ligature wire, 10 stops, 10 **MIM®** surgical hooks.

## PALATAL BARS

Palatal bars allow controllable movements of rotation, expansion and contraction of upper first molars. Made of heat-treated wire, 0,9 mm in diameter, to increase their tensile strength, they are easy to remove from the tubes for activation.



### PALATAL BAR

mm		pkg.
34	<b>C0570-34</b>	
36	<b>C0570-36</b>	
38	<b>C0570-38</b>	
40	<b>C0570-40</b>	
42	<b>C0570-42</b>	
44	<b>C0570-44</b>	5
46	<b>C0570-46</b>	
48	<b>C0570-48</b>	
50	<b>C0570-50</b>	
52	<b>C0570-52</b>	

### C0570-96 PALATAL BAR KIT

Assorted kit of 50

### REVERSE LOOP PALATAL BAR

mm		pkg.
34	<b>C0576-34</b>	
36	<b>C0576-36</b>	
38	<b>C0576-38</b>	
40	<b>C0576-40</b>	
42	<b>C0576-42</b>	
44	<b>C0576-44</b>	5
46	<b>C0576-46</b>	
48	<b>C0576-48</b>	
50	<b>C0576-50</b>	
52	<b>C0576-52</b>	

### C0576-96 REVERSE LOOP PALATAL BAR KIT

Assorted kit of 50

#### CAUTION:

the palatal bar should be securely ligated into the lingual sheaths with steel or elastic ligatures. Improper use may result in injury by aspiration or ingestion. Recommended for use with **MIM**® lingual tubes:



#### WITH BALL HOOK

**G2846-02**  
**G2846-03**

Right  
Left



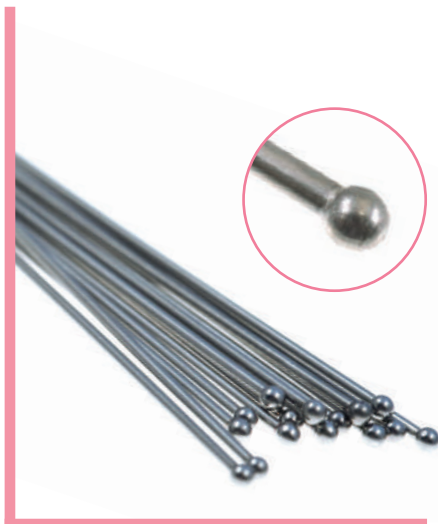
#### WITH BALL HOOK ROTATION -8°

**G2847-02**  
**G2847-03**

Right  
Left

## BALL HOOKS

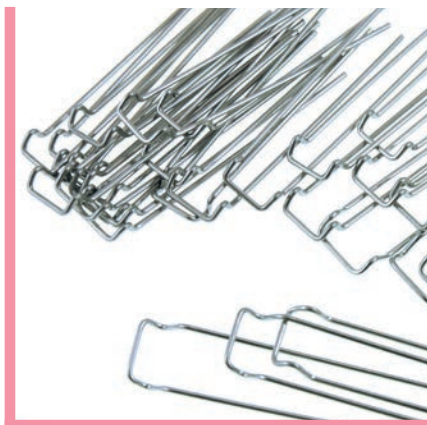
Stainless steel.  
Thanks to an innovative plasma technology, the hook head is perfectly spherical.



∅			
mm	inch		pkg.
0,7	.028	<a href="#">C1610-17</a>	
0,8	.032	<a href="#">C1610-18</a>	100
0,9	.036	<a href="#">C1610-19</a>	

## STANDARD ADAMS CLASPS

Spring hard stainless steel.



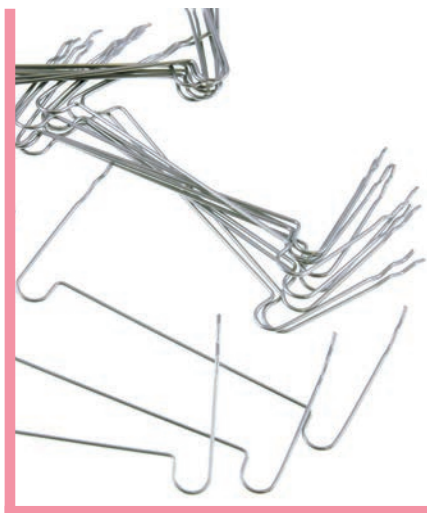
### [C0580-95](#) STANDARD ADAMS CLASP KIT

Assorted kit of 100

∅			
mm			pkg.
5,0		<a href="#">C0580-05</a>	
5,5		<a href="#">C0580-055</a>	
6,0		<a href="#">C0580-06</a>	
6,5		<a href="#">C0580-065</a>	
7,0	0,7 mm	<a href="#">C0580-07</a>	10
8,0		<a href="#">C0580-08</a>	
9,0		<a href="#">C0580-09</a>	
10,0		<a href="#">C0580-10</a>	
11,0		<a href="#">C0580-11</a>	
12,0		<a href="#">C0580-12</a>	

## STANDARD LABIAL ARCHES

Spring hard stainless steel.



### [C0585-95](#) STANDARD LABIAL ARCH KIT

Assorted kit of 100

∅			
mm			pkg.
25		<a href="#">C0585-25</a>	
28		<a href="#">C0585-28</a>	
31		<a href="#">C0585-31</a>	
34		<a href="#">C0585-34</a>	
37	0,8 mm	<a href="#">C0585-37</a>	10
40		<a href="#">C0585-40</a>	
43		<a href="#">C0585-43</a>	
46		<a href="#">C0585-46</a>	
48		<a href="#">C0585-48</a>	
50		<a href="#">C0585-50</a>	

# BANDS



# PEDODONTIC BANDS UNIVERSAL



Designed to meet therapeutic needs of pediatric orthodontics by allowing early treatment of patients with mixed or deciduous teeth



## made of biomedical steel medium temper

### shape and height

designed for the anatomy of deciduous molars

### easy fit

to the pyramid-shape of primary molars



### laser-marking of sizes

allows the sterilization at high temperatures and an optimal view of sizing over time

### useful in the construction

of palatal expanders and space maintainers



### free prewelding service

custom prewelding service to any tube, bracket or accessory in the section G

## DECIDUOUS MOLARS UPPER AND LOWER

Available in 10 sizes, either for upper and lower, with LASER etched identification number.

The medium temper of biomedical steel used to manufacture the bands allows the adaptation to the pyramidal shape of the primary molars by minimizing the problems of detachment.

Necessary for the construction of palatal expanders and space maintainers.



**E6100-00** Upper - PU  
sizes 1 - 10

**E6500-00** Lower - PL  
sizes 1 - 10

Pack of 5

Always specify the size when ordering e.g.: E6100-05

## **E6165-96** ASSORTMENT PEDODONTIC BANDS UNIVERSAL

The kit is composed of 5 universal pedodontic bands each upper and lower size, total 100 pcs. The tray is not autoclavable.





## made of hard heat-treated stainless steel

graduated thickness

by variation in tooth size

inner surface  
rough finish

for maximum stability  
and increased retention



laser-marking of sizes

allows the sterilization at high temperatures  
and a durable good view of sizing

anatomically correct

wide range of sizes



free prewelding service

custom prewelding service to any tube, bracket or accessory in the section "G".  
Ready delivery of standard prewelded bands for the most commonly used techniques.



wide choice

of assortments in autoclavable trays



## UPPER AND LOWER BICUSPIDS

- E5101-00** Upper with lug - U
- E5501-00** Lower with lug - L
- E5100-00** Upper without lug - U
- E5500-00** Lower without lug - L

Pack of 10

- E5151-00** Upper with lug - U
- E5551-00** Lower with lug - L
- E5105-00** Upper without lug - U
- E5505-00** Lower without lug - L

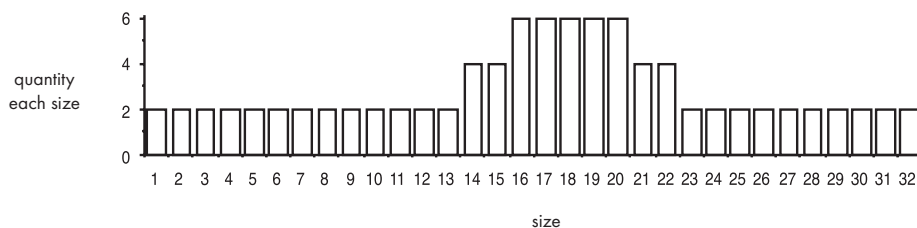
Pack of 5

Available in 32 sizes either for maxillary or mandibular arch, with LASER etched identification number. Their anatomical shape with contoured edges is designed for use either right or left. Thickness of 0,15 mm and seating lug. The hard temper and a rough inner surface finish considerably improve cement retention.

Always specify the size when ordering e.g.: E5101-11

## ASSORTMENTS

assorted kit of 92 bands on average use

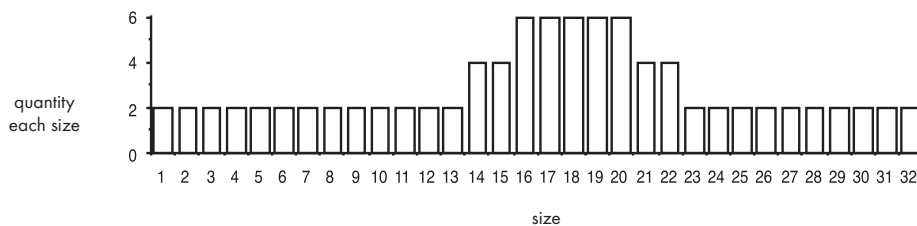


5 4 | 4 5

U with lug **E5101-92**

U without lug **E5100-92**

assorted kit of 92 bands on average use



5 4 | 4 5

L with lug **E5501-92**

L without lug **E5500-92**



## UPPER AND LOWER 1<sup>ST</sup> MOLAR BANDS

- E1200-00** Upper right - UR
- E1300-00** Upper left - UL
- E1600-00** Lower right - LR
- E1700-00** Lower left - LL

Pack of 10

- E1205-00** Upper right - UR
- E1305-00** Upper left - UL
- E1605-00** Lower right - LR
- E1705-00** Lower left - LL

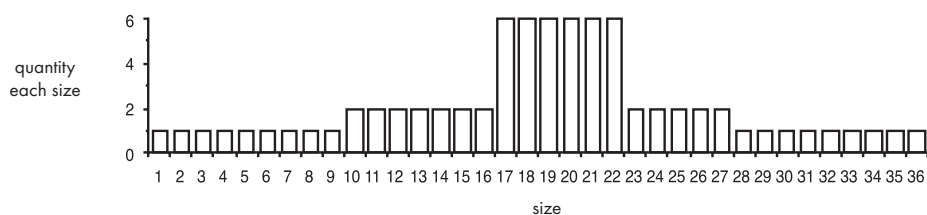
Pack of 5

Available in 36 right sizes and 36 left sizes either for maxillary or mandibular arch, with LASER etched identification number. The hard temper, the anatomical design, the diversified thickness and the rough inner surface finish make the band selection easy and improve cement retention.

Always specify the size when ordering e.g.: E1200-06

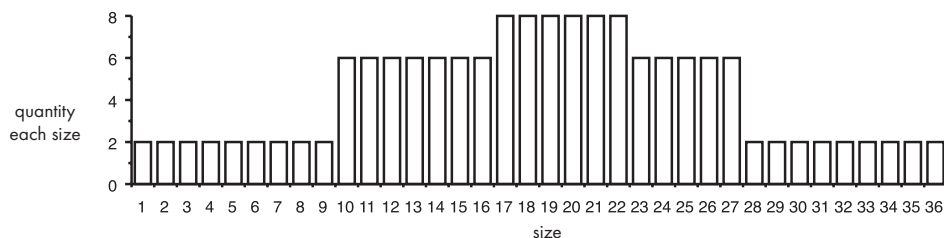
## ASSORTMENTS

assorted kit of 78 bands on average use



6	UR	R	<b>E1200-92</b>
6	UL	L	<b>E1300-92</b>
6	LR	R	<b>E1600-92</b>
6	LL	L	<b>E1700-92</b>

assorted kit of 156 bands on average use



6	UR	R	<b>E1200-94</b>
6	UL	L	<b>E1300-94</b>
6	LR	R	<b>E1600-94</b>
6	LL	L	<b>E1700-94</b>



## UPPER AND LOWER 2<sup>ND</sup> MOLAR BANDS

- E2200-00** Upper right - SUR
- E2300-00** Upper left - SUL
- E2600-00** Lower right - SLR
- E2700-00** Lower left - SLL

Pack of 10

- E2205-00** Upper right - SUR
- E2305-00** Upper left - SUL
- E2605-00** Lower right - SLR
- E2705-00** Lower left - SLL

Pack of 5

Available in 32 right sizes and 32 left sizes, either for maxillary or mandibular arch, with LASER etched identification number. The hard temper, the anatomical design, the diversified thickness and the rough inner surface finish make the band selection easy and improve cement retention.

Always specify the size when ordering e.g.: E2300-08



All trays can be autoclaved to avoid cross infections.

## ASSORTMENTS

assorted kit of 78 bands on average use



SUR dx **E2200-92**

SUL sx **E2300-92**

SLR dx **E2600-92**

SLL sx **E2700-92**



## EDGEWISE TECHNIQUE - UPPER

Tube .022"x.028". Round tube .051". (G8025-02 - G8025-03)

<b>E1420-00</b>	Right	UR	<b>E1425-00</b>	Right	UR
<b>E1430-00</b>	Left	UL	<b>E1435-00</b>	Left	UL
<b>Pack of 10</b>			<b>Pack of 5</b>		



## EDGEWISE TECHNIQUE - LOWER

Tube .022"x.028". Round tube .051". (G8025-03 - G8025-02)

<b>E1460-00</b>	Right	LR	<b>E1465-00</b>	Right	LR
<b>E1470-00</b>	Left	LL	<b>E1475-00</b>	Left	LL
<b>Pack of 10</b>			<b>Pack of 5</b>		

Always specify the size when ordering e.g.: E1430-12



## ANDREWS ROTH BOSTON ALEXANDER TECHNIQUE - UPPER

Tube .022"x.028". Torque -10°, rotation +8°. Round tube .051". (G8325-02 - G8325-03)

<b>E1520-00</b>	Right	UR	<b>E1525-00</b>	Right	UR
<b>E1530-00</b>	Left	UL	<b>E1535-00</b>	Left	UL
<b>Pack of 10</b>			<b>Pack of 5</b>		



## ANDREWS ROTH BOSTON ALEXANDER TECHNIQUE - LOWER

Tube .022"x.028". Torque -25°, rotation +8°. Round tube .051". (G8325-06 - G8325-07)

<b>E1560-00</b>	Right	LR	<b>E1565-00</b>	Right	LR
<b>E1570-00</b>	Left	LL	<b>E1575-00</b>	Left	LL
<b>Pack of 10</b>			<b>Pack of 5</b>		

Always specify the size when ordering e.g.: E1520-17



# CALIBRA<sup>®</sup> anatomical molar bands prewelded to MIM<sup>®</sup> tubes

## CALIBRA<sup>®</sup> PREWELDED BANDS ASSORTMENTS

Prewelded **CALIBRA<sup>®</sup>** bands for Edgewise, Andrews, Roth, Boston, Alexander techniques are available in assortments of 25 or 78 bands.



All trays can be autoclaved to avoid cross infections.

### assorted kit of 25 prewelded bands

				Edgewise	Andrews Roth Boston Alexander
	6	UR	R	<b>E1420-90</b>	<b>E1520-90</b>
	6	UL	L	<b>E1430-90</b>	<b>E1530-90</b>
	6	LR	R	<b>E1460-90</b>	<b>E1560-90</b>
	6	LL	L	<b>E1470-90</b>	<b>E1570-90</b>

### assorted kit of 78 prewelded bands

				Edgewise	Andrews Roth Boston Alexander
	6	UR	R	<b>E1420-92</b>	<b>E1520-92</b>
	6	UL	L	<b>E1430-92</b>	<b>E1530-92</b>
	6	LR	R	<b>E1460-92</b>	<b>E1560-92</b>
	6	LL	L	<b>E1470-92</b>	<b>E1570-92</b>

## made of biomedical stainless steel

### sharpened tooth anatomy

according to Dr. Washbon's study  
in a wide selection of sizes

### "uniform stress" system shaping

optimal elastic properties  
over the entire area of the band

### adjusted thickness

to the tooth size

### interior laser-etching

for increased bond strength.  
Ideal for REP, Herbst,  
First Class appliances



### laser-marking of sizes

allows the sterilization at high temperatures  
and a durable good view of sizing

### free prewelding service

custom prewelding service to any tube, bracket  
or accessory in the section "G".  
Ready delivery of standard prewelded bands  
for the most commonly used techniques

### wide choice

of assortments in autoclavable trays





## UPPER AND LOWER 1<sup>ST</sup> MOLAR BANDS

- E8200-00** Upper right - UR
- E8300-00** Upper left - UL
- E8600-00** Lower right - LR
- E8700-00** Lower left - LL

Pack of 10

- E8205-00** Upper right - UR
- E8305-00** Upper left - UL
- E8605-00** Lower right - LR
- E8705-00** Lower left - LL

Pack of 5

Made of biomedical stainless steel with graduated thickness upon tooth size and LASER etched identification number. Fitting anatomy, reduced height and increased retention due to the "laser etched" treatment make cementation perfect.

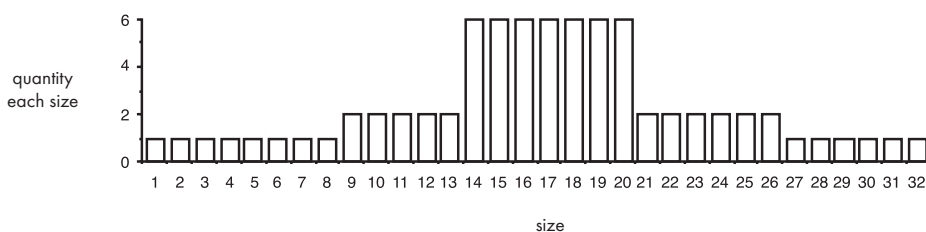
**Always specify the size when ordering e.g.: E8300-13**



All trays can be autoclaved to avoid cross infections.

## ASSORTMENTS

assorted kit of 78 bands on average use



6 | UR R **E8200-92**

6 | UL L **E8300-92**

6 | LR R **E8600-92**

6 | LL L **E8700-92**



## ANDREWS ROTH BOSTON ALEXANDER TECHNIQUE - UPPER

Tube .022"x.028". Torque -10°, rotation +8°. Round tube .051". (G8325-02 - G8325-03)

<b>E8520-00</b>	Right	UR		<b>Pack of 5</b>
<b>E8530-00</b>	Left	UL		



## ANDREWS ROTH BOSTON ALEXANDER TECHNIQUE - LOWER

Tube .022"x.028". Torque -25°, rotation +8°. Round tube .051". (G8325-06 - G8325-07)

<b>E8560-00</b>	Right	LR		<b>Pack of 5</b>
<b>E8570-00</b>	Left	LL		



Always specify the size when ordering e.g.: E8560-18

## RICKETTS TECHNIQUE - UPPER

Tubes .018"x.025". Round tube .045". (G8084-12 - G8084-13)

<b>E8820-00</b>	Right	UR		<b>Pack of 5</b>
<b>E8830-00</b>	Left	UL		



## RICKETTS TECHNIQUE - LOWER

Tubes .018"x.025". (G8070-16 - G8070-17)

<b>E8860-00</b>	Right	LR		<b>Pack of 5</b>
<b>E8870-00</b>	Left	LL		



Always specify the size when ordering e.g.: E8860-25

## STEP SYSTEM 2.0 TECHNIQUE / HYBRID HSDC<sup>®</sup> - UPPER

Convertible tube .022"x.028". Torque -14°, rotation +10°. Round tube .045". (G8424-32 - G8424-33) Lingual hook. (G2820-00)

<b>E8920-00</b>	Right	UR		<b>Pack of 5</b>
<b>E8930-00</b>	Left	UL		





# WEB anatomical bands prewelded to MIM<sup>®</sup> tubes

## STEP SYSTEM 2.0 TECHNIQUE / HYBRID HSDC<sup>®</sup> - LOWER



Convertible tube .022"x.028". Torque -20°, rotation +8°.  
(G8421-16 - G8421-17) Lingual hook. (G2820-00)

**E8960-00** Right LR  
**E8970-00** Left LL | Pack of 5

Always specify the size when ordering e.g.: E8970-19



Convertible tube .022" x .028". Torque -20°, rotation +8°. Round tube .045"  
(G8424-16 - G8424-17) Lingual hook. (G2820-00)

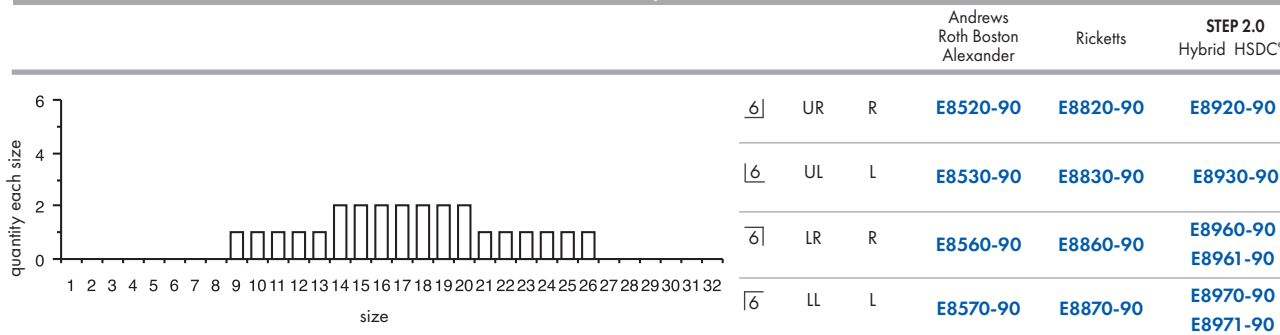
**E8961-00** Right LR  
**E8971-00** Left LL | Pack of 5

Always specify the size when ordering e.g.: E8971-18

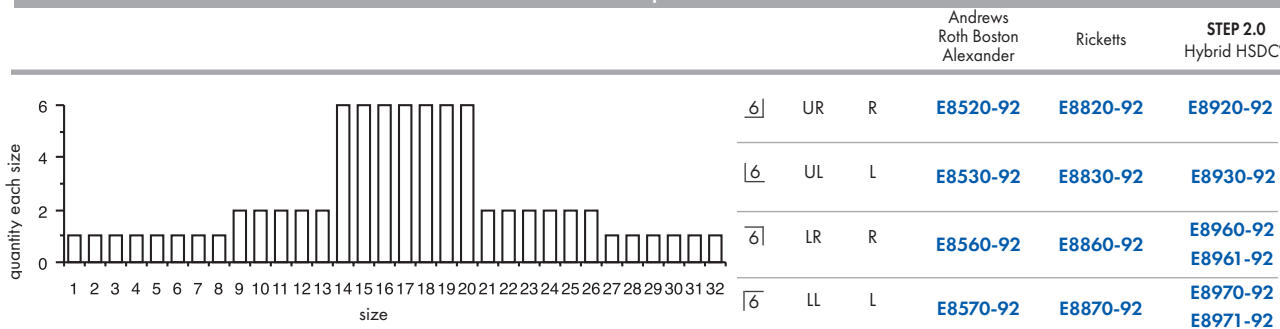
## WEB PREWELDED BANDS - ASSORTMENTS

Prewelded **WEB** bands for Andrews, Roth, Boston, Alexander, Ricketts, STEP system 2.0 and Hybrid HSDC<sup>®</sup> prescriptions are available in assortments of 25 or 78 bands. All trays can be autoclaved to avoid cross infection.

### assorted kit of 25 prewelded bands



### assorted kit of 78 prewelded bands



**new**



## E3164-00 GLASS IONOMER CEMENT

This glass ionomer cement is specifically developed for orthodontic use. The smooth and fluid two-component mixture exhibits exceptional adherence to tooth enamel and stainless steel of bands. A release of fluoride ions enhances the protection of enamel from caries.

**Pack of 25 g powder and 15 ml liquid**



## E3163-00 LIGHT-CURING BAND CEMENT WITH FLUORIDE RELEASE

Optimal consistency for application and cementation of bands. The yellow colour indicates the excess material before polymerization and eventual residuals after band removal.

**Pack of 3 syringes, 5 g each**

## EMPTY TRAYS FOR BAND STORAGE

Autoclavable.

**Pack of 1**



- Z0110-22** CALIBRA® I molar upper right UR
- Z0110-23** CALIBRA® I molar upper left UL
- Z0110-24** CALIBRA® I molar lower right LR
- Z0110-25** CALIBRA® I molar lower left LL
- Z0110-26** CALIBRA® II molar upper right SUR
- Z0110-27** CALIBRA® II molar upper left SUL
- Z0110-28** CALIBRA® II molar lower right SLR
- Z0110-29** CALIBRA® II molar lower left SLL
- Z0110-30** CALIBRA® upper bicuspid U
- Z0110-31** CALIBRA® lower bicuspid L



- Z0110-32** WEB I molar upper right UR
- Z0110-33** WEB I molar upper left UL
- Z0110-34** WEB I molar lower right LR
- Z0110-35** WEB I molar lower left LL



- Z0100-01**  
**EMPTY KIT BOX FOR BRACKET AND BAND STORAGE**  
Made of ABS plastic resin. With clear plastic cover. Stackable.  
**Pack of 1**



## FREE PREWELDING SERVICE

High quality service processed with spot welding industrial units. Here below an illustration of standard prewelding service of our tubes and brackets is provided.

**The Leone bands are weldable with any tube, bracket and accessory included in the section "G" of catalogue.**

	standard preweld vestibular position		standard preweld lingual position		
<b>bicuspid</b>	Bracket is perfectly mesio-distal and occlusal-gingival centered			Central position slightly offset to occlusal	
<b>molars</b>	The rectangular tube of bracket is always perfectly centered			Central position	

Variation in weld position may be requested if clearly specified when ordering.

To fulfil the execution of each individual welding requirement, we invite you to closely follow the specifications required, by indicating the part number of bands, brackets or tubes desired.

### THE FOLLOWING SPECIFICATIONS ARE NECESSARY TO ORDER PREWELDED BANDS:

- type of band: pedodontic, bicuspid, 1st or 2nd molar, upper, lower, right or left
- band size
- type of bracket or band
- rectangular tube or bracket's slot size
- torque, rotation adjustments of tube or bracket
- round tube diameter
- round tube preweld position reflecting the specific prescriptions of the selected tube.

Ready prewelded bands for the most used techniques most in use are available for a prompt delivery (pages 76, 77, 80, 81).



## SEATING LUG

It assists in seating the band.

Choose a bicuspid band without a seating lug to preweld any bracket or accessories.

### CAUTION:

**NO RETURNS OF CUSTOM PREWELDED MATERIAL WILL BE ACCEPTED FOR ANY REASON.**

## CALIBRA® BANDS UPPER BICUSPIDS

## CALIBRA® BANDS LOWER BICUSPIDS

5 4 | 4 5

as indication only

5 4 | 4 5

LEONE Calibra - E5101 / E5100-00	G.A.C. Dentsply Sirona Snap-Fit	AMERICAN ORTH. Mr. Bicuspid	ORMCO Bicuspid Bands	DENTAURUM Standard	UNITEK Contoured	UNITEK General purpose	UNITEK Proportioned	FORESTADENT	R.M.O. Truform	LANCER Universal	LEONE Calibra - E5501 / E5500-00	G.A.C. Dentsply Sirona Snap-Fit	AMERICAN ORTH. Mr. Bicuspid	ORMCO Bicuspid Bands	DENTAURUM Standard	UNITEK Contoured	UNITEK General purpose	UNITEK Proportioned	FORESTADENT	R.M.O. Truform	LANCER Universal		
1			1	1		00		1			1			1					1				
2		1											1		2				2			1	
3		2		2				2	G	1	2			1	3		0	1	3				
4		3	2	3		0		3			3		2		4		1+	4	4	F		2	
5		4	3	4		0+	1	4	G+	2	4			3	5	1	2	5	5				
6				5		1	2	5			5		5	4	6		2+	6	6	F+		3	
7	1	5	4	6		1+		6	H	3	6		6	6	7		3+	8	7			4	
8		7	6	7		2+	4	7	H+		7		8										
9	2	8		8	2		5	8			8												
10	3	9	7	9		3	6	9		6	9	1	9	7	8		5	10	8	G		6	
11	4		9	10		4		10		7				8	9				11	9	G+	7	
12			11	10	11	4+	8	11	I+			2	10	9	10	5	5+	12	10	H			
13	5	12	11	12	4		9	12		8	10	3	11	10	11		6+		11			8	
14	6	14	12	13		5	10	13	J	9	11			11	12	7	7	14	12	H+		9	
15	7	15	13	14		6	12	14	J+	10	12	4	13		13		8	16	13			10	
16	8	17	14	15	6	6+		15		11	13		14	12	14	9	8+	17	14	I		11	
17				16		7	13	16	K		14												
18	9	19	15	17	7		14	17		12	15	5	15		15		9+		15	I+		12	
19	10	20	16	18	8	7+	15	18		13	16	6	16	14	16	11	10	19	16			13	
20			17	19		8	16	19	K+	14	17			15	17	12	11	21	17	J		14	
21		21									18	7	17	17	18		12		18			15	
22		22									19	9	19		19	14	12+	23	19	K		16	
23	12	24	19	20	10	9+		20	L	15	20												
24	13	25	20	21		10	19	21		16	21	10	20	19	20	15	13+	25	20				
25	14		21	22			20	22	L+	17	22	11	21	21	21		14+	27	21	K+		17	
	15	27	22	23	11	10+	21	23	M		23	12	23	21	22	17	15		22			18	
26		28	23	24		11	22	24		18	24		24		23	18	15+	28	23	L		19	
27	16		24	25	12	11+	23	25		19	25	13		22	24		16	29	24	L+		20	
28		29									26		26										
29		30	25	26		12+	24	26	M+	20	27		28		25		17	31	25	M		21	
30	17		26	27	13	13	25	27		21	28	14	29	25	26		18	33	26			22	
31		31			14						29												
32	18	32	28	28		13+	27	28	N	22	30		30	26	27		19	34	27	M+		23	
			29	29		14	28	29	N+	23	31	16		27	28	22	19+	35	28				
	19		31	30		15	29	30		24	32	17	31	28	29		20	36	29			24	
			32	31			30	31		25			32	29	30				30				25
	20			32				32						30	31				38	31			26
															32				32				27



**CALIBRA® AND WEB BANDS UPPER 1<sup>st</sup> MOLAR** | **CALIBRA® AND WEB BANDS LOWER 1<sup>st</sup> MOLAR**

CALIBRA® AND WEB BANDS UPPER 1 <sup>st</sup> MOLAR													CALIBRA® AND WEB BANDS LOWER 1 <sup>st</sup> MOLAR																		
LEONE Calibra - E1200/E1300-00	LEONE Web - E8200/E8300-00	G.A.C. Dentisply Sirona Snap-Fit	AMERICAN ORTH. MR1 Contoured	ORMCO Standard High-Retention	ORMCO Ultima	ORMCO Washbon	DENTAURUM Standard	DENTAURUM Dentaform	UNITEK Narrow Contoured	UNITEK General Purpose	FORESTADENT W Fit Form	HENRY SCHEIN Epic	R.M.O. Truform	LANCER Original	LEONE Calibra - E1600/E1700-00	LEONE Web - E8600/E8700-00	G.A.C. Dentisply Sirona Snap-Fit	AMERICAN ORTH. MR1 Contoured	ORMCO Standard High-Retention	ORMCO Ultima	ORMCO Washbon	DENTAURUM Standard	DENTAURUM Dentaform	UNITEK Narrow Contoured	UNITEK General Purpose	FORESTADENT W Fit Form	HENRY SCHEIN Epic	R.M.O. Truform	LANCER Original		
		1					1						3										1				28,5		2		
		2					2	1															2						3		
1		3		1			3		3	29,5				1	2	1	4					1	3	3	29,5				4		
2		4		2			4	4			1		6	2	4	3	6		1		2	1	3	2	5	30					
3				3			5			30	2	2	7	3					2			3					1	5	1		
4	1	5			1	6	5			30,5		3			5	4	7			4	4	6					1	2			
5	2	7		4		2		6			3			4	6	5	8		3		5	7			30,5	2		6			
6	3	8		5	5	7		7	31		4		8	5						5		8					2	3			
7	4	9		6	6	3		8		31	5		9	6	7	6	9	1,5	4		6	6	9	31	31		3	7	4		
8	5	10	2		7		8		31	5		9	6	7	8	7	10		5	6	7	10				4	3	8	5		
9	6	11	3	10	10	6		9	9	32	32	6	5		9	8			6	5		7	10			4	3	8	5		
10	7	12		11	11	7		10			7	6	11	9	8	7	10		7	7	7	8	11	31,5		5	4	9			
11	8	13		12	12	8		11	11	33		8		10	9	8		2	8	8	8	9		32		7		10	7		
12	9	14	4	13	13	9		12		33	9			11	9	11			8	8	9		32			7		10	7		
13	10	15		14	14	10		13	33,5	33,5	10	7	12	11	10	9			9	9		10	13		32,5		5		8		
				15				14	34	34		8		12	11	10			9	9		10	13		32,5		6		11		
14	11	16		15				15			10			13	10	12			10	10		11	14		33		6		11		
15	12	17		16	11	16	16	35	35	14		16	14	14	11	10	13		11	10	9	12		33		7	12	10			
16	13	18	5	17	17		17	35,5	35,5	15	11	17	15	15	12	11	14	3,5	13	12	10	13		33,5		8	14	12			
				18				18		16	12	18	16	16	13	12	15		14	12	15	18	34,5	34,5	13		9		15		
17	14	19	6	18	18	14	19		36	36	13		17	17	14	16	4	16	15	13	19	35	35		14	10		15			
18	15	20		19	19	15	19		36,5	17		14	19	18	15	14	17		17	16	15	20	35,5	35,5	15		18	16	16		
19	16	21	6,5	19	20	16	20	20	36,5		18	20	19	19	16	15		5	17		17	21			16	11		17	17		
20	17	22	7	20	20	17	21		37	37		15	21	20	17	16	18		18	18	16	18					19	17			
21	18	23		21	21						19		22	20	18	17	18											20	18		
22	19	24		22	22		22	37,5	37,5		16	23	21	21	18	17	19		19	19	17	19	23				21				
				23							17			22	19	18	20			18									22		
23	20	25	7,5	22							20		24	22	19	20	6		19	20		36,5	36,5	18	13	22	19		19		
24	21	26	8	23	23	21	24	24	38		22	19	26	23	20	21	6,5	20	20	20	21	24				14	23	20			
				24							23	20	27	23	21	22	7	21	21	21	22	26				15		21			
25	22	27	8,5	24	24		25				23	20	27	24	22	23			22	22	27	37,5	37,5	20			22		22		
				25	26		26	38,5	39	24	21	28	24	24	23	24			23	23		28				21	16	25			
26	23	28	9	25		23	26	27		25	22	29	25	25	24	25	8		24	24	23	29	38	38	22	23	17	27	24		
				26			28	39,5		26	23	31	27	27	25	26		8,5	25	26		30			38,5	24	18	29	25		
27	24	29	10	27	27	24	27	29		39,5	27	24	32	28	26	27		9	26	24	26		39	39	25		30	26			
				28	28		30			40		33	28	29	27	28			26		24	26						30	26		
				29			30	40,5		40,5	28	25	34	29	28	29			27		27	31	39,5			26	20	31			
28	25	30	10,5	29		25	29	31		40,5	29	27	35	30	28	29		9,5	27	27	25			39,5	27		32	27			
			11								28			31	29	28			28	28	26	28		40			21	33	28		
29	26	31		30	31	26	30	32			30	29		31	28	29			29	30	27	29	32		40	28	23	34	29		
				31	32						30			32	29	28	30	10		31	28	30		40,5	40,5	29	24		30		
30	27			32	27	31			41		31	31	36		30	29	11										25				
31	28			33	28									32	30	29	31		30		29	31				30	26	35			
32	29		12	34	29	32				41,5	32	32		32	31	30	32	11,5		33	30	32		41	41,5	31	27	36	31		
33	30			35	30									33	32	31		12			31					32	28				
34	31		13	36	31									34	33	32					32						29				
35	32			37	32									35	34												30				
36				38										36	35												31				
				39										37	36												32				

**CALIBRA® BANDS**  
**UPPER 2<sup>nd</sup> MOLAR**

**CALIBRA® BANDS**  
**LOWER 2<sup>nd</sup> MOLAR**

7 | 7

as indication only

7 | 7

LEONE Calibra - E2200/ E2300-00	G.A.C. Dentsply Sirona Snap-Fit	AMERICAN ORTH. MRI Contoured	ORMCO Standard High-Retention	DENTAURUM Dentaform	UNITEK Narrow Contoured	R.M.O. Truform	LANCER Original	LEONE Calibra - E2600/ E2700-00	G.A.C. Dentsply Sirona Snap-Fit	AMERICAN ORTH. MRI Contoured	ORMCO Standard High-Retention	DENTAURUM Dentaform	UNITEK Narrow Contoured	R.M.O. Truform	LANCER Original
				1	28			1	1						
1	1			2	28,5			2							
2	2			3	29			3	2				28		
				4	29,5		1	4	3				29		29,5
3	3			5				5	4						
4			1	6	30		2	6	5	1	1	29,5			30
5				7				7	6				30		
6	4	2		8	30,5		3	8			2	2	30		
7				9				9			3	3	30,5		30,5
8	5	3		10	31		4	10	7	1,5	4	5		31	31
9				11	31,5		5	11	8		5		31,5		31,5
10	6	4		12				12	9	2				7	32
11	7	1,5		13	32	7	7	13	10		6	6	32		
12	8	2	7	14	32,5		8	14		2,5	7	7			
13				15				15	11						
14	10	2,5	8	16	33	8		16			8	9		8	
15	11	3	9	17	33,5	9	11	17			9	10	33		33
16	12	3,5		18	34	10	12	18	12	3,5	10			9	
17	13	4	12	19	34,5		13	19				11	33,5		33,5
18	14		13	20				20	13					10	
19	15	4,5		21	35	11	14	21	14		11	12	34		34
20	16	5	15	22	35,5	12	15	22	15	4	12	13			34,5
21	17		16	23				23	16	4,5	13		34,5	11	
22	18			24	36	13		24	17		14	14			12
23	19			25				25	18		15	15	35	13	35
24	20		17	26	36,5	14	16	26	18	5	15			14	
25	21	5,5		27				27		5,5	16	16	35,5	15	35,5
26	22	6		28	37	15	17	28		6	17	17	36	16	36
27	23		18	29				29	19	6,5		18		17	36,5
28	24		19	30	37,5	16	18	30							
29	25	6,5		31				31	20	7	18	19	36,5	18	37
30	26	7	19	32				32				20			
31	27			33	38	17	19	33						19	
32	28			34				34	21	7,5	19		37	20	
33	29	7,5	20	35				35	22		20		37,5	21	37,5
34	30		21	36	38,5	18	22	36				21		22	
35	31		22	37				37	8	8	21	22	38		38
36	32	8	23	38	39	19	23	38	23		22	23		23	
37	33			39				39	24		23	24	38,5	24	38,5
38	34		23	40	39,5	20	24	40			24			25	
39	35	8,5	24	41				41	25		25	25	39		39
40	36		25	42				42	26		26	26		26	39,5
41	37	9	26	43	39	26	26	43	27	8,5	27	27		27	
42	38		27	44				44							
43	39		28	45				45	9				39,5		28
44	40	9,5		46	39,5	27	27	46		9,5	28			29	
45	41			47				47	28			28	40		30
46	42		28	48				48	29	10					31
47	43		29	49	40	30	29	49				29			
48	44	10		50				50	30		29	30	40,5		32
49	45		30	51	40,5	31	30	51		10,5					
50	46	10,5		52				52			30	31	41		
51	47		31	53				53			31				
52	48			54	41			54		11	31				
53	49			55				55				32			
54	50	11,5	32	56				56			32				

# DIRECT BONDING



F



	Edgewise	Super Edgewise	Tweed	Andrews	Roth	STEP system 2.0	Bidimensionali Boston	MBT*	Alexander	Ricketts	Burstone								
	page	page	page	page	page	page	page	page	page	page	page								
<b>STAINLESS STEEL</b>																			
InterActive SL					91			91											
Standard	93	93	95	95	96		97			96	97								
MINI Edgewise	94																		
MINI Diagonali				102	101			102		101									
MIDI Diagonali					103			104	105	105									
MIDI Diagonali with vertical slot					103		104												
Diagonal Round					107														
NO-Nickel EXTREMO	109				109														
Logic Line					113	115													
<b>SILICEOUS COPOLYMER</b>																			
Logic Line					122	120													
<b>CERAMICS</b>																			
AQUA					127					127									
AQUA SL					126			126											
Logic Line					122	121													
<b>MONOCRYSTALLINE SAPPHIRE</b>																			
Ghiaccio					124			124											
<b>MAXILLARY ARCH</b>																			
	torq.	ang.	torq.	ang.	torq.	ang.	torq.	ang.	torq.	ang.	torq.	ang.							
<u>1 1</u> central	0°	0°	0°	+7°	+5°	+12°	+5°	+17°	+4°	+12°	+5°	+17°	+4°	+14°	+5°	+22°	0°	+12°	+5°
<u>2 2</u> lateral	0°	0°	0°	+3°	+9°	+8°	+9°	+9°	+8°	+8°	+9°	+10°	+8°	+7°	+8°	+14°	+8°	+8°	+9°
<u>3 3</u> cuspid	0°	0°	0°	-7°	+11°	-2°	+13°	-7°	+13°	0°	+7°	-7°	+8°	-3°	+10°	+7°	+5°	-7°	+5°
<u>4 4</u> 1° bicuspid	0°	0°	0°	-7°	0°	-7°	0°	-7°	+2°	0°		-7°	0°	-7°	0°	0°	0°	-7°	0°
<u>5 5</u> 2° bicuspid	0°	0°	0°	-7°	0°	-7°	0°	-7°	+2°	0°		-7°	0°	-7°	0°	0°	0°	-7°	0°
<b>MANDIBULAR ARCH</b>																			
<u>1 1</u> central	0°	0°	0°	0°	0°	-6°	0°	0°	0°	-6°	0°	-6°	0°	-5°	0°	0°	0°	0°	0°
<u>2 2</u> lateral	0°	0°	0°	0°	0°	-6°	0°	0°	0°	-6°	0°	-6°	0°	-5°	0°	0°	0°	0°	0°
<u>3 3</u> cuspid	0°	0°	0°	-11°	+5°	-11°	+7°	-6°	+5°	0°	+6°	-6°	+3°	-7°	+6°	+7°	+5°	-11°	+6°
<u>4 4</u> 1° bicuspid	0°	0°	0°	-17°	0°	-17°	0°	-12°	+2°	0°		-12°	+2°	-11°	0°	0°	0°	-17°	0°
<u>5 5</u> 2° bicuspid	0°	0°	0°	-22°	0°	-22°	0°	-17°	+2°	0°		-17°	+2°	-17°	0°	-15°	0°	-22°	0°

## TORQUE

(+) = lingual torque of root  
 (-) = buccal torque of root

## ANGULATION

(+) = distal angulation of root  
 (-) = mesial angulation of root

The orthodontic brackets illustrated in this catalogue are not intended to be a duplication of any other existing system nor does Leone SpA imply that they are endorsed by the above mentioned doctors or Schools in any form.

On request, all direct bonding brackets are also available in bulk packages of 100, with the exception for those with plastic positioner, in ceramics, monocrystalline sapphire and self-ligating.

\*MBT is a Trademark of 3M Unitek

## Inter.\activeSL



### ball hooks

perfectly spherical and low profile for maximum comfort



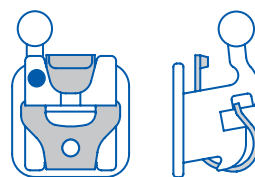
### MIM® technology

the ideal technology for the complexity of the design, maximum accuracy of slot and under tie wings

### tie wings

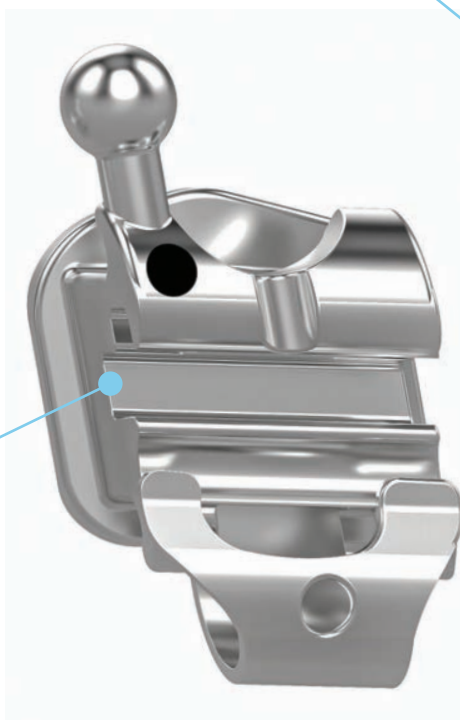
for the application of any kind of ligature in the eventual need for a biomechanical total control.

### spring clip



### beveled slot on mesio-distal edge

allows sliding of archwires for heavy misalignments, while avoiding notching and binding.



made of a highly elastic alloy, it guarantees easy and safe open/close movements. The sliding portion of the clip is constrained between the base and the body of the bracket by a laser welding that prevents the possibility of detachment

## MAXIMUM COMFORT AND VERSATILITY

InterActive SL self-ligating brackets, due to their design and reduced dimensions, offer a very comfortable treatment for the patient without loss of control. The interactive clip ensures an efficient clinical management with progressive biomechanical control to take advantage of the low friction early in treatment stages, while achieving perfect finishing with the final archwires.

