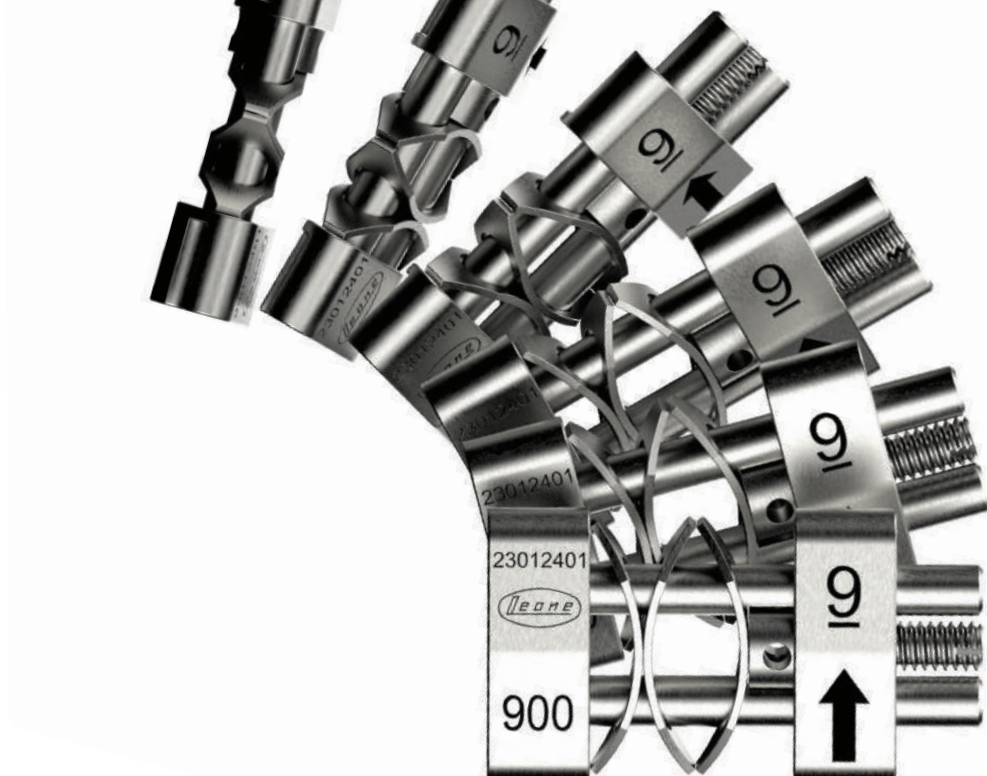


***Leone***®

**ORTHODONTICS**

31<sup>st</sup> EDITION



# ORTHODONTICS

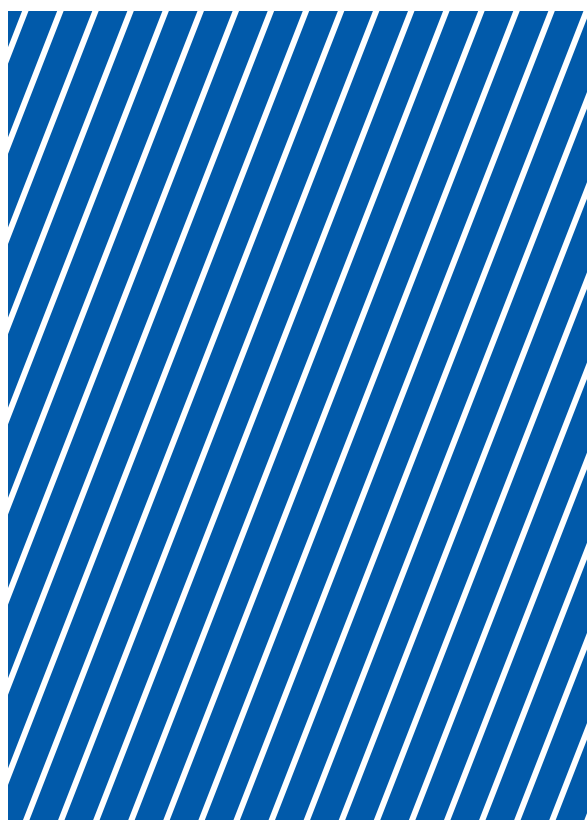
PRODUCT CATALOGUE

**31<sup>st</sup>** Italian edition

**16<sup>th</sup>** English edition  
2024

**Leone<sup>®</sup>**

ORTHODONTICS AND IMPLANTOLOGY  
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50019 Sesto Fiorentino  
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info@leone.it | **leone.it**







Professional skills, experience, and innovation make Leone the leading Italian company in the production of dental products. Keeping an eye onto the rapidly evolving market and customer needs, Leone pays particular attention to production capacity, quality, and service. The qualified salesforce works closely with an exclusive network of distributors, providing technical training and support. The great attention to detail is also the reason why Leone is synonymous of high quality: each product is meticulously and carefully designed. The company, originated from a small artisanal activity in 1934, thanks to Mario Pozzi, , now is an industrial reality of high technological and commercial levels. Mr. Pozzi decided to adopt the head of the Marzocco as the company logo, a symbol of Florentine excellence, thus beginning the history of Leone. In 1961, his son Alessandro continued the business, developing the production and marketing of Leone products in Italy and abroad, joined by his daughter Elena in the late '90s, who is currently the sole director of the company. Since 1993, Leone has been a part of OMA (Orthodontic Manufacturers Association - USA), which brings together the nine global industries for the manufacture of orthodontic products. In 2002, the company expanded its production by introducing the Leone Implant System, a complete line of products for dental Implantology. In 2017 the LeoneAmerica company, a distributor in the US market, was acquired, and sales activities were strengthened through investments in the French company Odontec, today Leone France. In 2019 the Leone experience gave birth to Leone Digital Service, the innovative startup that supports Dentists and Orthodontists by means of highly digital content products and tools. Today, Leone covers an area of approximately 15,000 area square meters of production and industrial facilities where about 200 employees work.