## MATERIAL & DESIGN

The bracket body is made of biomedical steel and is laser welded on the 80 mesh gauge base with FDI identification. The colored dot with disto-gingival identification indicates each bracket quadrant, with the same color code of all Leone bracket range.

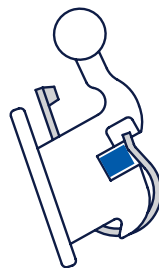
## INTERACTIVE CONTROL

The specific shape of clip and slot of InterActive brackets allows the user to modulate the most appropriate level of friction force between bracket and wire, depending on the needs of the various stages of treatment.



### Passive phase

First stage round arches are not bound by the clip: the low friction will facilitate the process of alignment and leveling



### Interactive phase

Rectangular arch wires, used for space closure, rotation, and torque control, work to elastically deform the clip for the biomechanical control necessary in these stages of treatment



### Active phase

Rectangular arches for finishing and detailing completely fill the slot while going into active contact with clip: this allows the exploitation of elastic properties in order to obtain minimal movements for finishing of treatment.

## EASY OPEN/CLOSE

The clip has a central hole and does not require any special tool for opening and closing.



### Opening

Insert the tip of a probe or utility tool into the hole in the clip and move towards the occlusal plane



### Closing

Slide the clip with a slight pressure towards the gums using a tool tip or even just a finger

## INTERACTIVE SL D.B. BRACKETS

Pack of 5



### INTERACTIVE SL Roth system

			torque	ang.	.022"x.030"		
		2.8	+12°	+5°	$\frac{1}{1}$	<b>F1100-11</b>	
					$\frac{1}{1}$	<b>F1100-21</b>	
		2.6	+8°	+9°	$\frac{2}{2}$	<b>F1100-12</b>	
					$\frac{2}{2}$	<b>F1100-22</b>	
		2.8	-2°	+13°	$\frac{3}{3}$	<b>F1100-13</b>	
					$\frac{3}{3}$	<b>F1100-23</b>	
		2.8	-7°	0°	$\frac{4}{4}$	<b>F1100-14</b>	
					$\frac{4}{4}$	<b>F1100-24</b>	
		2.8	-7°	0°	$\frac{5}{5}$	<b>F1100-15</b>	
					$\frac{5}{5}$	<b>F1100-25</b>	
		2.5	0°		$\frac{1}{1}$	<b>F1100-41</b>	
					$\frac{1}{1}$	<b>F1100-31</b>	
		2.5	0°		$\frac{2}{2}$	<b>F1100-42</b>	
					$\frac{2}{2}$	<b>F1100-32</b>	
		2.8	-11°	+7°	$\frac{3}{3}$	<b>F1100-43</b>	
					$\frac{3}{3}$	<b>F1100-33</b>	
		2.8	-17°	0°	$\frac{4}{4}$	<b>F1100-44</b>	
					$\frac{4}{4}$	<b>F1100-34</b>	
		2.8	-22°	0°	$\frac{5}{5}$	<b>F1100-45</b>	
					$\frac{5}{5}$	<b>F1100-35</b>	



### INTERACTIVE SL MBT\* system

			torque	ang.	.022"x.030"		
		2.8	+17°	+4°	$\frac{1}{1}$	<b>F1102-11</b>	
					$\frac{1}{1}$	<b>F1102-21</b>	
		2.6	+10°	+8°	$\frac{2}{2}$	<b>F1102-12</b>	
					$\frac{2}{2}$	<b>F1102-22</b>	
		2.8	-7°	+8°	$\frac{3}{3}$	<b>F1102-13</b>	
					$\frac{3}{3}$	<b>F1102-23</b>	
		2.8	-7°	0°	$\frac{4}{4}$	<b>F1100-14</b>	
					$\frac{4}{4}$	<b>F1100-24</b>	
		2.8	-7°	0°	$\frac{5}{5}$	<b>F1100-15</b>	
					$\frac{5}{5}$	<b>F1100-25</b>	
		2.5	-6°	0°	$\frac{1}{1}$	<b>F1102-41</b>	
					$\frac{1}{1}$	<b>F1102-31</b>	
		2.5	-6°	0°	$\frac{2}{2}$	<b>F1102-42</b>	
					$\frac{2}{2}$	<b>F1102-32</b>	
		2.8	-6°	+3°	$\frac{3}{3}$	<b>F1102-43</b>	
					$\frac{3}{3}$	<b>F1102-33</b>	
		2.8	-12°	+2°	$\frac{4}{4}$	<b>F1102-44</b>	
					$\frac{4}{4}$	<b>F1102-34</b>	
		2.8	-17°	+2°	$\frac{5}{5}$	<b>F1102-45</b>	
					$\frac{5}{5}$	<b>F1102-35</b>	



### INTERACTIVE SL Roth system

	20 brackets 1 case	200 brackets 10 cases
.022"	<b>F1100-91</b>	<b>F1101-91</b>



### INTERACTIVE SL MBT\* system

	20 brackets 1 case	200 brackets 10 cases
.022"	<b>F1100-92</b>	<b>F1101-92</b>

\*MBT is a Trademark of 3M Unitek.  
The orthodontic brackets illustrated in this catalogue are not intended to be a duplication of any other existing system nor does Leone SpA imply that they are endorsed by the above mentioned doctors or Schools in any form.

Leone offers a wide selection of D.B. brackets with all the options for traditional techniques.

Standard metal brackets are brazed with a special palladium base alloy to 80 gauge mesh sintered pads to assure high bond strength to the tooth with any kind of adhesive.

Bonding pads are anatomically contoured for a perfect fit to the tooth.

Brackets with hook are manufactured with **MIM**<sup>®</sup> (Metal Injection Moulding) technique which Leone is a leader of.

All the other types of standard metal brackets are manufactured from stainless steel profiles medical degree by means of computer aided machines.

Smooth and rounded contours to guarantee the maximum comfort for the patient and to facilitate the elimination of the plaque.

The pre adjusted brackets feature a disto-gingival identification dot to simplify the application in the mouth.

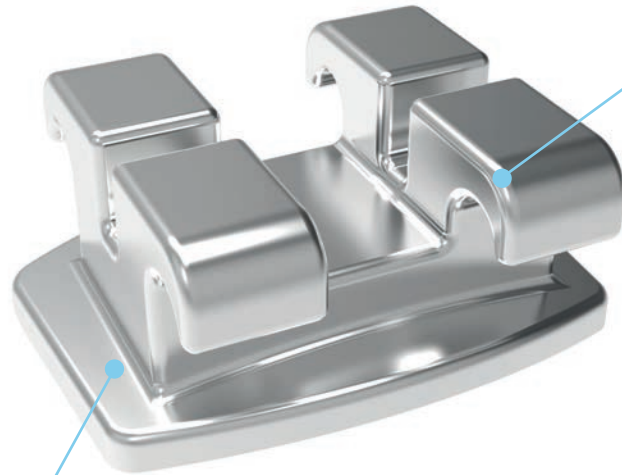
All Leone brackets are supplied in pleasant and ergonomic packages.

## disto-gingival identification dot

featured on the pre adjusted brackets to simplify the application in the mouth

## rounded edges

to ensure the best patient comfort



## anatomical bonding base

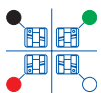
designed to match the anatomy of the tooth

## brackets with hook

manufactured with **MIM**<sup>®</sup> (Metal Injection Moulding) technology



The identification of Leone standard brackets is easy:



A colour dot identifies the disto-gingival edge on standard brackets pre adjusted with torque and angulation values.  
Caution! The colour dot must be always disto-gingival positioned.



A bevel may be present on lower anteriors which has to be always positioned to the incisal side to minimize occlusal interference.



High tie wings on bicusps have to be positioned to the gingival side for ease of ligation and to prevent gingival impingement



Ball hooks have to be always positioned to the gingival side.



There is no difference in the placement for brackets without angulation or torque adjustments and not colour coded.



## Edgewise standard system

		torque	ang.	.018"x.030"	.022"x.030"		
			0°	$\frac{1}{1}$	<b>F2081-21</b>	<b>F2021-21</b>	
			0°	$\frac{2}{2}$	<b>F2082-31</b>	<b>F2022-31</b>	
			0°	$\frac{3}{3}$	<b>F2083-04</b>	<b>F2023-04</b>	
			0°	$\frac{3}{3}$	<b>F2073-02</b>	<b>F2013-02</b>	
			0°	$\frac{4}{4}$	<b>F2089-04</b>	<b>F2029-04</b>	
			0°	$\frac{5}{5}$	<b>F2089-04</b>	<b>F2029-04</b>	
			0°	$\frac{5}{5}$	<b>F2079-02</b>	<b>F2019-02</b>	
			0°	$\frac{5}{5}$	<b>F2079-03</b>	<b>F2019-03</b>	
			0°	$\frac{1}{1}$	<b>F2080-05</b>	<b>F2020-25</b>	
			0°	$\frac{2}{2}$	<b>F2080-05</b>	<b>F2020-25</b>	
			0°	$\frac{3}{3}$	<b>F2083-04</b>	<b>F2023-04</b>	
			0°	$\frac{3}{3}$	<b>F2073-03</b>	<b>F2013-03</b>	
			0°	$\frac{3}{3}$	<b>F2073-02</b>	<b>F2013-02</b>	
			0°	$\frac{4}{4}$	<b>F2089-04</b>	<b>F2029-04</b>	
			0°	$\frac{5}{5}$	<b>F2089-04</b>	<b>F2029-04</b>	
			0°	$\frac{5}{5}$	<b>F2079-03</b>	<b>F2019-03</b>	
			0°	$\frac{5}{5}$	<b>F2079-02</b>	<b>F2019-02</b>	



## Super Edgewise system with vertical slot

		torque	ang.	.018"x.030"	.022"x.030"		
			0°	$\frac{1}{1}$	<b>F2081-21</b>	<b>F2021-21</b>	
			0°	$\frac{2}{2}$	<b>F2082-21</b>	<b>F2022-21</b>	
			0°	$\frac{3}{3}$	<b>F2183-04</b>	<b>F2123-04</b>	
			0°	$\frac{3}{3}$	<b>F2173-02</b>	<b>F2113-02</b>	
			0°	$\frac{3}{3}$	<b>F2173-03</b>	<b>F2113-03</b>	
			0°	$\frac{4}{4}$	<b>F2189-04</b>	<b>F2129-04</b>	
			0°	$\frac{5}{5}$	<b>F2189-04</b>	<b>F2129-04</b>	
			0°	$\frac{5}{5}$	<b>F2179-02</b>	<b>F2119-02</b>	
			0°	$\frac{5}{5}$	<b>F2179-03</b>	<b>F2119-03</b>	
			0°	$\frac{1}{1}$	<b>F2080-35</b>	<b>F2020-05</b>	
			0°	$\frac{2}{2}$	<b>F2080-35</b>	<b>F2020-05</b>	
			0°	$\frac{3}{3}$	<b>F2183-04</b>	<b>F2123-04</b>	
			0°	$\frac{3}{3}$	<b>F2173-03</b>	<b>F2113-03</b>	
			0°	$\frac{3}{3}$	<b>F2173-02</b>	<b>F2113-02</b>	
			0°	$\frac{4}{4}$	<b>F2189-04</b>	<b>F2129-04</b>	
			0°	$\frac{5}{5}$	<b>F2189-04</b>	<b>F2129-04</b>	
			0°	$\frac{5}{5}$	<b>F2179-03</b>	<b>F2119-03</b>	
			0°	$\frac{5}{5}$	<b>F2179-02</b>	<b>F2119-02</b>	

Pack of 10

Pack of 10

THIS SYSTEM IS ALSO AVAILABLE WITH POSITIONER (SEE PAGE 98)

THIS SYSTEM IS ALSO AVAILABLE WITH POSITIONER (SEE PAGE 98)

## Edgewise standard system

		20 brackets - 1 case		200 brackets - 10 cases		500 brackets - 25 cases		1000 brackets - 50 cases	
		with hook		with hook					
.018"	<b>F2080-91</b>	<b>F2070-91</b>	<b>F2081-91</b>	<b>F2071-91</b>	<b>F2083-91</b>	<b>F2085-91</b>			
.022"	<b>F2020-91</b>	<b>F2010-91</b>	<b>F2021-91</b>	<b>F2011-91</b>	<b>F2023-91</b>	<b>F2025-91</b>			

## Super Edgewise system with vertical slot

.018"	<b>F2180-91</b>	<b>F2170-91</b>	<b>F2181-91</b>	<b>F2171-91</b>	<b>F2183-91</b>	<b>F2185-91</b>			
.022"	<b>F2120-91</b>	<b>F2110-91</b>	<b>F2121-91</b>	<b>F2111-91</b>	<b>F2123-91</b>	<b>F2125-91</b>			



# D.B. metal brackets standard



## Edgewise Mini system

		torque	ang.			.018"x.030"	.022"x.030"
		3.3	0°	$\frac{1}{1}$		<b>F2281-01</b>	<b>F2221-01</b>
		2.7	0°	$\frac{2}{2}$		<b>F2282-01</b>	<b>F2222-01</b>
		2.7	0°	$\frac{3}{3}$		<b>F2283-04</b>	<b>F2223-04</b>
		2.7	0°	$\frac{4}{4}$		<b>F2289-04</b>	<b>F2229-04</b>
		2.7	0°	$\frac{5}{5}$		<b>F2289-04</b>	<b>F2229-04</b>
		2.1	0°	$\frac{1}{1}$		<b>F2280-05</b>	<b>F2220-05</b>
		2.1	0°	$\frac{2}{2}$		<b>F2280-05</b>	<b>F2220-05</b>
		2.7	0°	$\frac{3}{3}$		<b>F2283-04</b>	<b>F2223-04</b>
		2.7	0°	$\frac{4}{4}$		<b>F2289-04</b>	<b>F2229-04</b>
		2.7	0°	$\frac{5}{5}$		<b>F2289-04</b>	<b>F2229-04</b>

### Pack of 10

## Edgewise Mini system

		20 brackets - 1 case	200 brackets - 10 cases
.018"		<b>F2280-91</b>	<b>F2281-91</b>
.022"		<b>F2220-91</b>	<b>F2221-91</b>
		500 brackets - 25 cases	1000 brackets - 50 cases
.018"		<b>F2283-91</b>	<b>F2285-91</b>
.022"		<b>F2223-91</b>	<b>F2225-91</b>



### PACKAGES

All brackets are exclusively sold in original Leone packaging: kits of 1, 10, 25, 50 cases and refill packages of 10. Each single-case kit is sealed closed, providing a guarantee of hygiene and cleanliness when opened in the presence of the patient. The back label displays the product code, description, lot number and product symbols.

The 10-case kits are made with ABS plastic. A large label on the kit cover displays the product code, description and lot number; the same information is also clearly displayed on the front drawers of the conveniently stackable Leone kits.

Inside the trays, a clear plastic cover protects the brackets, as well as provides information pertaining to their correct placement.





**Tweed system**

		torque	ang.	.018"x.030"	.022"x.030"		
			0°	$\frac{1}{1}$	<b>F2080-11</b>	<b>F2020-11</b>	
			0°	$\frac{2}{2}$	<b>F2080-11</b>	<b>F2020-11</b>	
			0°	$\frac{3}{3}$	<b>F2083-24</b>	<b>F2023-24</b>	
			0°	$\frac{4}{4}$	<b>F2089-14</b>	<b>F2029-14</b>	
			0°	$\frac{5}{5}$	<b>F2089-14</b>	<b>F2029-14</b>	
			0°	$\frac{1}{1}$	<b>F2080-15</b>	<b>F2020-04</b>	
			0°	$\frac{2}{2}$	<b>F2080-15</b>	<b>F2020-04</b>	
			0°	$\frac{3}{3}$	<b>F2083-24</b>	<b>F2023-24</b>	
			0°	$\frac{4}{4}$	<b>F2089-14</b>	<b>F2029-14</b>	
			0°	$\frac{5}{5}$	<b>F2089-14</b>	<b>F2029-14</b>	

Pack of 10

THIS SYSTEM IS ALSO AVAILABLE WITH POSITIONER (SEE PAGE 98)



**Andrews system**

		torque	ang.	.018"x.030"	.022"x.030"		
			+7°	+5°	$\frac{1}{1}$	<b>F2481-12</b>	<b>F2421-12</b>
					$\frac{1}{1}$	<b>F2481-13</b>	<b>F2421-13</b>
			+3°	+9°	$\frac{2}{2}$	<b>F2482-32</b>	<b>F2422-12</b>
					$\frac{2}{2}$	<b>F2482-33</b>	<b>F2422-13</b>
			-7°	+11°	$\frac{3}{3}$	<b>F2483-22</b>	<b>F2423-42</b>
					$\frac{3}{3}$	<b>F2483-23</b>	<b>F2423-43</b>
			-7°	+11°	$\frac{3}{3}$	<b>F2473-12</b>	<b>F2413-12</b>
					$\frac{3}{3}$	<b>F2473-13</b>	<b>F2413-13</b>
			-7°	0°	$\frac{4}{4}$	<b>F2484-05</b>	<b>F2429-11</b>
			-7°	0°	$\frac{5}{5}$	<b>F2484-05</b>	<b>F2429-11</b>
			-7°	0°	$\frac{5}{5}$	<b>F2479-02</b>	<b>F2419-12</b>
					$\frac{5}{5}$	<b>F2479-03</b>	<b>F2419-13</b>
			0°		$\frac{1}{1}$	<b>F2080-35</b>	<b>F2020-05</b>
			0°		$\frac{2}{2}$	<b>F2080-35</b>	<b>F2020-05</b>
			-11°	+5°	$\frac{3}{3}$	<b>F2483-26</b>	<b>F2423-36</b>
					$\frac{3}{3}$	<b>F2483-27</b>	<b>F2423-37</b>
			-11°	+5°	$\frac{3}{3}$	<b>F2473-16</b>	<b>F2413-16</b>
					$\frac{3}{3}$	<b>F2473-17</b>	<b>F2413-17</b>
			-17°	0°	$\frac{4}{4}$	<b>F2489-25</b>	<b>F2429-05</b>
			-22°	0°	$\frac{5}{5}$	<b>F2489-15</b>	<b>F2429-15</b>
			-22°	0°	$\frac{5}{5}$	<b>F2479-06</b>	<b>F2419-16</b>
					$\frac{5}{5}$	<b>F2479-07</b>	<b>F2419-17</b>

Pack of 10

THIS SYSTEM IS ALSO AVAILABLE WITH POSITIONER (SEE PAGE 98)



**Tweed system**

	20 brackets - 1 case		200 brackets - 10 cases		500 brackets - 25 cases		1000 brackets - 50 cases	
	with hook		with hook					
.018"	<b>F2080-93</b>		<b>F2081-93</b>		<b>F2083-93</b>		<b>F2085-93</b>	
.022"	<b>F2020-93</b>		<b>F2021-93</b>		<b>F2023-93</b>		<b>F2025-93</b>	

**Andrews system**

.018"	<b>F2480-92</b>	<b>F2470-93</b>	<b>F2481-92</b>	<b>F2471-93</b>	<b>F2483-92</b>		<b>F2485-92</b>	
.022"	<b>F2420-93</b>	<b>F2410-93</b>	<b>F2421-93</b>	<b>F2411-93</b>	<b>F2423-93</b>		<b>F2425-93</b>	



# D.B. metal brackets standard



**Roth system**

		torque	ang.	.018"x.030"	.022"x.030"		
			+12°	+5°	$\frac{1}{1}$	<b>F2481-22</b>	<b>F2421-22</b>
					$\frac{1}{1}$	<b>F2481-23</b>	<b>F2421-23</b>
			+8°	+9°	$\frac{2}{2}$	<b>F2482-42</b>	<b>F2422-22</b>
					$\frac{2}{2}$	<b>F2482-43</b>	<b>F2422-23</b>
			-2°	+13°	$\frac{3}{3}$	<b>F2483-32</b>	<b>F2423-52</b>
					$\frac{3}{3}$	<b>F2483-33</b>	<b>F2423-53</b>
			-2°	+13°	$\frac{3}{3}$	<b>F2473-22</b>	<b>F2413-22</b>
					$\frac{3}{3}$	<b>F2473-23</b>	<b>F2413-23</b>
			-7°	0°	$\frac{4}{4}$	<b>F2484-05</b>	<b>F2429-11</b>
			-7°	0°	$\frac{5}{5}$	<b>F2484-05</b>	<b>F2429-11</b>
			-7°	0°	$\frac{5}{5}$	<b>F2479-02</b>	<b>F2419-12</b>
					$\frac{5}{5}$	<b>F2479-03</b>	<b>F2419-13</b>
			0°		$\frac{1}{1}$	<b>F2080-35</b>	<b>F2020-05</b>
			0°		$\frac{2}{2}$	<b>F2080-35</b>	<b>F2020-05</b>
			-11°	+5°	$\frac{3}{3}$	<b>F2483-26</b>	<b>F2423-36</b>
					$\frac{3}{3}$	<b>F2483-27</b>	<b>F2423-37</b>
			-11°	+5°	$\frac{3}{3}$	<b>F2473-16</b>	<b>F2413-16</b>
					$\frac{3}{3}$	<b>F2473-17</b>	<b>F2413-17</b>
			-17°	0°	$\frac{4}{4}$	<b>F2489-25</b>	<b>F2429-05</b>
			-22°	0°	$\frac{5}{5}$	<b>F2489-15</b>	<b>F2429-15</b>
			-22°	0°	$\frac{5}{5}$	<b>F2479-06</b>	<b>F2419-16</b>
					$\frac{5}{5}$	<b>F2479-07</b>	<b>F2419-17</b>

Pack of 10



THIS SYSTEM IS ALSO AVAILABLE WITH POSITIONER (SEE PAGE 98)



**Ricketts system**

		torque	ang.	.018"x.030"			
			+22°	0°	$\frac{1}{1}$	<b>F2481-32</b>	<b>F2481-33</b>
			+14°	+8°	$\frac{2}{2}$	<b>F2482-02</b>	<b>F2482-03</b>
			+7°	+5°	$\frac{3}{3}$	<b>F2483-02</b>	<b>F2483-03</b>
			+7°	+5°	$\frac{3}{3}$	<b>F2473-02</b>	<b>F2473-03</b>
			0°		$\frac{4}{4}$	<b>F2084-04</b>	
			0°		$\frac{5}{5}$	<b>F2085-01</b>	
			0°		$\frac{5}{5}$	<b>F2075-02</b>	<b>F2075-03</b>
			0°		$\frac{1}{1}$	<b>F2080-35</b>	
			0°		$\frac{2}{2}$	<b>F2080-35</b>	
			+7°	+5°	$\frac{3}{3}$	<b>F2483-06</b>	<b>F2483-07</b>
			+7°	+5°	$\frac{3}{3}$	<b>F2473-06</b>	<b>F2473-07</b>
			0°		$\frac{4}{4}$	<b>F2084-04</b>	
			-15°	0°	$\frac{5}{5}$	<b>F2485-06</b>	<b>F2485-07</b>
			-15°	0°	$\frac{5}{5}$	<b>F2475-06</b>	<b>F2475-07</b>

Pack of 10



THIS SYSTEM IS ALSO AVAILABLE WITH POSITIONER (SEE PAGE 98)

**Roth system**

		20 brackets - 1 case		200 brackets - 10 cases		500 brackets - 25 cases		1000 brackets - 50 cases	
		with hook		with hook					
.018"	<b>F2480-95</b>	<b>F2470-95</b>	<b>F2481-95</b>	<b>F2471-95</b>	<b>F2483-95</b>	<b>F2485-95</b>			
.022"	<b>F2420-94</b>	<b>F2410-94</b>	<b>F2421-94</b>	<b>F2411-94</b>	<b>F2423-94</b>	<b>F2425-94</b>			

**Ricketts system**

.018"	<b>F2480-94</b>	<b>F2470-94</b>	<b>F2481-94</b>	<b>F2471-94</b>	<b>F2483-94</b>	<b>F2485-94</b>			
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**Boston system**

		torque	ang.	.018"x.030"	.022"x.030"		
			+12°	+5°	$\frac{1}{1}$	<b>F2481-22</b> <b>F2481-23</b>	
			+8°	+9°	$\frac{2}{2}$	<b>F2482-42</b> <b>F2482-43</b>	
			0°	+7°	$\frac{3}{3}$	<b>F2123-02</b> <b>F2123-03</b>	
			0°	+7°	$\frac{3}{3}$	<b>F2113-12</b> <b>F2113-13</b>	
			0°		$\frac{4}{4}$	<b>F2129-04</b>	
			0°		$\frac{5}{5}$	<b>F2129-04</b>	
			0°		$\frac{1}{1}$	<b>F2180-05</b>	
			0°		$\frac{2}{2}$	<b>F2180-05</b>	
			0°	+6°	$\frac{3}{3}$	<b>F2123-06</b> <b>F2123-07</b>	
			0°	+6°	$\frac{3}{3}$	<b>F2113-06</b> <b>F2113-07</b>	
			0°		$\frac{4}{4}$	<b>F2129-04</b>	
			0°		$\frac{5}{5}$	<b>F2129-04</b>	

Pack of 10



THIS SYSTEM IS ALSO AVAILABLE WITH POSITIONER (SEE PAGE 98)



**Burstone system**

		torque	ang.	.022"x.030"			
			+12°	+5°	$\frac{1}{1}$	<b>F2421-22</b> <b>F2421-23</b>	
			+8°	+9°	$\frac{2}{2}$	<b>F2422-22</b> <b>F2422-23</b>	
			-7°	+5°	$\frac{3}{3}$	<b>F2623-02</b> <b>F2623-03</b>	
			-7°	0°	$\frac{4}{4}$	<b>F2429-11</b>	
			-7°	0°	$\frac{5}{5}$	<b>F2429-11</b>	
			-7°	0°	$\frac{5}{5}$	<b>F2419-12</b> <b>F2419-13</b>	
			0°		$\frac{1}{1}$	<b>F2020-05</b>	
			0°		$\frac{2}{2}$	<b>F2020-05</b>	
			-11°	+6°	$\frac{3}{3}$	<b>F2623-06</b> <b>F2623-07</b>	
			-17°	0°	$\frac{4}{4}$	<b>F2429-05</b>	
			-22°	0°	$\frac{5}{5}$	<b>F2429-15</b>	
			-22°	0°	$\frac{5}{5}$	<b>F2419-16</b> <b>F2419-17</b>	

Pack of 10



**Boston system**

	20 brackets - 1 case		200 brackets - 10 cases		500 brackets - 25 cases		1000 brackets - 50 cases	
	with hook		with hook		with hook		with hook	
	<b>F2120-95</b>	<b>F2110-95</b>	<b>F2121-95</b>	<b>F2111-95</b>	<b>F2123-95</b>	<b>F2113-95</b>	<b>F2125-95</b>	<b>F2115-95</b>

**Burstone system**

.022"	<b>F2620-91</b>	<b>F2610-91</b>	<b>F2621-91</b>	<b>F2611-91</b>	<b>F2623-91</b>	<b>F2625-91</b>
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## D.B. BRACKETS WITH PLASTIC POSITIONER

Available in the Edgewise, Super Edgewise, Tweed, Ricketts, Andrews, Boston, Roth system only for prescriptions of metal brackets.

The vertical shape of the plastic positioner facilitates the alignment of the bracket with the tooth long axis while the incisal edge gives the exact occlusal-gingival position.

**Pack of 5**



## IDENTIFICATION SYSTEM OF EACH SINGLE TOOTH

The mouth is color coded by quadrant like the pre adjusted brackets.

Each plastic positioner is marked with a number identifying each tooth.



### Colour of positioner

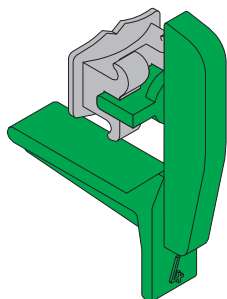
UR	BLACK	GREEN	LR
UL	RED	WHITE	LL

## HOW TO ORDER BRACKETS WITH PLASTIC POSITIONER

Part numbers are the same of the corresponding D.B. regular brackets.

In replacement of the hyphen, a letter identifying the single tooth has been inserted.

The part numbers of the kits are the same as the equivalent kits without plastic positioner, but in replacement of the hyphen, the letter "J" has been inserted.



### Upper right black

### Upper left green

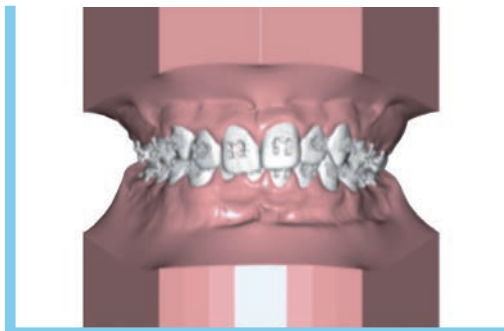
code letter									
I	G	E	C	A	B	D	F	H	K
5	4	3	2	1	1	2	3	4	5
tooth									
5	4	3	2	1	1	2	3	4	5
W	T	R	P	N	O	Q	S	U	X

### Lower right red

### Lower left white

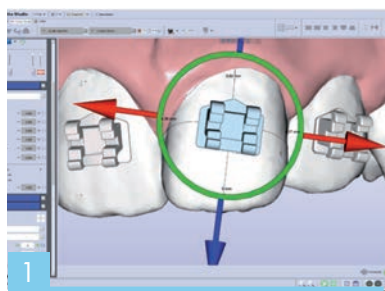
Example:

$\frac{2}{2}$  **F2022-31** = **F2022C31** black positioner  $\frac{2}{}$   
 Edgewise .022 **F2022D31** green positioner  $\frac{2}{}$

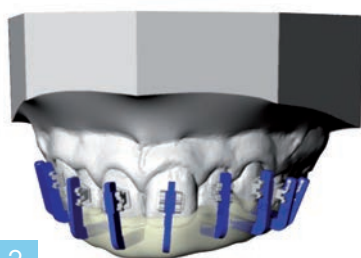


## DIGITALLY-ASSISTED INDIRECT BONDING SYSTEM\*

This is an innovative system of indirect bonding of brackets developed with a dedicate software for the correct digital mapping of brackets joined with the orthodontist's prescription plan and method used. Starting from the position of the brackets, the software plans a transfer-bite, made with high precision 3D printing scanner to get the accurate clinical reproduction of what digitally planned. For info and updates: [www.3dleone.it](http://www.3dleone.it)



1  
The Leone plug-in for Maestro 3D software ([www.age-solutions.com](http://www.age-solutions.com)) is dedicated to digital positioning of our brackets. The software library contains the most popular brackets among our range that are placed automatically on the teeth, based on typical settings of the prescription but, if desired, even in a completely customized mode.



2  
Once all brackets have been ideally placed, the software automatically displays the specific altimeters and draws a transfer-bite with rectangular seats for the insertion of the occlusal portion of the positioner.

3  
Once the transfer-bite is ready, the brackets must be joined physically to each corresponding positioner: thanks to the special design of the inter-bracket tie wing portion, the union with the bracket is stable and removable at the same time for the next clinical phase.



4  
The rectangular occlusal portion is placed into the corresponding location on the transfer-bite: in this way, the bracket preloaded with the adhesive on the base will be placed onto the previously conditioned tooth, in the exact position planned digitally.



5  
The use of the altimeters minimizes the thickness of the adhesive under the bracket and allows ease of removal of any adhesive excess before curing.



6  
The removal of the altimeter, thanks to its special design, is easy and does not cause any bracket detachment, which possibly may happen with the use of thermo-stamped transfer trays.



## POSITIONERS FOR DIGITALLY-ASSISTED SYSTEM

**F6100-04** Pack content: 4 sets, 20 positioners each, for Logic STEP 2.0 technique and additional 16 positioners for tubes F8321M12/13/16/17

**F6200-04** Pack content: 4 sets, 20 positioners each, for Logic Roth technique and additional 16 positioners for tubes F8321-02/03/06/07.

The positioners for brackets are individual for each tooth and marked according to the FDI system. They can be detached from the holder using a scalpel. The positioners for tubes are also individual, marked according to the FDI system and for exclusive use with the above indicated tubes.

\*PATENTED

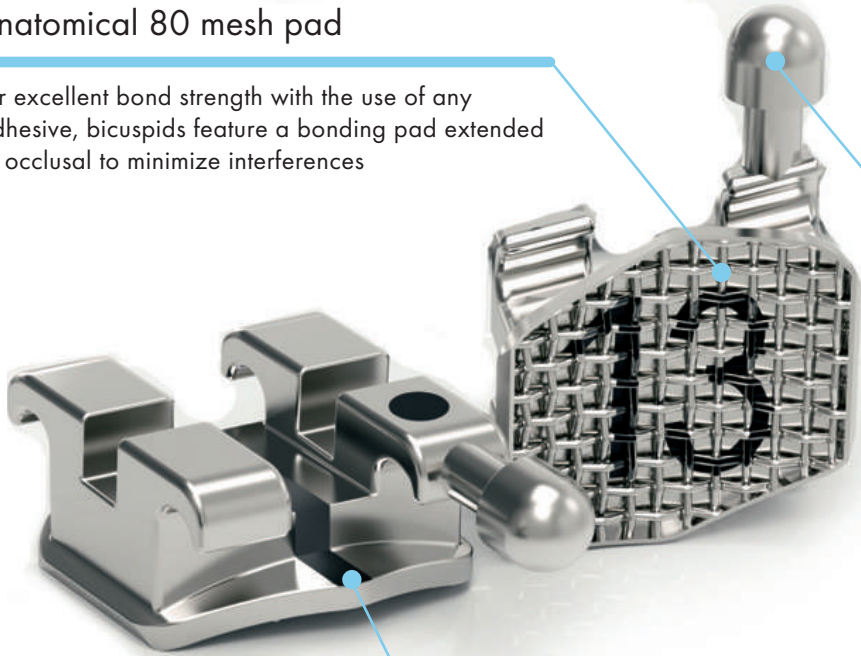
# D.B. METAL BRACKETS

with FDI identification



## anatomical 80 mesh pad

for excellent bond strength with the use of any adhesive, bicuspid features a bonding pad extended to occlusal to minimize interferences



## ball hook

**MIM**<sup>®</sup> injection molded and integrated on cuspids and bicuspid

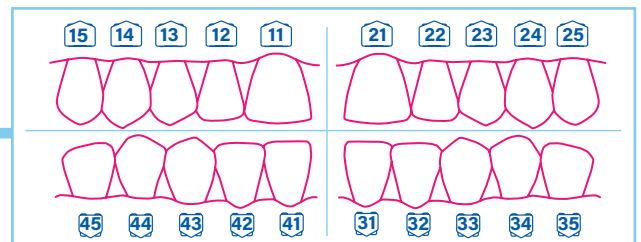
## central scribe line

laser marked between tie wings and identification disto-gingival dot for ease of placement



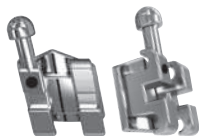
## FDI system marking

on the mesh pad



An FDI (Fédération Dentaire Internationale) identification number is laser marked on the mesh pad of every bracket, clearly indicating the tooth to which a specific bracket will be attached. This method identifies each tooth with a two-digit Arabic number: the first digit indicates the quadrant, the second identifies the tooth according to Palmer's notation. For example: the bracket for the upper right central incisor has got number 11 laser-marked on the mesh pad. The number, permanently etched and free of toxic substances, is immediately recognizable and easily readable without the aid of magnifying lenses.

The FDI system laser marking also improves bond strength.



## MINI DIAGONALI® Roth system



## MINI DIAGONALI® Ricketts system

		torque	ang.			.018"x.030"	.022"x.030"
		3.3	+12°	+5°	$\frac{1}{1}$	F7281-02 F7281-03	F7221-02 F7221-03
		2.7	+8°	+9°	$\frac{2}{2}$	F7282-02 F7282-03	F7222-02 F7222-03
		2.7	-2°	+13°	$\frac{3}{3}$	F7283-02 F7283-03	F7223-02 F7223-03
		2.7	-2°	+13°	$\frac{3}{3}$	F7273-02 F7273-03	F7213-02 F7213-03
		2.7	-7°	0°	$\frac{4}{4}$	F7184-02 F7184-03	F7124-02 F7124-03
		2.7	-7°	0°	$\frac{4}{4}$	F7274-02 F7274-03	F7214-02 F7214-03
		2.7	-7°	0°	$\frac{5}{5}$	F7185-02 F7185-03	F7125-02 F7125-03
		2.7	-7°	0°	$\frac{5}{5}$	F7179-02 F7179-03	F7119-02 F7119-03
		2.1	0°		$\frac{1}{1}$	F7081-06 F7081-07	F7021-06 F7021-07
		2.1	0°		$\frac{2}{2}$	F7082-06 F7082-07	F7022-06 F7022-07
		2.7	-11°	+7°	$\frac{3}{3}$	F7283-06 F7283-07	F7223-06 F7223-07
		2.7	-11°	+7°	$\frac{3}{3}$	F7273-06 F7273-07	F7213-06 F7213-07
		2.7	-17°	0°	$\frac{4}{4}$	F7184-06 F7184-07	F7124-06 F7124-07
		2.7	-17°	0°	$\frac{4}{4}$	F7274-06 F7274-07	F7214-06 F7214-07
		2.7	-22°	0°	$\frac{5}{5}$	F7185-06 F7185-07	F7125-06 F7125-07
		2.7	-22°	0°	$\frac{5}{5}$	F7175-06 F7175-07	F7115-06 F7115-07

		torque	ang.			.018"x.030"	
		3.3	+22°	0°	$\frac{1}{1}$	F7081-02 F7081-03	F7081-03
		2.7	+14°	+8°	$\frac{2}{2}$	F7082-02 F7082-03	F7082-03
		2.7	+7°	+5°	$\frac{3}{3}$	F7083-02 F7083-03	F7083-03
		2.7	+7°	+5°	$\frac{3}{3}$	F7073-02 F7073-03	F7073-03
		2.7	0°		$\frac{4}{4}$	F7084-02 F7084-03	F7084-03
		2.7	0°		$\frac{4}{4}$	F7074-02 F7074-03	F7074-03
		2.7	0°		$\frac{5}{5}$	F7085-02 F7085-03	F7085-03
		2.7	0°		$\frac{5}{5}$	F7079-02 F7079-03	F7079-03
		2.1	0°		$\frac{1}{1}$	F7081-06 F7081-07	F7081-07
		2.1	0°		$\frac{2}{2}$	F7082-06 F7082-07	F7082-07
		2.7	+7°	+5°	$\frac{3}{3}$	F7083-06 F7083-07	F7083-07
		2.7	+7°	+5°	$\frac{3}{3}$	F7073-06 F7073-07	F7073-07
		2.7	0°		$\frac{4}{4}$	F7084-06 F7084-07	F7084-07
		2.7	0°		$\frac{4}{4}$	F7074-06 F7074-07	F7074-07
		2.7	-15°	0°	$\frac{5}{5}$	F7085-06 F7085-07	F7085-07
		2.7	-15°	0°	$\frac{5}{5}$	F7075-06 F7075-07	F7075-07

Pack of 10

Pack of 10

Brackets not available into kits



### MINI DIAGONALI® Roth system

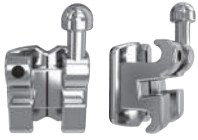
	20 brackets - 1 case	200 brackets - 10 cases	500 brackets - 25 cases	1000 brackets - 50 cases
.018"	F7270-91	F7271-91	F7273-91	
.022"	F7210-91	F7211-91	F7213-91	F7215-91

### MINI DIAGONALI® Ricketts system

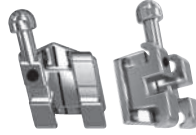
.018"	F7070-91	F7071-91	F7073-91	F7075-91
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13

# D.B. brackets MINI DIAGONALI® with FDI identification



## MINI DIAGONALI® system Andrews



## MINI DIAGONALI® system MBT\*

		torque	ang.			.018"x.030"	.022"x.030"		
		3.3	+7°	+5°	$\frac{1}{1}$	F7181-02 F7181-03	F7121-02 F7121-03		
		2.7	+3°	+9°	$\frac{2}{2}$	F7182-02 F7182-03	F7122-02 F7122-03		
		2.7	-7°	+11°	$\frac{3}{3}$	F7183-02 F7183-03	F7123-02 F7123-03		
		2.7	-7°	+11°	$\frac{3}{3}$	F7173-02 F7173-03	F7113-02 F7113-03		
		2.7	-7°	0°	$\frac{4}{4}$	F7184-02 F7184-03	F7124-02 F7124-03		
		2.7	-7°	0°	$\frac{5}{5}$	F7185-02 F7185-03	F7125-02 F7125-03		
		2.7	-7°	0°	$\frac{5}{5}$	F7179-02 F7179-03	F7119-02 F7119-03		
		2.1	0°		$\frac{1}{1}$	F7081-06 F7081-07	F7021-06 F7021-07		
		2.1	0°		$\frac{2}{2}$	F7082-06 F7082-07	F7022-06 F7022-07		
		2.2	-11°	+5°	$\frac{3}{3}$	F7183-06 F7183-07	F7123-06 F7123-07		
		2.2	-11°	+5°	$\frac{3}{3}$	F7173-06 F7173-07	F7113-06 F7113-07		
		2.7	-17°	0°	$\frac{4}{4}$	F7184-06 F7184-07	F7124-06 F7124-07		
		2.7	-22°	0°	$\frac{5}{5}$	F7185-06 F7185-07	F7125-06 F7125-07		
		2.7	-22°	0°	$\frac{5}{5}$	F7175-06 F7175-07	F7115-06 F7115-07		

Pack of 10

Brackets not available into kits

		torque	ang.			.018"x.030"	.022"x.030"		
		3.3	+17°	+4°	$\frac{1}{1}$	F7380-11 F7380-21	F7320-11 F7320-21		
		2.7	+10°	+8°	$\frac{2}{2}$	F7380-12 F7380-22	F7320-12 F7320-22		
		2.7	-7°	+8°	$\frac{3}{3}$	F7380-13 F7380-23	F7320-13 F7320-23		
		2.7	-7°	+8°	$\frac{3}{3}$	F7370-13 F7370-23	F7310-13 F7310-23		
		2.7	-7°	0°	$\frac{4}{4}$	F7380-14 F7380-24	F7320-14 F7320-24		
		2.7	-7°	0°	$\frac{4}{4}$	F7370-14 F7370-24	F7310-14 F7310-24		
		2.7	-7°	0°	$\frac{5}{5}$	F7380-15 F7380-25	F7320-15 F7320-25		
		2.7	-7°	0°	$\frac{5}{5}$	F7370-15 F7370-25	F7310-15 F7310-25		
		2.1	-6°	0°	$\frac{1}{1}$	F7380-41 F7380-31	F7320-41 F7320-31		
		2.1	-6°	0°	$\frac{2}{2}$	F7380-42 F7380-32	F7320-42 F7320-32		
		2.7	-6°	+3°	$\frac{3}{3}$	F7380-43 F7380-33	F7320-43 F7320-33		
		2.7	-6°	+3°	$\frac{3}{3}$	F7370-43 F7370-33	F7310-43 F7310-33		
		2.7	-12°	+2°	$\frac{4}{4}$	F7380-44 F7380-34	F7320-44 F7320-34		
		2.7	-12°	+2°	$\frac{4}{4}$	F7370-44 F7370-34	F7310-44 F7310-34		
		2.7	-17°	+2°	$\frac{5}{5}$	F7380-45 F7380-35	F7320-45 F7320-35		
		2.7	-17°	+2°	$\frac{5}{5}$	F7370-45 F7370-35	F7310-45 F7310-35		

Pack of 10

### MINI DIAGONALI® Andrews system

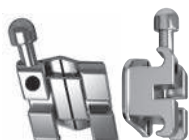
	20 brackets - 1 case	200 brackets - 10 cases	500 brackets - 25 cases	1000 brackets - 50 cases
.018"	F7170-91	F7171-91		
.022"	F7110-91	F7111-91		F7115-91

### MINI DIAGONALI® MBT\* system

.018"	F7370-91	F7371-91	F7373-91	F7375-91
.022"	F7310-91	F7311-91	F7313-91	F7315-91



\*MBT is a Trademark of 3M Unitek. The orthodontic brackets illustrated in this catalogue are not intended to be a duplication of any other existing system nor does Leone SpA imply that they are endorsed by the above mentioned doctors or Schools in any form.



## MIDI DIAGONALI Roth system



## MIDI DIAGONALI Roth system with vertical slot

		torque	ang.		.018"x.030"	.022"x.030"	
		3.6	+12°	+5°	$\frac{1}{1}$	F4281-02 F4281-03	F4221-02 F4221-03
		3	+8°	+9°	$\frac{2}{2}$	F4282-02 F4282-03	F4222-02 F4222-03
		3.3	-2°	+13°	$\frac{3}{3}$	F4273-02 F4273-03	F4213-02 F4213-03
		3.3	-2°	+13°	$\frac{3}{3}$	F4283-02 F4283-03	F4223-02 F4223-03
		3.3	-7°	0°	$\frac{4}{4}$	F4274-02 F4274-03	F4214-02 F4214-03
		3.3	-7°	0°	$\frac{4}{4}$	F4284-02 F4284-03	F4224-02 F4224-03
		3.3	-7°	0°	$\frac{5}{5}$	F4275-02 F4275-03	F4215-02 F4215-03
		3.3	-7°	0°	$\frac{5}{5}$	F4285-02 F4285-03	F4225-02 F4225-03
		2.1	0°		$\frac{1}{1}$	F4281-06 F4281-07	F4221-06 F4221-07
		2.1	0°		$\frac{2}{2}$	F4282-06 F4282-07	F4222-06 F4222-07
		3.3	-11°	+7°	$\frac{3}{3}$	F4273-06 F4273-07	F4213-06 F4213-07
		3.3	-11°	+7°	$\frac{3}{3}$	F4283-06 F4283-07	F4223-06 F4223-07
		3.3	-17°	0°	$\frac{4}{4}$	F4274-06 F4274-07	F4214-06 F4214-07
		3.3	-17°	0°	$\frac{4}{4}$	F4284-06 F4284-07	F4224-06 F4224-07
		3.3	-22°	0°	$\frac{5}{5}$	F4275-06 F4275-07	F4215-06 F4215-07
		3.3	-22°	0°	$\frac{5}{5}$	F4285-06 F4285-07	F4225-06 F4225-07

		torque	ang.		.018"x.030"	.022"x.030"	
		3.6	+12°	+5°	$\frac{1}{1}$	F4280-11 F4280-21	F4220-11 F4220-21
		3	+8°	+9°	$\frac{2}{2}$	F4280-12 F4280-22	F4220-12 F4220-22
		3.3	-2°	+13°	$\frac{3}{3}$	F4270-13 F4270-23	F4210-13 F4210-23
		3.3	-7°	0°	$\frac{4}{4}$	F4270-14 F4270-24	F4210-14 F4210-24
		3.3	-7°	0°	$\frac{5}{5}$	F4270-15 F4270-25	F4210-15 F4210-25
		2.1	0°		$\frac{1}{1}$	F4280-41 F4280-31	F4220-41 F4220-31
		2.1	0°		$\frac{2}{2}$	F4280-42 F4280-32	F4220-42 F4220-32
		3.3	-11°	+7°	$\frac{3}{3}$	F4270-43 F4270-33	F4210-43 F4210-33
		3.3	-17°	0°	$\frac{4}{4}$	F4270-44 F4270-34	F4210-44 F4210-34
		3.3	-22°	0°	$\frac{5}{5}$	F4270-45 F4270-35	F4210-45 F4210-35

Pack of 10

Brackets not available into kits

Pack of 10



## MIDI DIAGONALI system Roth

	20 brackets - 1 case	200 brackets - 10 cases	500 brackets - 25 cases	1000 brackets - 50 cases
.018"	F4270-91	F4271-91	F4273-91	F4275-91
.022"	F4210-91	F4211-91	F4213-91	F4215-91

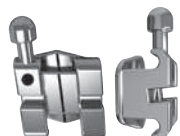
## MIDI DIAGONALI Roth system with vertical slot

.018"	F4270-92	F4271-92	F4273-92
.022"	F4210-92	F4211-92	F4213-92



# 13 D.B. brackets MIDI DIAGONALI

with FDI identification



## MIDI DIAGONALI MBT\* system



## MIDI DIAGONALI Bidimensional system with vertical slot

torque		ang.		.018" x .030"		.022" x .030"	
		3.6	+17°	+4°	$\frac{1}{1}$	F4480-11 F4420-11	F4480-21 F4420-21
		3	+10°	+8°	$\frac{2}{2}$	F4480-12 F4420-12	F4480-22 F4420-22
		3.3	-7°	+8°	$\frac{3}{3}$	F4470-13 F4410-13	F4470-23 F4410-23
		3.3	0°	+8°	$\frac{3}{3}$		F4411-13 F4411-23
		3.3	-7°	+8°	$\frac{3}{3}$	F4480-13 F4420-13	F4480-23 F4420-23
		3.3	-7°	0°	$\frac{4}{4}$	F4470-14 F4410-14	F4470-24 F4410-24
		3.3	-7°	0°	$\frac{4}{4}$	F4480-14 F4420-14	F4480-24 F4420-24
		3.3	-7°	0°	$\frac{5}{5}$	F4470-15 F4410-15	F4470-25 F4410-25
		3.3	-7°	0°	$\frac{5}{5}$	F4480-15 F4420-15	F4480-25 F4420-25
		2.1	-6°	0°	$\frac{1}{1}$	F4480-41 F4420-41	F4480-31 F4420-31
		2.1	-6°	0°	$\frac{2}{2}$	F4480-42 F4420-42	F4480-32 F4420-32
		3.3	-6°	+3°	$\frac{3}{3}$	F4470-43 F4410-43	F4470-33 F4410-33
		3.3	0°	+3°	$\frac{3}{3}$		F4411-43 F4411-33
		3.3	-6°	+3°	$\frac{3}{3}$	F4480-43 F4420-43	F4480-33 F4420-33
		3.3	-12°	+2°	$\frac{4}{4}$	F4470-44 F4410-44	F4470-34 F4410-34
		3.3	-12°	+2°	$\frac{4}{4}$	F4480-44 F4420-44	F4480-34 F4420-34
		3.3	-17°	+2°	$\frac{5}{5}$	F4470-45 F4410-45	F4470-35 F4410-35
		3.3	-17°	+2°	$\frac{5}{5}$	F4480-45 F4420-45	F4480-35 F4420-35

Pack of 10

torque		ang.		.018" x .030"		.022" x .030"	
		3.6	+12°	+5°	$\frac{1}{1}$	F4280-11	F4280-21
		3	+8°	+9°	$\frac{2}{2}$	F4280-12	F4280-22
		3.3	0°	+7°	$\frac{3}{3}$		F4211-13 F4211-23
		3.3	0°		$\frac{4}{4}$		F4211-14 F4211-24
		3.3	0°		$\frac{5}{5}$		F4211-15 F4211-25
		2.1	0°		$\frac{1}{1}$	F4280-41	F4280-31
		2.1	0°		$\frac{2}{2}$	F4280-42	F4280-32
		3.3	0°	+6°	$\frac{3}{3}$		F4211-43 F4211-33
		3.3	0°		$\frac{4}{4}$		F4211-44 F4211-34
		3.3	0°		$\frac{5}{5}$		F4211-45 F4211-35

Pack of 10

Brackets not available into kits

\*MBT is a Trademark of 3M Unitek. The orthodontic brackets illustrated in this catalogue are not intended to be a duplication of any other existing system nor does Leone SpA imply that they are endorsed by the above mentioned doctors or Schools in any form.

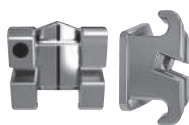
## MIDI DIAGONALI MBT\* system

	20 brackets - 1 case	200 brackets - 10 cases	500 brackets - 25 cases	1000 brackets - 50 cases
.018"	F4470-91	F4471-91	F4473-91	F4475-91
.022"	F4410-91	F4411-91	F4413-91	F4415-91
	F4410-92			

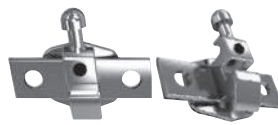
## MIDI DIAGONALI Bidimensional system with vertical slot

F4210-93	F4211-93	F4213-93
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## MIDI DIAGONALI Ricketts system



## MIDI DIAGONALI Alexander system

		torque	ang.			.018"x.030"	
		3.6	+22°	0°	$\frac{1}{1}$	F4381-02	
					$\frac{1}{1}$	F4381-03	
		3	+14°	+8°	$\frac{2}{2}$	F4382-02	
					$\frac{2}{2}$	F4382-03	
		3.3	+7°	+5°	$\frac{3}{3}$	F4373-02	
					$\frac{3}{3}$	F4373-03	
		3.3	+7°	+5°	$\frac{3}{3}$	F4383-02	
					$\frac{3}{3}$	F4383-03	
		3.3	0°		$\frac{4}{4}$	F4374-02	
					$\frac{4}{4}$	F4374-03	
		3.3	0°		$\frac{4}{4}$	F4384-02	
					$\frac{4}{4}$	F4384-03	
		3.3	0°		$\frac{5}{5}$	F4375-02	
					$\frac{5}{5}$	F4375-03	
		3.3	0°		$\frac{5}{5}$	F4385-02	
					$\frac{5}{5}$	F4385-03	
		2.1	0°		$\frac{1}{1}$	F4281-06	
					$\frac{1}{1}$	F4281-07	
		2.1	0°		$\frac{2}{2}$	F4282-06	
					$\frac{2}{2}$	F4282-07	
		3.3	+7°	+5°	$\frac{3}{3}$	F4373-06	
					$\frac{3}{3}$	F4373-07	
		3.3	+7°	+5°	$\frac{3}{3}$	F4383-06	
					$\frac{3}{3}$	F4383-07	
		3.3	0°		$\frac{4}{4}$	F4374-06	
					$\frac{4}{4}$	F4374-07	
		3.3	0°		$\frac{4}{4}$	F4384-06	
					$\frac{4}{4}$	F4384-07	
		3.3	-15°	0°	$\frac{5}{5}$	F4375-06	
					$\frac{5}{5}$	F4375-07	
		3.3	-15°	0°	$\frac{5}{5}$	F4385-06	
					$\frac{5}{5}$	F4385-07	

Pack of 10

		torque	ang.			.018"x.030"	.022"x.030"
		3.6	+14°	+5°	$\frac{1}{1}$	F4580-11	F4520-11
					$\frac{1}{1}$	F4580-21	F4520-21
		3	+7°	+8°	$\frac{2}{2}$	F4580-12	F4520-12
					$\frac{2}{2}$	F4580-22	F4520-22
		6.2	-3°	+10°	$\frac{3}{3}$	F4580-13	F4520-13
					$\frac{3}{3}$	F4580-23	F4520-23
		6.2	-3°	+10°	$\frac{3}{3}$	F4570-13	F4510-13
					$\frac{3}{3}$	F4570-23	F4510-23
		5.2	-7°	0°	$\frac{4}{4}$	F4580-14	F4520-14
					$\frac{4}{4}$	F4580-24	F4520-24
		5.2	-7°	0°	$\frac{5}{5}$	F4580-15	F4520-15
					$\frac{5}{5}$	F4580-25	F4520-25
		4.5	-5°	0°	$\frac{1}{1}$	F4580-41	F4520-41
					$\frac{1}{1}$	F4580-31	F4520-31
		4.5	-5°	0°	$\frac{2}{2}$	F4580-42	F4520-42
					$\frac{2}{2}$	F4580-32	F4520-32
		6.2	-7°	+6°	$\frac{3}{3}$	F4580-43	F4520-43
					$\frac{3}{3}$	F4580-33	F4520-33
		6.2	-7°	+6°	$\frac{3}{3}$	F4570-43	F4510-43
					$\frac{3}{3}$	F4570-33	F4510-33
		5.2	-11°	0°	$\frac{4}{4}$	F4580-44	F4520-44
					$\frac{4}{4}$	F4580-34	F4520-34
		5.2	-17°	0°	$\frac{5}{5}$	F4580-45	F4520-45
					$\frac{5}{5}$	F4580-35	F4520-35

Pack of 10

Brackets not available into kits



### MIDI DIAGONALI Ricketts system

	20 brackets - 1 case	200 brackets - 10 cases	500 brackets - 25 cases	1000 brackets - 50 cases
.018"	F4370-91	F4371-91	F4373-91	F4375-91

### MIDI DIAGONALI Alexander system

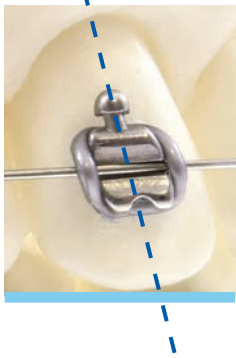
.018"	F4580-94	F4581-94	F4583-94	F4585-94
.022"	F4520-92	F4521-92	F4523-92	F4525-92

# D.B. brackets Diagonal Round with FDI identification



## Diagonal Round angulation

for easy bracket placement



## anatomical 80 mesh pad with FDI identification

for excellent bond strength  
with the use of any adhesive

maximum comfort

thanks to reduced sizes  
and rounded edges



## MIM® integral ball hook

on cuspids and bicuspid





# D.B. brackets Diagonal Round with FDI identification

























































## D.B. BRACKETS DIAGONAL ROUND


Manufactured using **MIM**® technology, in stainless steel welded on 80 gauge mesh sintered pads to ensure a secure bond strength to the tooth. Diagonal Round angulation, torque-in-base and calibrated sizes optimize biomechanics thus decreasing therapeutic time.

**Pack of 10**

### DIAGONAL ROUND Roth system

							
		torque	ang.			.018"x.030"	.022"x.030"
		 3.2	+12°	+5°	 1	<b>F6380-11</b>	<b>F6320-11</b>
					 1	<b>F6380-21</b>	<b>F6320-21</b>
		 2.5	+8°	+9°	 2	<b>F6380-12</b>	<b>F6320-12</b>
					 2	<b>F6380-22</b>	<b>F6320-22</b>
		 3	-2°	+13°	 3	<b>F6374-13</b>	<b>F6314-13</b>
					 3	<b>F6374-23</b>	<b>F6314-23</b>
		 3	-7°	0°	 4	<b>F6379-14</b>	<b>F6319-14</b>
					 4	<b>F6379-24</b>	<b>F6319-24</b>
		 3	-7°	0°	 5	<b>F6379-15</b>	<b>F6319-15</b>
					 5	<b>F6379-25</b>	<b>F6319-25</b>
		 2.4	0°		 1	<b>F6380-41</b>	<b>F6320-41</b>
					 1	<b>F6380-31</b>	<b>F6320-31</b>
		 2.4	0°		 2	<b>F6380-42</b>	<b>F6320-42</b>
					 2	<b>F6380-32</b>	<b>F6320-32</b>
		 3	-11°	+7°	 3	<b>F6374-43</b>	<b>F6314-43</b>
					 3	<b>F6374-33</b>	<b>F6314-33</b>
		 3	-17°	0°	 4	<b>F6379-44</b>	<b>F6319-44</b>
					 4	<b>F6379-34</b>	<b>F6319-34</b>
		 3	-22°	0°	 5	<b>F6379-45</b>	<b>F6319-45</b>
					 5	<b>F6379-35</b>	<b>F6319-35</b>

### DIAGONAL ROUND Roth system

	20 brackets 1 case	200 brackets 10 cases
.018"	<b>F6380-91</b>	<b>F6381-91</b>
.022"	<b>F6320-91</b>	<b>F6321-91</b>



# EXTREMO

Single piece bracket **MIM**<sup>®</sup>

- Precision
- Constant quality
- No soldering points
- Computer designed anatomical bond bases
- Excellent bond strength
- Biocompatibility
- Patient comfort

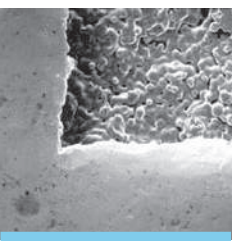


## FDI system marking

on the mesh pad  
(for Roth prescription)

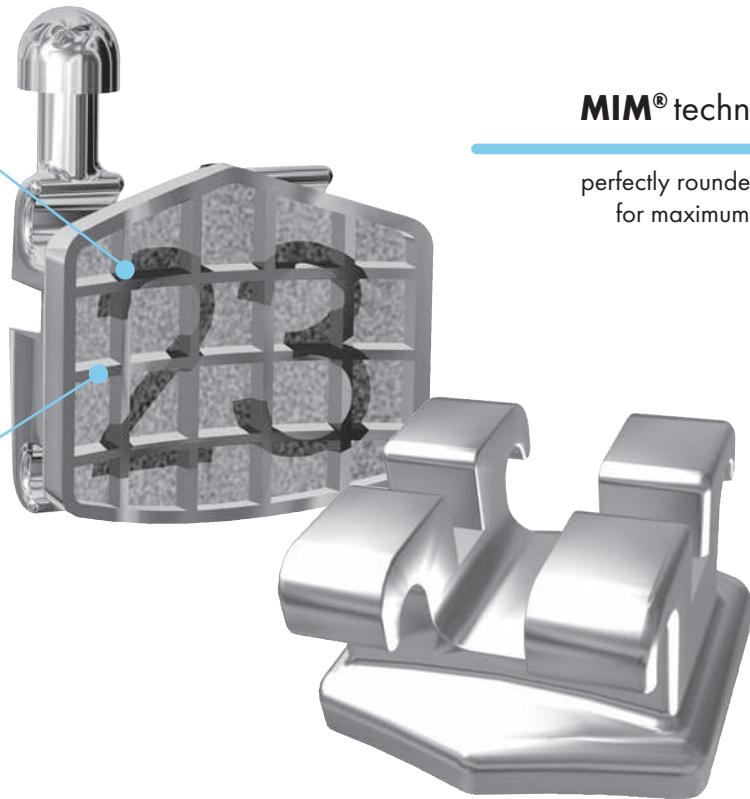
## high retention base

with micro cavities to ensure  
strong retention to the tooth



## MIM<sup>®</sup> technology

perfectly rounded edges  
for maximum comfort



Extremo nickel-free\* brackets are entirely biocompatible. They are CAD designed to get anatomical fits and **MIM**<sup>®</sup> moulded in single piece, without any soldering point. The anatomical base features highly retentive micro cavities for a perfect bond strength and rounded edges to provide patient compliance. The base on Roth prescription brackets is laser marked with FDI number for immediate identification.

\*Nickel trace elements of  $\leq 0,1\%$  are due to the process of manufacturing



## EXTREMO Edgewise Standard system

		torque	ang.	.018"x.030"	.022"x.030"		
		3.6	0°	$\frac{1}{1}$	<b>F9081-11</b>	<b>F9021-11</b>	
		3	0°	$\frac{2}{2}$	<b>F9081-12</b>	<b>F9021-12</b>	
		3.3	0°	$\frac{3}{3}$	<b>F9088-14</b>	<b>F9028-14</b>	
		3.3	0°	$\frac{4}{4}$	<b>F9088-14</b>	<b>F9028-14</b>	
		3.3	0°	$\frac{5}{5}$	<b>F9088-14</b>	<b>F9028-14</b>	
		2.6	0°	$\frac{1}{1}$	<b>F9080-15</b>	<b>F9020-15</b>	
		2.6	0°	$\frac{2}{2}$	<b>F9080-15</b>	<b>F9020-15</b>	
		3.3	0°	$\frac{3}{3}$	<b>F9088-14</b>	<b>F9028-14</b>	
		3.3	0°	$\frac{4}{4}$	<b>F9088-14</b>	<b>F9028-14</b>	
		3.3	0°	$\frac{5}{5}$	<b>F9088-14</b>	<b>F9028-14</b>	

Pack of 10



## EXTREMO Roth system with FDI identification

		torque	ang.	.018"x.030"	.022"x.030"		
		3.6	+12°	+5°	$\frac{1}{1}$	<b>F9280-11</b>	<b>F9220-11</b>
		3.6	+12°	+5°	$\frac{1}{1}$	<b>F9280-21</b>	<b>F9220-21</b>
		3	+8°	+9°	$\frac{2}{2}$	<b>F9280-12</b>	<b>F9220-12</b>
		3	+8°	+9°	$\frac{2}{2}$	<b>F9280-22</b>	<b>F9220-22</b>
		3.3	-2°	+13°	$\frac{3}{3}$	<b>F9270-13</b>	<b>F9210-13</b>
		3.3	-2°	+13°	$\frac{3}{3}$	<b>F9270-23</b>	<b>F9210-23</b>
		3.3	-7°	0°	$\frac{4}{4}$	<b>F9270-14</b>	<b>F9210-14</b>
		3.3	-7°	0°	$\frac{4}{4}$	<b>F9270-24</b>	<b>F9210-24</b>
		3.3	-7°	0°	$\frac{5}{5}$	<b>F9270-15</b>	<b>F9210-15</b>
		3.3	-7°	0°	$\frac{5}{5}$	<b>F9270-25</b>	<b>F9210-25</b>
		2.6	0°		$\frac{1}{1}$	<b>F9280-41</b>	<b>F9220-41</b>
		2.6	0°		$\frac{1}{1}$	<b>F9280-31</b>	<b>F9220-31</b>
		2.6	0°		$\frac{2}{2}$	<b>F9280-42</b>	<b>F9220-42</b>
		2.6	0°		$\frac{2}{2}$	<b>F9280-32</b>	<b>F9220-32</b>
		3.3	-11°	+7°	$\frac{3}{3}$	<b>F9270-43</b>	<b>F9210-43</b>
		3.3	-11°	+7°	$\frac{3}{3}$	<b>F9270-33</b>	<b>F9210-33</b>
		3.3	-17°	0°	$\frac{4}{4}$	<b>F9270-44</b>	<b>F9210-44</b>
		3.3	-17°	0°	$\frac{4}{4}$	<b>F9270-34</b>	<b>F9210-34</b>
		3.3	-22°	0°	$\frac{5}{5}$	<b>F9270-45</b>	<b>F9210-45</b>
		3.3	-22°	0°	$\frac{5}{5}$	<b>F9270-35</b>	<b>F9210-35</b>

Pack of 10



### EXTREMO Edgewise Standard system

		20 brackets - 1 case	200 brackets - 10 cases	500 brackets - 25 cases	1000 brackets - 50 cases
.018"		<b>F9080-92</b>	<b>F9081-92</b>	<b>F9083-92</b>	<b>F9085-92</b>
.022"		<b>F9020-92</b>	<b>F9021-92</b>	<b>F9023-92</b>	<b>F9025-92</b>

### EXTREMO Roth system with FDI identification

.018"		<b>F9270-91</b>	<b>F9271-91</b>	<b>F9273-91</b>	<b>F9275-91</b>
.022"		<b>F9210-91</b>	<b>F9211-91</b>	<b>F9213-91</b>	<b>F9215-91</b>



Courtesy of Dr. D. Celli



## HYBRID HSDC® SYSTEM BRACKETS

The **IBRIDO HSDC®** system is an orthodontic method, conceived under the suggestion of Dr. Daniel Celli which combines brackets with .020" and .022" dual slot size.

It optimizes biomechanics, both in extraction or non-extraction cases, thus managing friction and maintaining control of anterior teeth. Treatment time is considerably reduced with more predictable results

Anterior brackets have a slot of .020" while cuspid and bicuspid brackets have a slot of .022"; this dual slot size thereby gets full advantage of the low friction in the early stages of treatment and effective torque control during en-masse retraction of the anterior teeth.

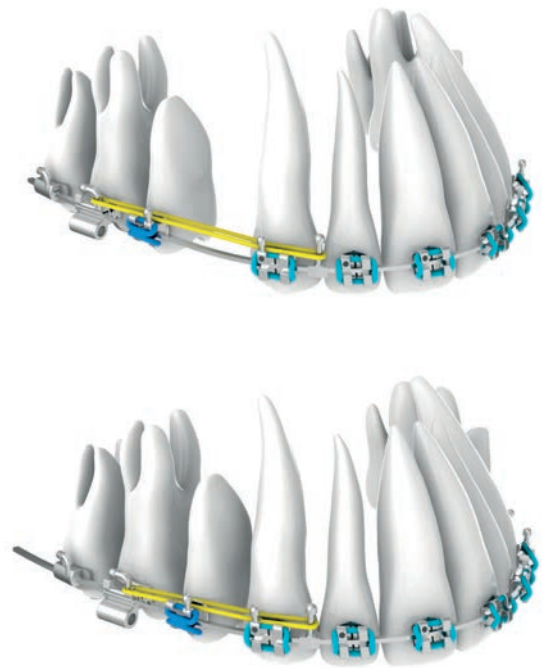
hscd® brackets are now all twin conventional brackets which allow the change of friction delivery depending on the use of low-friction **SLIDE** ligatures, either conventional or metal, optimizing the sequence of archwires according to malocclusion and therapeutic phase.

The vertical slot .020"x.020" on cuspid and bicuspid brackets allows the use of uprighting springs, very useful in the management of anchorage and bio-mechanical control.

**Pack of 10**

### HYBRID HSDC® system

		torque	ang.	.020"x.030"	.022"x.030"	
		3.6	+14°	+5°	$\frac{1}{1}$	<b>F4020-11</b> <b>F4020-21</b>
		3	+7°	+9°	$\frac{2}{2}$	<b>F4020-12</b> <b>F4020-22</b>
		3.3	0°	+7°	$\frac{3}{3}$	<b>F4211-13</b> <b>F4211-23</b>
		3.3	-7°	+8°	$\frac{3}{3}$	<b>F4420-13</b> <b>F4420-23</b>
		3.3	-7°	0°	$\frac{4}{4}$	<b>F4210-14</b> <b>F4210-24</b>
		3.3	-7°	0°	$\frac{5}{5}$	<b>F4210-15</b> <b>F4210-25</b>
		2.1	-6°	0°	$\frac{1}{1}$	<b>F4020-41</b> <b>F4020-31</b>
		2.1	-6°	0°	$\frac{2}{2}$	<b>F4020-42</b> <b>F4020-32</b>
		3.3	0°	+6°	$\frac{3}{3}$	<b>F4211-43</b> <b>F4211-33</b>
		3.3	-6°	+3°	$\frac{3}{3}$	<b>F4420-43</b> <b>F4420-33</b>
		3.3	-7°	0°	$\frac{4}{4}$	<b>F4210-44</b> <b>F4210-34</b>
		3.3	-22°	0°	$\frac{5}{5}$	<b>F4210-45</b> <b>F4210-35</b>



### HYBRID HSDC® system

	20 brackets - 1 case	200 brackets - 10 cases
	<b>F4020-92</b>	<b>F4021-92</b>

Brackets not available into kits

## SUGGESTED MIM<sup>®</sup> BUCCAL TUBES

	torque	rotat.	round tube diam.	rect. tube slot		weldable tubes	WEB bands with tube	
<b>convertible</b>		-14°	+10°	.045" occl.	.022"	R L	<b>G8424-32</b> <b>G8424-33</b>	<b>E8920-00</b> <b>E8930-00</b>
		-20°	+8°		.022"	R L	<b>G8421-16</b> <b>G8421-17</b>	<b>E8960-00</b> <b>E8970-00</b>
		-20°	+8°	.045" geng.	.022"	R L	<b>G8424-16</b> <b>G8424-17</b>	<b>E8961-00</b> <b>E8971-00</b>

	torque	rotat.	rect. tube slot		weldable tubes	D.B. <b>Extremo</b> <b>No-nickel</b> <b>tubes</b>	
		-14°	+8°	.022"	R L	<b>G8321-12</b> <b>G8321-13</b>	<b>F8621-32</b> <b>F8621-33</b>
		-20°	+8°	.022"	R L	<b>G8321-16</b> <b>G8321-17</b>	<b>F8621-26</b> <b>F8621-27</b>



See pages 153-154 to choose the Low Friction **SLIDE** ligatures

**Pack content:** prewelded bands of 5 - tubes of 10

## ARCHWIRE SEQUENCE

### PHASE 1: EARLY DENTAL MOVEMENT

	upper	∅ inch	lower
<b>MEMORIA<sup>®</sup></b> nickel- titanium archwires medium	<b>C5910-12</b>	.012	<b>C5950-12</b>
	<b>C5910-14</b>	.014	<b>C5950-14</b>
	<b>C5910-16</b>	.016	<b>C5950-16</b>

Pack of 10

### PHASE 2: THREE DIMENSIONAL CONSOLIDATION

	upper	∅ inch	lower
<b>THERMOMEMORIA<sup>®</sup></b> archwires	<b>C5932-16</b>	.016x.022	<b>C5972-16</b>
	<b>C5935-19</b>	.019x.025	<b>C5975-19</b>
Stainless steel preformed archwires	<b>C3112-19</b>	.019x.025	<b>C3152-19</b>

Pack of 10

### PHASE 3: ARCHWIRE SEQUENCE

	upper	mm	lower	mm
Arches with hook .019X.025	<b>C3112-34</b>	34	<b>C3152-24</b>	24
	<b>C3112-36</b>	36	<b>C3152-26</b>	26
	<b>C3112-38</b>	38	<b>C3152-28</b>	28
	<b>C3112-40</b>	40	<b>C3152-30</b>	30
	<b>C3112-42</b>	42		

Distance in mm between hooks

Pack of 10

### PHASE 4: FINISHING AND DETAILS

upper arch	∅ inch	
Stainless steel preformed archwires	.016	<b>C3110-16*</b>
	.018	<b>C3110-18*</b>
lower arch	∅	
<b>MEMORIA<sup>®</sup></b> nickel-titanium archwires medium	.016	<b>C5950-16</b>

\*apply in-between 12 and 22

Pack of 10



**Logic Line** brackets combine the most recent evidence-based studies on low friction biomechanics with reliability and ease of use of twin brackets. The possibility of using either **SLIDE**\* low friction ligatures or conventional ones, enhances a versatile therapeutic option not allowed by other methods.

**Logic Line brackets are available in metal, ceramics or micro-filled copolymer in Roth and Step prescriptions.**

# Logic Line

Optimized design for use with **SLIDE** low friction ligatures

For digitally-assisted indirect bonding system see page 99.

## housing in the wings

integrated in the bracket profile for easy placement of **SLIDE** ligatures



## MIM® technology

with the use of biomedical grade stainless steel



## 80 mesh pad

ensures ideal retention with any adhesive available; FDI identification



When used with the **Logic Line** brackets, **SLIDE** ligatures are kept safely in place and integrated in the bracket profile due to the housing in the bracket labial side. The **SLIDE** low friction ligatures can be easily applied to the **Logic Line** brackets using a simple, two-stage procedure:

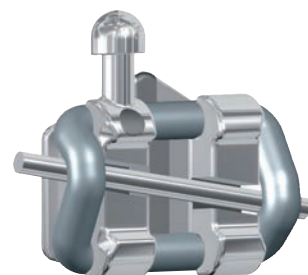


Apply **SLIDE** ligature in the open position and arch wire inside the slot



without the use of special instruments, close **SLIDE** ligature down on the lower wings.

The **Logic Line** brackets, due to the large mesio-distal dimensions and the twin tie-wings, can be used with conventional ligatures, for maximum biomechanical control during the appropriate phases of therapy. Further options are available to the clinician seeking optimum anchorage and biomechanics. It is now possible to use low and high friction in selected areas of the arch, upper and lower, or independently.



\*PATENTED



## Logic Line Roth system

		torque	ang.		.022"x.030"			
		3.6	+12°	+5°	$\frac{1}{1}$	<b>F6221-11</b>	<b>F6221-21</b>	
		3.1	+8°	+9°	$\frac{2}{2}$	<b>F6221-12</b>	<b>F6221-22</b>	
		3.3	-2°	+13°	$\frac{3}{3}$	<b>F6212-13</b>	<b>F6212-23</b>	
		3.1	-7°	0°	$\frac{4}{4}$	<b>F6212-14</b>	<b>F6212-24</b>	
		3.1	-7°	0°	$\frac{5}{5}$	<b>F6212-15</b>	<b>F6212-25</b>	
		3	0°		$\frac{1}{1}$	<b>F6221-41</b>	<b>F6221-31</b>	
		3	0°		$\frac{2}{2}$	<b>F6221-42</b>	<b>F6221-32</b>	
		3.3	-11°	+7°	$\frac{3}{3}$	<b>F6212-43</b>	<b>F6212-33</b>	
		3.1	-17°	0°	$\frac{4}{4}$	<b>F6212-44</b>	<b>F6212-34</b>	
		3.1	-22°	0°	$\frac{5}{5}$	<b>F6212-45</b>	<b>F6212-35</b>	

Pack of 10

## Logic Line Roth system

	20 brackets 1 case	200 brackets 10 cases
.022"	<b>F6220-91</b>	<b>F6221-91</b>
	500 brackets 25 cases	1000 brackets 50 cases
.022"	<b>F6223-91</b>	<b>F6225-91</b>

### Z0110-17

#### EMPTY TRAY FOR BRACKET STORAGE

It holds up to 2 to 50 cases and more.  
With clear plastic cover to protect brackets.  
References for positioning of brackets are clearly indicated.  
**Pack of 1**



### Z0100-01

#### EMPTY KIT BOX FOR BRACKET AND BAND STORAGE

Made of ABS plastic resin. To hold up trays for Leone brackets and bands. With clear plastic cover. Stackable.  
**Pack of 1**



See pages 153-154 to choose the Low Friction **SLIDE** ligatures

# STEP 2.0 D.B. bracket system



## STEP system

## 2.0

in one group of teeth with the benefit of being able to use the biomechanical properties more suitable for the therapeutic stage and the kind of wire you are using. The innovative Bi-dimensional\* arch wires and the elastic Tie Back, brand new in the design and material, deliver a controllable traction force extension with a perfect control of torque on the anterior teeth, thus favoring the sliding in the rear portion.

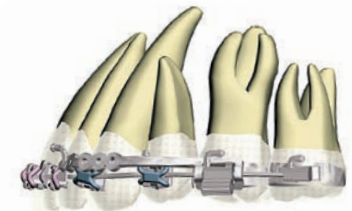
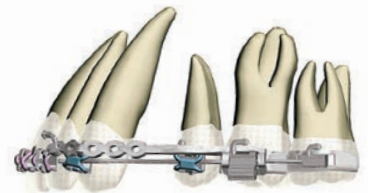
Brackets with vertical slot for cuspid and bicuspid, with the same in-out values, allow the use of springs and auxiliaries for greater biomechanical and anchorage control.

**STEP 2.0** prescription is complemented by a renewed and optimized archwire sequence for each therapeutic stage.

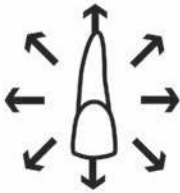
*Bibliographic references are continuously updated on the website [www.leone.it](http://www.leone.it)*

**STEP 2.0** system is an optimization of the well-known Straight Wire **STEP** treatment which has been used for more than 10 years. Thanks to the clinical experience of Dr. Arturo Fortini and his partners, the **STEP 2.0** system has become even more efficient and versatile, thus making the orthodontic treatment easier than ever.

Logical management of friction is always possible with the use of the **SLIDE** low friction ligatures and/or alternatively, with the conventional ligatures only



\*Patent No. US 6,811,397 B2



### ALIGNMENT AND LEVELING

Nickel-titanium **MEMORIA**® super elastic arch wires deliver constant and light forces. The use with **SLIDE** ligatures is recommended.



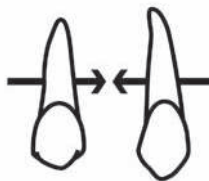
### FULL EXPRESSION OF THE BRACKET TIP VALUE

Australian arch wires are ideal for the consolidation of the first stage of treatment, thus giving full expression to the bracket tip values. They are used with conventional ligatures.



### TORQUE CONTROL

The **MEMORIA**® full-thickness arch wire produces third-order movements by stimulating the roots with light and constant forces. For use with conventional ligatures.



### SPACE CLOSURE

The innovative Bi-dimensional\* arch wire has the front portion made of Beta **MEMORIA**® alloy, available in .019"x.025" or .021"x.027" for torque control, and a rear portion made of stainless steel in .016"x.016" to promote the sliding of the arch wire into the slot. Conventional ligatures are used in the front portion and the Slide ligatures in the rear portion.



### FINISHING

The features of controlled elasticity of Beta **MEMORIA**® archwire alloy and the maximum sizes promote the full expression of torque, tip and in-out values of the **STEP 2.0** brackets.



## STEP SYSTEM 2.0 standard

		torque	ang.			.022"x.030"
		3.6	+17°	+4°	$\frac{1}{1}$	F6122-11 F6122-21
		3.1	+9°	+8°	$\frac{2}{2}$	F6122-12 F6122-22
		3.3	-7°	+13°	$\frac{3}{3}$	F6112-13 F6112-23
		3.1	+7°	+13°	$\frac{3}{3}$	F6114-13 F6114-23
		3.3	-7°	+13°	$\frac{3}{3}$	F6122-13 F6122-23
		3.1	-7°	+2°	$\frac{4}{4}$	F6112-14 F6112-24
		3.1	-7°	+2°	$\frac{4}{4}$	F6122-14 F6122-24
		3.1	-7°	+2°	$\frac{5}{5}$	F6112-15 F6112-25
		3.1	-7°	+2°	$\frac{5}{5}$	F6122-15 F6122-25
		3	-6°	0°	$\frac{1}{1}$	F6122-41 F6122-31
		3	-6°	0°	$\frac{2}{2}$	F6122-42 F6122-32
		3.3	-6°	+5°	$\frac{3}{3}$	F6112-43 F6112-33
		3.1	+7°	+5°	$\frac{3}{3}$	F6114-43 F6114-33
		3.3	-6°	+5°	$\frac{3}{3}$	F6122-43 F6122-33
		3.1	-12°	+2°	$\frac{4}{4}$	F6112-44 F6112-34
		3.1	-12°	+2°	$\frac{4}{4}$	F6122-44 F6122-34
		3.1	-17°	+2°	$\frac{5}{5}$	F6112-45 F6112-35
		3.1	-17°	+2°	$\frac{5}{5}$	F6122-45 F6122-35

Pack of 10



## STEP SYSTEM 2.0 with vertical slot

		torque	ang.			.022"x.030"
		3.6	+17°	+4°	$\frac{1}{1}$	F6122-11 F6122-21
		3.1	+9°	+8°	$\frac{2}{2}$	F6122-12 F6122-22
		3.3	-7°	+13°	$\frac{3}{3}$	F6113-13 F6113-23
		3.1	-7°	+2°	$\frac{4}{4}$	F6113-14 F6113-24
		3.1	-7°	+2°	$\frac{5}{5}$	F6113-15 F6113-25
		3	-6°	0°	$\frac{1}{1}$	F6122-41 F6122-31
		3	-6°	0°	$\frac{2}{2}$	F6122-42 F6122-32
		3.3	-6°	+5°	$\frac{3}{3}$	F6113-43 F6113-33
		3.1	-12°	+2°	$\frac{4}{4}$	F6113-44 F6113-34
		3.1	-17°	+2°	$\frac{5}{5}$	F6113-45 F6113-35

Pack of 10

Brackets not available into kits



### STEP SYSTEM 2.0 standard



	20 brackets - 1 case	200 brackets - 10 cases
.022"	<b>F6120-91</b>	<b>F6121-91</b>
	500 brackets - 25 cases	1000 brackets - 50 cases
.022"	<b>F6123-91</b>	<b>F6125-91</b>

### STEP SYSTEM 2.0 with vertical slot


	20 brackets - 1 case	200 brackets - 10 cases
.022"	<b>F6120-92</b>	<b>F6121-92</b>

## ARCHWIRE SEQUENCE


### ALIGNMENT AND LEVELING

		$\varnothing$				
		inch	upper	lower	pkg.	
	<b>MEMORIA</b> ® nickel-titanium medium	.012	<b>C5910-12</b>	<b>C5950-12</b>	10	
	<b>MEMORIA</b> ® nickel-titanium medium	.014	<b>C5910-14</b>	<b>C5950-14</b>		
	<b>MEMORIA</b> ® nickel-titanium medium	.016	<b>C5910-16</b>	<b>C5950-16</b>		


### FULL EXPRESSION OF TIP VALUE

		$\varnothing$			
		inch	upper	lower	pkg.
	Australian special plus	.016	<b>C2010-16</b>	<b>C2050-16</b>	10
	Australian special plus	.020	<b>C2010-20</b>	<b>C2050-20</b>	

### TORQUE CONTROL


		$\nabla$			
		inch	upper	lower	pkg.
	<b>MEMORIA</b> ® nickel-titanium medium	.021x.025	<b>C5915-21</b>	<b>C5955-21</b>	10

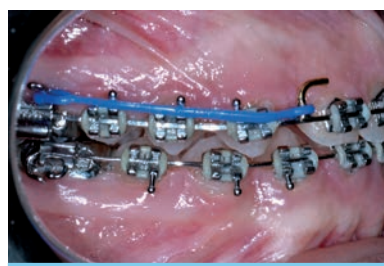
### SPACE CLOSURE

		$\nabla$					
		inch	* upper	* lower	pkg.		
	Bidimensional with hook Beta <b>MEMORIA</b> ® / stainless steel	.019x.025 / .016x.016	mm 34 36	<b>C7110-34</b> <b>C7110-36</b>	mm 24 26	<b>C7150-24</b> <b>C7150-26</b>	2
	Bidimensional with hook Beta <b>MEMORIA</b> ® / stainless steel	.021x.027 / .016x.016	mm 34 36	<b>C7111-34</b> <b>C7111-36</b>	mm 24 26	<b>C7151-24</b> <b>C7151-26</b>	

\*Distance between archwire hooks

### FINISHING

		$\nabla$			
		inch	upper	lower	pkg.
	Beta <b>MEMORIA</b> ®	.021x.027	<b>C7112-21</b>	<b>C7115-21</b>	10



Courtesy of Dr. A. Fortini








### K6461-01 TIE-BACK




For the application of elastic tractions on treatments with **STEP** technique. Easy insertion on molar tube. The four anterior holes allow a perfect dosage of force on archwire hook. Colour: blue.

**Pack of 10**

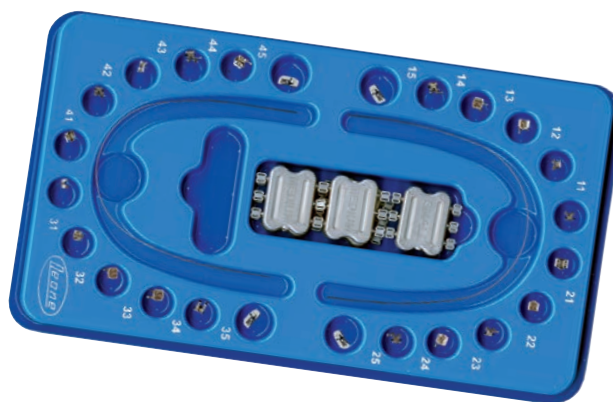
**MIM® TUBES**

								
		torque	rotat.	round tube diam.	rect. tube diam.		weldable tubes	<b>WEB</b> band with tube
<b>convertible</b>		-14°	+10°	.045" occl.	.022"	R	<b>G8424-32</b>	<b>E8920-00</b>
						L	<b>G8424-33</b>	<b>E8930-00</b>
		-20°	+8°		.022"	R	<b>G8421-16</b>	<b>E8960-00</b>
						L	<b>G8421-17</b>	<b>E8970-00</b>
		-20°	+8°	.045" geng.	.022"	R	<b>G8424-16</b>	<b>E8961-00</b>
						L	<b>G8424-17</b>	<b>E8971-00</b>

								
		torque	rotat.		rect. tube diam.		weldable tubes	welded and razed on <b>MAXI</b> base
	<u>76 67</u>	-14°	+8°		.022"	R	<b>G8321-12</b>	<b>F8321M12</b>
						L	<b>G8321-13</b>	<b>F8321M13</b>
	<u>76 67</u>	-20°	+8°		.022"	R	<b>G8321-16</b>	<b>F8321M16</b>
						L	<b>G8321-17</b>	<b>F8321M17</b>

Prewelded bands: pack of 5  
 Tubes: pack of 10



**F6120-82**  
**STEP 2.0 SYSTEM STANDARD STARTER KIT**

The efficiency of **STEP 2.0** system can be tested during the first stage of alignment and leveling with this kit including:

- 1 case (20 pcs), metal brackets .022" **STEP 2.0 standard system**
- 4 D.B. tubes **MIM®** welded and brazed on **MAXI** base
- 1 **MEMORIA®** round archwire Ø .014" upper
- 1 **MEMORIA®** round archwire Ø .014" lower
- 4 **SLIDE** ligature modules (24 pcs) medium silver
- 2 **SLIDE** ligature modules (12 pcs) small silver



## F6100-02 ONE PATIENT KIT STEP SYSTEM 2.0

It contains all the material necessary for one treatment with **STEP system 2.0**. The package is endowed with a pocket that allows the filing of the radiographies and documents related to the patient.

### Kit content:

- 1 case (20 pcs) metal brackets **STEP 2.0 standard system**
- 4 pcs D.B. **MIM**® tubes
- 4 pcs tie back
- 1 kit (13 pcs) archwires for **STEP system 2.0**
- 60 pcs **SLIDE** ligatures medium silver
- 60 pcs **SLIDE** ligatures small silver
- 100 pcs ligatures mini modules medium silver

## ORDERING INFORMATION

### BRACKET KIT STANDARD STEP SYSTEM 2.0

**F6120-91** 1 case - 20 brackets



### D.B. **MIM**® TUBES

Pack of 10

**UR** **F8321M12**

**UL** **F8321M13**

**LR** **F8321M16**

**LL** **F8321M17**

Welded and brazed on **MAXI** base

### TIE-BACK

**K6461-01** Pack of 10

### LIGATURES SLIDE MEDIUM

**K6262-10**

Pack of 10 modules, 6 ligatures each

### LIGATURES SLIDE SMALL

**K6261-10**

Pack of 10 modules, 6 ligatures each

### LIGATURES MINI MODULES MEDIUM

**K7362-13**

Pack of 20 modules, 10 ligatures each

### ARCHWIRE KIT STEP SYSTEM 2.0

**C6100-13** Pack of 13 (page 62)

Ordering of single archwires. Pack of 10

**1 SUP** **MEMORIA**® .014"

**1 INF** **MEMORIA**® .014"

**2 SUP** **MEMORIA**® .016"

**2 INF** **MEMORIA**® .016"

**3 SUP** Australian Special Plus .016"

**3 INF** Australian Special Plus .016"

**C5910-14**

**C5950-14**

**C5910-16**

**C5950-16**

**C2010-16**

**C2050-16**

**4 SUP** Australian Special Plus .020"

**4 INF** Australian Special Plus .020"

**5 SUP** Bidimensional w/hook Beta **MEMORIA**® s/steel .021"x.027"/.016"x.016"

**5 SUP** Bidimensional w/hook Beta **MEMORIA**® s/steel .021"x.027"/.016"x.016"

**5 INF** **MEMORIA**® .021"x.025"

**6 SUP** Beta **MEMORIA**® .021"x.027"

**6 INF** Beta **MEMORIA**® .021"x.027"

**C2010-20**

**C2050-20**

**C7111-34**

**C7111-36**

**C5955-21**

**C7112-21**

**C7115-21**

Speed of treatment, aesthetical result and comfort are the ideal requisites for cosmetic orthodontics. The special features of the **Logic Line aesthetic brackets**, combined with **SLIDE\*** Low Friction ligatures, fully comply with these requirements. The **Logic Line** aesthetic brackets are available in one range made of **micro-filled copolymer**: a clear coloration assuring a complete aesthetic look on every tooth shade, with high mechanical properties, and biocompatibility, without being subject to staining by oral liquids; one range of brackets in ceramics manufactured with a specific sintering process to achieve the maximum purity of the alumina and polycrystalline structure with an average value of uniform grain. The result is a translucent bracket with a superior mechanical resistance thus assuring a naturally aesthetic look to match every tooth shade.