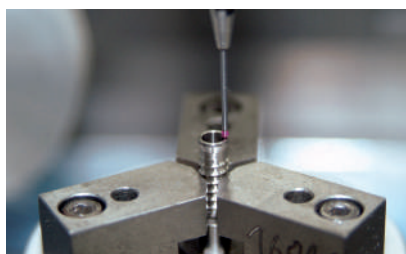
## RESEARCH

Significant annual investments are dedicated to the *Marco Pozzi Biotechnological Research Center*, located within the company, where studies on materials and surfaces, as well as technical analysis for new products, are carried out. There is a close collaboration with Italian and foreign Universities and faculties of Engineering and Medicine and Surgery in Florence, organizing internships and scientific work for thesis research.



## PRODUCTION

All the innovations introduced in the production phases and the characteristics of the products are the result of continuous and in-depth studies. The production staff includes engineers, mechanical technicians, and qualified technicians who use the most advanced technologies to develop and manufacture components for the two product lines: orthodontics and implantology.



## QUALITY AND 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.



## 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 AND UPGRADE

The Leone ISO Center (Istituto Studi Odontoiatrici) provides a reserved 1,000 square meter facility equipped with multimedia devices, entirely dedicated to teaching and spreading of new therapeutic techniques. Hands-on training courses and practical demonstrations with clinical activities on patients, are aimed at all professionals in the field, both in Italy and abroad.



## TECHNICAL AND COMMERCIAL ASSISTANCE

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.



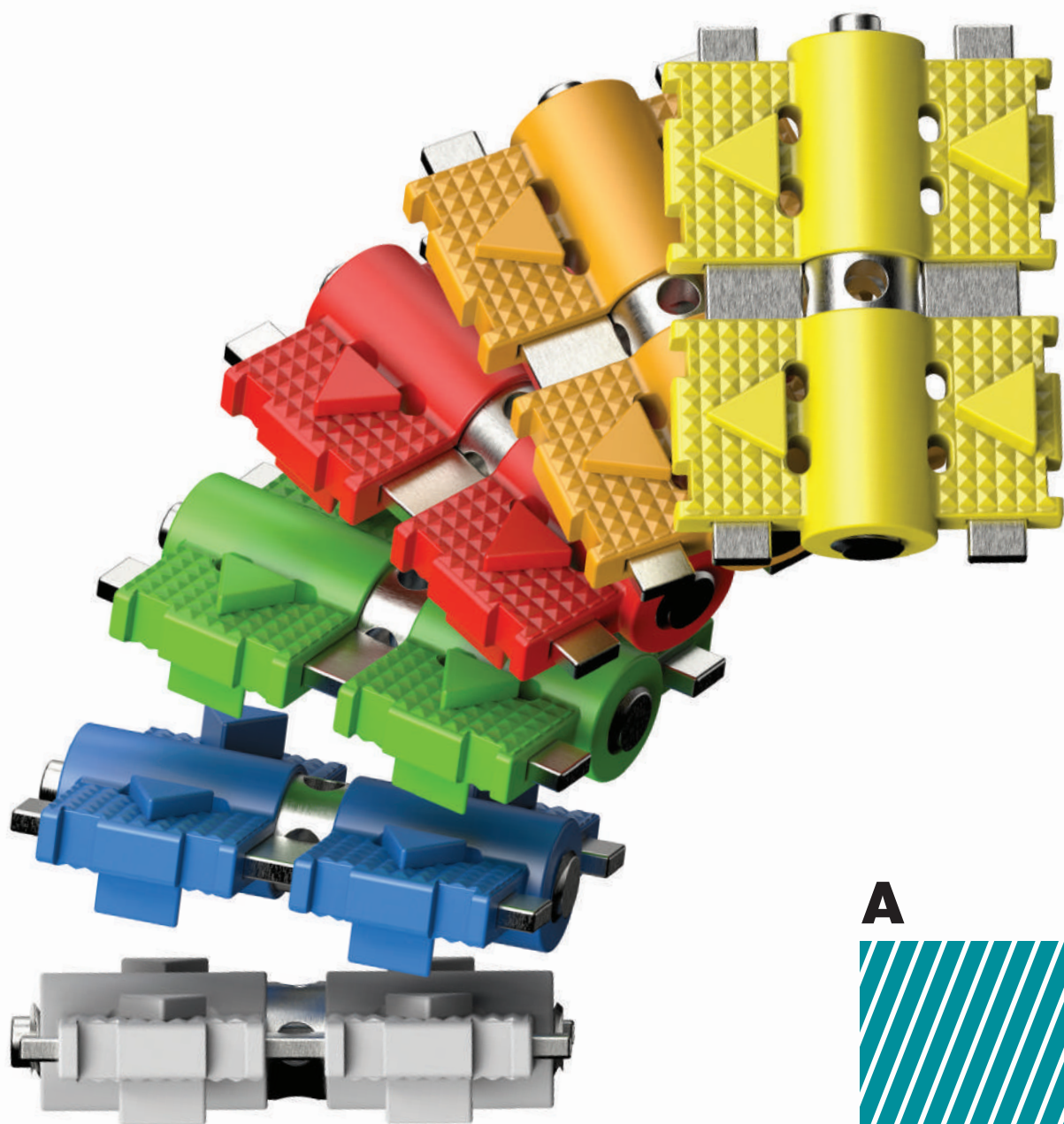
## CONTACT YOUR DEALER IN YOUR COUNTRY AS A REFERENCE

You will find the comprehensive list under the section "Distributors" in our website **leone.it**