Available for Step 2.0 and Roth prescriptions.

# Logic Line

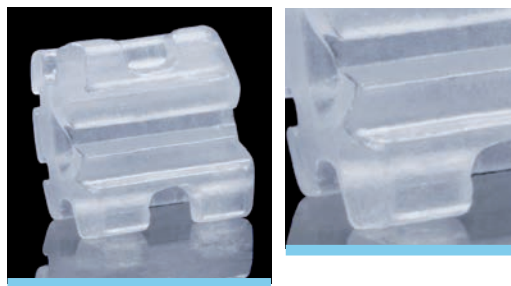
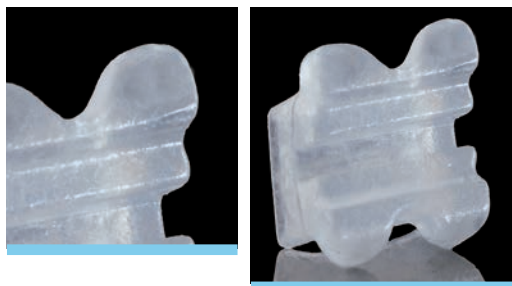
Pure aesthetics and  
logic management  
of friction

## ● MICRO-FILLED COPOLYMER

makes the bracket mimetic  
with any tooth colour shade

## ● CERAMICS

translucence and resistance smooth edges,  
low profile, superior in comfort



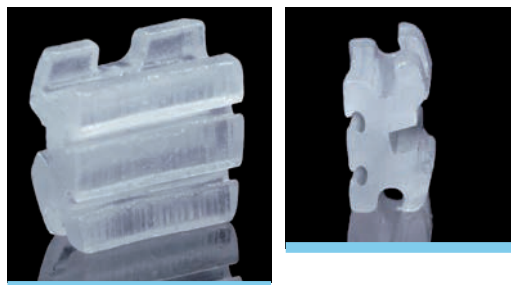
### housing in the wings

integrated in the bracket profile for easy placement of **SLIDE** ligatures



### micro-cell pad design

the special design ensures a wider contact  
area with the adhesive for a better clinical  
efficiency



### base with special mechanical retention

no specific primers are required

\*PATENTED



# D.B. aesthetic brackets STEP system 2.0



Courtesy of Dr. A. Fortini


































## D.B. BRACKETS STEP SYSTEM 2.0 IN MICRO-FILLED COPOLYMER

Just brush a thin coat of Primer F3107-00 on the base to get a perfect bond retention between the adhesive and the bracket base: bond with the usual adhesive immediately afterwards.



Pack of 10



### STEP SYSTEM 2.0 in copolymer

						
		torque	ang.			.022"x.030"
		 3.6	+17°	+4°	$\frac{1}{1}$	<b>F5421-22</b> <b>F5421-23</b>
		 3	+9°	+8°	$\frac{2}{2}$	<b>F5422-22</b> <b>F5422-23</b>
		 3.3	-7°	+13°	$\frac{3}{3}$	<b>F5413-22</b> <b>F5413-23</b>
		 3.3	-7°	+2°	$\frac{4}{4}$	<b>F5419-02</b> <b>F5419-03</b>
		 3.3	-7°	+2°	$\frac{5}{5}$	<b>F5419-02</b> <b>F5419-03</b>
		 2.8	-6°	0°	$\frac{1}{1}$	<b>F5420-06</b> <b>F5420-07</b>
		 2.8	-6°	0°	$\frac{2}{2}$	<b>F5420-06</b> <b>F5420-07</b>
		 3.3	-6°	+5°	$\frac{3}{3}$	<b>F5413-26</b> <b>F5413-27</b>
		 3.3	-12°	+2°	$\frac{4}{4}$	<b>F5414-06</b> <b>F5414-07</b>
		 3.3	-17°	+2°	$\frac{5}{5}$	<b>F5415-06</b> <b>F5415-07</b>

### STEP SYSTEM 2.0

				
		20 brackets 1 case	200 brackets 10 cases	
.022"		<b>F5410-92</b>	<b>F5411-92</b>	

## F5410-82 STEP 2.0 & SLIDE STARTER KIT

The kit contains all the components necessary to test **STEP system 2.0** in the initial alignment and levelling phases of treatment.










Kit content:

1 case (20 pcs), .022" **STEP system 2.0** copolymer brackets, 1 **MEMORIA**® upper round archwire Ø .014", 1 **MEMORIA**® lower round archwire Ø .014", 4 **SLIDE AQUA** ligature modules (24 pcs) medium, 2 **SLIDE AQUA** ligature modules (12 pcs) small, 4 pcs D.B. aesthetic tubes



### D.B. AESTHETIC TUBES WITHOUT HOOK

Pack of 10

						
		torque	rotat.	slot		
76 67				-14°	+8°	R <b>F8721-02</b> L <b>F8721-03</b>
					.022"	
76 67				-20°	+8°	R <b>F8721-06</b> L <b>F8721-07</b>



Courtesy of Dr. A. Fortini



## STEP SYSTEM 2.0 in ceramics

		torque	ang.		.022"x.030"	
		4	+17°	+4°	$\frac{1}{1}$	<b>F5921-02</b> <b>F5921-03</b>
		3.4	+9°	+8°	$\frac{2}{2}$	<b>F5922-02</b> <b>F5922-03</b>
		3.3	-7°	+13°	$\frac{3}{3}$	<b>F5913-02</b> <b>F5913-03</b>
		3.3	-7°	+2°	$\frac{4}{4}$	<b>F5919-02</b> <b>F5919-03</b>
		3.3	-7°	+2°	$\frac{5}{5}$	<b>F5919-02</b> <b>F5919-03</b>
		2.8	-6°	0°	$\frac{1}{1}$	<b>F5920-06</b> <b>F5920-07</b>
		2.8	-6°	0°	$\frac{2}{2}$	<b>F5920-06</b> <b>F5920-07</b>
		3.3	-6°	+5°	$\frac{3}{3}$	<b>F5913-06</b> <b>F5913-07</b>
		3.3	-12°	+2°	$\frac{4}{4}$	<b>F5914-06</b> <b>F5914-07</b>
		3.3	-17°	+2°	$\frac{5}{5}$	<b>F5915-06</b> <b>F5915-07</b>

## STEP SYSTEM 2.0

	6 brackets	10 brackets
	3 2 1   1 2 3	5 4 3 2 1   1 2 3 4 5
.022"	<b>F5906-20</b>	<b>F5910-20</b>
	12 brackets	20 brackets
	3 2 1   1 2 3	5 4 3 2 1   1 2 3 4 5
	3 2 1   1 2 3	5 4 3 2 1   1 2 3 4 5
.022"	<b>F5912-20</b>	<b>F5920-20</b>

## D.B. BRACKETS STEP SYSTEM 2.0 IN CERAMICS

Just brush a thin coat of Primer F3107-00 on the base to get a perfect bond retention between the adhesive and the bracket base; bond with the usual adhesive immediately afterwards.

Pack of 1

## F5920-82 STEP 2.0 & SLIDE STARTER KIT

The starter kit features all the components needed to test the efficiency of the new **STEP system 2.0** in the initial alignment and levelling stages of treatment. Composition of the kit:

1 case (20 pcs) **STEP system 2.0** ceramic brackets .022", 1 **MEMORIA**® archwire round Ø .014" upper, 1 **MEMORIA**® archwire round Ø .014" lower, 4 modules (24 pcs) **SLIDE AQUA** ligatures medium, 2 modules (12 pcs) **SLIDE AQUA** ligatures small, 4 pcs **D.B. MIM**® tubes welded and brazed to MAXI base



**D.B. MIM® TUBES  
WELDED AND BRAZED ON MAXI BASE**

Pack of 10

		torque	rotat.	slot	.022"	
7 6   6 7				-14°	+8°	R <b>F8321 M12</b> L <b>F8321 M13</b>
7 6   6 7				-20°	+8°	R <b>F8321 M16</b> L <b>F8321 M17</b>

# D.B. aesthetic brackets Logic Line Roth system



## D.B. LOGIC LINE BRACKETS ROTH SYSTEM IN CERAMICS

Manufactured with a sintering process to achieve the purest alumina and a polycrystalline structure with an average uniform grain. The result is a bracket combining the best translucence with a superior mechanical resistance thus assuring a naturally aesthetic look to match every tooth shade.

Pack of 1



### Roth system Logic Line in ceramics

		torque	ang.		.022"x.030"	
		4	+12°	+5°	$\frac{1}{1}$	<b>F5921-12</b> <b>F5921-13</b>
		3.4	+8°	+9°	$\frac{2}{2}$	<b>F5922-12</b> <b>F5922-13</b>
		3.3	-2°	+13°	$\frac{3}{3}$	<b>F5913-12</b> <b>F5913-13</b>
		3.3	-7°	0°	$\frac{4}{4}$	<b>F5919-12</b> <b>F5919-13</b>
		3.3	-7°	0°	$\frac{5}{5}$	<b>F5919-12</b> <b>F5919-13</b>
		2.8	0°		$\frac{1}{1}$	<b>F5920-05</b>
		2.8	0°		$\frac{2}{2}$	<b>F5920-05</b>
		3.3	-11°	+7°	$\frac{3}{3}$	<b>F5913-16</b> <b>F5913-17</b>
		3.3	-17°	0°	$\frac{4}{4}$	<b>F5914-16</b> <b>F5914-17</b>
		3.3	-22°	0°	$\frac{5}{5}$	<b>F5915-16</b> <b>F5915-17</b>

### Roth system Logic Line in ceramics

	6 brackets	10 brackets
	3 2 1   1 2 3	5 4 3 2 1   1 2 3 4 5
.022"	<b>F5906-21</b>	<b>F5910-21</b>
	12 brackets	20 brackets
	3 2 1   1 2 3 3 2 1   1 2 3	5 4 3 2 1   1 2 3 4 5 5 4 3 2 1   1 2 3 4 5
.022"	<b>F5912-21</b>	<b>F5920-21</b>

## D.B. LOGIC LINE BRACKETS ROTH SYSTEM IN MICRO-FILLED COPOLYMER

Manufactured using a micro-filled copolymer, that makes the bracket mimetic with any tooth colour shade. Just brush a thin coat of Primer F3107-00 on the base to get a perfect bond retention between the adhesive and the bracket base: bond with usual adhesive immediately afterwards.

Pack of 10



### Roth system Logic Line in copolymer

		torque	ang.		.022"x.030"	
		3.6	+12°	+5°	$\frac{1}{1}$	<b>F5421-32</b> <b>F5421-33</b>
		3	+8°	+9°	$\frac{2}{2}$	<b>F5422-32</b> <b>F5422-33</b>
		3.3	-2°	+13°	$\frac{3}{3}$	<b>F5413-32</b> <b>F5413-33</b>
		3.3	-7°	0°	$\frac{4}{4}$	<b>F5419-12</b> <b>F5419-13</b>
		3.3	-7°	0°	$\frac{5}{5}$	<b>F5419-12</b> <b>F5419-13</b>
		2.8	0°		$\frac{1}{1}$	<b>F5420-05</b>
		2.8	0°		$\frac{2}{2}$	<b>F5420-05</b>
		3.3	-11°	+7°	$\frac{3}{3}$	<b>F5413-36</b> <b>F5413-37</b>
		3.3	-17°	0°	$\frac{4}{4}$	<b>F5414-16</b> <b>F5414-17</b>
		3.3	-22°	0°	$\frac{5}{5}$	<b>F5415-16</b> <b>F5415-17</b>

### Roth system Logic Line in copolymer

	20 brackets 1 case	200 brackets 10 cases
.022"	<b>F5410-94</b>	<b>F5411-94</b>

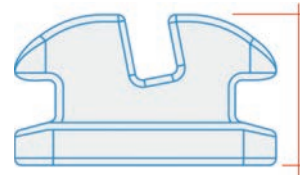


## mechanical retention

induced by the enforcement of Zirconia micro ball beads over the 2/3 of the surface

## maximum comfort

guaranteed by extremely reduced profile and bevelled bracket edges



## innovative plasma surface treatment

reduces friction in the slot/arch wire interface and enhances the structural integrity of the bracket



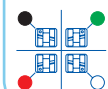
## one "step" to the side of the base

favours a firm grip of the tweezers on the mesio/distal surface of the bracket

The extremely reduced profile and bevelled bracket edges minimise discomfort and promote the cooperation of the patient. The diagonal shape makes the correct positioning easier due to the intuitive alignment with the long axis of the tooth. The presence of a "step" to the side of the base favours a firm grip of tweezers on the mesio/distal surface of the bracket, thus avoiding any interference in positioning; it also promotes the identification and elimination of adhesive excess during bonding phases and makes the engagement of the debonding pliers intuitive.

The base is provided with a mechanical retention induced by the enforcement of Zirconia micro ball beads over the 2/3 of the surface in order to ensure the necessary bond strength during the therapy but also allowing for easy and safe removal at the end of treatment. The innovative plasma surface treatment reduces friction in the slot/arch wire interface and enhances the structural integrity of the bracket.

The identification of Leone aesthetic brackets is easy:



A colour dot identifies the disto-gingival edge on aesthetic brackets preadjusted with torque and angulation values.  
Caution! The colour dot must be always disto-gingival positioned.



On standard aesthetic brackets a colour dot is positioned centrally.  
**Caution!** The colour dot must be always disto-gingival positioned.



## D.B. AESTHETIC BRACKETS

**GHIACCIO** brackets combine exceptional transparency and hardness of monocrystalline biomedical sapphire with the most sophisticated features that make these aesthetic brackets ideal to meet any biomechanical modern needs for aesthetics and comfort. The extremely reduced profile and bevelled bracket edges minimise discomfort and promote the cooperation of the patient.

**Pack of 1**



### GHIACCIO Roth system

		torque	ang.	.018"x.030"	.022"x.030"		
		3.2	+12°	+5°	$\frac{1}{1}$	<b>F5681-12</b>	<b>F5621-12</b>
					$\frac{1}{1}$	<b>F5681-13</b>	<b>F5621-13</b>
		2.8	+8°	+9°	$\frac{2}{2}$	<b>F5682-12</b>	<b>F5622-12</b>
					$\frac{2}{2}$	<b>F5682-13</b>	<b>F5622-13</b>
		3.4	-2°	+13°	$\frac{3}{3}$	<b>F5673-12</b>	<b>F5613-12</b>
					$\frac{3}{3}$	<b>F5673-13</b>	<b>F5613-13</b>
		3.2	-7°	0°	$\frac{4}{4}$	<b>F5679-02</b>	<b>F5619-02</b>
					$\frac{4}{4}$	<b>F5679-03</b>	<b>F5619-03</b>
		3.2	-7°	0°	$\frac{5}{5}$	<b>F5679-02</b>	<b>F5619-02</b>
					$\frac{5}{5}$	<b>F5679-03</b>	<b>F5619-03</b>
		2.8	0°		$\frac{1}{1}$	<b>F5680-06</b>	<b>F5620-06</b>
					$\frac{1}{1}$	<b>F5680-07</b>	<b>F5620-07</b>
		2.8	0°		$\frac{2}{2}$	<b>F5680-06</b>	<b>F5620-06</b>
					$\frac{2}{2}$	<b>F5680-07</b>	<b>F5620-07</b>
		3.4	-11°	+7°	$\frac{3}{3}$	<b>F5673-16</b>	<b>F5613-16</b>
					$\frac{3}{3}$	<b>F5673-17</b>	<b>F5613-17</b>
		3.2	-17°	0°	$\frac{4}{4}$	<b>F5674-06</b>	<b>F5614-06</b>
					$\frac{4}{4}$	<b>F5674-07</b>	<b>F5614-07</b>
		3.2	-22°	0°	$\frac{5}{5}$	<b>F5675-06</b>	<b>F5615-06</b>
					$\frac{5}{5}$	<b>F5675-07</b>	<b>F5615-07</b>

### GHIACCIO Roth system

	6 brackets	10 brackets	12 brackets	20 brackets
	3 2 1   1 2 3	5 4 3 2 1   1 2 3 4 5	3 2 1   1 2 3	5 4 3 2 1   1 2 3 4 5
	3 2 1   1 2 3	5 4 3 2 1   1 2 3 4 5	3 2 1   1 2 3	5 4 3 2 1   1 2 3 4 5
.018"	<b>F5606-81</b>	<b>F5610-81</b>	<b>F5612-81</b>	<b>F5620-82</b>
.022"	<b>F5606-21</b>	<b>F5610-21</b>	<b>F5612-21</b>	<b>F5620-22</b>

### GHIACCIO MBT\* system

		torque	ang.	.022"x.030"			
		3.2	+17°	+4°	$\frac{1}{1}$	<b>F5521-02</b>	<b>F5521-03</b>
					$\frac{1}{1}$	<b>F5521-02</b>	<b>F5521-03</b>
		2.8	+10°	+8°	$\frac{2}{2}$	<b>F5522-02</b>	<b>F5522-03</b>
					$\frac{2}{2}$	<b>F5522-02</b>	<b>F5522-03</b>
		3.4	-7°	+8°	$\frac{3}{3}$	<b>F5513-02</b>	<b>F5513-03</b>
					$\frac{3}{3}$	<b>F5513-02</b>	<b>F5513-03</b>
		3.2	-7°	0°	$\frac{4}{4}$	<b>F5619-02</b>	<b>F5619-03</b>
					$\frac{4}{4}$	<b>F5619-02</b>	<b>F5619-03</b>
		3.2	-7°	0°	$\frac{5}{5}$	<b>F5619-02</b>	<b>F5619-03</b>
					$\frac{5}{5}$	<b>F5619-02</b>	<b>F5619-03</b>
		2.8	-6°	0°	$\frac{1}{1}$	<b>F5520-06</b>	<b>F5520-07</b>
					$\frac{1}{1}$	<b>F5520-06</b>	<b>F5520-07</b>
		2.8	-6°	0°	$\frac{2}{2}$	<b>F5520-06</b>	<b>F5520-07</b>
					$\frac{2}{2}$	<b>F5520-06</b>	<b>F5520-07</b>
		3.4	-6°	+3°	$\frac{3}{3}$	<b>F5513-06</b>	<b>F5513-07</b>
					$\frac{3}{3}$	<b>F5513-06</b>	<b>F5513-07</b>
		3.2	-12°	+2°	$\frac{4}{4}$	<b>F5514-06</b>	<b>F5514-07</b>
					$\frac{4}{4}$	<b>F5514-06</b>	<b>F5514-07</b>
		3.2	-17°	+2°	$\frac{5}{5}$	<b>F5515-06</b>	<b>F5515-07</b>
					$\frac{5}{5}$	<b>F5515-06</b>	<b>F5515-07</b>

### GHIACCIO MBT\* system

	6 brackets	10 brackets	12 brackets	20 brackets
	3 2 1   1 2 3	5 4 3 2 1   1 2 3 4 5	3 2 1   1 2 3	5 4 3 2 1   1 2 3 4 5
	3 2 1   1 2 3	5 4 3 2 1   1 2 3 4 5	3 2 1   1 2 3	5 4 3 2 1   1 2 3 4 5
.022"	<b>F5506-21</b>	<b>F5510-21</b>	<b>F5512-21</b>	<b>F5520-20</b>

\*MBT is a Trademark of 3M Unitek.

The orthodontic brackets illustrated in this catalogue are not intended to be a duplication of any other existing system nor does Leone SpA imply that they are endorsed by the above mentioned doctors or Schools in any form.

## AQUA SL

Ceramic Brackets Self-Ligating



### base

anatomical curvature of the base for a perfect adaptation to the tooth surface with minimum amount of compound employed for a perfect seal

### round hook

maximum patient comfort and safe sealing of elastics

### wings

large undercut to seal ligatures and accessories

### beveled slot

rounded mesial-distal edges to avoid notching and minimize binding

### design of anterior edge

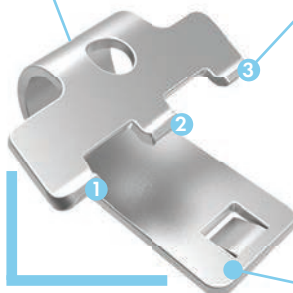
with 3 keeper notches which permit a correct central closure for maximum stability during treatment

### clip in nickel-titanium

large as the mesio-distal slot width, facilitates the insertion of archwires thus giving the highest biomechanical control

### open/close

reliable over time and elastic memory of the nickel titanium alloy guaranteed



### biomechanical dynamic control

the special shape of the clip and the gradual interaction with the wire permit the calibration of friction in the different stages of treatment



#### passive phase

round archwires do not get in contact with the clip so they can slide inside the slot by facilitating the process of alignment and leveling.



#### interactive phase

rectangular archwires used for space closure during control of rotation and torque, deform the metal clip elastically with a biomechanical gain control necessary for this stage of treatment



#### active phase

rectangular archwires for finishing and detailing fill completely the slot by going into active contact with the clip: that permits to take advantage of metal superelastic properties and gets the smallest movements for finishing of treatment



## D.B. AQUA SL self ligating brackets

AQUA SL ceramic brackets combine the highest translucence with biomechanical control performance of interactive self-ligating brackets.

Made with CIM technology (Ceramic Injection Molding) with clip in nickel-titanium. Rhodium plated surface reduces light reflection and ensures minimal visibility of brackets.

Pack of 1

### AQUA SL self ligating ROTH system

			torque	ang.		.022"x.030"	
			+12°	+5°	$\frac{1}{1}$	F5751-02	
					$\frac{1}{1}$	F5751-03	
			+8°	+9°	$\frac{2}{2}$	F5752-02	
					$\frac{2}{2}$	F5752-03	
			-2°	+13°	$\frac{3}{3}$	F5753-02	
					$\frac{3}{3}$	F5753-03	
			-7°	0°	$\frac{4}{4}$	F5749-02	
					$\frac{4}{4}$	F5749-03	
			-7°	0°	$\frac{5}{5}$	F5749-02	
					$\frac{5}{5}$	F5749-03	
			0°		$\frac{1}{1}$	F5750-05	
					$\frac{1}{1}$	F5750-05	
			0°		$\frac{2}{2}$	F5750-05	
					$\frac{2}{2}$	F5750-05	
			-11°	+7°	$\frac{3}{3}$	F5753-06	
					$\frac{3}{3}$	F5753-07	
			-17°	0°	$\frac{4}{4}$	F1044-16	
					$\frac{4}{4}$	F1044-17	
			-22°	0°	$\frac{5}{5}$	F1045-16	
					$\frac{5}{5}$	F1045-17	

Lower bicuspids in stainless steel

### AQUA SL self ligating MBT\* system

			torque	ang.		.022"x.030"	
			+17°	+4°	$\frac{1}{1}$	F5741-02	
					$\frac{1}{1}$	F5741-03	
			+10°	+8°	$\frac{2}{2}$	F5742-02	
					$\frac{2}{2}$	F5742-03	
			-7°	+8°	$\frac{3}{3}$	F5743-02	
					$\frac{3}{3}$	F5743-03	
			-7°	0°	$\frac{4}{4}$	F5749-02	
					$\frac{4}{4}$	F5749-03	
			-7°	0°	$\frac{5}{5}$	F5749-02	
					$\frac{5}{5}$	F5749-03	
			-6°	0°	$\frac{1}{1}$	F5740-06	
					$\frac{1}{1}$	F5740-07	
			-6°	0°	$\frac{2}{2}$	F5740-06	
					$\frac{2}{2}$	F5740-07	
			-6°	+3°	$\frac{3}{3}$	F5743-06	
					$\frac{3}{3}$	F5743-07	
			-12°	+2°	$\frac{4}{4}$	F1044-06	
					$\frac{4}{4}$	F1044-07	
			-17°	+2°	$\frac{5}{5}$	F1045-06	
					$\frac{5}{5}$	F1045-07	

Lower bicuspids in stainless steel



### AQUA SL self ligating ROTH system

		1 case - 20 brackets							
5	4	3	2	1	1	2	3	4	5
5	4	3	2	1	1	2	3	4	5
.022"		F5750-91							

### AQUA SL self ligating MBT\* system

		1 case - 20 brackets							
5	4	3	2	1	1	2	3	4	5
5	4	3	2	1	1	2	3	4	5
.022"		F5740-91							

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## D.B. AQUA CERAMIC BRACKETS

**AQUA** ceramic brackets are manufactured with a sintering process to achieve the purest alumina and a polycrystalline structure with an average uniform grain. The result is a bracket combining the best translucence with a superior mechanical resistance thus assuring a naturally aesthetic look to match every tooth shade. **AQUA** brackets are free of any metal slot and totally anti-allergenic. No specific primers are required since the base has got a new design providing a special mechanical retention, thus allowing the use of any orthodontic adhesive available. Polished surface, smooth edges and low profile design make the **AQUA** ceramic brackets superior in comfort.

**Pack of 1**

### AQUA Roth system

		torque	ang.	.018"x.030"	.022"x.030"		
		4	+12°	+5°	$\frac{1}{1}$	<b>F5781-02</b>	<b>F5721-02</b>
					$\frac{1}{1}$	<b>F5781-03</b>	<b>F5721-03</b>
		3.7	+8°	+9°	$\frac{2}{2}$	<b>F5782-02</b>	<b>F5722-02</b>
					$\frac{2}{2}$	<b>F5782-03</b>	<b>F5722-03</b>
		3.7	-2°	+13°	$\frac{3}{3}$	<b>F5773-02</b>	<b>F5713-02</b>
					$\frac{3}{3}$	<b>F5773-03</b>	<b>F5713-03</b>
		3.4	-7°	0°	$\frac{4}{4}$	<b>F5779-02</b>	<b>F5719-02</b>
					$\frac{4}{4}$	<b>F5779-03</b>	<b>F5719-03</b>
		3.4	-7°	0°	$\frac{5}{5}$	<b>F5779-02</b>	<b>F5719-02</b>
					$\frac{5}{5}$	<b>F5779-03</b>	<b>F5719-03</b>
		3	0°		$\frac{1}{1}$	<b>F5780-05</b>	<b>F5720-05</b>
					$\frac{1}{1}$		
		3	0°		$\frac{2}{2}$	<b>F5780-05</b>	<b>F5720-05</b>
					$\frac{2}{2}$		
		3.7	-11°	+7°	$\frac{3}{3}$	<b>F5773-06</b>	<b>F5713-06</b>
					$\frac{3}{3}$	<b>F5773-07</b>	<b>F5713-07</b>
		3.4	-17°	0°	$\frac{4}{4}$	<b>F5774-06</b>	<b>F5714-06</b>
					$\frac{4}{4}$	<b>F5774-07</b>	<b>F5714-07</b>
		3.4	-22°	0°	$\frac{5}{5}$	<b>F5775-06</b>	<b>F5715-06</b>
					$\frac{5}{5}$	<b>F5775-07</b>	<b>F5715-07</b>

### AQUA Ricketts system

		torque	ang.	.018"x.030"			
		4	+22°	0°	$\frac{1}{1}$	<b>F5881-02</b>	
					$\frac{1}{1}$	<b>F5881-03</b>	
		3.7	+14°	8°	$\frac{2}{2}$	<b>F5882-02</b>	
					$\frac{2}{2}$	<b>F5882-03</b>	
		3.7	+7°	+5°	$\frac{3}{3}$	<b>F5883-02</b>	
					$\frac{3}{3}$	<b>F5883-03</b>	
		3.4	0°		$\frac{4}{4}$	<b>F5889-02</b>	
					$\frac{4}{4}$	<b>F5889-03</b>	
		3.4	0°		$\frac{5}{5}$	<b>F5889-02</b>	
					$\frac{5}{5}$	<b>F5889-03</b>	
		3	0°		$\frac{1}{1}$	<b>F5780-05</b>	
					$\frac{1}{1}$		
		3	0°		$\frac{2}{2}$	<b>F5780-05</b>	
					$\frac{2}{2}$		
		3.7	+7°	+5°	$\frac{3}{3}$	<b>F5883-06</b>	
					$\frac{3}{3}$	<b>F5883-07</b>	
		3.4	0°		$\frac{4}{4}$	<b>F5884-06</b>	
					$\frac{4}{4}$	<b>F5884-07</b>	
		3.4	-15°	0°	$\frac{5}{5}$	<b>F5885-06</b>	
					$\frac{5}{5}$	<b>F5885-07</b>	

### AQUA Roth system

	6 brackets	10 brackets	12 brackets	20 brackets
	3 2 1   1 2 3	5 4 3 2 1   1 2 3 4 5	3 2 1   1 2 3 3 2 1   1 2 3	5 4 3 2 1   1 2 3 4 5 5 4 3 2 1   1 2 3 4 5
.018"	<b>F5706-80</b>	<b>F5710-80</b>	<b>F5712-80</b>	<b>F5720-80</b>
.022"	<b>F5706-20</b>	<b>F5710-20</b>	<b>F5712-20</b>	<b>F5720-20</b>

### AQUA Ricketts system

	6 brackets	10 brackets	12 brackets	20 brackets
	3 2 1   1 2 3	5 4 3 2 1   1 2 3 4 5	3 2 1   1 2 3 3 2 1   1 2 3	5 4 3 2 1   1 2 3 4 5 5 4 3 2 1   1 2 3 4 5
.018"	<b>F5806-80</b>	<b>F5810-80</b>	<b>F5812-80</b>	<b>F5820-80</b>




Each refill is available in packs of 5. On request the brackets may be ordered by replacing the hyphen with the letter "0" in the product code (e.g. F5775-07 becomes F5775007).




# recommended tubes for the treatment of molars Edgewise, Super Edgewise, Edgewise mini, Tweed system



## MIM® TUBES



	torque	rotat.	round tube diam.	rect. tube slot		weldable tubes	direct bonding tubes	molar band with tube			
								CALIBRA® pack of 10	pack of 5	WEB pack of 10	pack of 5
	0°		.051" ging.	.018"	R	<a href="#">G8085-02</a>	<a href="#">F8085-22</a>	on request	on request	on request	on request
				L	<a href="#">G8085-03</a>	<a href="#">F8085-23</a>					
				.022"	R	<a href="#">G8025-02</a>	<a href="#">F8025-22</a>	<a href="#">E1420-00</a>	<a href="#">E1425-00</a>	on request	on request
	L	<a href="#">G8025-03</a>	<a href="#">F8025-23</a>	<a href="#">E1430-00</a>	<a href="#">E1435-00</a>						
	0°		.051" ging.	.018"	R	<a href="#">G8085-03</a>	<a href="#">F8085-23</a>	on request	on request	on request	on request
				L	<a href="#">G8085-02</a>	<a href="#">F8085-22</a>					
				.022"	R	<a href="#">G8025-03</a>	<a href="#">F8025-23</a>	<a href="#">E1460-00</a>	<a href="#">E1465-00</a>	on request	on request
	L	<a href="#">G8025-02</a>	<a href="#">F8025-22</a>	<a href="#">E1470-00</a>	<a href="#">E1475-00</a>						

## CONVERTIBLE MIM® TUBES

	torque	rotat.	round tube diam.	rect. tube slot		weldable tubes	direct bonding tubes
	0°		.051" ging.	.018"	R	<a href="#">G8185-02</a>	on request
				L	<a href="#">G8185-03</a>		
				.022"	R	<a href="#">G8125-02</a>	on request
	L	<a href="#">G8125-03</a>					
	0°		.051" ging.	.018"	R	<a href="#">G8185-03</a>	on request
				L	<a href="#">G8185-02</a>		
				.022"	R	<a href="#">G8125-03</a>	on request
	L	<a href="#">G8125-02</a>					

Molar bands **CALIBRA®** or **WEB** with prewelded convertible tube in packages of 5 or 10 on request

## BRACKETS

	torque	rotat.	slot		weldable brackets	direct bonding brackets	
	0°			.018"	R	<a href="#">G2086-14</a>	<a href="#">F2086-14</a>
				L			
				.022"	R	<a href="#">G2026-14</a>	<a href="#">F2026-14</a>
L							
	0°			.018"	R	<a href="#">G2080-44</a>	<a href="#">F2081-01</a>
				L			
				.022"	R	<a href="#">G2020-44</a>	<a href="#">F2021-01</a>
L							


Molar bands **CALIBRA®** or **WEB** with prewelded bracket in packages of 5 or 10 on request

Pack of 10




Pack of 100 on request

## MIM® TUBES

	torque	rotat.	round tube diam.	rect. tube slot	weldable tubes	direct bonding tubes	molar band with tube				
							CALIBRA® pack of 10	CALIBRA® pack of 5	WEB pack of 10	WEB pack of 5	
	-10°	+8°	.051" ging.	.018"	R L	G8385-02 G8385-03	F8385-02 F8385-03	on request	on request	on request	on request
				.022"	R L	G8325-02 G8325-03	F8325-02 F8325-03	E1520-00 E1530-00	E1525-00 E1535-00	on request	E8520-00 E8530-00
	-25°	+8°	.051" ging.	.018"	R L	G8385-06 G8385-07	F8385-06 F8385-07	on request	on request	on request	on request
				.022"	R L	G8325-06 G8325-07	F8325-06 F8325-07	E1560-00 E1570-00	E1565-00 E1575-00	on request	E8560-00 E8570-00

## TUBI MIM® CONVERTIBILI

	torque	rotat.	round tube diam.	rect. tube slot	weldable tubes	direct bonding tubes		
	-10°	+8°	.051" ging.	.018"	R L	G8485-02 G8485-03	F8485-02 F8485-03	
				.022"	R L	G8425-02 G8425-03	F8425-02 F8425-03	
	-25°	+8°	.051" ging.	.018"	R L	G8485-06 G8485-07	F8485-06 F8485-07	
				.022"	R L	G8425-06 G8425-07	F8425-06 F8425-07	

Molar bands **CALIBRA®** or **WEB** with prewelded convertible tube in packages of 5 or 10 on request

Pack of 10



Pack of 100 on request

# recommended tubes for the treatment of molars

## Ricketts, Burstone system



### MIM® TUBES

	torque	rotat.	round tube diam.	rect. tube slot	weldable tubes	direct bonding tubes	molar band with tube			
							CALIBRA® pack of 10	pack of 5	pack of 10	WEB® pack of 5
	0°		.045" ging.	.018" R	<b>G8084-12</b>	<b>F8084-12</b>	on request	on request	on request	<b>E8820-00</b>
				L	<b>G8084-13</b>	<b>F8084-13</b>	on request	on request	on request	<b>E8830-00</b>
				.022" R	<b>G8024-12</b>	<b>F8024-12</b>	on request	on request	on request	on request
				L	<b>G8024-13</b>	<b>F8024-13</b>	on request	on request	on request	on request
	-10°	+8°	.045" ging.	.018" R	<b>G8384-12</b>	<b>F8384-12</b>	on request	on request	on request	on request
				L	<b>G8384-13</b>	<b>F8384-13</b>	on request	on request	on request	on request
				.022" R	<b>G8324-12</b>	<b>F8324-12</b>	on request	on request	on request	on request
				L	<b>G8324-13</b>	<b>F8324-13</b>	on request	on request	on request	on request
	-14°	+8°		.018" R	<b>G8070-02</b>	<b>F8070-02</b>	on request	on request	on request	on request
				L	<b>G8070-03</b>	<b>F8070-03</b>	on request	on request	on request	on request
				.022" R	<b>G8010-02</b>	<b>F8010-02</b>	on request	on request	on request	on request
				L	<b>G8010-03</b>	<b>F8010-03</b>	on request	on request	on request	on request
	0°			.018" R	<b>G8070-16</b>	<b>F8570-03*</b>	on request	on request	on request	<b>E8860-00</b>
				L	<b>G8070-17</b>	<b>F8570-02*</b>	on request	on request	on request	<b>E8870-00</b>
				.022" R	<b>G8010-16</b>	<b>F8510-03*</b>	on request	on request	on request	on request
				L	<b>G8010-17</b>	<b>F8510-02*</b>	on request	on request	on request	on request
	-25°	+8°		.018" R	<b>G8070-06</b>	<b>F8070-06</b>	on request	on request	on request	on request
				L	<b>G8070-07</b>	<b>F8070-07</b>	on request	on request	on request	on request
				.022" R	<b>G8010-06</b>	<b>F8010-06</b>	on request	on request	on request	on request
				L	<b>G8010-07</b>	<b>F8010-07</b>	on request	on request	on request	on request

\*Extremo No-nickel

### CONVERTIBLE MIM® TUBES

	torque	rotat.	round tube diam.	slot tubo rett.	weldable tubes	direct bonding tubes
	-10°	+8°	.045" occl.	L	<b>G8184-23</b>	<b>F8184-23</b>
				.022" R	<b>G8124-22</b>	<b>F8124-22</b>
				L	<b>G8124-23</b>	<b>F8124-23</b>
				.018" R	<b>G8484-22</b>	<b>F8484-22</b>
	-10°	+8°		L	<b>G8484-23</b>	<b>F8484-23</b>
				.022" R	<b>G8424-22</b>	<b>F8424-22</b>
				L	<b>G8424-23</b>	<b>F8424-23</b>
				.018" R	<b>G8470-02</b>	<b>F8470-02</b>
	-14°	+8°		L	<b>G8470-03</b>	<b>F8470-03</b>
				.022" R	<b>G8410-02</b>	<b>F8410-02</b>
				L	<b>G8410-03</b>	<b>F8410-03</b>
				.018" R	<b>G8170-16</b>	<b>F8170-16</b>
	0°			L	<b>G8170-17</b>	<b>F8170-17</b>
				.022" R	<b>G8110-16</b>	<b>F8110-16</b>
				L	<b>G8110-17</b>	<b>F8110-17</b>
				.018" R	<b>G8470-06</b>	<b>F8470-06</b>
	-25°	+8°		L	<b>G8470-07</b>	<b>F8470-07</b>
				.022" R	<b>G8410-06</b>	<b>F8410-06</b>
				L	<b>G8410-07</b>	<b>F8410-07</b>

Molar bands **CALIBRA®** or **WEB** with prewelded convertible tube in packages of 5 or 10 on request

Pack of 10



Pack of 100 on request

## D.B. MIM® TUBES

			rect. tube torque	rect. tube rot.	round tube diam.	direct bonding tubes		
						rect. tube .018"x.025"	rect. tube .022"x.028"	
	$\frac{\delta\delta}{\delta\delta}$	double		0°	.051" ging.	R L	<b>F8085-22</b> <b>F8085-23</b>	<b>F8025-22</b> <b>F8025-23</b>
	$\frac{\delta\delta}{\delta\delta}$	double		-10° +8°	.051" ging.	R L	<b>F8385-02</b> <b>F8385-03</b>	<b>F8325-02</b> <b>F8325-03</b>
	$\frac{\delta\delta}{\delta\delta}$	double		-25° +8°	.051" ging.	R L	<b>F8385-06</b> <b>F8385-07</b>	<b>F8325-06</b> <b>F8325-07</b>
	$\frac{\delta\delta}{\delta\delta}$	double		0°	.045" occl.	R L	<b>F8084-32</b> <b>F8084-33</b>	<b>F8024-32</b> <b>F8024-33</b>
	$\frac{\delta\delta}{\delta\delta}$	double		0°	.051" occl.	R L	<b>F8085-42</b> <b>F8085-43</b>	<b>F8025-42</b> <b>F8025-43</b>
	$\frac{\delta\delta}{\delta\delta}$	double		-10° +8°	.045" occl.	R L	<b>F8384-32</b> <b>F8384-33</b>	<b>F8324-32</b> <b>F8324-33</b>
	$\frac{\delta\delta}{\delta\delta}$	double		-10° +8°	.051" occl.	R L	<b>F8385-22</b> <b>F8385-23</b>	<b>F8325-22</b> <b>F8325-23</b>
	$\frac{\delta\delta}{\delta\delta}$	triple		0°	.045" ging.	R L	<b>F8084-12</b> <b>F8084-13</b>	<b>F8024-12</b> <b>F8024-13</b>
	$\frac{\delta\delta}{\delta\delta}$	triple		-10° +8°	.045" ging.	R L	<b>F8384-12</b> <b>F8384-13</b>	<b>F8324-12</b> <b>F8324-13</b>
	$\frac{\delta\delta}{\delta\delta}$	triple		0°	.045" occl.	R L	<b>F8084-22</b> <b>F8084-23</b>	<b>F8024-22</b> <b>F8024-23</b>
	$\frac{\delta\delta}{\delta\delta}$	triple		0°	.051" occl.	R L	<b>F8085-32</b> <b>F8085-33</b>	<b>F8025-32</b> <b>F8025-33</b>
	$\frac{\delta\delta}{\delta\delta}$	triple		-10° +8°	.045" occl.	R L	<b>F8384-22</b> <b>F8384-23</b>	<b>F8324-22</b> <b>F8324-23</b>
	$\frac{\delta\delta}{\delta\delta}$	triple		-10° +8°	.051" occl.	R L	<b>F8385-12</b> <b>F8385-13</b>	<b>F8325-12</b> <b>F8325-13</b>
	$\frac{\delta\delta}{\delta\delta}$	rectangular double with ball hook		-14° +8°		R L	<b>F8070-02</b> <b>F8070-03</b>	<b>F8010-02</b> <b>F8010-03</b>
	$\frac{\delta\delta}{\delta\delta}$	rectangular double with ball hook		-25° +8°		R L	<b>F8070-06</b> <b>F8070-07</b>	<b>F8010-06</b> <b>F8010-07</b>
	$\frac{\delta\delta}{\delta\delta}$	partially erupted		-15° 0°		R L	<b>F7980-01</b>	<b>F7920-01</b>

Pack of 10

Pack of 100 on request

# D.B. MIM® tubes **EXTREMO** No-Nickel



## D.B. TUBES **EXTREMO** NO-NICKEL

Single piece tubes manufactured with **MIM**® technology in a biocompatible nickel free\* alloy.

The Extremo No-Nickel base, anatomical with micro highly retentive cavities, perfectly fits the tooth and ensures an excellent bond with the use of any kind of adhesives.

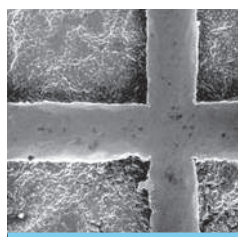
Pack of 10



Pack of 100 on request

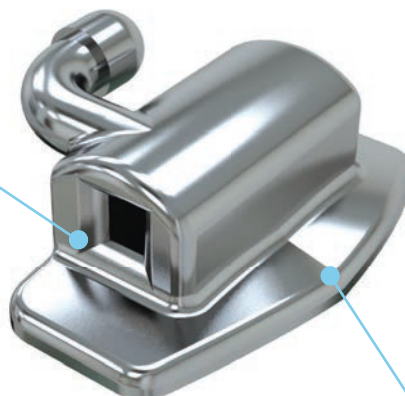
funneled entry way

for ease of wire insertion



anatomical mesh base

with micro cell internal surface

























low profile design

helps reduce occlusal interference

occlusal indent

for a perfect anatomical fit to molars

				torque	rotat.	slot	direct bonding tubes
	$\frac{76 67}{76 67}$				0°	.018"	R <b>F8581-12</b> L <b>F8581-13</b>
						.022"	R <b>F8521-12</b> L <b>F8521-13</b>
	$\frac{76 67}{76 67}$				-10°	+8°	.018" R <b>F8681-12</b> L <b>F8681-13</b>
							.022" R <b>F8621-22</b> L <b>F8621-23</b>
	$\frac{76 67}{76 67}$				-14°	+8°	.022" R <b>F8621-32</b> L <b>F8621-33</b>
	$\frac{76 67}{76 67}$				-20°	+8°	.022" R <b>F8621-26</b> L <b>F8621-27</b>
	$\frac{76 67}{76 67}$				-25°	+8°	.018" R <b>F8681-16</b> L <b>F8681-17</b>
							.022" R <b>F8621-36</b> L <b>F8621-37</b>
	$\frac{6 6}{6 6}$				0°	.018"	R <b>F8570-02</b> L <b>F8570-03</b>
	$\frac{6 6}{6 6}$				0°	.022"	R <b>F8510-02</b> L <b>F8510-03</b>

\*Nickel trace elements of ≤ 0,1% are due to the process of manufacturing

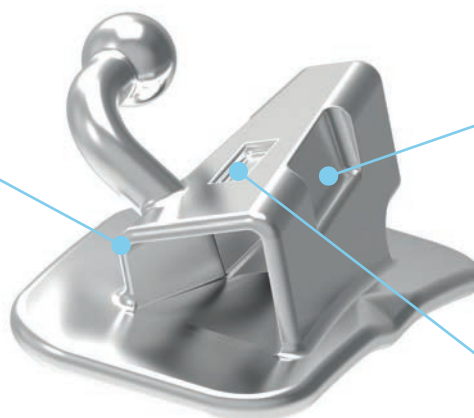
## D.B. MIM<sup>®</sup> SINGLE TUBES LOW PROFILE WITH FDI IDENTIFICATION

These D.B. single tubes, made using **MIM<sup>®</sup>** technology, combine contemporary design with the comfort for the patient. The anatomical 80 mesh gauge pad fits perfectly on the tooth for an excellent reliability.