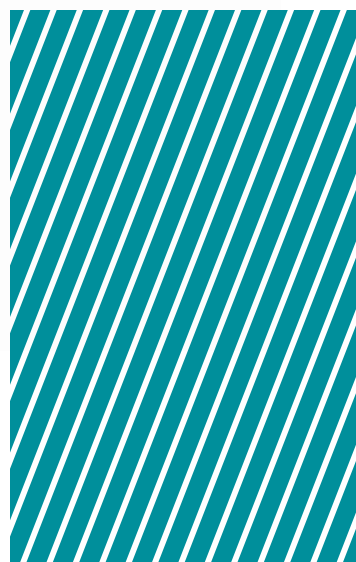
In this catalogue you can find QR codes storing multimedia contents which can be downloaded directly on your smartphone. You can download free QR reader applications (e.g. [www.i-nigma.com](http://www.i-nigma.com)) except for the connecting charges. Videos are also available on our web-site: [www.leone.it/english/orthodontics](http://www.leone.it/english/orthodo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

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# EXPANSION SCREWS



**A**

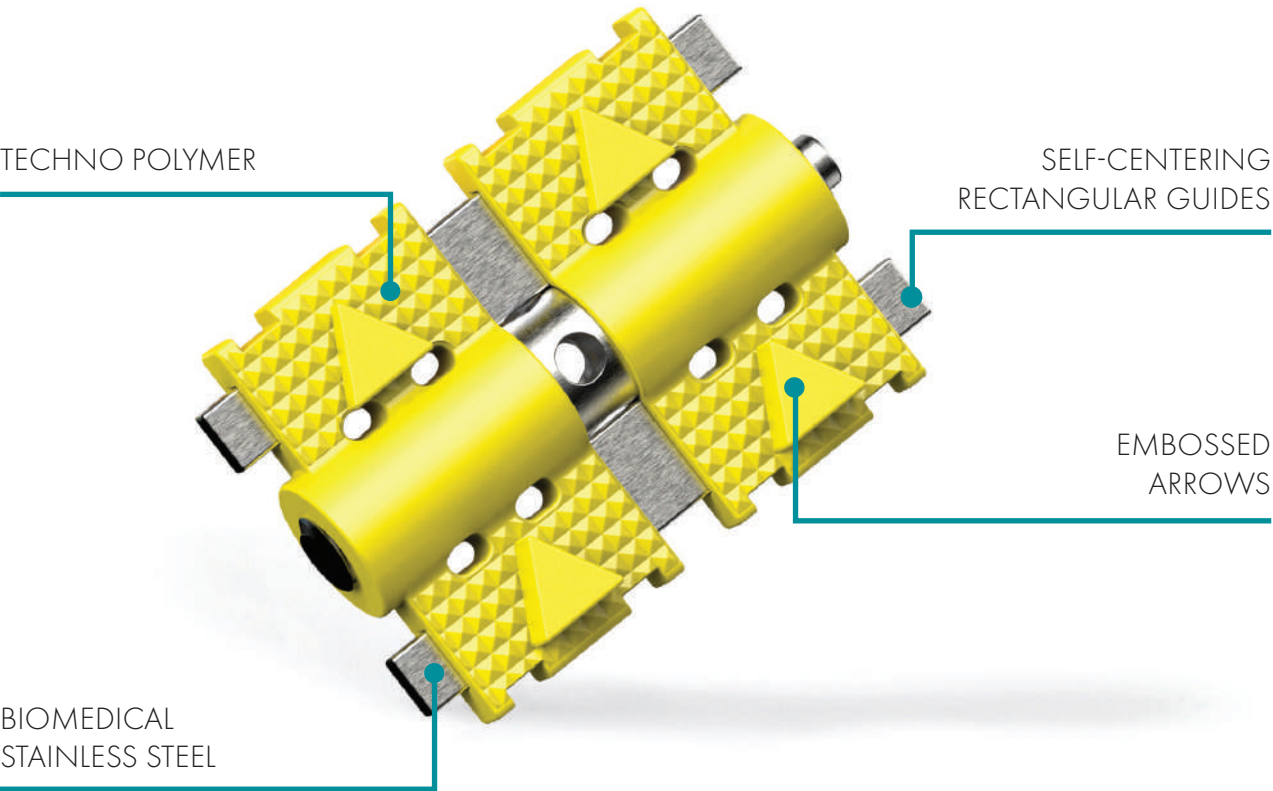




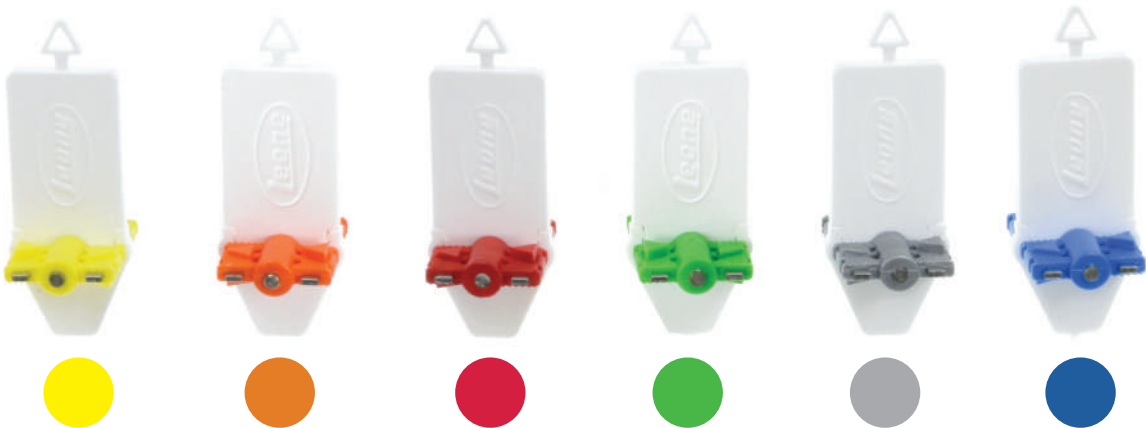
**POP!**

Perfect Orthodontic Performance

**THE INNOVATIVE AND  
BIOMECHANICAL ORTHODONTIC  
EXPANSION SCREW \***



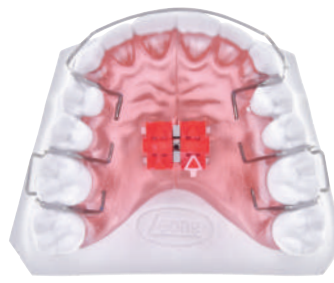
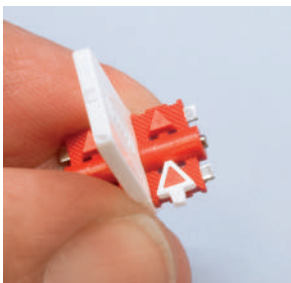
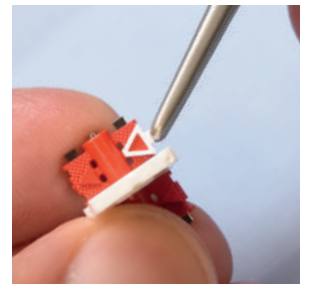
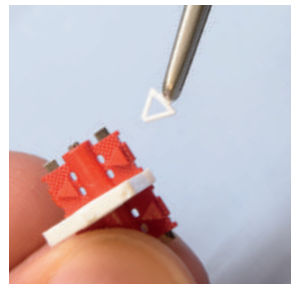
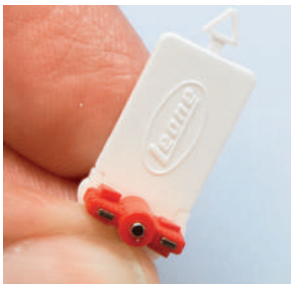
AVAILABLE IN 6 COLOURS



\*PATENTED



- 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.
- 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 removal after the curing cycle.