Pack of 10

mesial funneled  
entry way

facilitates the insertion  
of the archwire



occluso-gingival  
parallel planes

provide a secure grip with tweezers

vestibular indent

facilitates proper position  
on the tooth bonding phase

torque-in-base

minimizes occlusal contacts



ideal length

maximizes rotation control

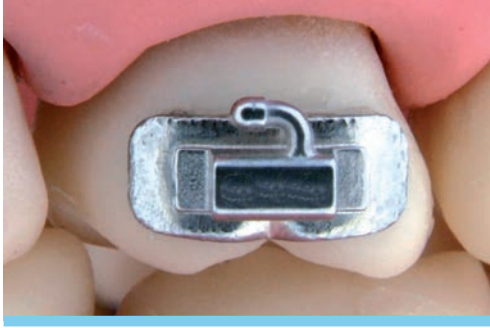


anatomical mesh pad

with intercuspoid indent, 80 mesh  
and FDI identification

			torque	rotat.	slot	direct bonding tubes
7 6   6 7			-14°	+8°	.022"	R <b>F8311-16</b>
						L <b>F8311-26</b>
7 6   6 7			-20°	+8°	.022"	R <b>F8311-46</b>
						L <b>F8311-36</b>

# D.B. MAXI mesh pad

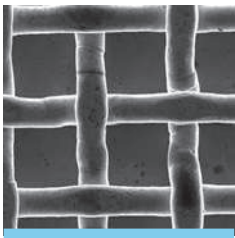


## F2800-00 D.B. MAXI MESH PAD

Each Leone **MIM**® tube is available soldered on the anatomical direct bonding **MAXI** mesh pad. Made of biomedical stainless steel, the anatomical **MAXI** pad is combined with the mesh through a sintering process allowing a perfect joint, without any variation in dimensions and geometry or any reduction in the mechanical retention strength. The selected tube is solder brazed on the mesh pad with a precious alloy under controlled atmosphere to obtain a perfect metal sealed joint and to avoid oxidation in the mouth. These features maximize the bond strength and make this product as an alternative to orthodontic bands.

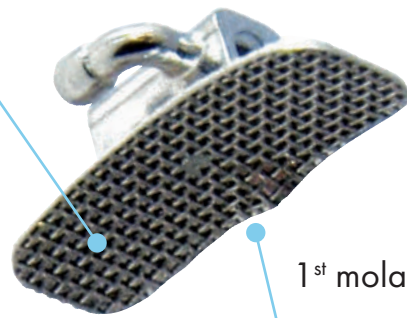
Hygiene and health of the soft tissues are improved, besides, the positioning of the tube will be more precise.

**Pack of 10**



### 80 gauge mesh

optimal with either self/light-cure,  
or variable density  
orthodontic adhesives

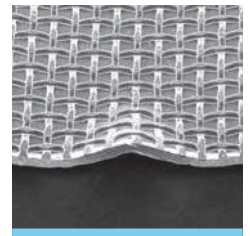


1<sup>st</sup> molar anatomical  
contoured

with positioning "indent"

bonding surface  
approx. 50% larger

than mesh pads currently used  
with direct bonding tubes



When ordering for customized tubes soldered on the **MAXI** mesh pad F2800-00, the right code number of the tube and the solder position\* of the round tube shall be indicated (\*which however must combine with the prescriptions of the selected tube).

Minimum quantity per order: pack of 10.

High quality free soldering service made with an industrial process.

**CAUTION: NO RETURNS OF CUSTOM PREWELDED MATERIAL WILL BE ACCEPTED FOR ANY REASON.**

IDEA-L lingual brackets feature small mesio-distal sizes, 1,4 mm depth and a special bracket design which make the application of **SLIDE** ligatures easy. In most cases, the use of a round wire **MEMORIA**® .012 is sufficient to get the solution of overcrowding and the aesthetical improvement of smile. In cases of dental rotations and/or major misplacements, wires of higher diameter, like **MEMORIA**® or Beta **MEMORIA**®, and conventional ligatures may also be used to gain biomechanical control. To get perfect alignment and levelling of the anterior teeth, an accurate position of the bracket is necessary; it is therefore advisable to use an indirect bonding technique with arch transfer trays made in the laboratory or with the special "jigs" conceived for this technique.



profile of  
1,4 mm depth

for patient acceptance and  
minimal speech issues

## custom design

makes the application of the **SLIDE** ligature  
easy and keeps it in place during treatment

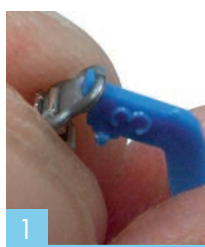


## SLIDE ligature

embodies the profile  
of the bracket, making it  
smooth and comfortable

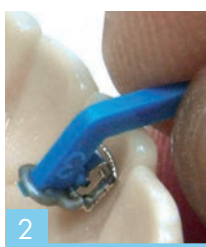


## SPECIAL PLASTIC JIG



1

Assemble jig on the  
bracket with the **SLIDE**  
ligature hooked under  
the gingival wing



2

Measure of the height of  
the selected jig on working  
cast and select correct  
size for the best bracket  
position



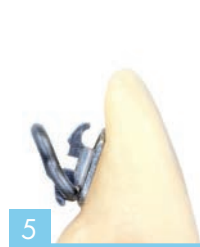
3

Position in the mouth  
and polymerization  
of the adhesive



4

Removal of the jig  
with a rotary  
movement



5

Bracket with the  
**SLIDE** ligature under  
the gingival wing



6

Bracket with wire  
and the **SLIDE**  
ligature in place



## IDEA-L system

			torque	ang.	.018"x.030"
			0°	$\frac{1}{1}$	<b>F4980-04</b>
			0°	$\frac{2}{2}$	<b>F4980-04</b>
			0°	$\frac{3}{3}$	<b>F4980-04</b>
			0°	$\frac{4}{4}$	<b>F4984-04</b>
			0°	$\frac{1}{1}$	<b>F4980-04</b>
			0°	$\frac{2}{2}$	<b>F4980-04</b>
			0°	$\frac{3}{3}$	<b>F4980-04</b>
			0°	$\frac{4}{4}$	<b>F4984-04</b>

Pack of 5



### F4980-91 IDEA-L LINGUAL BRACKET KIT

Composition of the kit: 8 brackets (one arch) and 12 **SLIDE** ligatures extra-small, silver colour

### F4900-60 KIT OF ASSORTED JIGS

Six sizes for the selection of the proper position according to the anatomy of the lingual surface of the tooth.  
**Assorted pack of 120 pcs**

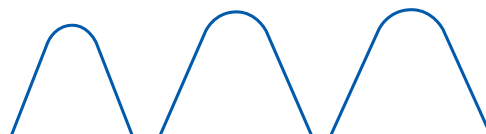


Courtesy of Dr. F. Giuntoli

### MEMORIA® AND BETA MEMORIA® LINGUAL ARCHWIRES

Sections .012" and .014" are made of a special Nickel Titanium alloy allowing light adaptations necessary in case of treatment extension to first bicuspids, thus keeping high elasticity. Section .016" Beta **MEMORIA®** is ideal to optimize the alignment and levelling values. The selector C4950-00 is available (page 63) to select the correct archwire shape.

Pack of 2



#### MEMORIA® lingual archwires

∅ inch	small	medium	large
.012	<b>C4950-12</b>	<b>C4951-12</b>	<b>C4952-12</b>
.014	<b>C4950-14</b>	<b>C4951-14</b>	<b>C4952-14</b>

#### Beta MEMORIA® lingual archwires

.016	<b>C4970-16</b>	<b>C4971-16</b>	<b>C4972-16</b>
------	-----------------	-----------------	-----------------

JIGS - REFILL Pack of 20

<b>F4900-01</b>	size 1	<b>F4900-04</b>	size 4
<b>F4900-02</b>	size 2	<b>F4900-05</b>	size 5
<b>F4900-03</b>	size 3	<b>F4900-06</b>	size 6



## D.B. LINGUAL ACCESSORIES

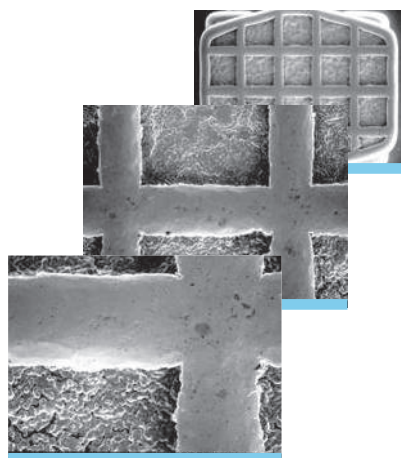


- F2860-00** Flat button
- F2870-00** Curved button
- F2893-00** Curved lug for elastics
- F2890-00** Flat lug for elastics
- F2820-00** Gull winged cleat
- F2822-00** Cleat low profile
- F2824-00** Low profile cleat for molar
- F2810-00** Eyelet

Pack of 10



Pack of 100 on request



## D.B. BUTTONS EXTREMO NO-NICKEL

Single piece buttons manufactured with **MIM**® technology in a biocompatible **nickel free\*** alloy. The Extremo no-nickel base, anatomical and with micro highly retentive cavities, perfectly fits the tooth and ensures an excellent bond with the use of any kind of adhesives.

Pack of 10



**F9060-00**

Low flat



**F9070-00**

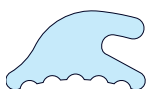
Deep curved



## D.B. NATURA® HOOKS

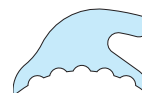
Designed by Dr. Massimo Ronchin. Made of siliceous copolymer.

Pack of 10



**F5060-00**

Flat



**F5060-01**

Curved

\*Nickel trace elements of  $\leq 0,1\%$  are due to the process of manufacturing



## F3140-01 NO-MIX ORTHODONTIC ADHESIVE IN SYRINGES

No mix of components is required. It saves much valuable chairtime. The application is simple and fast. The dense etching gel avoids contact of the acid with soft tissues.

The position of the bracket on the tooth can be adjusted on by 20 seconds from application. A light archwire can be inserted 5 minutes after bonding of the last bracket. Advantages: hygiene, ease of dispensing and handling.

### Pack content:

- adhesive in 3 syringes of 5 g each
- 1 activator of 14 g
- 1 etching gel of 9 g
- 40 brushes
- mixing pads and plastic spatulas

## REFILLS

Activator	<b>F3141-01</b>	14 g
Adhesive in 3 syringes	<b>F3142-01</b>	3x5 g
Etching gel	<b>F3143-01</b>	9 g



## F3107-00 PRIMER FOR D.B. AESTHETIC BRACKETS

Necessary for bonding fiber glass and micro-filled copolymer brackets to enamel with Leone orthodontic adhesive or any other type of adhesive.

Apply a thin layer on to the bracket base prior to usual bonding procedure.

**Pack of 8 g**



## UNIVERSAL BONDING MESH

**F2811-00** Thick thread    **F2812-00** Large thread

**Pack of 1 strip, 10 cm long**



## F3170-01 LIGHT-CURE ORTHODONTIC ADHESIVE

It allows a precise placement of brackets with easy removal of excess material from bracket base without curing and giving the clinician a prolonged working time. Once bracket is in the right position, just put it under light for 30 seconds to obtain the complete curing process.

### Pack content:

- 4 preloaded syringes of 5 g each
- 1 liquid primer of 7 g
- 1 etching gel of 9 g
- 40 disposable brushes
- mixing pads and plastic spatulas

## REFILLS

Primer	<b>F3171-01</b>	7 g
Adhesive in 4 syringes	<b>F3172-01</b>	4x5 g
Etching gel	<b>F3143-01</b>	9 g



## F3161-01 ETCHING GEL

A 33% orthophosphoric acid gel filled into a convenient syringe of 12 g, provided with thin tip application sticks for ease of dispensing and dosage. Ideal for any type of bonding system. Its gelatinous solidity and the green colour prevent acid from spreading in unwanted areas.

**Pack content:** 1 syringe and 25 disposable tips



## F3110-01 PRIMER FOR BONDING ON CERAMIC CROWNS

Necessary for bonding metal brackets to ceramic prosthesis.

**Pack of 6 ml**



## UPPER RETAINER CENTRAL TO CENTRAL

**F3812-93**  
**UPPER RETAINER  
CENTRAL TO CENTRAL KIT**  
Assorted kit of 20



mm		pkg.
4	<b>F3812-04</b>	10
6	<b>F3812-06</b>	
9	<b>F3812-09</b>	



## UPPER RETAINER LATERAL TO LATERAL

**F3822-93**  
**UPPER RETAINER LATERAL TO LATERAL KIT**  
Assorted kit of 20



mm		pkg.
14	<b>F3822-14</b>	10
16	<b>F3822-16</b>	
18	<b>F3822-18</b>	
20	<b>F3822-20</b>	



## LOWER RETAINER CUSPID TO CUSPID

Tooth shaped pads allow the maximum retention strength. Small thickness for a perfect adjustment to the lingual surface, with ease of hygiene and lower patient discomfort.

**F3836-93**  
**LOWER RETAINER CUSPID TO CUSPID KIT**  
Assorted kit of 10



mm		pkg.
29	<b>F3836-29</b>	2
31	<b>F3836-31</b>	
33	<b>F3836-33</b>	
35	<b>F3836-35</b>	
37	<b>F3836-37</b>	



## **F3810-27** **FLAT WOVEN WIRE FOR RETAINER**

Ideal to get minimally invasive and resistant splinting. The high plasticity of the wire permits the exact fit to the anatomy of the tongue while its woven geometry favors the union with the composite. Coil of 1.5 m



**F3940-95**  
**DIASTEMA KIT**  
Pack content: 20 tubes and 10 springs

### REFILLS

**F3941-00** Springs

**F3942-00** Tubes

Pack of 10

# TUBES AND BRACKETS



Leone buccal tubes are produced in stainless steel with Metal Injection Moulding technology for absolute precision of the slot size and a special bevelled design for maximum patient's comfort.

Every **MIM**® tube and attachment may be pre welded to either **CALIBRA**® o **WEB** bands with free prewelding service or solder-brazed on the D.B. anatomical mesh pad **MAXI F2800-00**, which is first molar anatomical contoured. Solder-brazing service is free of charge.

Leone brackets are manufactured from stainless steel with a mechanical micro machine working system to get the highest precision of slots. General tolerance is lower than 3/100. Under edges of tie wings are rounded.

All the Leone brackets may be welded on either **CALIBRA**® ou **WEB** bands with a free prewelding service.



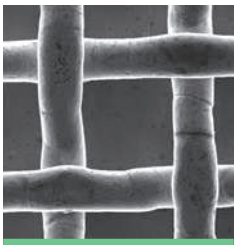
## Metal Injection Moulding technique

allowing the highest precision of slot



## rounded under edges of tie-wings

for higher patient comfort



## free prewelding and solder-brazing service

































## MIM<sup>®</sup> BUCCAL TUBES

Every MIM<sup>®</sup> tube may be pre welded to either **CALIBRA<sup>®</sup>** o **WEB** bands with free prewelding service (page 83) or solder-brazed on the D.B. anatomical mesh pad **MAXI F2800-00**, which is first molar anatomical contoured (page 134). Solder-brazing service is free of charge. Also available in the direct bonding version upon request (page 131).

**Pack of 10**



**Pack of 100**  
on request

				torque	rect. tube rot.	round tube diam.	retc. tube slot	weldable tubes	
	6/6 6/6	  	0°		.045"	occl.	R .018"	<b>G8084-22</b>	
							L	<b>G8084-23</b>	
			  	0°		.051"	occl.	R .018"	<b>G8085-12</b>
								L	<b>G8085-13</b>
		  	-10°	+8°	.045"	occl.	R .018"	<b>G8384-22</b>	
6/6							L	<b>G8384-23</b>	
		  	-10°	+8°	.051"	occl.	R .018"	<b>G8385-12</b>	
							L	<b>G8385-13</b>	
auxiliary tube .018"x.025"							R .022"	<b>G8325-12</b>	
							L	<b>G8325-13</b>	
	6/6 6/6	  	0°		.045"	ging.	R .018"	<b>G8084-12</b>	
									L
			  	-10°	+8°	.045"	ging.	R .018"	<b>G8384-12</b>
	6/6							L	<b>G8384-13</b>
							R .022"	<b>G8324-12</b>	
auxiliary tube .018"x.025"							L	<b>G8324-13</b>	
	6/6 6/6	  	0°				R .018"	<b>G8070-16</b>	
									L
			  	-14°	+8°			R .018"	<b>G8070-02</b>
	6/6							L	<b>G8070-03</b>
								R .022"	<b>G8010-02</b>
	auxiliary tube .018"x.025"							L	<b>G8010-03</b>
		  	-25°	+8°			R .018"	<b>G8070-06</b>	
6/6							L	<b>G8070-07</b>	
							R .022"	<b>G8010-06</b>	
auxiliary tube .018"x.025"							L	<b>G8010-07</b>	



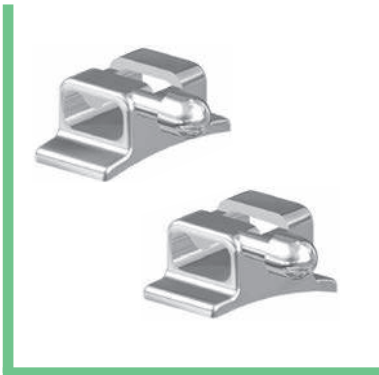
## MIM<sup>®</sup> BUCCAL TUBES

Pack of 10

Pack of 100  
on request

				torque	rect. tube rot.	round tube diam.	rect. tube slot	weldable tubes
	6/6	  	0°		.045" occl.	.018"	R <b>G8084-32</b> L <b>G8084-33</b>	
						.022"	R <b>G8024-32</b> L <b>G8024-33</b>	
	6/6	  	0°		.051" occl.	.018"	R <b>G8085-22</b> L <b>G8085-23</b>	
						.022"	R <b>G8025-22</b> L <b>G8025-23</b>	
	6/6	  	-10°	+8°	.045" occl.	.018"	R <b>G8384-32</b> L <b>G8384-33</b>	
						.022"	R <b>G8324-32</b> L <b>G8324-33</b>	
	6/6	  	-10°	+8°	.051" occl.	.018"	R <b>G8385-22</b> L <b>G8385-23</b>	
						.022"	R <b>G8325-22</b> L <b>G8325-23</b>	
	6/6	  	0°		.045" ging.	.018"	R <b>G8084-02</b> L <b>G8084-03</b>	
						.022"	R <b>G8024-02</b> L <b>G8024-03</b>	
	6/6	  	0°		.051" ging.	.018"	R <b>G8085-02</b> L <b>G8085-03</b>	
						.022"	R <b>G8025-02</b> L <b>G8025-03</b>	
	6/6	  	-10°	+8°	.045" ging.	.018"	R <b>G8384-02</b> L <b>G8384-03</b>	
						.022"	R <b>G8324-02</b> L <b>G8324-03</b>	
	6/6	  	-10°	+8°	.051" ging.	.018"	R <b>G8385-02</b> L <b>G8385-03</b>	
						.022"	R <b>G8325-02</b> L <b>G8325-03</b>	
	6/6	  	-25°	+8°	.045" ging.	.018"	R <b>G8384-06</b> L <b>G8384-07</b>	
						.022"	R <b>G8324-06</b> L <b>G8324-07</b>	
6/6	  	-25°	+8°	.051" ging.	.018"	R <b>G8385-06</b> L <b>G8385-07</b>		
					.022"	R <b>G8325-06</b> L <b>G8325-07</b>		

				torque	rect. tube rot.	round tube diam.	rect. tube slot	weldable tubes	
	7 6 6 7 7 6 6 7	  	0°				.018"	R <b>G8081-02</b> L <b>G8081-03</b>	
							.022"	R <b>G8021-02</b> L <b>G8021-03</b>	
	7 6 6 7	  	-10° +8°					.018"	R <b>G8381-02</b> L <b>G8381-03</b>
								.022"	R <b>G8321-02</b> L <b>G8321-03</b>
	7 6 6 7	  	-14° +8°					.022"	R <b>G8321-12</b> L <b>G8321-13</b>
									R <b>G8321-16</b> L <b>G8321-17</b>
	7 6 6 7	  	-20° +8°					.022"	R <b>G8321-16</b> L <b>G8321-17</b>
									R <b>G8381-06</b> L <b>G8381-07</b>
								.022"	R <b>G8321-06</b> L <b>G8321-07</b>



### MIM<sup>®</sup> LINGUAL TUBE WITH BALL HOOK

- G2846-02** Right
- G2846-03** Left
- G2847-02** Right, rotation -8°
- G2847-03** Left, rotation -8°

The curved flanges adapt to contours of both first and second molars.  
For use with double wires: .036".

**Pack of 10**



### MIM<sup>®</sup> ACTIVATOR TUBE FOR EXTRAORAL FACEBOW

Manufactured with Metal Injection Moulding technology, it allows high retention into acrylics. Comfortable bevelled design.

**Pack of 10**

- A0761-45** ∅ .045"
- A0761-51** ∅ .051"

# convertible MIM<sup>®</sup> buccal tubes











































## CONVERTIBLE MIM<sup>®</sup> BUCCAL TUBES

The laser welded convertible cap prevents from any detachment and it is easy removable with the special Leone instrument P1090-00. Every tube is available: in the D.B. version, prewelded to either **CALIBRA**<sup>®</sup> o **WEB** bands or solder-brazed on the D.B. anatomical mesh pad **MAXI F2800-00** (free services see pages 83, 134).

Pack of 10

 Pack of 100  
on request

				torque	rect. tube rot.	round tube diam.	rect. tube slot	weldable tubes
	6/6 6/6				0°	.045" occl.	.018"	R <a href="#">G8184-22</a> L <a href="#">G8184-23</a>
							.022"	R <a href="#">G8124-22</a> L <a href="#">G8124-23</a>
	6/6 6/6				0°	.051" occl.	.018"	R <a href="#">G8185-12</a> L <a href="#">G8185-13</a>
							.022"	R <a href="#">G8125-12</a> L <a href="#">G8125-13</a>
	6/6 6/6				-10°	+8°	.045" occl.	R <a href="#">G8484-22</a> L <a href="#">G8484-23</a>
							.022"	R <a href="#">G8424-22</a> L <a href="#">G8424-23</a>
	6/6 6/6				-10°	+8°	.051" occl.	R <a href="#">G8485-12</a> L <a href="#">G8485-13</a>
							.022"	R <a href="#">G8425-12</a> L <a href="#">G8425-13</a>
auxiliary tube .018"x.025"								
	6/6 6/6				0°		.018"	R <a href="#">G8170-16</a> L <a href="#">G8170-17</a>
							.022"	R <a href="#">G8110-16</a> L <a href="#">G8110-17</a>
	6/6 6/6				-14°	+8°	.018"	R <a href="#">G8470-02</a> L <a href="#">G8470-03</a>
							.022"	R <a href="#">G8410-02</a> L <a href="#">G8410-03</a>
6/6 6/6				-25°	+8°	.018"	R <a href="#">G8470-06</a> L <a href="#">G8470-07</a>	
						.022"	R <a href="#">G8410-06</a> L <a href="#">G8410-07</a>	
auxiliary tube .018"x.025"								
	6/6 6/6				0°	.045" occl.	.018"	R <a href="#">G8184-12</a> L <a href="#">G8184-13</a>
							.022"	R <a href="#">G8124-12</a> L <a href="#">G8124-13</a>
	6/6 6/6				0°	.051" occl.	.018"	R <a href="#">G8185-22</a> L <a href="#">G8185-23</a>
							.022"	R <a href="#">G8125-22</a> L <a href="#">G8125-23</a>
	6/6 6/6				-10°	+8°	.045" occl.	R <a href="#">G8484-12</a> L <a href="#">G8484-13</a>
							.022"	R <a href="#">G8424-12</a> L <a href="#">G8424-13</a>
	6/6 6/6				-10°	+8°	.051" occl.	R <a href="#">G8485-22</a> L <a href="#">G8485-23</a>
							.022"	R <a href="#">G8425-22</a> L <a href="#">G8425-23</a>
6/6 6/6				-14°	+10°	.045" occl.	R <a href="#">G8424-32</a> L <a href="#">G8424-33</a>	
						.022"	R <a href="#">G8424-32</a> L <a href="#">G8424-33</a>	

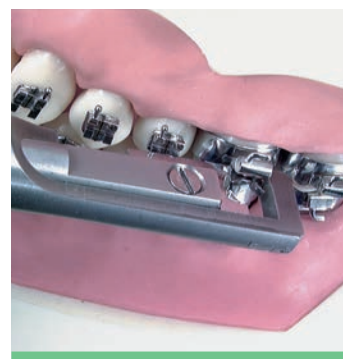
			torque	rect. tube slot	round tube diam.	rect. tube slot	weldable tubes				
	6/6		0°		.045" ging.	.018"	R <a href="#">G8184-02</a> L <a href="#">G8184-03</a>				
						.022"	R <a href="#">G8124-02</a> L <a href="#">G8124-03</a>				
	6/6		0°		.051" ging.	.018"	R <a href="#">G8185-02</a> L <a href="#">G8185-03</a>				
						.022"	R <a href="#">G8125-02</a> L <a href="#">G8125-03</a>				
	6/6		-10°	+8°	.045" ging.	.018"	R <a href="#">G8484-02</a> L <a href="#">G8484-03</a>				
						.022"	R <a href="#">G8424-02</a> L <a href="#">G8424-03</a>				
6/6		-10°	+8°	.051" ging.	.018"	R <a href="#">G8485-02</a> L <a href="#">G8485-03</a>					
					.022"	R <a href="#">G8425-02</a> L <a href="#">G8425-03</a>					
6/6						.022"	R <a href="#">G8424-16</a> L <a href="#">G8424-17</a>				
						-20°					
						-25°	+8°	.045" ging.	.018"	R <a href="#">G8484-06</a> L <a href="#">G8484-07</a>	
						-25°			.022"	R <a href="#">G8424-06</a> L <a href="#">G8424-07</a>	
6/6		-25°	+8°	.051" ging.	.018"	R <a href="#">G8485-06</a> L <a href="#">G8485-07</a>					
					.022"	R <a href="#">G8425-06</a> L <a href="#">G8425-07</a>					
	6/6		0°			.018"	R <a href="#">G8181-02</a> L <a href="#">G8181-03</a>				
						.022"	R <a href="#">G8121-02</a> L <a href="#">G8121-03</a>				
	6/6		-10°	+8°			.018"	R <a href="#">G8481-02</a> L <a href="#">G8481-03</a>			
							.022"	R <a href="#">G8421-02</a> L <a href="#">G8421-03</a>			
	6/6		-20°	+8°			.022"	R <a href="#">G8421-16</a> L <a href="#">G8421-17</a>			
							-25°	+8°			
6/6		-25°	+8°			.018"	R <a href="#">G8481-06</a> L <a href="#">G8481-07</a>				
						.022"	R <a href="#">G8421-06</a> L <a href="#">G8421-07</a>				



### P1090-00 CAP REMOVER FOR CONVERTIBLE TUBES

\*\*\*

It makes the conversion of rectangular tube easy when banding of second molar is required. Autoclavable. Replaceable tips **P1090-01**, 2 pcs.



## WELDABLE BRACKETS

Pack of 10

Pack of 100  
on request



upper



lower

		torque	ang.	mm	slot .018"	slot .022"		
<b>2   1   2</b>								
			0°	2,5	R	<b>G2080-14</b>	<b>G2020-14</b>	
					L			
			0°	3,3	R	<b>G2080-34</b>	<b>G2020-34</b>	
					L			
<b>1   1</b>								
			0°	3,5	R	<b>G2086-14</b>	<b>G2026-14</b>	
					L			
			0°	4,4	R	<b>G2080-44</b>	<b>G2020-44</b>	
					L			
			+10°	+5°	3,3	R	<b>G2421-02</b>	<b>G2421-03</b>
					L			
			+22°	0°	3,3	R	<b>G2480-04</b>	
					L			
<b>2   2</b>								
			0°	2,7	R	<b>G2080-24</b>	<b>G2020-24</b>	
					L			
			+5°	+10°	2,7	R	<b>G2422-02</b>	<b>G2422-03</b>
					L			
			+14°	+8°	2,7	R	<b>G2482-02</b>	<b>G2482-03</b>
					L			
<b>3   3</b>								
			0°	2,5	R	<b>G2080-14</b>	<b>G2020-14</b>	
					L			
			0°	2,7	R	<b>G2088-04</b>	<b>G2028-04</b>	
					L			
			0°	3,3	R	<b>G2088-14</b>	<b>G2028-14</b>	
					L			
			+7°	+5°	3,3	R	<b>G2483-08</b>	<b>G2483-00</b>
					L			
			-10°	+10°	3,3	R	<b>G2423-02</b>	<b>G2423-03</b>
					L			
			-10°	+15°	3,3	R	<b>G2423-12</b>	<b>G2423-13</b>
					L			
<b>5 4   4 5</b>								
			0°	2,7	R	<b>G2088-04</b>	<b>G2028-04</b>	
					L			
			0°	3,3	R	<b>G2088-34</b>	<b>G2028-34</b>	
					L			
			0°	2,0	R	<b>G2089-14</b>	<b>G2029-14</b>	
					L			
			0°	3,3	R	<b>G2084-01</b>	<b>G2024-01</b>	
					L			
			-7°	0°	3,3	R	<b>G2489-01</b>	<b>G2429-11</b>
					L			

		torque	ang.	mm	slot .018"	slot .022"		
<b>2   1   2</b>								
			0°	2,0	R	<b>G2080-04</b>	<b>G2020-04</b>	
					L			
			0°	2,1	R	<b>G2080-05</b>	<b>G2020-05</b>	
					L			
<b>3   3</b>								
			0°	2,5	R	<b>G2080-14</b>	<b>G2020-14</b>	
					L			
			0°	2,7	R	<b>G2088-04</b>	<b>G2028-04</b>	
					L			
			0°	3,3	R	<b>G2088-14</b>	<b>G2028-14</b>	
					L			
			+7°	+5°	3,3	R	<b>G2483-00</b>	<b>G2483-08</b>
					L			
			-10°	+5°	3,3	R	<b>G2423-06</b>	<b>G2423-07</b>
					L			
			-10°	+10°	3,3	R	<b>G2423-16</b>	<b>G2423-17</b>
					L			
<b>5 4   4 5</b>								
			0°	2,7	R	<b>G2088-04</b>	<b>G2028-04</b>	
					L			
			0°	3,3	R	<b>G2088-34</b>	<b>G2028-34</b>	
					L			
			-7°	0°	3,3	R	<b>G2484-05</b>	
					L			
			-15°	0°	3,3	R	<b>G2485-05</b>	
					L			
			0°	2,0	R	<b>G2089-14</b>	<b>G2029-14</b>	
					L			
			0°	3,3	R	<b>G2084-01</b>	<b>G2024-01</b>	
					L			
			-17°	0°	3,3	R	<b>G2489-15</b>	<b>G2429-15</b>
					L			
			-22°	0°	3,3	R	<b>G2489-05</b>	<b>G2429-25</b>
					L			
<b>6   6</b>								
			0°	3,5	R	<b>G2086-14</b>	<b>G2026-14</b>	
					L			
			0°	4,4	R	<b>G2080-44</b>	<b>G2020-44</b>	
					L			

suggested for Andrews system  
 suggested for Ricketts system



# connectors for laser welding and weldable accessories

## CONNECTORS FOR LASER WELDING

Connectors for laser welding are accessories to be welded on the lingual side of the bands. Manufactured with **MIM**® technology, they feature a special fit geometry allowing the hold of the wire or the arm of the expander for laser welding of elements with a different thickness. The three models allow to make expanders, palatal bars and quad-helix with safety and solidity of the welded joints.

**Pack of 10**



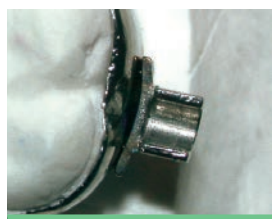
**G0560-00**  
**CONNECTOR**  
**FOR EXPANDERS**



**G0565-09**  
**CONNECTOR 0,9 mm**  
**FOR BICUSPIDS**



**G0570-09**  
**CONNECTOR 0,9 mm**  
**FOR MOLARS**



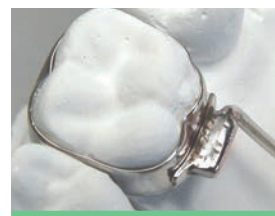
The connector's flanges ensure a good joint to the band by means of a welding machine



The connector's shape enables a correct biomechanical position of the arm and the hygiene of the area



Detail of the wire housing into the connector's seat



Laser welded connector: mechanic resistance and stainlessness are guaranteed

## ROUND TUBES



	mm		pkg.
.036"	6,5	<b>G0533-36</b>	10
.045"	5,5	<b>G0532-45</b>	
.045"	9,5	<b>G0535-45</b>	

## TWIN ARCH SYSTEM TUBES



**G0520-24**  
Length 28,6 mm  
For double wire .011".  
Outer diameter: .036".



## MIM® SURGICAL HOOKS

For intermaxillary post-surgical fixation and tractions. Round edges. Easy to place with plier P1911-00.

## ROUND TUBING



		pkg.
.036"	<b>G0525-36</b>	1 pc 30 cm
.045"	<b>G0525-45</b>	long



**G0533-36**  
For soldering.  
Inner diameter .036".  
**Pack of 10**

	mm	for arch .018"	for arch .022"	pkg.
2,0	<b>G9620-18</b>	<b>G9620-22</b>	10	
2,0 open	<b>G9650-18</b>	<b>G9650-22</b>		

## LINGUAL BUTTONS



**G2860-00**  
Flat  
for centering on molars



**G2865-00**  
Curved  
for mesial placement on molars



**G2870-00**  
Deep curved for bicuspid  
  
Pack of 10

## G2850-00 LINGUAL SEATING LUGS

Pack of 100



## CRIMPABLE ARCH STOP

It can be inserted without removing the archwire. Once placed into the mouth, crimp it with a heavy cutter or universal pliers. Suggested for use with coil springs too.

**G9225-18** arches .018"x.025"

**G9228-22** arches .022"x.028"

Pack of 10



## ELASTIC LUGS

**G2893-00** Curved for posteriors

**G2890-00** Flat for anteriors

Pack of 100



## LINGUAL CLEATS LOW PROFILE

**G2824-00** For molars

**G2822-00** For cuspids  
and bicuspid

Pack of 100



## G9019-25 CRIMPABLE CLOSED HOOK

For treatment with **STEP** technique, it is used for the application of intra and extraoral forces on .019"x.025" archwires in extra spring hard or super hard heat-treated stainless steel. Crimp it with a large cutter or P1911-00 plier.

Pack of 10



## G2810-00 EYELET

Pack of 100



## G2820-00 LINGUAL CLEATS HIGH PROFILE

Pack of 100



# ELASTICS AND LIGATURES



K



Leone offers elastics manufactured with the best quality of latex available.

The innovative low friction **SLIDE\*** ligatures are manufactured in a special medical grade polyurethane mix providing all the advantage of low friction biomechanical properties with faster therapeutic times and without the need of extractions. These ligatures are especially indicated for use with Logic Line brackets.

Leone modules for ligatures are stamped from elastomer offering the best elasticity and resistance to oral liquid absorption.

Leone wires for metal ligatures are manufactured out from a high vacuum annealed alloy for the best fit and higher mechanical load.

**SLIDE** low friction ligatures

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mini modules ligatures

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wires for metal ligatures

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\*PATENTED

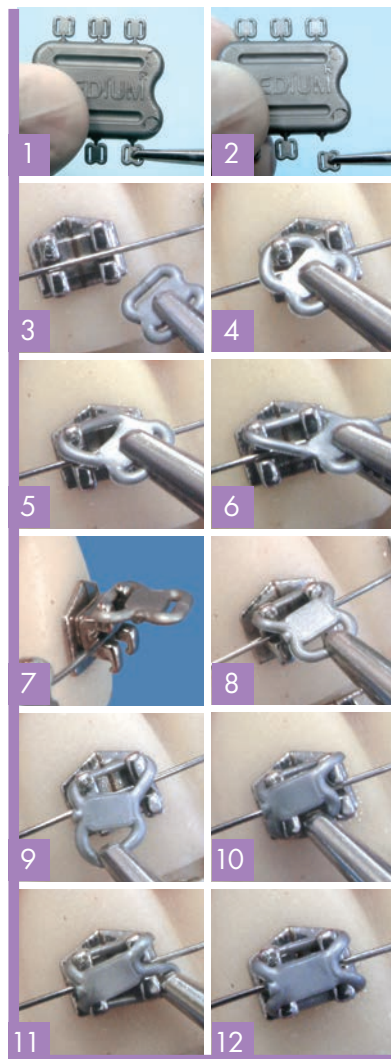
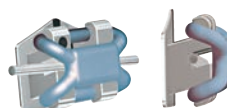
## SLIDE LOW FRICTION LIGATURES

**SLIDE** is a product manufactured with a special polyurethane mix for medical use. It is applied similarly to conventional elastic ligatures. Once placed on the bracket, it creates a passive ligature on the slot that makes the archwire free to slide and to produce its effects on the dentoalveolar structures. This ligature is especially indicated for use with Logic Line brackets which are featuring a housing to keep **SLIDE** ligature in place for integration in the bracket profile. The particular conformation of the **SLIDE** ligature considerably improves patient's comfort during the first phases of treatment.

**Pack of 10 modules, 6 ligatures each**



color	extra-small	small	medium
 blue	K6254-10A	K6251-10A	K6252-10A
 yellow	K6254-10G	K6251-10G	K6252-10G
 green	K6254-10V	K6251-10V	K6252-10V
 white	K6254-10	K6251-10	K6252-10
 red	K6254-10R	K6251-10R	K6252-10R
 pink	K6254-10S	K6251-10S	K6252-10S
 black	K6254-10N	K6251-10N	K6252-10N
 ice	K6224-10	K6221-10	K6222-10
 silver	K6264-10	K6261-10	K6262-10



# SLIDE low friction ligatures



## SLIDE COLOURED LIGATURES KIT

<b>K6254-93</b>	extra-small
<b>K6251-93</b>	small
<b>K6252-93</b>	medium

**Pack of 432 pcs:**  
72 assorted modules, 6 ligatures each in 6 colors  
(pink, red, white, green, yellow, blue)

## **K6260-95** SLIDE LIGATURE SILVER KIT

**Pack of 432 pcs:**  
72 modules, 6 ligatures each:  
24 extra-small, 24 small, 24 medium

## SLIDE AQUA LOW FRICTION LIGATURES

Thanks to an innovative manufacturing process, the new **SLIDE** low friction ligatures **AQUA** are not subject to corrosion by oral liquids and are now even more resistant to discoloration (a recurring issue with transparent elastomers). Changing ligatures frequently is no longer necessary and perfect aesthetics is guaranteed. This ligature is indicated for use with Logic Line aesthetic brackets (pages 119-122) which are featuring a housing to keep **SLIDE** ligature in place for the integration in the bracket's profile. Clear color.



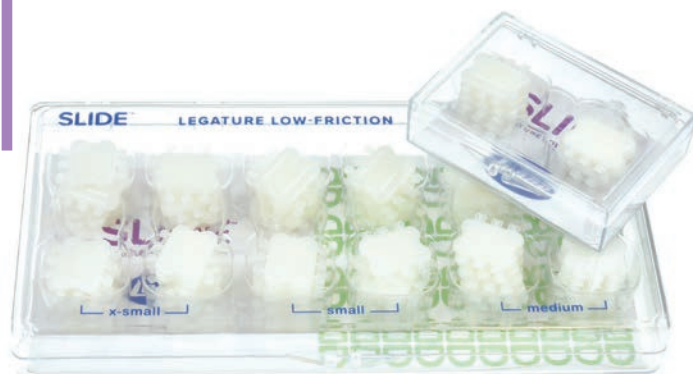
Courtesy of Dr. A. Fortini

<b>K6214-10</b>	extra-small
<b>K6211-10</b>	small
<b>K6212-10</b>	medium

**Pack of 10 modules, 6 ligatures each**

## **K6210-93** SLIDE AQUA LIGATURE KIT

**Pack of 432 pcs:**  
72 assorted modules, 6 ligatures each:  
24 extra-small, 24 small, 24 medium



## ELASTIC LIGATURES

Manufactured out from high elastic material with a precision injection moulding process. The perfect ring section facilitates the ligation of the brackets. The use of the mini modules allows for a better control of infections.



### ELASTIC COLOURED LIGATURE KIT MINI MODULES

- K7351-93** inner diam. 1,0 mm - **small**
- K7352-93** inner diam. 1,3 mm - **medium**
- K7353-93** inner diam. 1,6 mm - **large**

**Pack of 840 rings:**  
6 mini modules of 10 rings each in 7 colours

### K7320-93 ELASTIC LIGATURE KIT SILVER AND TRANSPARENT MINI MODULES

**Pack of 840 rings:**  
84 assorted mini modules of 10 rings each:  
24 small, 36 medium, 24 large



### MINI MODULES

colour	small inner diam. 1,0 mm	medium inner diam. 1,3 mm	large inner diam. 1,6 mm
blue	<b>K7351-10A</b>	<b>K7352-13A</b>	<b>K7353-16A</b>
pink	<b>K7351-10S</b>	<b>K7352-13S</b>	<b>K7353-16S</b>
green	<b>K7351-10V</b>	<b>K7352-13V</b>	<b>K7353-16V</b>
yellow	<b>K7351-10G</b>	<b>K7352-13G</b>	<b>K7353-16G</b>
red	<b>K7351-10R</b>	<b>K7352-13R</b>	<b>K7353-16R</b>
orange	<b>K7351-10E</b>	<b>K7352-13E</b>	<b>K7353-16E</b>
purple	<b>K7351-10L</b>	<b>K7352-13L</b>	<b>K7353-16L</b>
transparent	<b>K7321-10</b>	<b>K7322-13</b>	<b>K7323-16</b>
silver	<b>K7361-10</b>	<b>K7362-13</b>	<b>K7363-16</b>

**Pack of 20 mini modules,**  
10 rings each

200  
pcs



## ELASTIC CHAINS FOR LIGATURES

Manufactured out from high elastic material with a precision injection moulding process. The perfect ring section facilitates the ligation of the brackets. The use of the mini modules allows for a better control of infections.

Ø		grey	transparent	
inner				pkg.
1,30 mm	long	K6460-13	K6420-13	spools of 5 m (15 feet)
	short	K6465-13	K6425-13	
	extra short	K6466-13	K6426-13	

## ELASTIC CHAIN KITS

**K6429-93**      Transparent  
**K6469-93**      Grey

**Pack of 6 spools:**

- 3 short
- 2 closed
- 1 long on a plexiglas rack



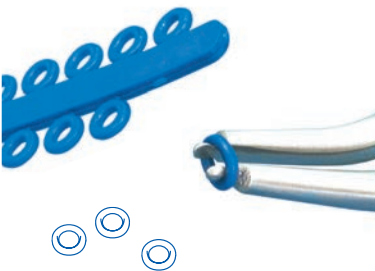
long



short



extra short

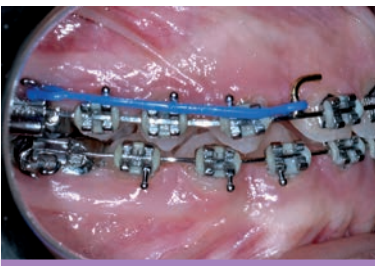


## K6378-00

### RADIO OPAQUE SEPARATORS IN MODULES

Their circular section allows an easy application with special pliers P1141-00 assuring a gradual and comfortable separation of the teeth before the application of the bands. Radio opaque for a secure X-ray visualization.

**Pack of 100 modules, 10 rings each**



Courtesy of Dr. A. Fortini



## K6461-01

### TIE-BACK

For the application of elastic tractions on treatments with **STEP** technique. Easy insertion on molar tube.

The four anterior holes allow a perfect dosage of force on archwire hook.

Colour: blue.

**Pack of 10**



## ELASTIC LIGATING MODULES

∅	transparent	grey	pink	blue	green	pkg.
inner						
1,0 mm	<b>K7825-10</b>	<b>K7865-10</b>	<b>K7855-10S</b>	<b>K7855-10A</b>	<b>K7855-10V</b>	600
1,3 mm	<b>K7825-13</b>	<b>K7865-13</b>	<b>K7855-13S</b>	<b>K7855-13A</b>	<b>K7855-13V</b>	pcs.

Pack of 30 modules, 20 rings each



## ELASTIC LIGATURES

Used in replacement of metallic ligatures.  
Easy engagement under bracket tie wings.

color		pkg.
light	transparent	<b>K6320-10</b>
medium		<b>K6320-13</b>
light	grey	<b>K6360-10</b>
medium		<b>K6360-13</b>



## ELASTIC WIRE FOR LIGATURES AND TRACTIONS

Made of highly elastic, atoxic polyurethane. The rough surface enhances the tightness of ligatures and traction loops.

∅	transparent	pkg.
mm		
0,6	<b>K6125-06</b>	8 m
0,8	<b>K6125-08</b>	



## COTTON THREAD FOR ELASTIC LIGATURES

A special elasticized cotton thread created for separation, distalization, traction movements of non-erupted teeth, rotation and closure of spaces at the end of treatment.

light	<b>K4030-01</b>	reels of 25 m
medium	<b>K4030-02</b>	
strong	<b>K4030-03</b>	



## LIGATURE WIRE

Made of stainless steel.



pkg.		mm	inch		pkg.
spools of 20 g approx.	<b>K4050-23</b>	0,23	.009	<b>K4051-23</b>	reels of 500 g approx.
	<b>K4050-25</b>	0,25	.010	<b>K4051-25</b>	
	<b>K4050-28</b>	0,28	.011	<b>K4051-28</b>	
	<b>K4050-30</b>	0,30	.012	<b>K4051-30</b>	
	<b>K4050-36</b>	0,36	.014	<b>K4051-36</b>	

## ELASTIC LIGATURE WIRE

500% elongation capacity with little fatigue. High degree of resistance to oral liquid absorption.