- The screw body is available in 6 colours.





# POP® EXPANSION SCREWS

PERFECT ORTHODONTIC PERFORMANCE



## POP® SCREW FOR UPPER ARCH

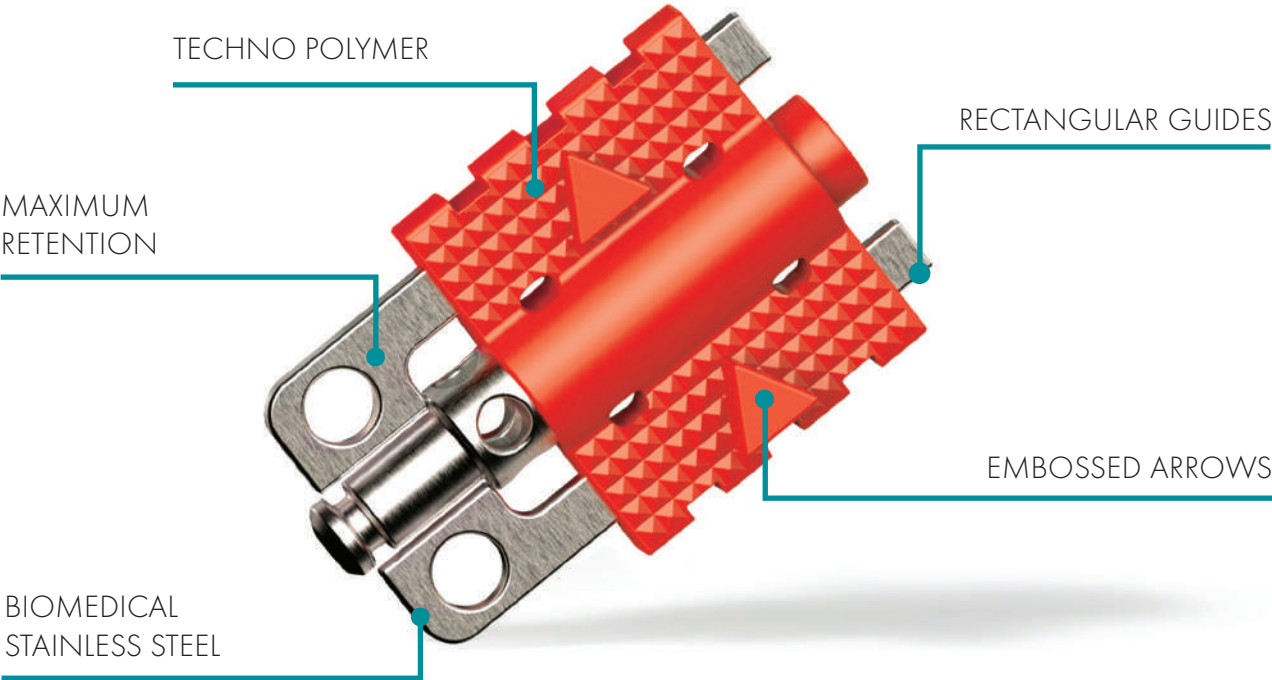
yellow	orange	red	green	silver	blue	
A4805-14G	A4805-14E	A4805-14R	A4805-14V	A4805-14T	A4805-14A	10
ASSORTED COLOURS						A4805-90 12

## POP® SCREW UNIVERSAL

yellow	orange	red	green	silver	blue	
A4800-12G	A4800-12E	A4800-12R	A4800-12V	A4800-12T	A4800-12A	10
ASSORTED COLOURS						A4800-90 12

# POP!

Perfect Orthodontic Performance





AVAILABLE IN 6 COLOURS

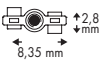
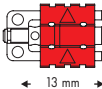











- The **POP® MICRO SECTIONAL SCREW** is added to the already known POP SCREW range to increase therapeutic options.
- Made of stainless steel and biomedical techno polymer.
- The male screw is not in contact with the orthodontic acrylic resin: its functionability will not be influenced by the quality 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.
- 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.



POP® MICRO SECTIONAL SCREW

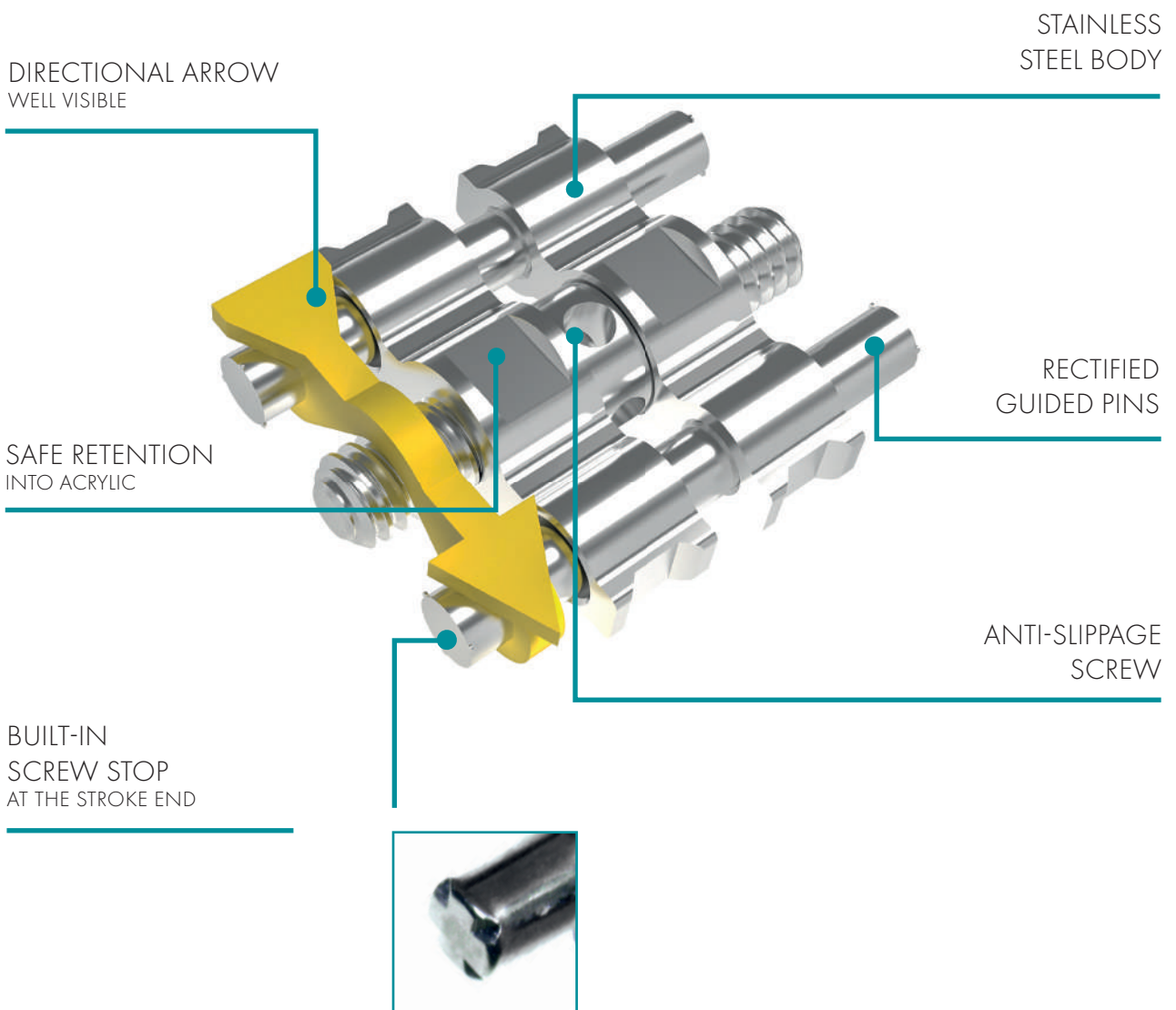
pkg.

0,4 mm7 mm

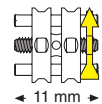
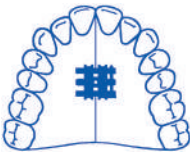
yellow	orange	red	green	silver	blue
					
<b>A4801-00G</b>	<b>A4801-00E</b>	<b>A4801-00R</b>	<b>A4801-00V</b>	<b>A4801-00T</b>	<b>A4801-00A</b>
					10
<b>ASSORTED COLOURS</b>					
 x2					
					<b>A4801-90</b>
					12



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 and 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 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