Spools of 8 m

∅	transparent	grey
mm		
0,60	<b>K6020-06</b>	<b>K6060-06</b>
0,80	<b>K6020-08</b>	<b>K6060-08</b>



## K6990-18 THERMORETRACTILE PROTECTIVE TUBE

A thermo retractile plastic tubing for covering of labial arches and lip bumpers. It acts as a bumper to protect the buccal mucous membrane from contact with metal wire for better patient comfort. For wires 1,15 mm (.045") up to 1,80 mm (.071") in diameter.

**Pack of 1 m**



## K0470-00 LABIAL ARCHWIRE TUBE

Made of a chemically inert material, anti-adhesive, non porous, with a very low friction coefficient. Slightly thermo retractile when heated at 150°C.

For wires 0,7 mm (.028") up to 0,8 mm (.031") in diameter.

**Pack of 5 m**



## ELASTOMER PROTECTIVE TUBE

High flexible tube that can easily slip over the arch wire to protect buccal mucosa from damage or irritation. When cut to proper length, it prevents over-closure of spaces.

∅ inner	transparent	
mm	inch	pkg.
0,5	.018	<b>K6940-05</b>
0,7	.027	<b>K6940-07</b>



## PREFORMED WIRE KOBAYASHI

Once ligature is ready, a traction hook may be formed with the looped soldered end, suitable for any kind of bracket.



## K4680-36 NATURA® PREFORMED KOBAYASHI LIGATURES

Made of wire .014" (0,36 mm) in diameter, twisted, with tooth colour coating.  
**Pack of 100**



## K4280-30 NATURA® PREFORMED LIGATURE WIRE

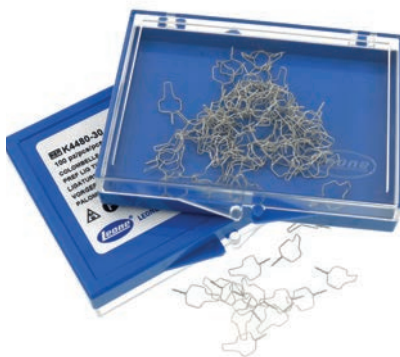
Made of wire .012" (0,30 mm) with tooth colour coating.  
**Pack of 100**

Ø		Diagram		pkg.
mm	inch			
0,30	.012		<b>K4610-30</b>	100
0,36	.014		<b>K4610-36</b>	



## K4430-25 PREFORMED LIGATURE TIES

Made of wire .010" (0,25 mm) in diameter.  
**Pack of 1000**



## K4480-30 NATURA® PREFORMED LIGATURE TIES

Made of wire .012" (0,30 mm) in diameter, with tooth colour coating.  
**Pack of 100**



## PREFORMED LIGATURE WIRE

Ø		Diagram		pkg.
mm	inch			
0,23	.009		<b>K4210-23</b>	1000
0,25	.010		<b>K4210-25</b>	
0,28	.011		<b>K4210-28</b>	
0,30	.012		<b>K4210-30</b>	



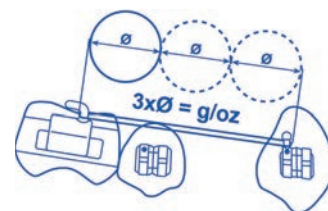


## INTRAORAL ELASTICS

Cut from pure surgical latex tubing. All packages indicate the diameter size and the elastic pull which comes into force when the elastic is stretched three times its diameter. On each bag a colored image is printed, for an immediate identification from young patients.

**Pack of 10 bags, 100 elastics approx. each bag**

	inner					
		brown	green	red	blue	orange
		1/8" - 3,2 mm	3/16" - 4,8 mm	1/4" - 6,4 mm	5/16" - 7,9 mm	3/8" - 9,5 mm
<b>light</b> 2,5 oz - 70 g		K0901-02	K0902-02	K0903-02	K0904-02	K0905-02
<b>medium</b> 4,5 oz - 126 g		K0906-04	K0907-04	K0908-04	K0909-04	K0910-04
<b>heavy</b> 6,5 oz - 182 g		K0915-06	K0911-06	K0912-06	K0913-06	K0914-06



## EXTRAORAL ELASTICS

Cut from pure surgical latex.  
**Pack of 1 bag**  
with 100 elastics approx.



### K0950-00

**APPLICATOR  
FOR INTRAORAL ELASTICS**

**Pack of 100**



	inner					
		3/16" - 4,8 mm	1/4" - 6,4 mm	5/16" - 7,9 mm	3/8" - 9,5 mm	1/2" - 12,7 mm
<b>strong</b> 8 oz - 224 g		K0932-08	K0933-08	K0934-08	K0935-08	K0936-08

**Caution:** these products contain natural rubber latex that may cause allergic reactions.

# INTRA-EXTRAORAL

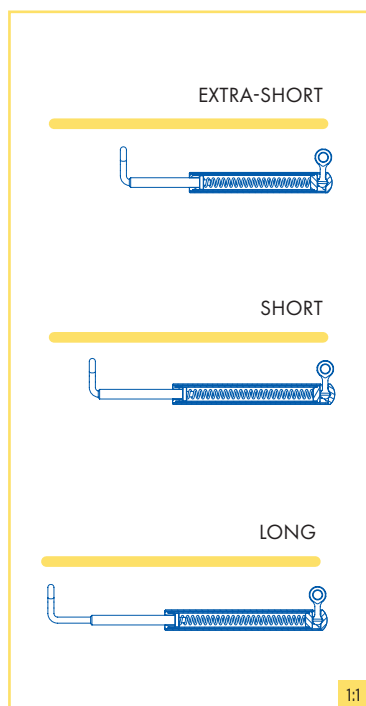


M



## CLASS II CORRECTOR

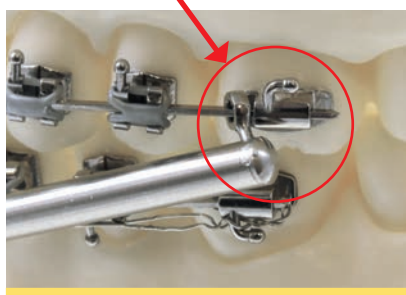
The non-compliance device for Class II correction. The small sizes of the device allow for optimum patient comfort while the constant and light force delivered by the spring **MEMORIA**® 200 g, located inside the plunger, stimulates the mandibular advancement. In this new version, the fluidity of movement and the strength of the telescopic mechanism are improved. The packages include all the needful parts for the application of a bilateral correction device.



Available in **3 lengths** with both mesial and distal fitting to upper molar tube, for a total of 6 possible positions in the mouth. When used in the mesial position, it can be placed on a single direct-bonding tube without the need of band or round tube.

mesial support

to vestibular tube



distal support

to vestibular tube



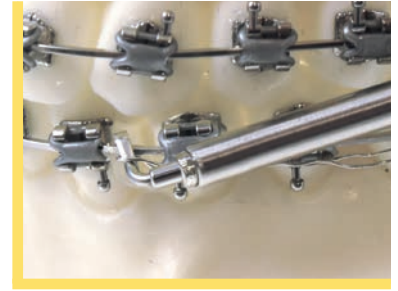
To avoid breakage, the device should not be mounted at full compression: once in the mouth in habitual occlusion, a portion of the plunger coming out of the tube for at least **2 mm** should be visible.



\*PATENTED

## Available in 2 versions:

### 1 with anterior eyelet



### 2 with anterior hook



WITH ANTERIOR EYELET	WITH ANTERIOR HOOK	Type	Length at full expansion (passive configuration)	Length at full compression (including 2 mm additional possible compensation, see page 162)	Maximum safety stroke of spring	Maximum opening allowed to prevent disassembly
M2302-00	M2301-00	EXTRA-SHORT	31 mm	25 mm	7,5 mm	48 mm*
M2302-01	M2301-01	SHORT	35 mm	28 mm	10 mm	56 mm*
M2302-02	M2301-02	LONG	40 mm	33 mm	10 mm	62 mm*



\*Distance between the 2 eyelets or hooks of anchorage

### M2301-91 CLASS II CORRECTOR KIT WITH ANTERIOR HOOK

Pack of 3 correctors with anterior hook (1 extra-short, 1 short, 1 long) and 6 measuring gauges

### M2302-91 CLASS II CORRECTOR KIT WITH ANTERIOR EYELET

Pack of 3 correctors with anterior eyelet (1 extra-short, 1 short, 1 long) and 6 measuring gauges



With the help of this measuring gauge, it will be simple and intuitive to figure out which of the three available lengths will be the correct one.

## M3052-00

### MINI LIP BUMPER BY PROF. NICOLA VELTRI

Designed by Prof. Nicola Veltri: this device is intended for use on patients with deciduous or mixed dentition with lack of space and/or small jaw with either sagittal or transversal dimension. The early application on deciduous molars positively stimulates the development of the mandible. The mini lip bumper is made with a special inclination of the archwire so as the anterior shield is positioned in the area where the lip is highly pushed forward and has a **stop adjustable screw** that makes a precise activation possible without the need of bending the wire. The adjustment of the stop requires the screwdriver REF P1520-00.

**Pack of 5**



## LIP BUMPER

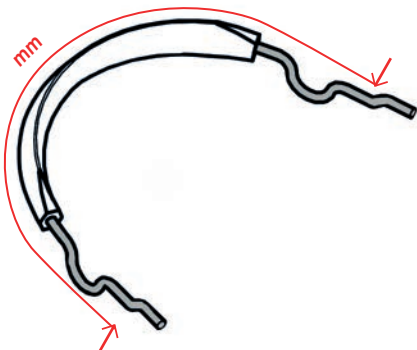
Made of biomedical stainless steel .045" wire.  
Non toxic techno-polymer labial coating.



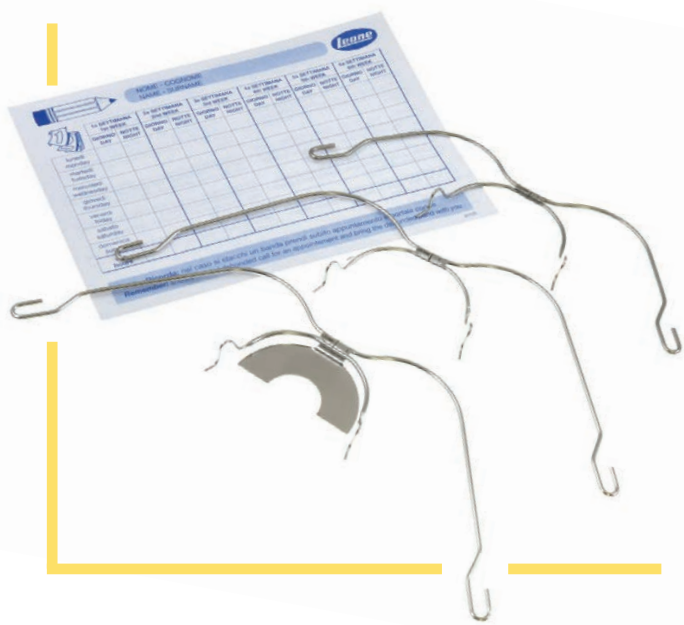
**M3050-00** without loops

**M3051-00** with loops

## LIP BUMPER WITH LOOPS AND BAYONET STOPS



size	mm	pkg.	pkg.
1	76	<b>M3051-01</b>	<b>M3051-011</b>
2	80	<b>M3051-02</b>	<b>M3051-012</b>
3	84	<b>M3051-03</b>	<b>M3051-013</b>
4	88	<b>M3051-04</b>	<b>M3051-014</b>
5	92	<b>M3051-05</b>	<b>M3051-015</b>



Entirely made of biomedical spring stainless steel wire: the outer bow measures 1,80 mm in diameter and the single piece inner bow has a terminal portion of .045" (1,14 mm).

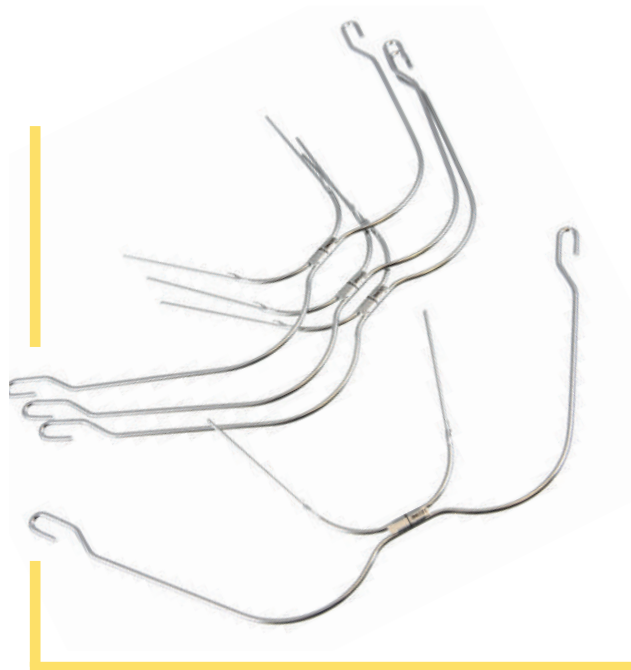
The laser welded bows joint, without the presence of solder material, is breakage resistant and avoids allergic reactions due to bimetallism. Midline and number clearly laser marked.

Bright polished for maximum hygiene.

Outer bow is available in three lengths.

Standard size is available with pre-formed loops, bites or double bites, all with the option of hooks for elastics.

**Caution:** All extraoral facebows are intended for use with Leone M0810 safety modules.

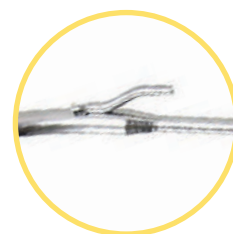


## STANDARD EXTRAORAL FACEBOWS

Thanks to the choice of making the inner stainless steel one-piece bow integral with the end portion of .045" (1,14 mm), the realization of loops and/or bayonet stops does not decrease its structural resistance, by ensuring the transmission of extra oral forces to the tubes on the bands.

Outer bow available in three lengths and with the option of elastic hooks.

**Caution:** all extraoral facebows are intended for use with Leone M0810 safety modules.



	outer arch diameter		inner arch diameter	
	mm	mm	inch	

standard facebow		
	pkg.	pkg.

standard facebow with hooks for elastics		
	pkg.	pkg.

**new**

extralong outer arch

1,80 1,14 .045

M4840-00

M4840-001

1

10

long outer arch

1,80 1,14 .045

M4800-00

M4800-001

M4801-00

M4801-001

1

10

1

10

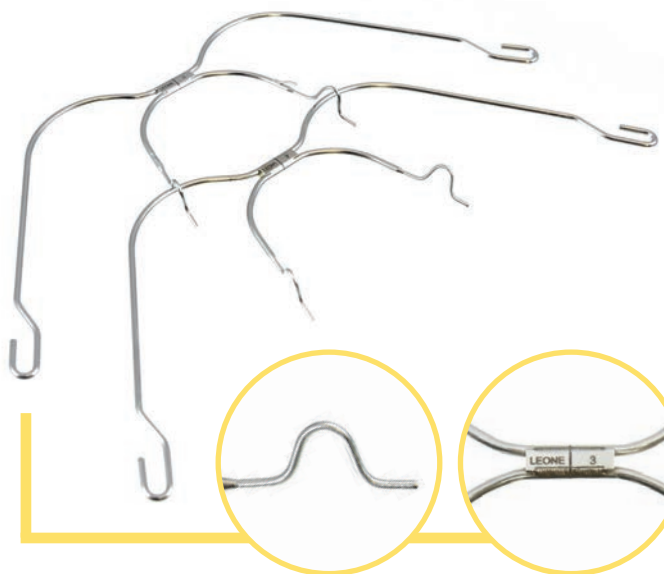
short outer arch

M4830-00

M4830-001

M4831-00

M4831-001



## EXTRAORAL FACEBOWS WITH PREFORMED LOOPS

Thanks to the choice of making the inner stainless steel one-piece bow with the end portion of .045" (1,14mm), the preformed loops are easily adaptable to the patient needs but also very breakage resistant. Available in five sizes both with hooks for elastics for anteriors or with bite to facilitate lower intrusion.

**Caution:** all extraoral facebows are intended for use with Leone M0810 safety modules.

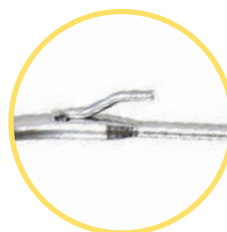
midline  
clearly marked

### WITH PREFORMED LOOPS

d = intermolar width from loop to loop in millimeter	long outer bow		short outer bow			
	size	pkg.	pkg.	pkg.		
	83	1	M4805-01	M4805-011	M4835-01	M4835-011
	90	2	M4805-02	M4805-021	M4835-02	M4835-021
	97	3	M4805-03	M4805-031	M4835-03	M4835-031
	104	4	M4805-04	M4805-041	M4835-04	M4835-041
	111	5	M4805-05	M4805-051	M4835-05	M4835-051

### WITH PREFORMED LOOPS AND HOOKS FOR ELASTICS

d = intermolar width from loop to loop in millimeter	long outer bow		
	size	pkg.	
	83	1	M4806-01
	90	2	M4806-02
	97	3	M4806-03
	104	4	M4806-04
	111	5	M4806-05



### WITH PREFORMED LOOPS AND BITE

d = intermolar width from loop to loop in millimeter	with bite plane hard stainless steel		
	size	pkg.	
	83	1	M4808-01
	90	2	M4808-02
	97	3	M4808-03
	104	4	M4808-04
	111	5	M4808-05

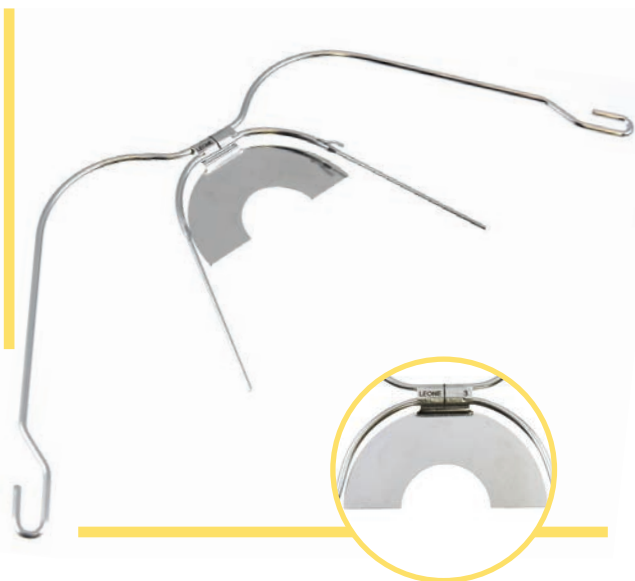


## EXTRAORAL FACEBOWS WITH SINGLE AND DOUBLE BITE

The bite is made of stainless steel and it is laser welded to the front portion of the facebow.

Available with single or double bite, with soft or hard bite, with hooks and with hooks and elastic retractor.

**Caution:** all extraoral facebows are intended for use with Leone M0810 safety modules.



	standard		with hooks for elastics	with hooks and elastic retractor	
	with bite	with double bite	with bite	with bite	pkg.
hard stainless steel bite plane	<b>M4808-00</b>	<b>M4824-00</b>	<b>M4809-00</b>	<b>M4807-00</b>	1
soft stainless steel bite plane	<b>M4808-10</b>	<b>M4824-10</b>	<b>M4809-10</b>	<b>M4807-10</b>	



### M3620-01 SLEEVE FOR EXTRAORAL FACEBOWS AND HEADGEARS

Pack of 10

### M3307-00 WELDABLE STOP FOR ARCHES

Made of biomedical stainless steel. It is mostly used with intra oral arches and lip bumper. Just use a spot of a welding machine to fix it. For use with wire 1,14 mm (.045") in diameter.

Pack of 10



### M3309-00 FACEBOW SCREW STOP

Made of stainless steel. For use with wire 1,14 mm (.045") in diameter. Packs of 10

### M3309-95 FACEBOW SCREW STOP KIT

Pack content:  
50 stop screws and 1 screw-driver





## FACE MASK

Used for treatment of maxillary insufficiencies, prognathism of the mandible and cleft palate. The reverse orthopaedic pull between maxilla and mandible facilitates the subsequent orthodontic treatment. Made of stainless steel wire and non toxic acrylic, it can be adapted to perform any individual size adjustment, either vertical or horizontal. All attachments are locked by set screws in metal housings. Face masks with zygomatic holds feature an adjustable strap band.

**Pack of:** 1 face mask, 1 screw wrench, instructions for use into a sleeve for patient



REPLACEMENT PARTS	Code	Description	Pack of
	M0777-00	Chin pad	Pack of 1
	M0778-00	Forehead pad	Pack of 1
	M0779-00	Zygomatic hold pad	Pack of 2



	BEIGE	RED	YELLOW	GREEN	
WITH HORIZONTAL ADJUSTMENT	M0774-00	M0774-00R	M0774-00G	M0774-00V	SMALL
	M0776-00	M0776-00R	M0776-00G	M0776-00V	LARGE
	M0773-00				MINI



	BEIGE	RED	YELLOW	GREEN
UNIVERSAL ADJUSTABLE	M0775-00	M0775-00R	M0775-00G	M0775-00V



	BEIGE	
WITH VERTICAL ADJUSTMENT	M0774-01	SMALL
	M0776-01	LARGE



	BEIGE
WITH ZYGOMATIC HOLDS	M0771-00



DYNAMIC FACE MASK	BLUE	RED
VERTICAL ADJUSTMENT	M0772-01	M0772-01R

**Pack of 1:**  
 - 1 face mask,  
 - 1 adjusting wrench,  
 - 2 forehead pads,  
 - 2 chin pads and instructions for use

### ELASTICS RECOMMENDED

		inner diameter	
		3/8" - 9,5 mm	1/2" - 12,7 mm
strong	8 oz - 224 g	K0935-08	K0936-08



**M0790-00**  
**HEADGEAR WITH CHIN CAP**

For correction of Class III malocclusions with prognathism of the mandible. Headgear and elastic tractions are fully adaptable; the chin cap in natural leather assures an ideal fit to any face. Colour: blue.  
**Pack of 1**

**REPLACEMENT PARTS**

**M0791-00** Chin pad  
Pack of 1

**M0791-01** Elastics  
Pack of 2



**HEADGEAR FOR SAFETY MODULES**

High pull. Use with safety release spring modules only. It fits onto safety hooks of spring modules. Made of hypoallergenic and washable material with comfortable padding. Available in 3 sizes and 2 colours to provide patient's psychological compliance.  
**Pack of 1**

blue	
small	<b>M0805-00</b>
medium	<b>M0805-10</b>
large	<b>M0805-20</b>

pink	
small	<b>M0805-00S</b>
medium	<b>M0805-10S</b>
large	<b>M0805-20S</b>



**NECK PAD FOR SAFETY MODULES**

Low pull. Same as headgear both for use with safety modules and materials. Available in 2 colours to provide patient's psychological compliance.  
**Pack of 10**

**M0800-00S** Pink

**M0800-00** Blue

**M3613-01**  
**SLEEVE FOR FACE MASK**

For patient personal face mask. Transparent coloured, washable, fully neutral coloured.  
**Pack of 10**



## SAFETY HEADGEAR SYSTEM

For use with the suitable headgear or neck pads only. Safety clasps disengage the spring strap when tension force exceeds 2 Kg each side. This system avoids dangerous slingshot rebound injuries of the facebow in case of disconnection from headgear tubes. Coil springs are incorporated into the modules to provide constant traction force. Available in three colour-coded attachment straps showing the force level.

**Pack of 10**

	color	
light	transparent	M0810-01
medium	yellow	M0810-02
heavy	blue	M0810-03



## safety release spring system

stainless steel springs

release permanent forces

of the force

notch numbered

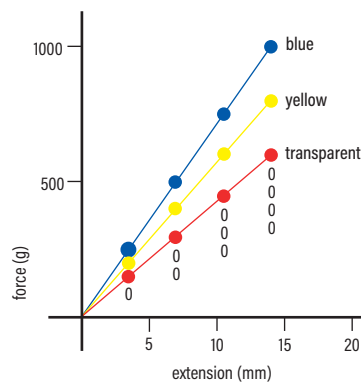
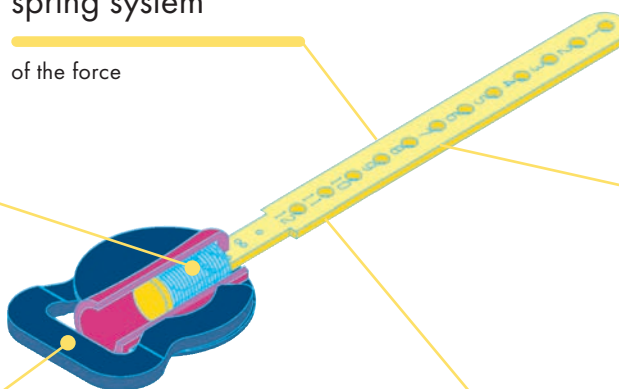
straps for therapeutical control

total safety for the patient

clasps disengage the spring strap when tension force exceeds 2 Kg each side

differently coloured straps

to indicate the different spring force of modules



Traction force released by each module can be easily controlled: when 2 notch tension appears on the plastic strap under traction, 2/4 (two fourths) out of the total deliverable force of the spring is going to be released. Above diagram shows the forces released by each type of module.

# TADs AND ORTHODONTIC MINI IMPLANTS





The mini implant series specially designed for the palatal anchorage of expanders

## TAD INTEGRAL

made of medical grade 5 titanium



sterile packaging

vial cap with Titanium support for TAD

## TAD

made of medical grade 5 titanium



sterile packaging

vial cap with Titanium support for TAD



self-drilling thread

ensures a simple surgical procedure and high primary stability.



NOT AVAILABLE IN US MARKET

### INFORMATION FOR DISTRIBUTORS OF ORTHODONTIC MINI IMPLANTS, "INTENDED USE", "RESPONSIBILITY", "SURVEILLANCE"

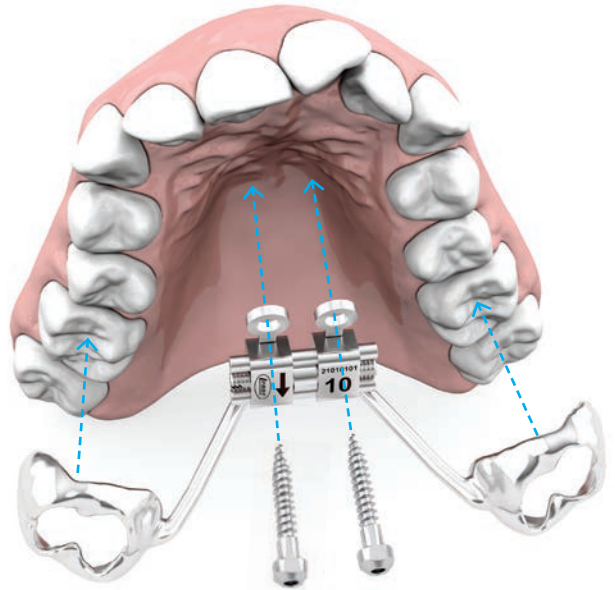
The 93/42EEC directive on medical devices is the official reference that dictates the regulations for marketing medical devices. The directive provides indications for all the phases of existence for the device (from the project phase through the traceability system, and surveillance), and it identifies all the characters who have to comply with the directive itself, which includes not only the manufactures, but also the distributors, the buyers, and even the users. As for the responsibilities of the single competence, Leone S.p.A. recommends to its direct clients, dental depots and exclusive dealers to follow and maintain the indications, warnings, and information for the univocal identification of the medical devices, as provided by the manufacturer on the labels, during all the marketing phases. With specific regard to Class IIb implantable products, all dental depots and exclusive dealers of Leone S.p.A. are required to keep records of the distribution of medical devices as of traceability available for verification, in case of need to trace back a product or its user in a univocal way.

## TAD INTEGRAL



### stopping head

thanks to the emerging portion, it is possible to insert both the appliance and the TADs during the same procedure



## TAD



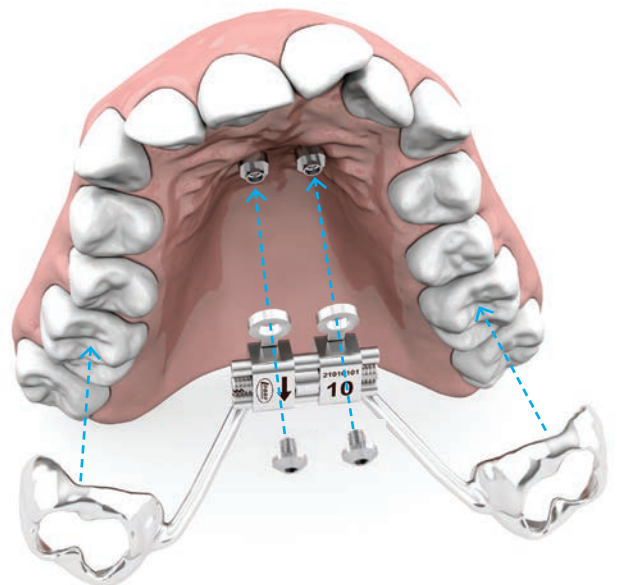
### inner thread

in the emerging portion of the TADs for the correct placing of the expander by means the fixing screw



### fixing screw

to ensure the correct anchorage of the expander



## TAD INTEGRAL FOR EXPANDER

Leone TAD integral is a mini implant specially designed for the palatal anchorage of expanders during a single phase procedure, when both the appliance and the TADs are applied during the same visit.


The self-drilling tip and the peculiar shape of the TAD thread ensures a simple, minimally invasive surgical procedure and high primary stability.

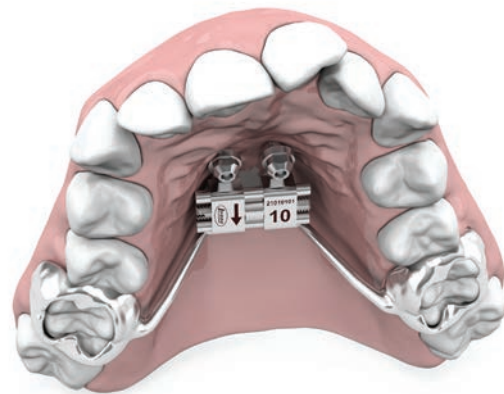
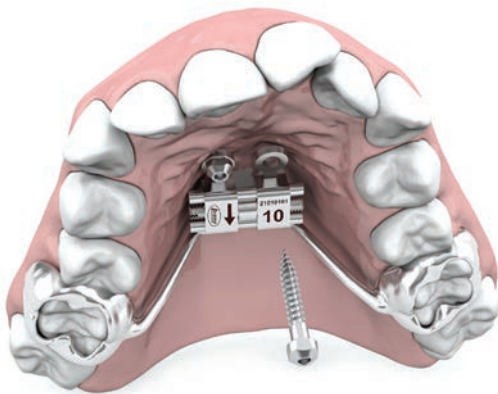
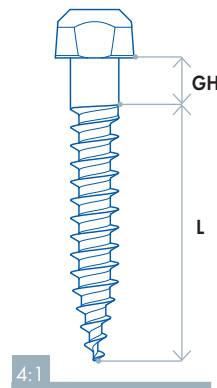
Made of Titanium grade 5, available in two lengths with  $\varnothing$  2 mm, TADs are supplied sterile and ready to be used with the dedicated handpiece adapter (REF 083-1005-01 and 083-1006-01) or with the manual driver (REF 083-1007-01).

**Pack of 1 or 2**



**new**

	$\varnothing$	L		pkg.
	mm	mm		
	2	8	004-2008-10	1
			004-2008-20	2
	2	10	004-2010-10	1
			004-2010-20	2



## TAD FOR EXPANDER

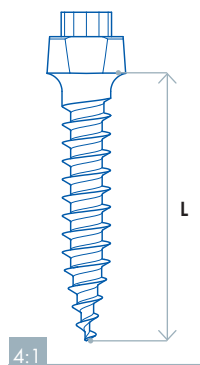


Leone TAD is a system specially designed for the palatal anchorage of palatal expander with a two-step procedure: the surgical procedure for the TADs application is followed by the impression taking, thanks to the impression accessories, that allows the lab realization and the application of the expander, both hybrid and totally Bone Borne. Made of Titanium grade 5, available in four length and with  $\varnothing$  2 mm thanks to the peculiar shape of the TAD thread ensures a simple, mini-invasive surgical procedure and high primary stability. The emerging portion has an inner thread that, when coupled with the fixing screw, ensures a perfect anchorage with the palatal expander. Once the TADs are positioned in the most appropriate anatomical region and, thanks to the accessories for the impression taking, both conventional and digital, it will be possible to prepare a model with TADs analogs to fabricate the maxillary expander, with high precision and accuracy. TADs are supplied sterile and ready to be used with the dedicated handpiece adapter (REF 083-1005-01 and 083-1006-01) or with the manual driver (REF 083-1007-01).

**Pack of 1 or 2**

**new**

$\varnothing$	L		pkg.
mm	mm		
2	7	003-2007-10	1
		003-2007-20	2
2	9	003-2009-10	1
		003-2009-20	2
2	11	003-2011-10	1
		003-2011-20	2
2	13	003-2013-10	1
		003-2013-20	2



**023-1702-20**

2:1

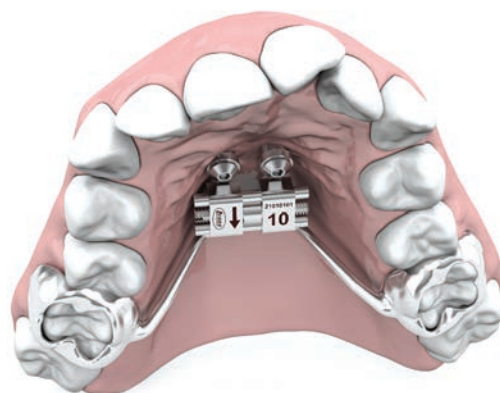
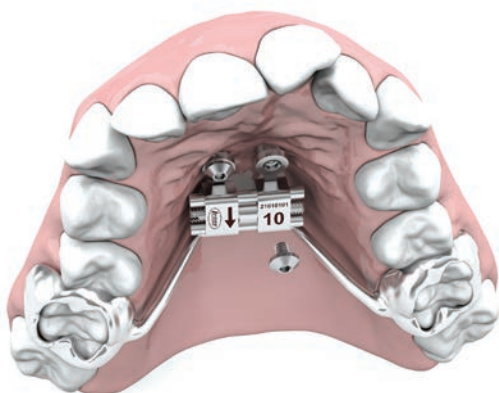
**FIXING SCREW**



**033-3203-10** 1 pc.  
**033-3203-20** 2 pcs.

2:1

**CYLINDER AND FIXING SCREW**







1:1

## 083-1005-01    083-1006-01 HANDPIECE ADAPTERS FOR TAD

### Both for TAD and TAD integral

Made of stainless steel.

Thanks to the centering system, the adapters allow the safe screwing and unscrewing the TADs with the con-trangled handpiece. Available in two lengths. Autoclavable.

**Pack of 1**



1:1

## DRILL EXTENSION

Made of stainless steel.

In case of need, allows to increase the length of the drill and of the handpiece adapters. (REF 156-1019-00 in the Catalogue of Leone Implant System). Autoclavable.

**Pack of 1**



1:1

## 083-1007-01 MANUAL DRIVER FOR TAD

### Both for TAD and TAD integral.

Made of stainless steel.

Thanks to the fan-type handle, allows to manually screw and unscrew the TADs. It can be also used by the lab for the analog positioning in the 3D-printed model. Autoclavable.

**Pack of 1**



2:1

## 043-0001-00 TRANSFER FOR TAD

Made of stainless steel, with a metallic threaded insert, thanks to the coupling with the inner thread of the emerging portion of the TAD, allows to determine accurately and with high precision the position of the TAD with a two material impression technique.

To be used with screwdrivers for fixing screw. Autoclavable.

**Pack of 2**



2:1

## 043-0000-35 SCAN BODY FOR TAD

Made of PEEK with a metallic insert, allows to obtain, with high precision and accuracy, the position of the TADs by means the intraoral optical impression or the scan of the dental cast.

To be used with the positioner for Scanbody REF 083-0004-00.

Autoclavable.

**Pack of 2**



1:1

## 083-0004-00 POSITIONER FOR SCAN BODY FOR TAD

Made of stainless steel, is used to screw and unscrew the Scanbody for TADs both on the TADs and on the analog for TAD. The top has a hole for the insertion of safety wire. Autoclavable.

**Pack of 1**



2:1

**053-0001-00**  
**ANALOG FOR TAD**

Made of stainless steel to reproduce the position of the TADs in the dental cast or to be inserted in a 3D-printed model created by a digital impression.

**Pack of 1**

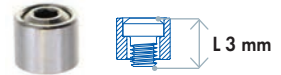


2:1

**023-1702-20**  
**FIXING SCREW**

The fixing screw, made of Titanium grade 5, ensures the correct anchorage of the expander on the TAD. To be used with screwdrivers for fixing screw.

**Pack of 2**



2:1

**033-3203-10** 1 pc.  
**033-3203-20** 2 pcs.  
**CYLINDER AND FIXING SCREW**

Cylinder in stainless steel with an embedded screw, dedicated for the welding of expander arms or sintered metallic framework. To be used with the screwdrivers for fixing screw.

**Pack of 1 or 2**

L 12,5 mm



L 20 mm



1:1

**083-0001-00**    **083-0002-00**  
**SCREWDRIVERS FOR FIXING SCREW**

Made of stainless steel, are used to screw and unscrew the fixing screws and the transfer for TAD.

Available in two length. Autoclavable.

**Pack content:**

- 1 screw adapter
- 1 hand screwdriver



1:1

**083-0003-00**  
**SCREWDRIVER FOR HANDPIECE FOR FIXING SCREW**

Made of stainless steel, it is used to screw and unscrew the fixing screw and the transfer for TAD with the handpiece.

Use a max torque of 20 Ncm.

**Pack content:**

- 1 short screw adapter
- 1 handpiece adapter

## 070-8000-01

### SURGICAL AND PROSTHETIC KIT FOR TAD

Made of PPSU plastic material, has been designed to sterilize and keep organized on the surgical field only the instruments necessary for the insertion of TADs and their prosthetics.

The cover when opened tilts the position of the kit and allows an easy access to instruments.

The kit is made up of 7 instruments (it can be filled up to 12):

- screwdriver for fixing screw short
- screwdriver for fixing screw long
- screwdriver for handpiece for fixing screw
- positioner for scan body for TAD
- manual driver for TAD
- handpieces adapter for TAD, short
- handpieces adapter for TAD, long

Entirely autoclavable.



## 070-0000-00

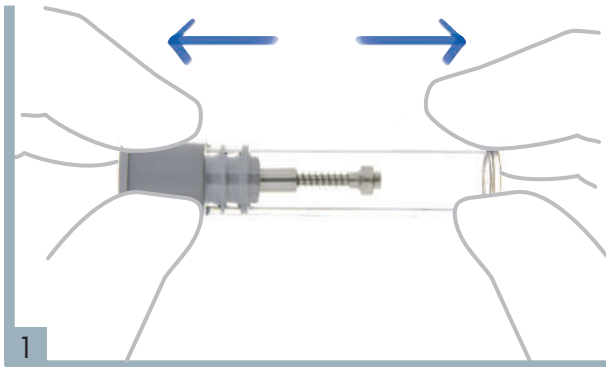
### EMPTY KIT



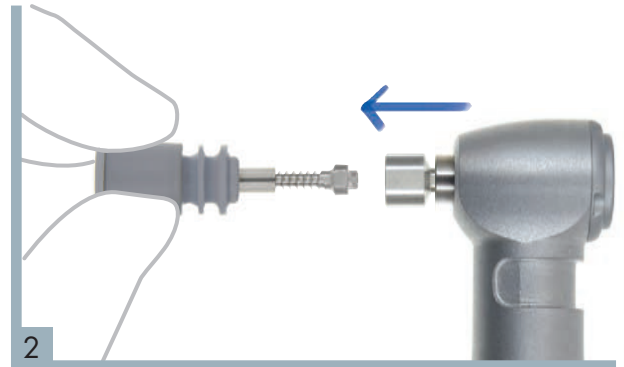
## SURGICAL PROCEDURE

The design of the orthodontic appliance with bone anchorage, requires an accurate planning of the therapy by the clinician, who using his judgment, opinion and preparation, case by case, will consider also all the factors that might arise from pre-surgical exams as: anamnesis, objective exams, radiological, instrumental and laboratory investigations.

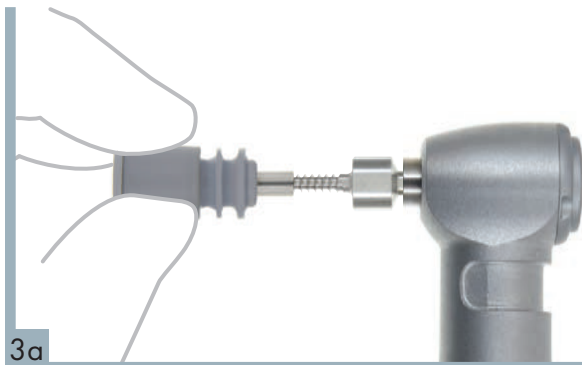
Once the surgical site and the more appropriate TADs have been determined, anesthetize the anatomical site. TADs are self-drilling, however in case of high bone density or thickness, it is suggested to drill the cortical bone with the drill for mini implants Ø 1.5 mm (REF 090-1534-00) to insert the TAD more easily.



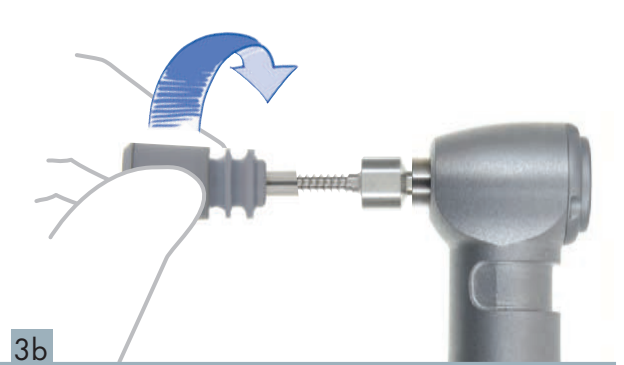
1 Exert a gentle traction on the vial cap, remove the TAD from the sterile vial.



2 Connect the dedicated handpiece adapter to the TAD head.

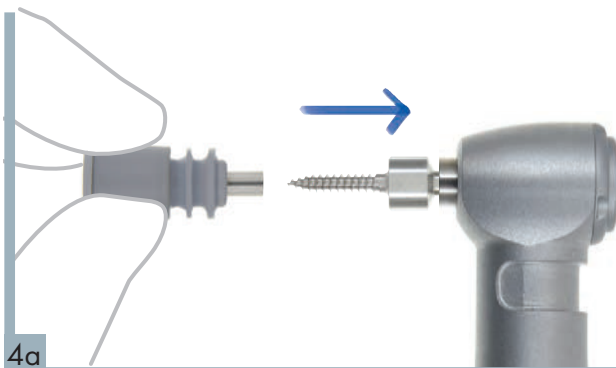


3a

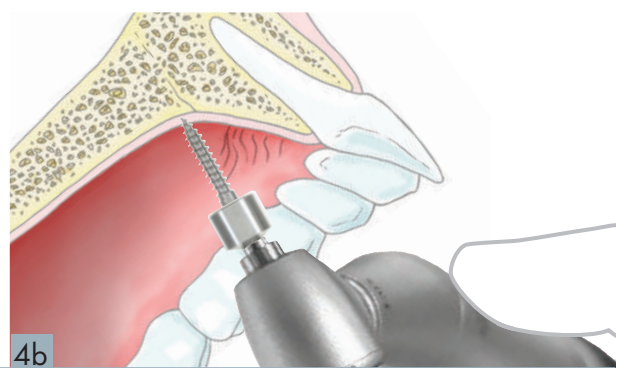


3b

Once positioned into the adapter, remove the implant cap with a gentle counter clockwise rotary movement.



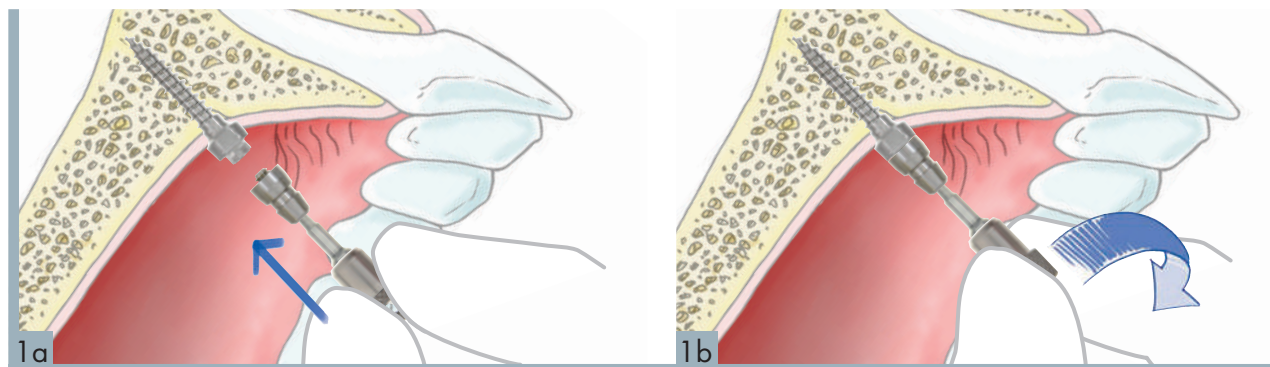
4a



4b

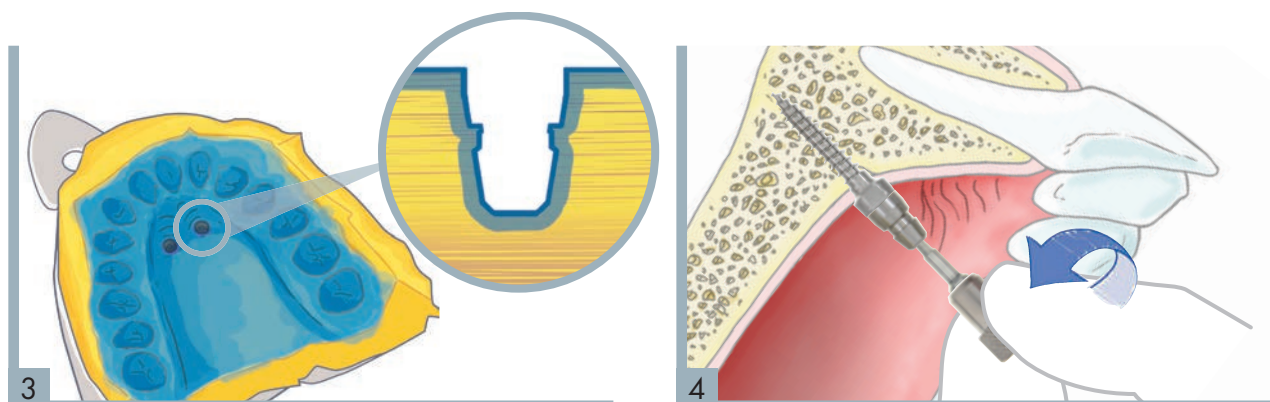
Set a maximum speed of 30 rpm and a maximum torque of 30 Ncm, start drilling the TAD in the palatal vault.