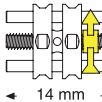
0,8 mm

7 mm

**A0805-111** 1

**A0805-11** 10

**A0805-95** 100



0,8 mm

9 mm

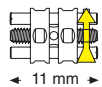
**A0805-141** 1

**A0805-14** 10

**A0805-96** 100



MEDIUM SCREW

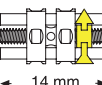


0,8 mm

7 mm

**A0803-11** 10

**A0803-95** 100



0,8 mm

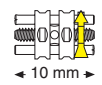
9 mm

**A0803-14** 10

**A0803-96** 100



UNIVERSAL  
SCREW

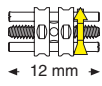


0,7 mm

6 mm

**A0800-10** 10

**A0800-95** 100



0,7 mm

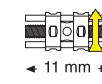
8 mm

**A0800-12** 10

**A0800-96** 100



SUPER MICRO  
SCREW



0,7 mm

6 mm


**A0890-111** 1


**A0890-11** 10







**A0890-95** 100





SUPER MICRO SECTIONAL SCREW




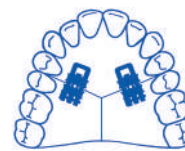
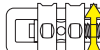










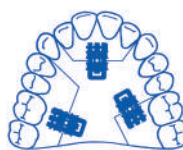
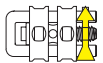





		 		pkg.	
 ◀ 9 mm ▶	 2,5 mm 4,6 mm	0,35 mm	3 mm	A0891-09	10
				A0891-95	100
 ▶ 10 mm ◀	 2,5 mm 4,6 mm	0,35 mm	3 mm	A0891-10	10
				A0891-96	100











MICRO SECTIONAL SCREW WITH BENT U-SHAPED GUIDE PIN

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

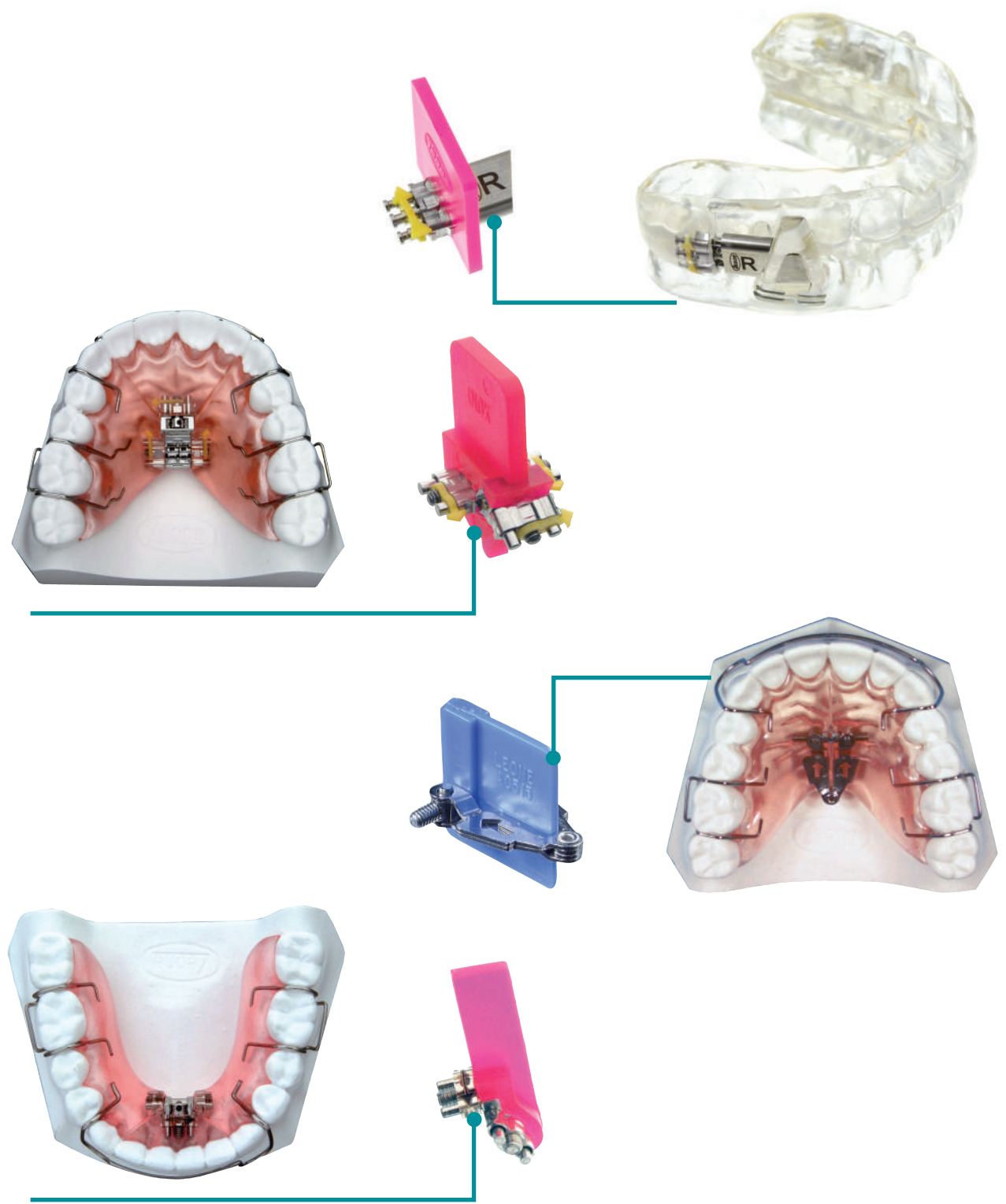
MICRO SECTIONAL SCREW WITH STRAIGHT U-SHAPED GUIDE PIN						pkg.			
				0,4 mm	4 mm	<b>A0801-12</b>	10		
		◀ 12 mm ▶	7,25 mm			<b>A0801-96</b>	100		
						<b>A0801-13</b>	10		
		◀ 14 mm ▶	7,25 mm					<b>A0801-98</b>	100
									
◀ 14 mm ▶	7,25 mm	<b>A0801-97</b>	100						

MICRO SECTIONAL SCREW

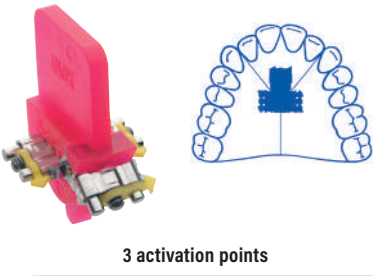
MICRO SECTIONAL SCREW						pkg.	
				0,4 mm	4 mm	<b>A0801-10</b>	10
		◀ 10 mm ▶	◀ 7,25 mm ▶			<b>A0801-95</b>	100
							
				0,4 mm	6 mm	<b>A0801-00</b>	10
		◀ 12 mm ▶	◀ 7,25 mm ▶			<b>A0801-99</b>	100
							

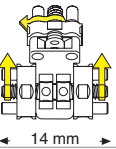

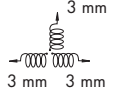
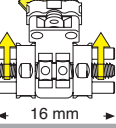

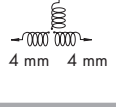

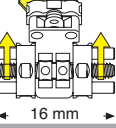

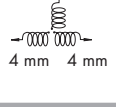
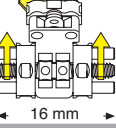

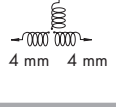



The assortment of special expansion screws proposed by Leone derives from over 30 years experience in the manufacture of expansion screws. Screw selection ranges from the Pagani classical fan-type screw, to the Bertoni three directional ones, up to the kit for construction of the Twin Wing class II corrector. 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 ensure great sturdiness, good friction and prevent any unwanted turning-back.

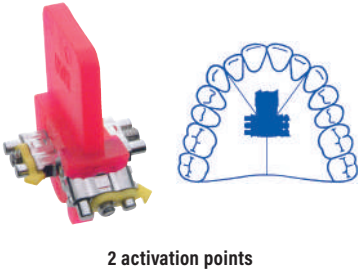


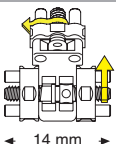

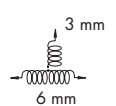
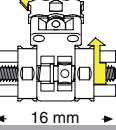

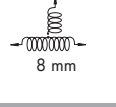

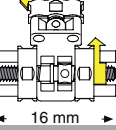

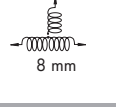
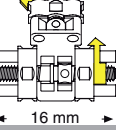

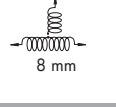

THREE DIRECTIONAL  
SCREW ANATOMICAL



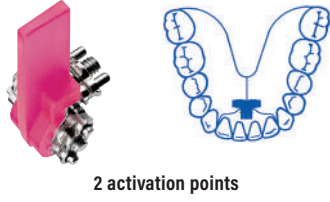
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		0,4 mm		<b>A0930-14</b>	1
		0,4 mm		<b>A0930-93</b>	5 
		0,4 mm		<b>A0930-16</b>	1
		0,4 mm		<b>A0930-94</b>	5 

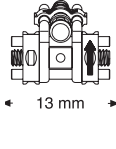

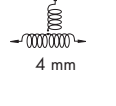
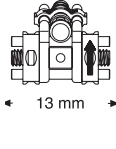

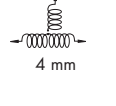

THREE DIRECTIONAL  
SCREW ANATOMICAL



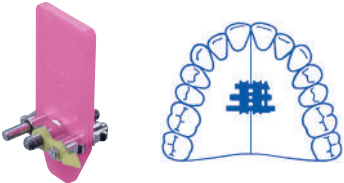
					pkg.
		0,4 mm protrusive		<b>A0931-14</b>	1
		0,8 mm transversal		<b>A0931-93</b>	5 
		0,4 mm protrusive		<b>A0931-16</b>	1
		0,8 mm transversal		<b>A0931-94</b>	5 

THREE DIRECTIONAL SCREW  
ANATOMICAL FOR LOWER ARCH



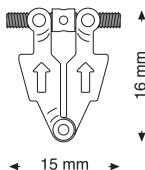
					pkg.
		0,4 mm protrusive		<b>A0932-13</b>	1
		0,8 mm transversal		<b>A0932-93</b>	5 

TRAPEZOIDAL SCREW



					pkg.
		14 mm 11 mm 9 mm		<b>A0813-00</b>	10
		0,8 mm		<b>A0813-95</b>	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

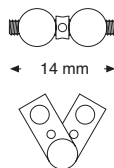
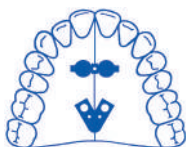
1

A0516-95

100



FAN-TYPE SCREW  
2 PIECES



0,8 mm

9 mm

A0815-14

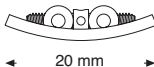
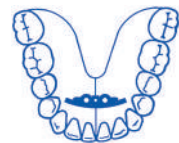
1

A0815-95

100



MANDIBULAR BOW  
SCREW



0,8 mm

5 mm

A0517-25

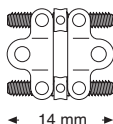
1

A0517-95

100



BI-FAN-TYPE SCREW



0,8 mm

9 mm

A0518-14

1

A0518-95

100



TWIN  
Wing

CLASS II CORRECTOR KIT



A0840-05 1 appliance

Thanks to our experience gained with MAD appliances 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.