## CONVENTIONAL IMPRESSION TAKING



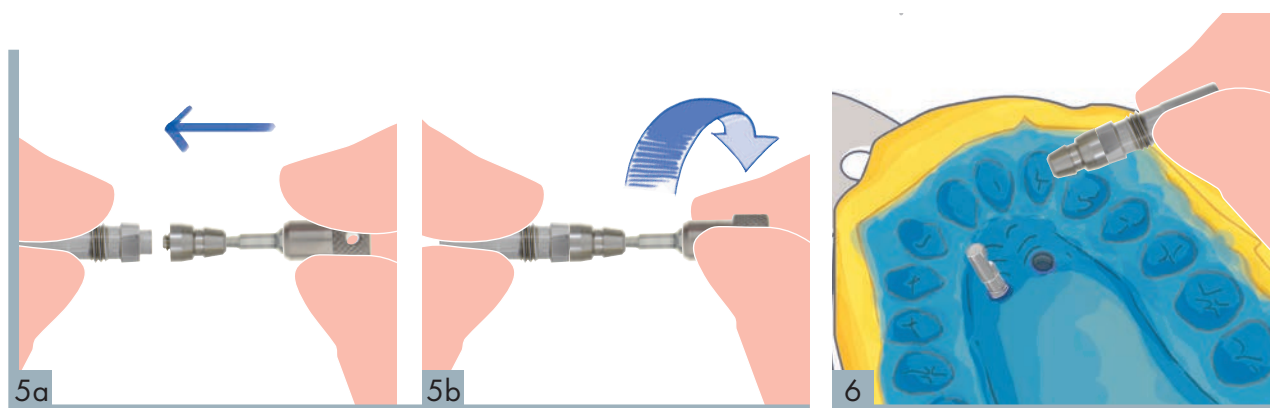
Screw the transfer in the emerging portion of the TAD using the dedicated screwdriver for fixing screw.

2 Take an impression with elastomeric material.



After the removal of the impression, the transfer remains on the TAD, while the negative reproduction of their shape is created in the impression material.

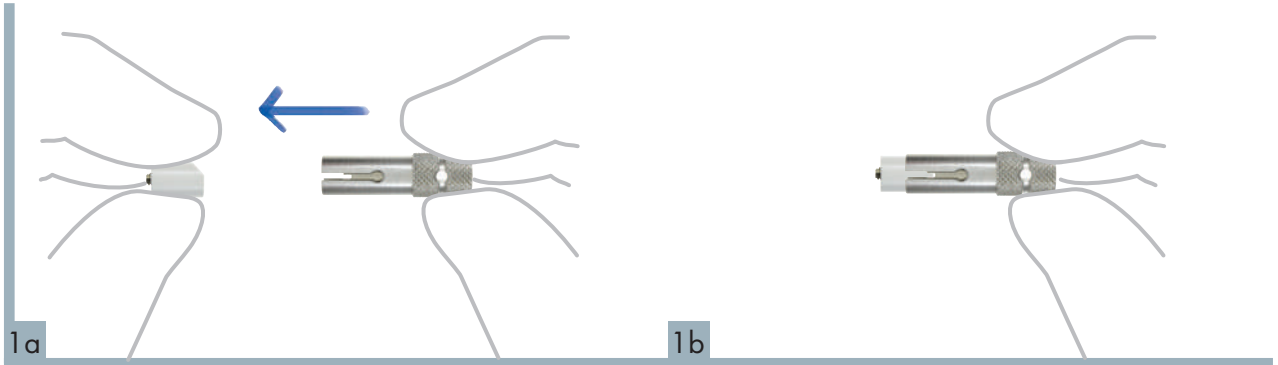
Unscrew the transfer using the screwdriver for fixing screw.



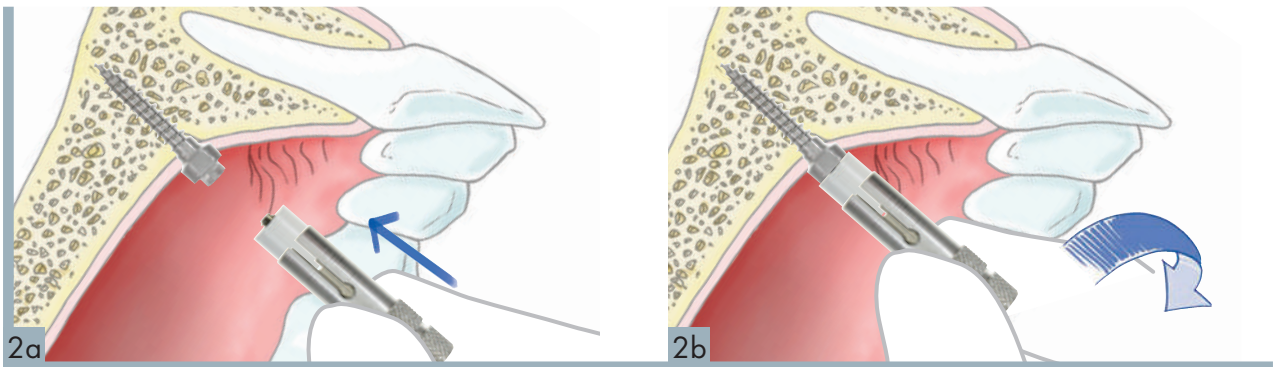
Screw the transfer on the analog.

Replace the assembly analog+transfer into its seating in the impression. The specific shape of the transfer allows to easily perceive when a correct insertion is achieved.  
Realize a dental cast where the analogs are embedded.

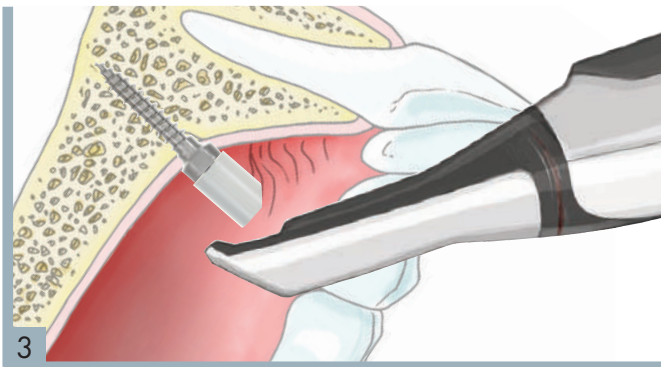
## DIGITAL IMPRESSION TAKING



Insert the Scanbody in the dedicated positioner for Scanbody, ensuring the achievement of the perfect coupling.



Screw the Scanbody for TAD on the emerging portion of the TAD.



Take a digital impression to create a digital model.

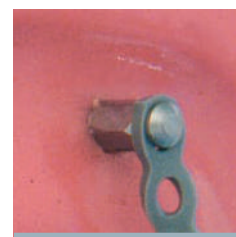


## SELF-DRILLING

The special design of the devices makes the insertion possible without the need of any pre drilling to prepare the implant site. The endosseous portion of the self-drilling mini implant features one apical portion (2 mm long) drill shaped in order to punch the bone and one threaded portion (1,75 mm in diameter and 6 mm long) with self-tapping coil for anchorage to the bone.

### no osseointegration

made of surgical stainless steel,  
easy removable



### groove

for easy application of elastics  
and elastic chains



closed dual slot

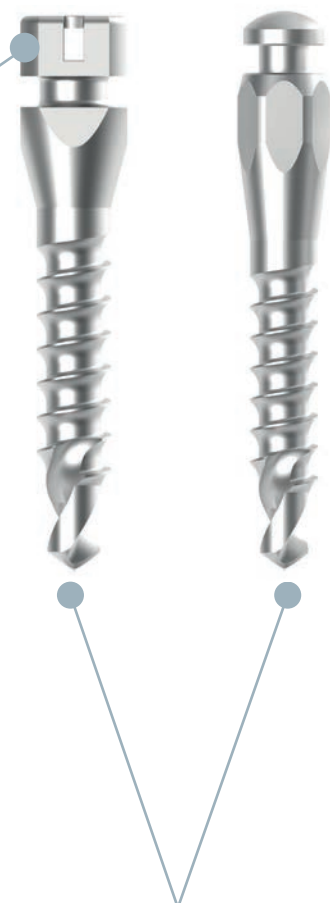
low head high head



sterile package\*  
with implant carrier  
and vial cap

colour coded

\*Available only NON-sterile for the US market



### self-drilling tip

drill shaped

#### INFORMATION FOR DISTRIBUTORS OF ORTHODONTIC MINI IMPLANTS, "INTENDED USE", "RESPONSIBILITY", "SURVEILLANCE"

The 93/42EEC directive on medical devices is the official reference that dictates the regulations for marketing medical devices. The directive provides indications for all the phases of existence for the device (from the project phase through the traceability system, and surveillance), and it identifies all the characters who have to comply with the directive itself, which includes not only the manufacturers, but also the distributors, the buyers, and even the users. As for the responsibilities of the single competence, Leone S.p.A. recommends to its direct clients, dental depots and exclusive dealers to follow and maintain the indications, warnings, and information for the univocal identification of the medical devices, as provided by the manufacturer on the labels, during all the marketing phases. With specific regard to Class IIb implantable products, all dental depots and exclusive dealers of Leone S.p.A. are required to keep records of the distribution of medical devices as of traceability available for verification, in case of need to trace back a product or its user in a univocal way.



## SELF-DRILLING ORTHODONTIC MINI IMPLANTS\* WITH CLOSED DUAL SLOT

The head of the mini implant is available in two transmucosal heights and has a **closed dual slot** for the application of wire and/or spring segments. The **closed dual slot** section is .018"x.025" and can accommodate round or rectangular wires. A minimal invasive surgical procedure is needed: in one phase, transmucosal with very good primary stability for immediate application of the orthodontic traction.

Mini implants are supplied sterile, ready to be used with the proper adapter for handpiece or with the screwdriver for hand insertion.

**Pack of 1**



	∅	L	
	mm	mm	
		8	<b>002-1708-03</b>
	1,75		
		8	<b>002-1708-04</b>

*\*Available only NON-sterile for the US market*

closed  
dual slot



### 080-1002-01 HANDPIECE ADAPTER FOR MINI IMPLANTS WITH CLOSED DUAL SLOT

For use with the handpiece for the insertion of self-drilling mini implants with closed dual slot also in difficult access areas.



### 080-1000-02

### SCREWDRIVER FOR MINI IMPLANTS WITH CLOSED DUAL SLOT

### 080-1000-23

Refill tip



*Courtesy of Drs. Nazario Russo and Giacomo Coppola*



# self-drilling orthodontic mini implants







## SELF-DRILLING ORTHODONTIC MINI IMPLANTS\*

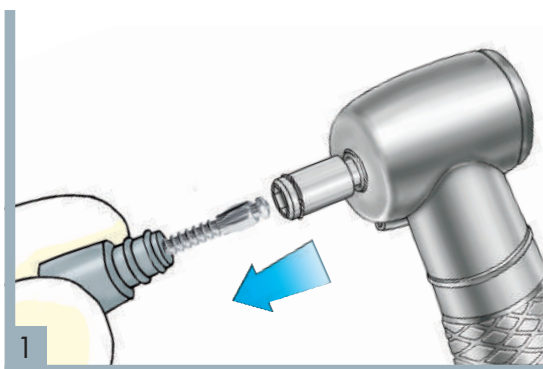
The head of the self-drilling mini implant is available in two transmucosal heights, it is mushroom shaped to facilitate the application of elastic ligatures and coil springs. One stage, transmucosal and minimal invasive surgical technique is needed, with optimal primary stability for the immediate load of the orthodontic appliance. Self-drilling mini implants are supplied sterile, ready to be used with the special handpiece adapter. The use of a surgical micromotor is recommended. In case of use of a contra-angle utilized in the dental office, a complete implant insertion might not be obtained: the use of the Leone hand instruments, such as the ratchet REF 156-1014-00 or the fan-type hand wrench REF 156-1015-00 (page 186), may be necessary.

**Pack of 1**

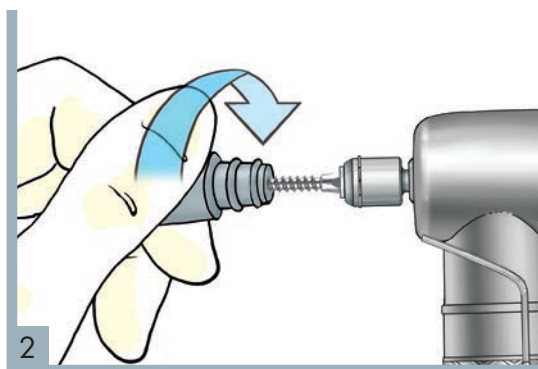
## SELF-DRILLING ORTHODONTIC MINI IMPLANTS

		∅	L	
		mm	mm	
			8	<b>002-1708-01</b>
		1,75		
			8	<b>002-1708-02</b>

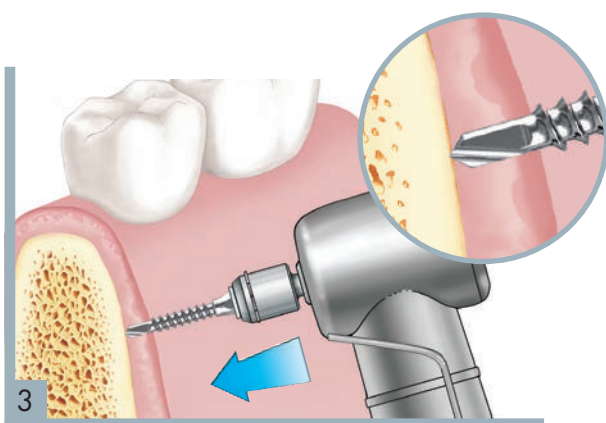
\*Available only NON-sterile for the US market



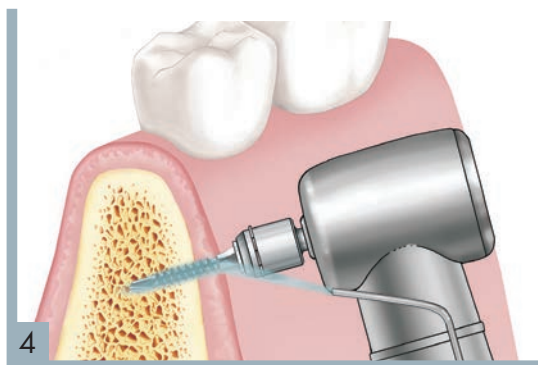
1 Remove the mini implant from the sterile vial by exerting a gentle traction on the implant cap and connect the handpiece adapter REF 080-1002-00 or 080-1002-01 to the head of the mini implant.




2 Once positioned into the adapter, remove the implant cap with a gentle counter clockwise rotary movement.

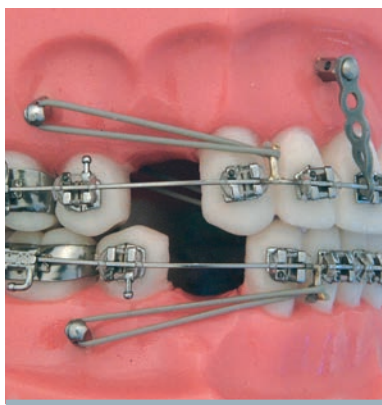


3 Lean the drilling tip of the mini implant on the attached mucosa in the selected area. Exert a pressure gentle enough to punch the soft tissues till the cortical bone has been reached.



4 Set the maximum speed on micromotor to 300 rpm and torque value to 40 Ncm. Start drilling the mini implant while irrigating abundantly with water. Immediately after having reached the cortical bone and as soon as the presence of a softer bone tissue has been detected, reduce the micromotor maximum speed to 50 rpm. Complete the insertion under these parameters.

 The pictures and information described in this page have informative purpose only and they are not intended to furnish any therapeutic advice for the dental surgeon, the dentist, the dental technician or the patient. Leone Spa expressly disclaims any liability neither will furnish any warranty regarding the exactness or the conformance of the information furnished in these pages.



## SELF-TAPPING ORTHODONTIC MINI IMPLANTS

Made of stainless steel for surgical use and easily removable once the orthodontic movement has been achieved. They are available either with low or high head, in two types: one with a passing hole on the head and another with a groove and the protruding portion like an orthodontic button to facilitate the application of chains, elastics or springs. A clinical procedures leaflet for the positioning of the Orthodontic Mini Implants may be downloaded from our web site [www.leone.it](http://www.leone.it).

**Pack of 1**

## SELF-TAPPING ORTHODONTIC MINI IMPLANTS

		∅	L	
		mm	mm	
	<b>high head</b>	1,5	8	<a href="#">000-1508-02</a>
			10	<a href="#">000-1510-02</a>
			12	<a href="#">000-1512-02</a>
	<b>high head</b>	2	8	<a href="#">000-2008-02</a>
			10	<a href="#">000-2010-02</a>
			12	<a href="#">000-2012-02</a>
	<b>low head</b>	1,5	8	<a href="#">000-1508-01</a>
			10	<a href="#">000-1510-01</a>
			12	<a href="#">000-1512-01</a>
	<b>low head</b>	2	8	<a href="#">000-2008-01</a>
			10	<a href="#">000-2010-01</a>
			12	<a href="#">000-2012-01</a>

## ORTHODONTIC MINI IMPLANTS WITH GROOVE

		∅	L	
		mm	mm	
	<b>high head</b>	2	6	<a href="#">001-2006-02</a>
			8	<a href="#">001-2008-02</a>
			10	<a href="#">001-2010-02</a>
			12	<a href="#">001-2012-02</a>
	<b>low head</b>	2	6	<a href="#">001-2006-01</a>
			8	<a href="#">001-2008-01</a>
			10	<a href="#">001-2010-01</a>
			12	<a href="#">001-2012-01</a>



## 001-0001-24 SELF-TAPPING MINI IMPLANT KIT

**Pack content:** 24 mini implants, 2 pieces each length and diameter available with low and high head, 4 drills, 1 screwdriver.

## 001-0002-24 SELF-TAPPING MINI IMPLANT WITH GROOVE KIT

**Pack content:** 24 mini implants with groove, 3 pieces each length available with low and high head, 2 drills, 1 screwdriver, 1 adapter Cat. 080-1003-00, 1 circular punch, 1 adapter Cat. 080-1002-00.

## DRILLS FOR SELF-TAPPING MINI IMPLANTS

	L		
	∅	mm	
	1,1	12	<a href="#">090-1134-00</a>
	1,3		<a href="#">090-1334-00</a>
	1,5		<a href="#">090-1534-00</a>
	1,7		<a href="#">090-1734-00</a>

## 080-1000-01 SCREWDRIVER FOR SELF-TAPPING MINI IMPLANTS

**080-1000-22** Refill tip





**080-1001-00**  
**MUCOTOME FOR**  
**ORTHODONTIC MINI IMPIANTS**

Circular scalpel to be attached to the handle of the screwdriver Leone Cat. 080-1000-01 for mini implants. With a diameter slightly larger than the head of the mini implants, the scalpel allows to prepare a suitable hole, without the need of any suture afterwards.



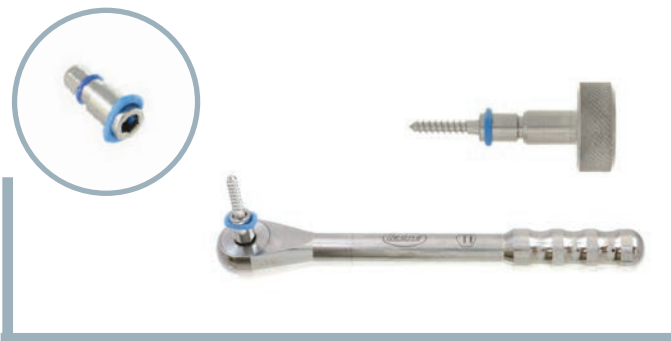
**080-1001-01**  
**CIRCULAR SCALPEL**  
**FOR HANDPIECE**

Designed for the insertion of orthodontic mini implants. Made of titanium surgical grade. It is used with low speed contra-angle allowing the creation of a suitable hole in the attached mucosa. Diameter 2,2 mm



**080-1002-00**  
**HANDPIECE**  
**ADAPTER**

For use with the contra-angle for the insertion of mini implants also in difficult access areas.



**080-1003-00**  
**ADAPTER FOR SCREWDRIVER AND INSTRUMENTS**

For use with screwdrivers REF 156-1001-00, REF 156-1001-01 and ratchet REF 156-1014-00 of the Leone Implant System in the application of mini implants in posterior or difficult access areas.



**FAN-TYPE HAND WRENCH**

Made of stainless steel and anodized aluminium. With hexagonal hole matching the mini implant's head. Sidewise it presents a hole for the insertion of a safety leash. It is necessary to complete the insertion of the mini implant into the implant site. Supplied non-sterile, sterilize under autoclave prior to initial use (REF 156-1015-00 in the Catalogue of Leone Implant System).

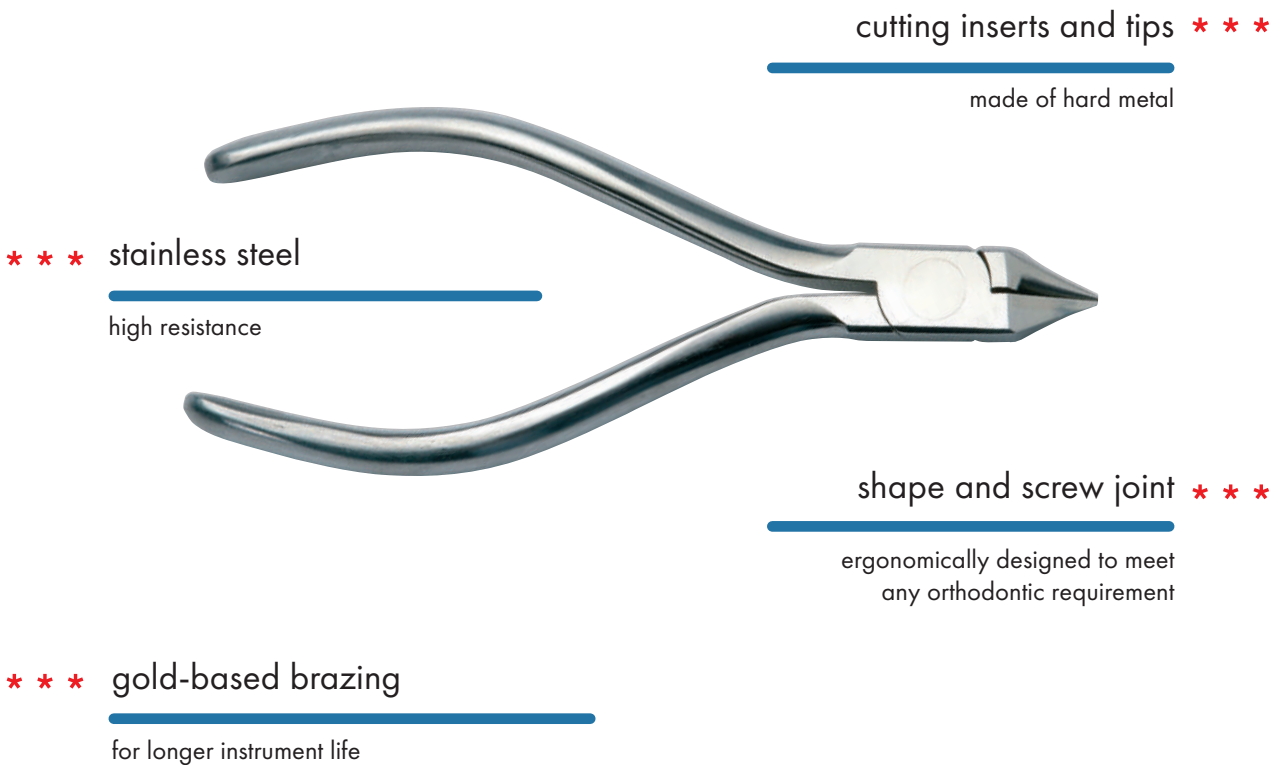
# PLIERS AND INSTRUMENTS



Leone offers a wide selection of pliers and orthodontic instruments, some of which are marked with the red symbol \*\*\* to underline their quality.

These instruments are made of stainless steel of a superior strength and guaranteed against any kind of sterilization processes. Hard metal cutting inserts and tips are gold brazed to the pliers body to afford longer instrument life.

Shape and screw joints are ergonomically designed to meet any orthodontic requirement.





**P1900-00** \* \* \*  
**BIRD BEAK PLIERS**  
**ANGLE STYLE**

Necessary for working round wires up to .032" (0,80 mm) in diameter. The beaks are .040" at the tip. A 9° angle is ground on the sides of pyramid beak to allow for wire springback. Beaks are parallel at .020" (0,51 mm) pliers opening.



**P1901-00** \* \* \*  
**LOOP FORMING PLIERS**  
**TWEED STYLE**

A pliers designed to make loops in round or rectangular wires up to .022"x.028" (0,56x0,71 mm). The cylindrical beaks has two sections: .043" (1,09 mm) and .063" 1,60 mm).

**P1450-00**  
**REPLACEMENT TIPS FOR P1901-00**



**P1902-00** \* \* \*  
**LOOP FORMING PLIERS**  
**TWEED STYLE**

A pliers designed to make in wires up to .022" (0,56 mm).



**P1352-00**  
**FLAT-TAPERED PLIERS**  
**TWEED STYLE**

With tapered beaks to form small sized loops and springs.



**P1903-00**  
**YOUNG STYLE**  
**PLIERS**

For wires up to .040" (1,02 mm).



**P1156-00** \* \* \*  
**OPTICAL PLIERS**  
**MERRIFIELD STYLE**

Cone and concave beak pliers in stainless steel with tungsten carbide inserts designed to make loops, omega-loops and distal stops in round and rectangular wires. Approved by the C.H. Tweed International Foundation.

# loop forming pliers



**P1904-00**  
**LIGHT WIRE**  
**PLIERS**

\* \* \*

Longer and more tapered beaks than Angle pliers. Excellent for bending small diameter loops. For wires up to .018" (0,46 mm).



**P1130-00**  
**HOLLOW-CHOP**  
**PLIERS**



For contouring archwires and forming cuspid offsets.



**P1073-00**  
**LOOP CLOSING PLIERS**  
**NANCE STYLE**

With 4 sectioned tip for forming various size loops in rectangular and round wires.

For wires up to .028" (0,71 mm).



**P1154-00**  
**MEDIUM WIRE PLIERS**  
**OPTICAL STYLE**



For wires up to .028" (0,71 mm).



**P1155-00**  
**MEDIUM WIRE PLIERS**  
**OPTICAL STYLE**



For forming loops in hard clasp wires or labial arch wires up to .032" (0,8 mm).



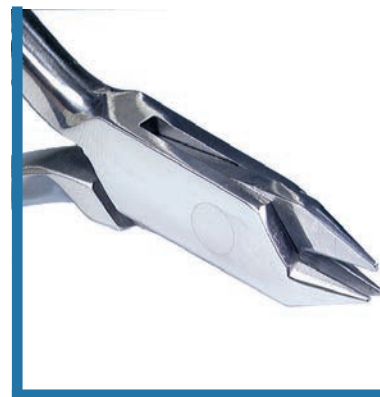
**P1905-00** \* \* \*  
**RECTANGULAR ARCH PLIERS**  
**TWEED STYLE SHORT JAW**

For use with square or rectangular wires. The blades are designed to be parallel at .020" (0,51 mm) pliers opening. Working edges are carefully bevelled with a diamond hone to prevent wire scoring.



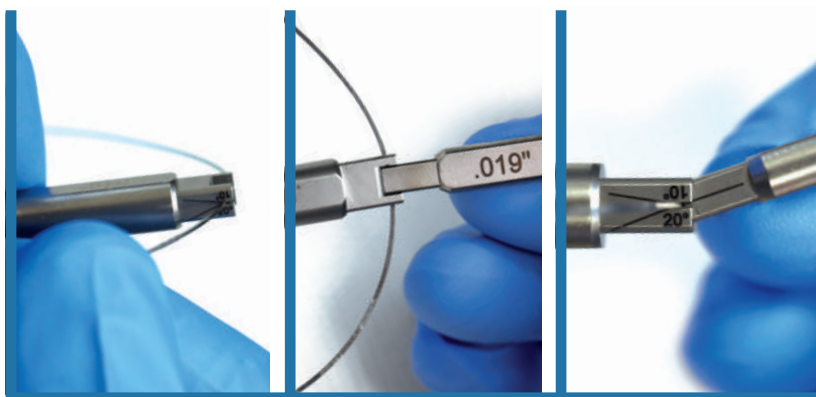
**P1906-00** \* \* \*  
**THREE JAW PLIERS**  
**ADERER STYLE MEDIUM**

For wires up to .036" (0,91 mm).



**P1075-01** \* \* \*  
**THREE JAW PLIERS**  
**ADERER STYLE THIN**

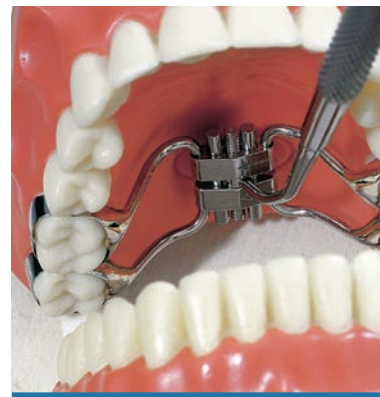
For round wires up to .020" (0,51 mm) and rectangular up to .021"x.025" (0,53x0,64 mm).



**P1635-00**  
**TORQUING INSTRUMENT**  
**FOR WIRE .019"x.025" AND .021"x.025"/.027"**

A device consisting of two components to easily apply torque to a portion of arch wire in proximity of a specific bracket. The instrument with the U end is used to mark out and maintain the selected portion of the arch wire. The additional instrument is used to firmly keep the rectangular wire and to apply the desired torque degrees. Thanks to the presence of a laser marked protractor, it is possible to check the degrees of torque given.

One instrument end is for arch wires .019"x.025", the other for .021"x.025"/.027"



**P1621-00**  
**INSTRUMENT**  
**FOR ENDORAL ACTIVATION**

Indicated for multifunctional orthodontic screws.





**P1907-00** \* \* \*  
**HOW STYLE PLIERS STRAIGHT**

The 3/32" (2,4 mm) gripping pads are serrated and shaped so that their centre line coincides with the axis of rotation of the pliers. Beaks are rounded to be completely lip safe.



**P1908-00** \* \* \*  
**HOW STYLE PLIERS STRAIGHT**

Exactly the same as P1097-00. With 1/8" (3,2 mm) gripping pads.



**P1909-00** \* \* \*  
**HOW STYLE PLIERS OFFSET**

Exactly the same as P1908-00 with tips incorporating a 45° offset angle.



**P1910-00** \* \* \*  
**WEINGART STYLE PLIERS**

Classical design, the tips are carefully rounded to make this pliers completely mouth safe. Useful for removal of ceramics.



**P1912-00** \* \* \*  
**ARCH FORMING AND CONTOURING PLIERS**

With three grooves, for wires .016", .018" and .022".



**P1913-00** \* \* \*  
**ARCH FORMING PLIERS**

Without grooves.



**P1916-00**  
DISTAL END CUTTER WITH SAFETY HOLD

\*\*\*

The particular design of this cutter allows distal end archwires be cut in the patient mouth safely. It cuts the wire and then safely holds the loose distal end.

- Caution:** maximum cutting capacity:
- rectangular wire up to .022"x.028" (0,56x0,71 mm);
  - round wire up to .020" (0,51 mm);
  - twist wire up to .016" (0,41 mm).



**P1915-00**  
DISTAL END CUTTER WITH SAFETY HOLD

\*\*\*

The small dimensions do not interfere with quality. It cuts archwires and safely holds the loose distal end.

- Caution:** maximum cutting capacity:
- rectangular wire up to .022"x.028" (0,56x0,71 mm);
  - round wire up to .020" (0,51 mm);
  - twist wire up to .016" (0,41 mm).



**P1914-00**  
MICRO DISTAL END CUTTER WITH SAFETY HOLD  
LONG HANDLES

\*\*\*

The retracted position of 10° angled hand grip affords a wider view in the oral cavity.

- Caution:** maximum cutting capacity:
- rectangular wire up to .022"x.028" (0,56x0,71 mm);
  - round wire up to .020" (0,51 mm);
  - twist wire up to .016" (0,41 mm).



**P1911-00**  
STOP AND SURGICAL HOOK CRIMPING  
PLIERS

\*\*\*

A pliers designed to crimp surgical hooks in the archwire. It can also be used to fix round or rectangular stops.



**P1917-00**  
**HARD WIRE CUTTER**

\* \* \*

For cutting orthodontic wires for fixed technique any size.

**Caution:** maximum cutting capacity:

- rectangular wire up to .022"x.028" (0,56x0,71 mm);
- round wire up to .020" (0,51 mm).



**P1918-00**  
**45° OFFSET LIGATURE CUTTER**

\* \* \*

45° offset for easy access to posterior areas thus eliminating any cheek impingement.

**Caution:** maximum cutting capacity:

- ligature wire up to .014" (0,36 mm).



**P1919-00**  
**MINIATURE LIGATURE CUTTER**

\* \* \*

For soft wires.

**Caution:** maximum cutting capacity:

- ligature wire up to .014" (0,36 mm).



**P1099-00**  
**HEAVY DUTY CUTTER**

For hard wires up to 1,5 mm.



**P1920-00**  
D.B. BRACKET  
REMOVING PLIERS

\*\*\*

It guarantees comfort of the patient. The sharp beaks fit under bracket flange and remove it with ease.



**P1921-00**  
D.B. BRACKET  
REMOVING PLIERS

\*\*\*

Designed to remove bonded brackets easily. The sharp beak fits under bracket flange and removes it with ease. It will also remove adhesive from the tooth.

**P1451-00**  
METAL TIP FOR P1921-00

**P1452-00**  
VINYL TUBE - 15 CM FOR P1921-00



**P1922-00**  
POSTERIOR BAND  
REMOVING PLIERS LONG

\*\*\*

Necessary for removal of posterior bands. A plastic padded tip and a sharp removing beak allow, with a slight pressure, high precision band removal.



**P1923-00**  
POSTERIOR BAND  
REMOVING PLIERS SHORT

\*\*\*

Same design and function as P1922-00 but with a short beak for a better occlusal support.



**P1403-00**  
WRENCH  
FOR CLASSIX PLIERS

For pliers joint.

**P1453-00**  
REPLACEMENT PAD 3/16" (4,8 mm)  
FOR P1922-00 - P1923-00



**P1530-00**  
**LABORATORY PLIERS**  
**ADAMS STYLE**

\*\*\*

Large tips with tungsten carbide inserts. Necessary for bending wires in the laboratory. A round cone tip of 1,3 mm and a pyramid beak of 1,4 mm. For wires up to 1,5 mm. Excellent for Crozat technique.



**P1034-00**  
**THREE JAW PLIERS ROUND**

\*\*\*

Very sturdy, does not score wires. Suitable for bending the arms of expanders. For wires up to 1,5 mm.

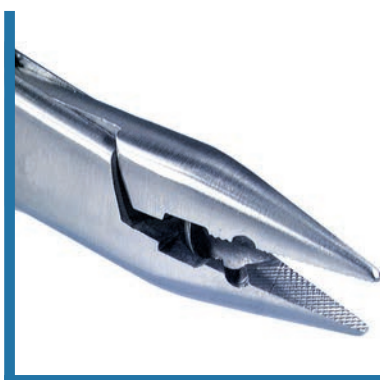
**P1034-93**  
**THREE JAW PLIERS ROUND**  
**WITH P1620-02**

\*\*\*



**P1099-00**  
**HEAVY DUTY CUTTER**

For hard wires up to 1,5 mm



**P1162-00**  
**UNIVERSAL PLIERS**

Extremely tapered design. For wires up to 0,9 mm.



**P1163-00**  
**UNIVERSAL PLIERS**

Classic design. For wires up to 0,9 mm.



**P1097-00**  
**ADAMS CLASP**  
**FORMING PLIERS NANCE STYLE**

For forming Adams clasps and small stops in the archwires. For wires up to 0,7 mm.



balanced  
articulated joint

smooth and precise movement

special steel

superior hardness perfect wire hold  
resistance to corrosion

ergonomic handles

smooth edges for easy guidance

tungsten carbide  
cutting inserts

diamond honed for precise wire cutting  
and long-lasting results

hard chrome finish

for high resistance during sterilization

A range of 10 instruments has been selected to meet any orthodontic basic requirement.

**Classix** pliers and cutters are manufactured with a special and superior hard steel to afford an optimal wire hold and resistance to corrosion of tips.

All **Classix** instruments feature a special inner balanced joint allowing a smooth and precise, long lasting movement.

**Classix** cutters' cutting edges have tungsten carbide inserts, diamond honed for precise cutting of wires and pliers' long lifetime.

All cutters are entirely hard chrome finished for high resistance during sterilization.

Classix instruments feature ergonomic handles and smooth rounded surfaces to allow the orthodontist for easy handling and best operational precision.



**P2101-00**  
**BIRD BEAK PLIERS ANGLE STYLE**

Necessary for working round wires up to .045" (1,14 mm). Beaks are only .025" (0,64 mm) at the tip to bend loops and omega loops, even small ones. A 10° angle is ground on the sides of the rectangular beak to compensate for wire spring-back in the modelling stage. Beaks are parallel at .020" (0,51 mm) pliers opening and diamond honed to prevent wire scoring.



**P2102-00**  
**OMEGA LOOP FORMING PLIERS TWEED STYLE**

Concave beak is contoured for making more uniform omega loops with ease. The round beak has three sections: .045" (1,14 mm), .060" (1,52 mm), .075" (1,90 mm) and made of a hard electro etched alloy to prevent wire slippage. Tip can be easily replaced with the use of the allen wrench.

**P2000-01** REPLACEMENT TIPS FOR P2102-00  
Pack of 2 tips and 1 wrench



**P2103-00**  
**THREE-JAW PLIERS**

The central beak is precision aligned and when the pliers is closed, it fits over the level of the two lateral beaks to form bends more acute than 90°. The tips are slightly tapered and diamond honed to prevent wire scoring. For round wires up to .036" (0,9 mm). It allows the activation of quad helix, palatal bars etc. in the oral cavity as well.



**P2104-00**  
**UTILITY PLIERS WEINGART STYLE**

The tips are shaped to firmly hold wires and devices and perfectly angled to enhance the visibility of the operative field. The two beaks are diamond honed to make it lip safe.



**P2105-00**  
**BAND REMOVING PLIERS**

When the pliers is closed, the non-padded remover tip does not get in contact with the acetalic resin pad: this allows it to make lever on the tube or the accessory, or on the edge of the band facilitating the safe removal from the mouth.

**P2000-02** REPLACEMENT PAD 3/16" (4,8 MM) FOR P2105-00



**P2106-00**  
**D.B. BRACKET REMOVING PLIERS**

The tapered tips wedge between both edges of the base of the bracket and the tooth surface: by slightly lifting off, the bracket is easily removed without any damage to the enamel. Useful also for removal of ceramic brackets.



**P2107-00**  
**RECTANGULAR ARCH FORMING PLIERS TWEED STYLE**

For handling square or rectangular wires, torquing and forming precision bends. The beaks are designed to be parallel at .020" (0,51 mm) pliers opening and diamond honed to prevent wire scoring.



**P2108-00**  
**DISTAL END CUTTER WITH SAFETY HOLD**

Designed for cutting the excess of distal wire and holding the loose archwire safely. The special design and the accurate sharpening of the cutting edges make it to be functional with either thin or coaxial wires.

**Caution:** maximum cutting capacity: round wires .020" (0,51mm)  
rectangular wires .022"x.028" (0,56x0,71 mm).



**P2109-00**  
**HARD WIRE CUTTER**

The hard construction and the quality of sharpening of the cutting edges allow for use with any section of wire for fixed orthodontics. At maximal closure, the sharpening ends only touch at the tip to ensure precise action with any archwire section.

**Caution:** maximum cutting capacity: round wires .020" (0,51mm)  
rectangular wires .022"x.028" (0,56x0,71 mm).

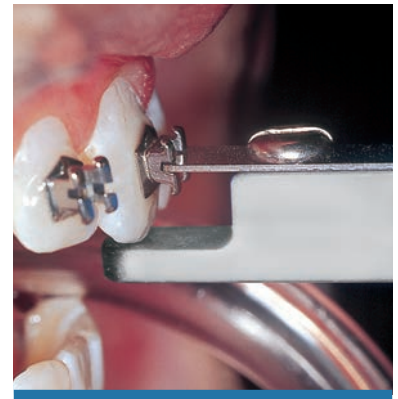


**P2110-00**  
**LIGATURE CUTTER**

The tips are 15° angled for better field vision near the bracket's tie wings. The cutting inserts have wide backing ledges to guarantee the maximum anchorage to the body of the instrument.

**Caution:** maximum cutting capacity: round wires .015" (0,38 mm)





## UNIVERSAL BRACKET POSITIONING GAUGES

Made of aluminium and stainless steel. Autoclavable.  
Used with either .018" or .022" slot brackets.  
Colour coded for immediate identification.

colour		size
green	<b>P1601-00</b>	2 - 2,5 mm
red	<b>P1602-00</b>	3 - 3,5 mm
blue	<b>P1603-00</b>	4 - 4,5 mm
purple	<b>P1604-00</b>	5 - 5,5 mm

**P1600-95** Assorted kit of 4



## **P1509-00** STAINLESS STEEL UNIVERSAL BRACKET ALTIMETER

A small device for measurement of the right height of bracket slots.



## **P1026-00** D.B. BRACKET TWEEZERS

It holds any type of bracket, from a wide twin to a single one.  
Self-locking of the bracket and release by pressure.  
Several tweezers can be pre-loaded with brackets to bond them one after the other.

**P1098-00**  
**UTILITY INSTRUMENT**



**P1520-00**  
**SCREWDRIVER**

For use with micro spring screws.  
Tip of 1,5 mm.



**P1630-00**  
**MODELLING SPATULA LE CRON STYLE**



**P1025-00**  
**DYNAMOMETER**

\*\*\*

High precision gauge for measuring tensile and compression forces exerted by springs and elastics for a maximum range of 16 oz (0,4536 Kg). It is calibrated with 1 oz. single line and 4 oz double line increments.

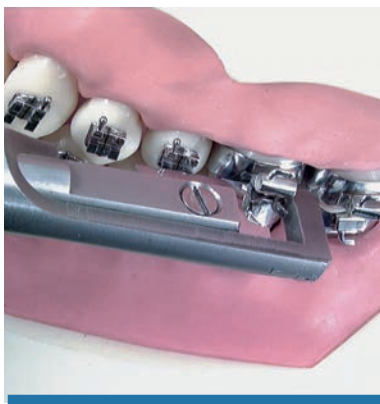


**P1090-00**  
**CAP REMOVER**  
**FOR CONVERTIBLE TUBES**

\*\*\*

It makes the conversion of rectangular tube easy when banding of the second molar is required. Autoclavable.

**P1090-01**  
**REPLACEABLE TIPS P1090-00**  
Pack of 2





**P1001-01**  
**BAND DRIVER OFFSET TIP**

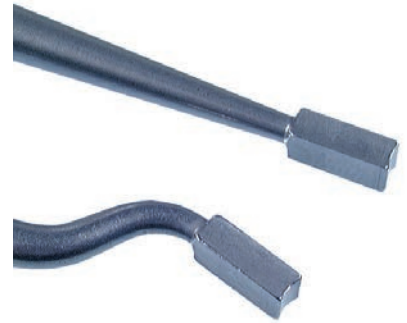
\* \* \*

Fully made of stainless steel.  
For placement and adjustment of bands. Activation is ease in all positions.  
Seating pressure range 80 up to 1000 g.

**P1000-01**  
**BAND DRIVER STRAIGHT TIP**

\* \* \*

Exactly the same as P1001-01 but with straight tip.



**P1002-01**  
**REPLACEMENT TIP**  
**FOR P1001-01**

**P1003-01**  
**REPLACEMENT TIP**  
**FOR P1000-01**



**P1077-00**  
**MERSHON BAND ADAPTER**



**P1092-00**  
**BAND ADAPTER**

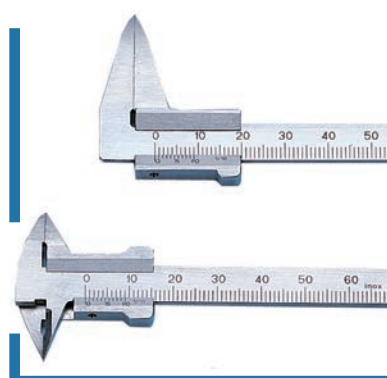
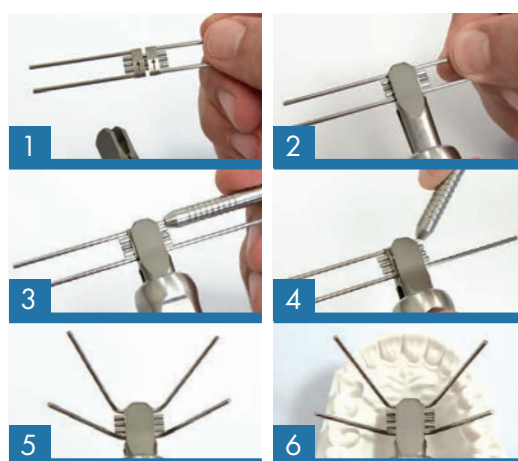
Simple, user-friendly and practical.  
It allows the band to be adapted to tooth anatomy, without nicking or damaging it.



## ARM BENDING AND SELF-LOCKING INSTRUMENT\* FOR EXPANDERS

Handy instrument to firmly hold the expander; it allows for easy and accurate modeling of the arms along with the special arm bending P1620-02. The instrument ends, with a clutch mechanism, are shaped on the model of expander to avoid damage to the bodies and are kept closed by a cursor clamp device that is turned on and off with a simple thumb action. The edge thickness of the clutching ends is designed to indicate the minimum space between the body of the expander and the palatal vault. By placing the instrument with the screw on the plaster model, the correct inclination and the right height to bend the arms will be clearly visible. It is also useful to test the expander prior to use by opening and closing the expander with the special straight key.

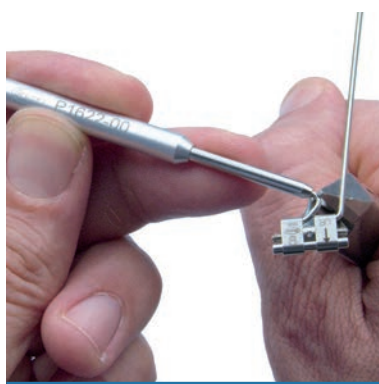
		for expanders
	<b>P0620-00</b>	A0620-08/09/11/13/15 A2620-07/10/12
	<b>P0630-00</b>	A0631-08/10/12
	<b>P0621-00</b>	A0621-08/11 A1621-08/11/13
	<b>P0625-09</b>	A0625-09
	<b>P0625-07</b>	A0625-07



## DENTAL VERNIERS

**P1078-15** Long tips

**P1560-15** Double tips  
Specific for inner and outer measurement



**P1622-00**  
ARM BENDING INSTRUMENT FOR FAST BACK

It facilitates the job of the technician during the construction of the device. It allows to maintain the linearity of the arm which has to slide on the palatal tube. The aluminium handle joined to the tempered steel tube assures a firm grip to get accurate bends.



**P1620-02**  
ARM BENDING INSTRUMENT FOR EXPANDERS

Ideal to bend the expander's arms with ease and precision. Also for expanders with long arms.

\*PATENTED

**TURRET FOR FORMING RECTANGULAR OR ROUND ARCHWIRES**

For forming arch wires with or without torque adjustment.  
Available in six different versions and colour codes.  
The wire slotted body is made of stainless steel.



**P1167-00**  
**TURRET**  
**BLUE code**

\*\*\*

For forming rectangular arch wires  
.016" up to .0215".



**P1266-00**  
**TURRET**  
**BLACK code**

\*\*\*

For forming rectangular arch wires with  
torque adjustments: 0° - 10° - 16° - 23°.  
For use only with wire: .016"x.022".



**P1168-00**  
**TURRET**  
**GOLD code**

\*\*\*

For forming rectangular arch wires with  
torque adjustments: 0° - 7° - 10° - 13°  
- 16°.  
For use only with wire: .018".



**P1267-00**  
**TURRET**  
**PURPLE code**

\*\*\*

For forming rectangular arch wires with  
torque adjustments: 0° - 10° - 16° - 23°.  
For use only with wire: .016"x.016".



**P1170-00**  
**TURRET**  
**SILVER code**

\*\*\*

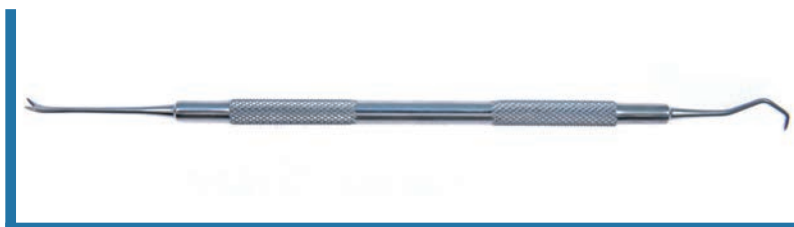
For forming rectangular arch wires with  
torque adjustments: 0° - 7° - 10° - 13° - 16°.  
For use only with wire: .022".



**P1169-00**  
**TURRET**  
**GREEN code**

\*\*\*

For forming round arch wires:  
.014" - .016" - .018" - .020".



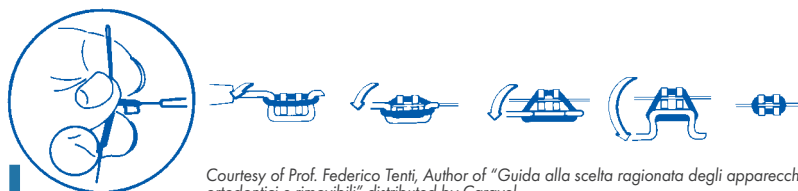
**P1139-00**  
**LIGATURE TUCKER**

Double ended for placement or removal of elastics. Necessary for tucking metal ligatures.



**P1500-00**  
**ELASTIC LIGATURE THREADER**

It facilitates placement of elastic ligatures under bracket tie wings.



Courtesy of Prof. Federico Tenti, Author of "Guida alla scelta ragionata degli apparecchi ortodontici e rimovibili" distributed by Caravel.



**P1576-00**  
**LIGATURE AND ARCHWIRE TUCKER**

Useful for insertion of the arch wire into bracket slot. It is also used to tuck metal ligatures and to apply elastic chains.



**P1505-01** \* \* \*  
**TWISTER**  
**FOR PREFORMED LIGATURE TIES**  
**K4430-25 AND K4480-30**

Fully made of stainless steel. Push the back button to insert the preformed ligature tie. It makes position and final legation easy.



**P1515-00**  
**FAN-TYPE HAND WRENCH**

Thanks to its design, this screwdriver allows you to easily tighten the fixing screws for support of the Telescopic Advancer devices.



**P0201-00**  
**BENDING INSTRUMENT**  
**FOR TADs ATTACHMENTS**

Made of two components, it is useful to customize and adapt the attachments for TADs palatal expanders to every anatomical and treatment need. Both components are made of stainless steel and laser marked.



**LIGATURE TYING PLIER MATHIEU STYLE**

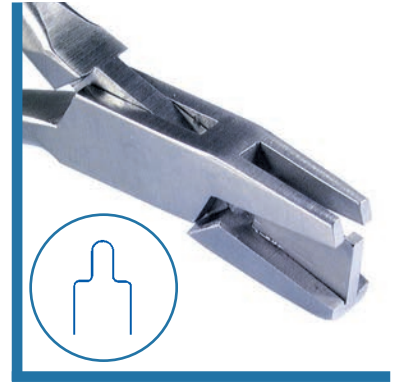
**P1160-00** Tips of 2,5 mm

**P1161-00** Tips of 1,5 mm



**P1141-00**  
**SEPARATOR PLACING PLIERS**

For use with radio opaque separators K6378-00.



**P1142-00**  
**LIGATURE WIRE FORMING PLIERS**

For soft wires up to .014" (0,36 mm).



**P1089-00**  
**MOSQUITO FORCEPS OFFSET**

**P1088-00**  
**MOSQUITO FORCEPS STRAIGHT**



**P3000-01**  
**LIP RETRACTOR**

Well tolerated by patient, it allows an excellent visibility and ease of use. The plastic retractors are connected by a sturdy steel bridge which does not interfere with the field of vision. Necessary with the direct bonding technique and for taking oral photographs. Autoclavable. Transparent.



**P3000-91**  
**LIP RETRACTOR KIT**

Kit content:  
- 5 couples of transparent retractors,  
- 2 bridges.

# OFFICE AND LABORATORY SUPPLIES

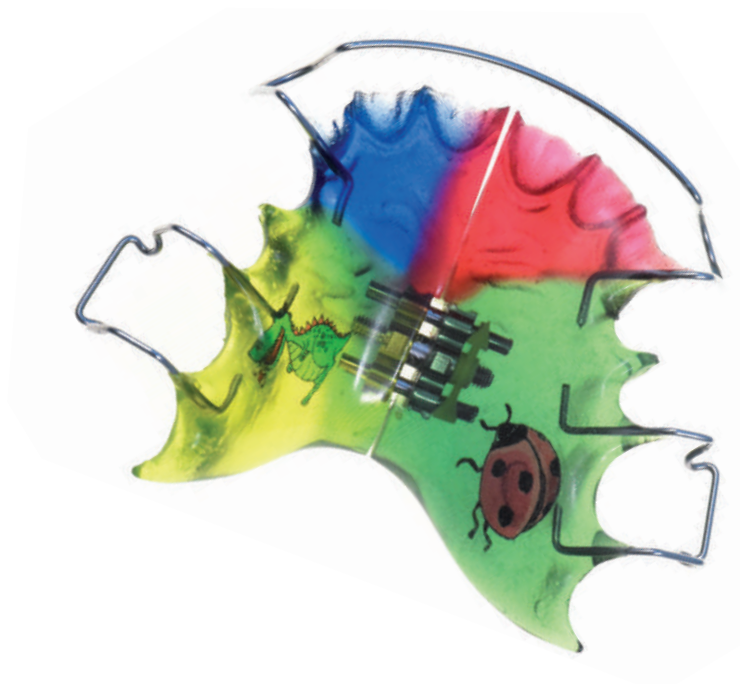


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Our **LEOCRYL**® Arcobaleno range of products is composed of an outbreak of colours to be mixed each other, fluorescent additive and glitters, accessories and a series of coloured motifs to be inserted in the appliance which will make the little patients more motivated.

- **low residual of free monomer**  
to get bubble free polymerized acrylic plates
- **easy mixing**  
diversified particle size of the powder
- **prolonged processing time**  
accurate fit of the prosthesis into the mouth
- **very low shrinkage of the two components**  
accurate fit of the prosthesis into the mouth
- **extremely high precision**  
excellent friction of the expansion screws is guaranteed
- **special hardness**  
for easy polished surfaces





## LEOCRYL® ORTHODONTIC SELF-CURING ACRYLIC RESIN

Specific for orthodontic use, either for spray-on or doughing techniques. The special composition of liquid monomer has careful processing properties, without priming of the curing process (exothermic reaction) which may cause an undesired evaporation of monomer. The use of a Leone hydroflask or pressure pot for polymerization at 40° C with a pressure of 2,5 Atm for 20 minutes is suggested. Hard and perfectly finished plates are obtained as no otherwise possible with other methods.

### Regular kit

- R6222-95** A - clear, A - clear liquid, clear powder
- R6223-95** B - transparent pink, B - transp. pink liquid, clear powder

The kit includes:

- 1 Kg powder, 0,5 L liquid, spray flasks for powder/liquid, funnels, beakers, insulator

### Introductory kit - Necessary in the dental office.

- R6202-93** A - clear, A - clear liquid, clear powder
- R6203-93** B - transparent pink, B - transp. pink liquid, clear powder

It includes:

- 60 g powder, 45 ml liquid



## LEOCRYL® "ARCOBALENO" - LIQUID



colour			pkg.	pkg.
red	D	<b>R6124-00</b>		<b>R6134-00</b>
purple	E	<b>R6125-00</b>		<b>R6135-00</b>
orange	G	<b>R6127-00</b>		<b>R6137-00</b>
fluorescent yellow	H	<b>R6128-00</b>	250 ml	<b>R6138-00</b> 0,5 L
green	I	<b>R6129-00</b>		<b>R6139-00</b>
turquoise	L	<b>R6130-00</b>		<b>R6140-00</b>
blue	M	<b>R6131-00</b>		<b>R6141-00</b>



## LEOCRYL® LIQUID MONOMER

colour			pkg.
clear	A	<b>R6122-00</b>	0,5 L
		<b>R6142-02</b>	1 L
transparent pink	B	<b>R6123-00</b>	0,5 L
		<b>R6143-02</b>	1 L



## LEOCRYL® POWDER POLYMER

Clear colour.

**R6032-00**  
Pack of 1 Kg

**R6042-00**  
Pack of 10 Kg



## **R6000-00** LEOCRYL® "ARCOBALENO" COLOUR GUIDE

Colours illustrated are only indicative. Colours may slightly change compared to those obtained with **LEOCRYL®** acrylic resin.



## R4401-93 COLOURED MOTIF FOR PLATES ASSORTED KIT

It includes 28 different motifs, one positioning tweezers and illustrated pamphlet for patient choice. Assorted kit of 280



## GLITTERS

Nice looking orthodontic plates are obtained by mixing a small quantity of glitters with acrylic powder. Glitters make plates X-ray visible.

Pack of 50 g and squeeze bottle

colour	
silver	R4300-00
gold	R4301-00
multicolor "Z"	R4302-00
blue	R4303-00
red	R4304-00



## R4310-00 "X" FLUORESCENT ADDITIVE

A fluorescent effect is given by mixing just 15% approx. of product with polymer. The best result is achieved with the use of clear powder and liquid.

Pack of 100 g

## ACCESSORIES

R4401-00 Squeeze bottle for powder  
R4402-00 Squeeze bottle for liquid  
R4403-00 Large beaker  
R4404-00 Small beaker

R4405-00 Funnel for liquid  
R4406-00 Funnel for powder  
R4407-00 Brush  
R4408-00 Spray nozzle for powder/liquid

R4409-00 Spray needle for liquid  
R4410-00 Arrows

# acrylic resin accessories plaster for orthodontic models



**R6320-00**  
INSULATOR LIQUID FOR RESIN

Pack of 1 L



**R4550-00**  
POLISHING FLUID FOR RESIN

Spread some drops on the polishing brush.

Pack of 0,5 L



**SILICON MOUNTED POLISHERS**

For perfect polishing of plates. They do not damage hooks or arch wires. All with 2,35 mm diameter shaft.

Pack of 6



**EXTRA HARD PLASTER**

**R5005-00**  
Bucket of 5 Kg

**R5025-00**  
Bucket of 25 Kg

Orthodontic plaster type III, snowy white colour.  
Mixing ratio: 26-28 ml: 100 g.  
Fine detailed, smooth and hard models (over 650 Kg/cm<sup>2</sup>) are obtained.  
Easy to polish with R4520-00.  
Ideal for making study models and plaster casts for collection.

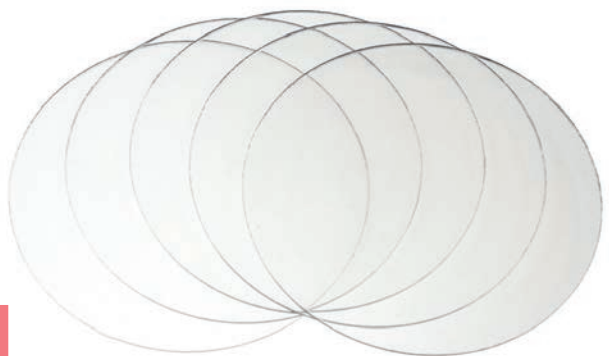


**GLOSS FOR PLASTER MODELS**

**R4520-00**  
Pack of 0,5 L

**R4530-00**  
Pack of 5 L

It is necessary to use a good ortho plaster but also a good final model gloss to obtain a well-made study model. This model gloss provides polish surfaces with fine details and protects them over the time.



## BIOCOMPATIBLE THERMOFORMING MATERIAL

Discs and square plates made out of PET-G (Polyethylene Terephthalate modified with Glycol), a thermoforming material ideal to manufacture dental aligners and post-treatment aesthetic retainers. The material conforms to ISO 10993-1, and once formed, it features excellent optical transparency, with highly efficient biomechanical properties.



○ THERMOFORMABLE DISCS Ø 120 mm		
	thickness	package
R7001-05	0,5 mm	25 pcs
R7001-08	0,8 mm	25 pcs
R7001-10	1,0 mm	25 pcs
R7001-15	1,5 mm	15 pcs
R7001-20	2,0 mm	10 pcs
<b>new</b> R7001-905	0,5 mm	1000 pcs
<b>new</b> R7001-908	0,8 mm	1000 pcs
<b>new</b> R7001-910	1,0 mm	1000 pcs



○ THERMOFORMABLE DISCS Ø 125 mm		
	thickness	package
R7002-05	0,5 mm	25 pcs
R7002-08	0,8 mm	25 pcs
R7002-10	1,0 mm	25 pcs
R7002-15	1,5 mm	15 pcs
R7002-20	2,0 mm	10 pcs
<b>new</b> R7002-908	0,8 mm	1000 pcs
<b>new</b> R7002-910	1,0 mm	1000 pcs



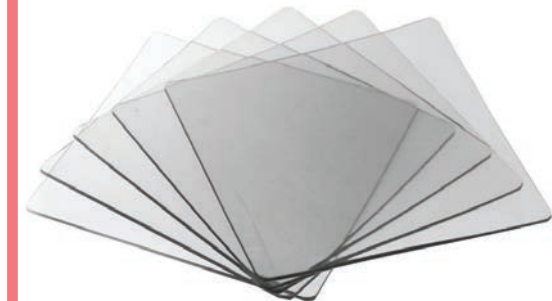
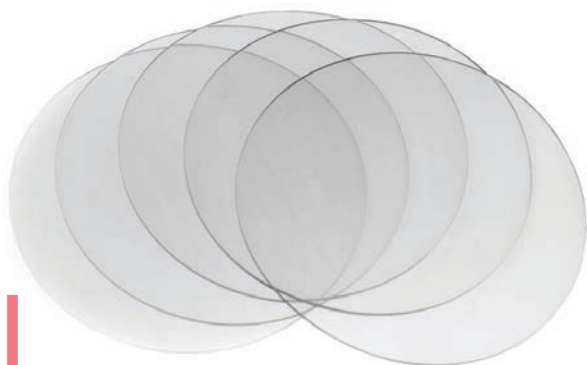
□ THERMOFORMABLE PLATES 125 x 125 mm		
	thickness	package
R7013-05	0,5 mm	25 pcs
R7013-08	0,8 mm	25 pcs
R7013-10	1,0 mm	25 pcs
R7013-15	1,5 mm	15 pcs
R7013-20	2,0 mm	10 pcs



## BIOCOMPATIBLE THERMOFORMING MATERIAL HARD/SOFT

**new**

Discs and square plates featuring one soft and one hard side. The soft side is made of EVA (Ethylene Vinyl Acetate) and the hard side is made of PET-G (Polyethylene Terephthalate modified with Glycol). Acrylic resin is perfectly combined with the hard side of the thermo-formable material, making it suitable for the fabrication of splints for people suffering from bruxism or as a retentive base in the construction of complex acrylic appliances, such as anti-snoring devices. Once thermoformed, the material will get a high breakage resistance.

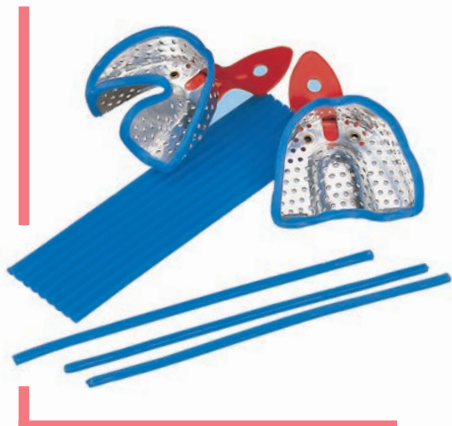


○	HARD/SOFT DISCS Ø 120 mm	
	thickness	package
<b>R7101-02</b>	2 mm	10 pcs
<b>R7101-03</b>	3 mm	10 pcs

○	HARD/SOFT DISCS Ø 125 mm	
	thickness	package
<b>R7102-02</b>	2 mm	10 pcs
<b>R7102-03</b>	3 mm	10 pcs

□	HARD/SOFT PLATES 125x125 mm	
	thickness	package
<b>R7113-02</b>	2 mm	10 pcs
<b>R7113-03</b>	3 mm	10 pcs





**R3712-00**  
**QUADRANGULAR WAX STICKS**

Wax in 25 cm long sticks, 3x3 mm cross section. The special adherence and high workability make it useful to border the impression trays to fit the edges of the functional impression.

**Pack of 110 sticks**



**R3710-00**  
**UTILITY WAX**

Highly soft wax in strips which bends at room temperature without breaking. Thanks to its good adherence and high workability, it serves to border the impressions to obtain the base of the mould.

**Pack of 24 strips**



**R3711-00**  
**MODELLING WAX**

Wax in sheets. It moulds, both cold and hot, without breaking.

**Pack of 500 g**



**R3730-00**  
**BITE WAX**

Necessary for taking accurate occlusal impressions. A special aluminium foil lessens distortions, 5 mm thick.

**Pack of 24**



**R3714-00**  
**THERMOWAX FOR UNDERCUTS**

High melting point: 104° C. Particularly suitable to eliminate undercuts. It prevents damage to be caused to the acrylic brightness.

**Pack of 100 g in stick**



**R3713-00**  
**STICKY WAX**

High sticky power. Extreme strength of adhesion to fix the various elements (screws, wires etc.) to the model.

**Pack of 100 g in stick**



**R3716-00**  
**NATURAL PROTECTIVE WAX**

Specially intended for orthodontic use. The natural composition of this wax makes it to be absolutely safe and undangerous if swallowed, it does not cause any illness.

**Pack of 10 boxes, 5 sticks each**



**R0221-00**  
**SOLDERS**  
**FOR STAINLESS STEEL**

For use with bridges and crowns. Cadmium free. Silver: 49%. Melting range: 680° - 705° C.

**Pack of wire form, 1 mm in diameter, 10 g approx.**



**ORTHODONTIC SOLDERS**

**R0222-00**

Wire form, 0,40 mm in diameter

**R0223-00**

Tape form, 1 x 0,5 mm

**R0224-00**

Rods, 1 mm in diameter

For all orthodontic brazing works. Cadmium free. Silver: 55%. Melting range: 630° - 660° C.  
**Pack of 10 g approx**



**R0225-00**  
**SOLDER POWDER**

Powder for solders R0220-00 and R0221-00.  
**Pack of 50 g approx.**



**R0226-00**  
**FLUX**

In paste, for solders: R0222-00, R0223-00 and R0224-00.  
**Pack of 30 g approx.**



**R0227-01**  
**THERMO INSULATOR PASTE**  
**FOR SOLDERS**

It protects plaster and resin during soldering procedure. Excellent consistency. Easy to remove with water.  
**Pack of 235 ml**

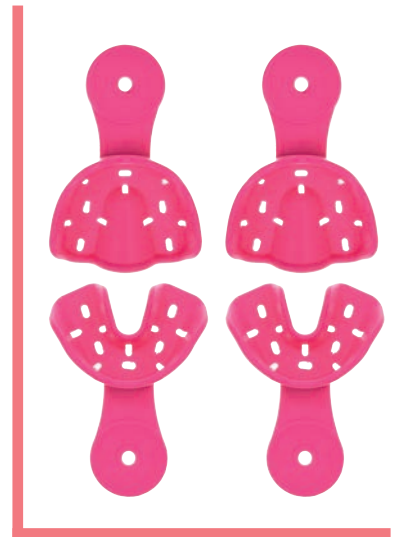


**new**



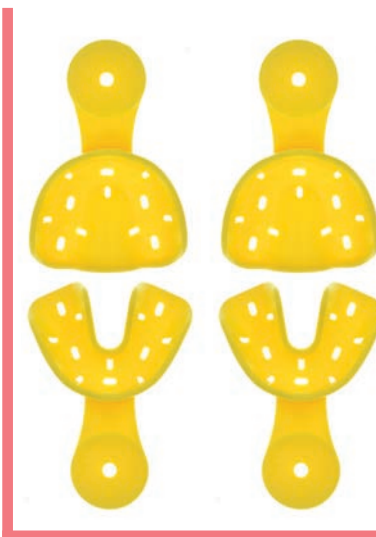
**R2300-95**  
**IMPRESSION TRAY KIT**

Impression trays made of polypropylene, autoclavable up to 121°C. The anatomical shape and retention holes offer the specialist safe and manageable impression trays. Available in 4 different sizes, easily recognizable by the different colors: pink, yellow, green and orange. The kit includes 8 pieces, both upper and lower, 1 pair each size.



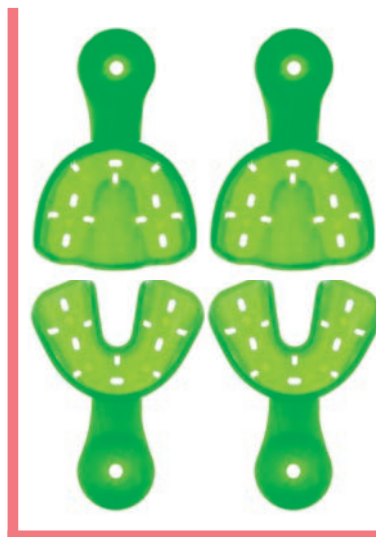
**R2300-01**  
**IMPRESSION TRAY - PINK**  
**Size 1**

The package includes 2 pairs of pink impression trays Size 1, the smallest size  
**Pack of 4 pcs:**  
2 upper and 2 lower



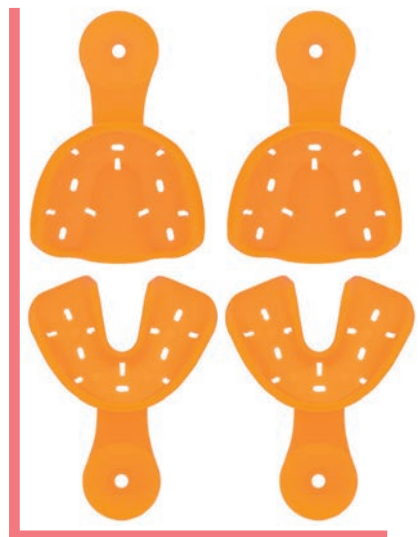
**R2300-02**  
**IMPRESSION TRAY - YELLOW**  
**Size 2**

The package includes 2 pairs of yellow impression trays Size 2  
**Pack of 4 pcs:**  
2 upper and 2 lower



**R2300-03**  
**IMPRESSION TRAY - GREEN**  
**Size 3**

The package includes 2 pairs of pink impression trays Size 3  
**Pack of 4 pcs:**  
2 upper and 2 lower



**R2300-04**  
**IMPRESSION TRAY - ORANGE**  
**Size 4**

The package includes 2 pairs of orange impression trays Size 4, the largest size  
**Pack of 4 pcs:**  
2 upper and 2 lower

# DIAGNOSTIC AND LABORATORY EQUIPMENT



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## DEMONSTRATION MODELS FOR FIXED ORTHODONTICS

Two-tone acrylic normo-occlusion demonstration models are useful for the visualization of the bracket characteristics for both patients and potential customers. Available with brackets of various types, steel, ceramics and even self-ligating; single Low Profile tubes are present on the molars in all demonstration models.

Pack of 1



**T3472-00**  
DEMONSTRATION MODEL - MINI DIAGONALI®



**T3442-00**  
DEMONSTRATION MODEL - MIDI DIAGONALI



**T3461-00**  
DEMONSTRATION MODEL - STEP SYSTEM 2.0





**T3457-00**  
DEMONSTRATION MODEL - AQUA SL



**T3411-00**  
DEMONSTRATION MODEL - INTERACTIVE SL



**T3456-00**  
DEMONSTRATION MODEL - GHIACCIO



**T3458-00**  
DEMONSTRATION MODEL - AQUA





## T3061-00 PLASTIC MODEL BASES

Impact resistant, white plastic model bases, with rear hinges to maintain the occlusion. Square-edged according to international standards and a constant height that permits to make models comparable over time and in all views for the correct diagnosis and for monitoring during therapy. For use with the practical positioning plate T3062-02 supplied with the package.

Precision and ease of working models, that can also be performed directly in the dental office.

### Pack content:

- 100 upper bases
- 100 lower bases
- 2 position plates with guide rails and labels

**T3062-00**  
**SPARE HINGES**  
**FOR MODEL BASES**  
Pack of 10

**T3062-01**  
**SPARE LABELS**  
**FOR MODEL BASES**  
Pack of 100

**T3062-02**  
**POSITION PLATES**  
**FOR MODEL BASES**  
Pack of 10 with 20 guide-rails



## RUBBER MODEL BASE FORMERS

**T3320-00 Large**

**Pack of 2**  
1 upper and 1 lower

**T3321-00 Small**

**Pack of 2**  
1 upper and 1 lower



## T1121-00 VERTICAL MODEL OCCLUDER

Entirely made of stainless steel with high precision. The double sliding guides prevent from any undesired lateral movement. Models can be disengaged from the occluder by loosening the locking screw.

**Locking screw T1122-00.**



## T3355-00 MODELBOX

Transparent PVC model containers supplied with pre shaped sponges for full protection of models.

**Pack of 100**

**T3330-00**  
**TYPODONT**

Typodont is used to test orthodontic appliances in the dental office or during learning courses. This unit offers ease of handling and accuracy of details.

Entirely made of aluminum, with lateral and protrusive movements, it can easily be made to lay flat and take away into a document case.



**WAX BASES FOR TYPODONT**

- T3332-00** Class I
- T3336-00** Normal occlusion
- T3337-00** Class II, Div. I
- T3338-00** Class II, Div. II
- T3339-00** Class III

**Pack of 2,**  
upper and lower



**T3529-00**  
**ACRYLIC TEETH**  
**FOR TYPODONT T3330-00**

Purposely designed for Typodont T3330-00, they are necessary for making practice with the direct bonding brackets.

**Pack of 28 teeth**



**T1315-00**  
**LEONE HYDROFLASK**

Orthodontic cold curing acrylics require the polymerization under pressure technique. This kind of polymerization enables the vaporization of monomer and condensing of acrylic, which will perfectly fit the plaster model. Plates are coming out perfectly finished and can be immediately polished. The Leone hydroflask allows you to make use of the polymerization under pressure technique easily and economically.

**Technical features:**  
 Inside dimensions: 100 x 115 mm  
 Outside dimensions: 111 x 130 mm  
 Pressure gauge  
 Exhaust valve  
 Made of hard aluminium  
 Built-in thermometer



**T1310-00**  
**LEONE HYDROFLASK**

With the same features as T1315-00, without thermometer and slightly smaller.

**Technical features:**  
 Inside dimensions: 100 x 88 mm  
 Outside dimensions: 111 x 105 mm  
 Pressure gauge  
 Exhaust valve  
 Made of hard aluminium

**REPLACEMENT PARTS FOR HYDROFLASKS**

- T2300-00** Hydroflask lid
- T2301-00** Rubber seal for lid
- T2302-00** Air valve
- T2303-00** Thermometer for T1315-00
- T2304-00** Pressure gauge



**T1311-00**  
**PRESS FOR HYDROFLASK**

Convenient press for hydroflasks T1310-00 and T1315-00, made of pressure cast aluminium. Extremely easy to use.



**TRAYS**  
**FOR MODEL BASES**

- T3360-00** Blue
- T3361-00** Red

Two drawers for storing six model bases each box.  
 Outer sizes: 250 x 200 x 80 mm.  
**Pack of 16 boxes**

**TRAYS**  
**FOR STUDY MODELS**

- T3350-00** Blue
- T3351-00** Red

Two drawers for storing eight models each box.  
 Outer sizes: 285 x 190 x 55 mm.  
**Pack of 24 boxes**



**T3603-00**  
**ACETATE SHEETS FOR**  
**CEPHALOMETRIC TRACING**

Sheets with double matt and polish surface. Sizes: 203 x 254 mm.

**Pack of 100 sheets**



**T3608-00**  
**MARKING PENCIL WHITE**

For marking arch wires, bite planes, etc.

**Pack of 1**



**T3612-01**  
**CEPHALOMETRIC PROTRACTOR**

The angular measurement is facilitated by the ruler; the cut-out tooth symbols of incisors, molars and circular holes assist in the anatomical tracing over the x-ray film.

**Pack of 1**



**T1565-00**  
**SAW**



**BLADES FOR SAW T1565-00**

**T1566-00** 12 blades for plaster

**T1567-00** 12 blades for metal



**SAW FOR SET-UP**

**T1561-00** Saw with 1 blade

**T1563-00** 12 large serrated blades

Easy change of blades and perfect handiness.



## LEONE COPOLYMER DUPLICATION PLATES

Sizes: 130 x 140 mm, 2 or 3 mm thick, these plates are made of a special material getting soft and gelatinous at a temperature of 90° C. Just dip in boiling water, lay on the model and press over with the duplicating press: a fine detailed model impression is obtained.

**T0900-02** Pack of 50 plates 2 mm thick

**T0900-03** Pack of 50 plates 3 mm thick



**T0900-92** Pack of 500 plates 2 mm thick

**T0900-93** Pack of 500 plates 3 mm thick



**T1203-00**  
PLIER RACK



**T1212-00**  
STANDARD ARCHWIRE HOLDER

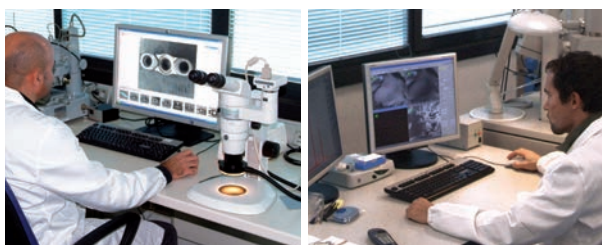


**T1200-00**  
PLIER RACK

## QUALITY FOR CUSTOMER SATISFACTION

The Leone S.p.A. quality system ensures and maintains the quality level of the product in accordance with the essential requisitions of 93/42 EEC Directive as amended, with the EU Regulation 2017/745 or other mandatory provisions and in compliance with the expectations and the needs of the customer, and ensures that all processes and their interactions associated with the manufacturing of orthodontic and dental products, more specifically the research and development production processes, storage and distribution are established, implemented, maintained and improved in accordance with the requirements of the quality management system in conformity with the international standards UNI EN ISO 9001, UNI CEI EN ISO 13485, under the regulation 93/42EEC in Annex II (Annex IX, Regulation EU 2017/745) and ISO 13485 in conformity with the requirements of the Countries participating at the program MDSAP (Medical Device Single Audit Program) such as: SOR 98/282 Canada, USA-FDA 21 CFR Part 820, Japanese Ordinance MHLW No. 169, Therapeutic Good (Medical Devices) Australian Regulation 2002, Resolution RDC Anvisa no.16/2013 of Brazil and other dispositions and updates, and of others non-European Countries of final product's destination.

## CUSTOMER SERVICE



### COMPETENCE AND RELIABILITY

Our Service department is always on hand to provide information about products and solve any issues thanks to technicians and engineers who are under continuing professional update.

### PROMPTNESS OF DELIVERY

Careful management and an advanced logistics system allow the process of orders in a timely manner and deliver the goods to the carrier on average within 24 hours.

## LEONE NEWSLIST

Keep informed with the latest news of our products: click on "Services" in our website [www.leone.it](http://www.leone.it) and fill in the registration form.



## TECHNICAL AND COMMERCIAL ASSISTANCE



CONTACT YOUR DEALER IN YOUR COUNTRY AS A REFERENCE.  
YOU WILL FIND THE COMPREHENSIVE LIST UNDER THE SECTION  
"DISTRIBUTORS" IN OUR WEBSITE

**[www.leone.it](http://www.leone.it)**

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# ISTITUTO STUDI ODONTOIATRICI

## EDUCATION, TRAINING, UPGRADE

ISO Istituto Studi Odontoiatrici, the scientific division and training center of the Leone Company, operates throughout the national territory with the aim of spreading knowledge and promotion of dentistry and implant dentistry at ever higher levels. Founded in 1982, the Florence office is divided over two floors, with a total area of 1,000 square meters and in almost 40 years of activity, it has hosted over 50,000 participants on its courses. ISO offers a complete program of courses from home and either online for dental-surgeons, dentists, specialists in dentistry and orthodontics. Dedicated training courses are also organized for dental technicians and to the product knowledge of orthodontics and implant dentistry, for Italian and foreign traders.



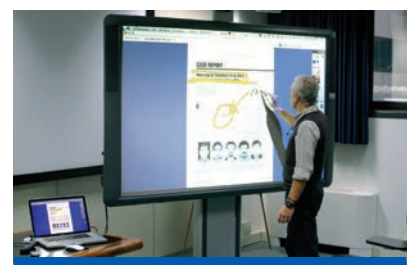
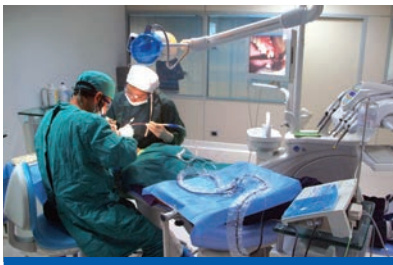
## A STATE-OF-THE ART FACILITY

In addition to the welcoming premises reserved for reception and secretarial services, the first floor of the building is completely dedicated to lecture rooms:

- one dental practice equipped with 3 dental units for live demonstrations of orthodontic and implant interventions on patients
- one lecture hall seating up to 40 participants for doctors participating in live demonstrations
- endoral and extraoral cameras connected to the network make all the interventions visible in real time in the various classrooms
- one fully equipped dental laboratory with 18 benches
- one multi-purpose classroom for 80 trainees recently endowed with Active Classroom environment: an integrated Active Board multimedia interactive whiteboard and Active Expressions learner response system with real-time student assessment during the course.

On the second floor:

- the "Marco Pozzi" Lecture Hall seating up to 250 congress participants. The hall is equipped with all multimedia devices.
- The didactic tools available at ISO and the high qualified lecturers make any event a profitable and memorable one for every participant.



For detailed information on courses and events visit our website: [www.leone.it/english/iso](http://www.leone.it/english/iso) or contact the ISO reception office: Phone +39.055.304458 - [iso@leone.it](mailto:iso@leone.it)

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## CONVERSION CHARTS

inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
.001	0,03	.017	0,43	.033	0,84	.049	1,24	.065	1,65
.002	0,05	.018	0,46	.034	0,86	.050	1,27	.066	1,68
.003	0,08	.019	0,48	.035	0,89	.051	1,30	.067	1,70
.004	0,10	.020	0,51	.036	0,91	.052	1,32	.068	1,73
.005	0,13	.021	0,53	.037	0,94	.053	1,35	.069	1,75
.006	0,15	.022	0,56	.038	0,96	.054	1,37	.070	1,78
.007	0,18	.023	0,58	.039	0,99	.055	1,40	.071	1,80
.008	0,20	.024	0,61	.040	1,02	.056	1,42	.072	1,83
.009	0,23	.025	0,64	.041	1,04	.057	1,45	.073	1,85
.010	0,25	.026	0,66	.042	1,07	.058	1,47	.074	1,88
.011	0,28	.027	0,69	.043	1,09	.059	1,50	.075	1,90
.012	0,30	.028	0,71	.044	1,12	.060	1,52	.076	1,93
.013	0,33	.029	0,74	.045	1,14	.061	1,55	.077	1,96
.014	0,36	.030	0,76	.046	1,17	.062	1,57	.078	1,98
.015	0,38	.031	0,79	.047	1,19	.063	1,60	.079	2,01
.016	0,41	.032	0,81	.048	1,22	.064	1,63	.080	2,03

inch	mm
1/64" =	.0156 0,40
1/32" =	.0312 0,79
1/16" =	.0625 1,59
1/8" =	.125 3,18
1/4" =	.250 6,35
3/8" =	.375 9,52
1/2" =	.5 12,70
5/8" =	.625 15,88
3/4" =	.75 19,05
7/8" =	.875 22,22
1" =	1.0 25,40

1 mg	=	0,0154 grains
1 g	=	1000 mg = 0,0353 oz
1 Kg	=	1000 g = 2,2046 lb
1 ounce	=	28,35 g
1 pound	=	16 ounce = 0,4536 Kg

1 inch	=	25,40 mm
1 mm	=	0,0394 inch
1 N/mm <sup>2</sup>	=	145.14 p.s.i.
1 p.s.i.	=	0,00689 N/mm <sup>2</sup>

FDI SYSTEM	18	17	16	15	14	13	12	11	21	22	23	24	25	26	27	28
	48	47	46	45	44	43	42	41	31	32	33	34	35	36	37	38

## CATALOGUE SYMBOLS

<p>On the various tables of catalogue we used symbols to better indicate the characteristics of our products. Below are the symbols used:</p> <p>one turn of screw</p> <p>expansion</p> <p>length</p> <p>height</p>		inner diameter		angulation	
		torque of bracket		rotation of tube	
		torque of tube		upper right	
		slot		upper left	
				lower right	
				lower left	

Safety data sheets of our products can be downloaded from our web site: [www.leone.it](http://www.leone.it)

## PRODUCT LABEL SYMBOLS

The label on the package of any medical device set on the market will show the symbols in compliance with the harmonized standards. The symbols marked with a single (\*) are based on the ISO 21531, ISO 15223-1 and on the 93/42EEC Directive. The symbols marked with double (\*\*) have been instead adapted by Leone.

manufacturer's trade name and address	(*)	catalogue code	(*)	code number and product description in different languages	
CE mark (made in compliance with 93/42EEC Directive on class IIA or IIB medical devices)	(*)	expiry date, if the product is perishable (year/month/day)	(*)	storage temperature	(*)
lot number* (indicated by LOT mark)	(*)	for professional use only	(**)	for single use only	(*)
keep dry	(*)	this product contains Nickel-Chromium: possible allergic reactions	(**)	keep away from sunlight	(*)
CE mark (made in compliance with 93/42EEC Directive on Class I medical devices)	(*)	read the documents enclosed	(*)	gamma-ray sterilized	(*)
titanium	(*)	surgical steel	(*)	this product contains Chromium: possible allergic reactions	(*)
autoclavable at temperature indicated	(*)	polyethylene	(*)	non-sterile	(*)
do not use if package is damaged	(*)	polyetheretherketone	(*)	UDI Barcode / UDI Datamatrix Unique Device Identification "UDI" for the identification and the traceability of the medical device	(*)
read the instructions for use enclosed	(*)	with content or presence of natural rubber latex	(*)		
read the digital instructions for use available at the specified website	(*)	medical device	(*)		

(01) 08033707080893  
(10) 21012701  
(91) 216C000001  
(240) 002-1708-01  
(17) 260127

\* Unless otherwise indicated, the LOT number explains the date of manufacture with the key YYMMDDNN (YY year, MM month, DD day, NN Leone progressive internal number of the lot). For example 19021502 indicates the lot no. 02 of February 15, 2019

## WARNINGS

The herewith described indications are not claimed to represent a substitution of the clinical knowledge of the licensed Professional. Patient's anamnesis, diagnosis, instrumental and laboratory exams and everything is necessary for a therapy approach must be decided by the Dental Surgeon or the Dental Doctor, who will effect the surgical intervention on the patient and who will be held the sole responsible for such intervention. The indications furnished in this catalogue are to be intended for general use only and restricted to skilled and licensed Professionals who will be held the sole responsible for the construction of the prosthesis. It is clear and accepted by the Dental Surgeon or the Dental Doctor, that the informations contained in the present catalogue have informative purpose only and they do not claim to be a substitution of the specific medical action, nor do they constitute legal relationship among Leone S.p.A., the Dental Surgeon, the Dental Doctor or even the patient. Leone S.p.A. will not assume any liability nor will furnish any warranty regarding the exactness or the connection of the information described in this catalogues.

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## REGISTERED TRADEMARKS



**BIOSTEEL®**  
**CALIBRA®**  
**LEOCRIL®**  
**LELOY®**  
**LEOWIRE®**  
**MEMORIA®**

**MIM®**  
**MINI DIAGONALI®**  
**NATURA®**  
**POP®**  
**THERMOMEMORIA®**  
**ALTEO®**



## HOW TO REACH LEONE

## BY AIRPLANE

from the Peretola airport "A. Vespucci", five minutes by taxi.

## BY CAR

- from the highway "Autostrada del Sole", exit Firenze Aeroporto, in the direction of Florence.
  - Along the highway A11, exit Sesto Fiorentino, on your right side the Novotel and Ibis Hotel can be seen
  - **At the first traffic circle, take the third exit;**  
at the second traffic circle, turn on the first exit on the right (McDonald's).
- GPS coordinates: +43° 48' 4.85" N, +11° 11' 0.23" E

## BY TRAIN

from the central station "Santa Maria Novella", take bus no. 30, get off in Via Pratese near the car dealer Volkswagen.

Call **+39.055.3044620**

or send an e-mail message to **info@leone.it**  
for further information on Leone products or a visit to our factory.

You can also visit our web-site:  
**www.leone.it**

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Paper has a very significant impact on the environment. To get an idea of the effect that traditional paper has on the ecosystem, just think that it is necessary to cut down 15 trees to produce a ton of paper from virgin cellulose.

The format of this catalog has been re-sized to a smaller format. We have halved the use of paper for printing, saving up 50% on the costs and reducing environmental impact.