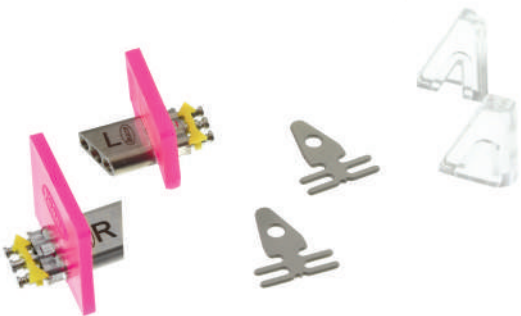
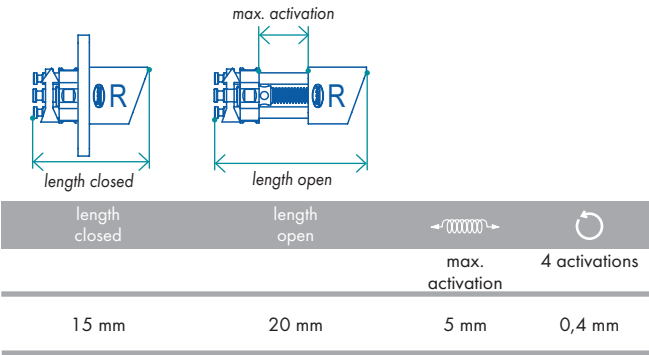
The kit, especially designed for the realization of this innovative appliance, contains all the components for an easier and more precise construction.

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

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

The kit for the construction of 1 appliance includes:

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



REFILLS FOR TWIN WING

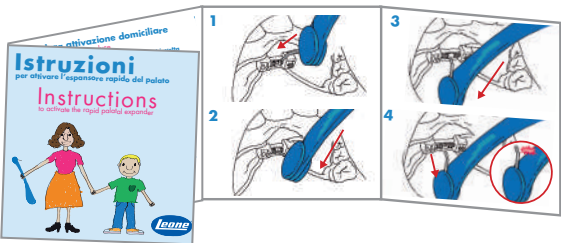
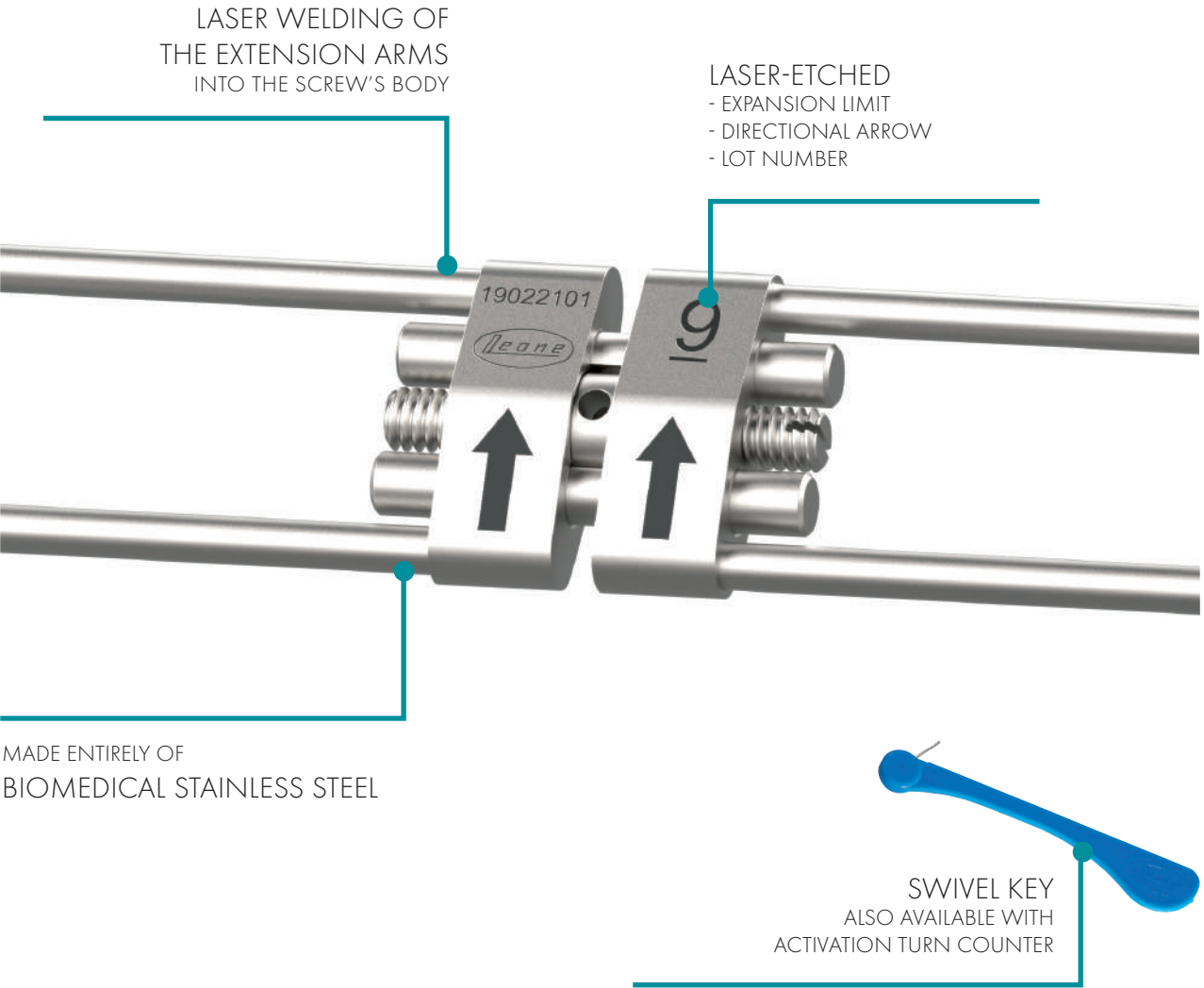
A0841-00  
Lower wings with inner steel frame



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 they're 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.



INSTRUCTIONS FOR USE OF EXPANDERS  
USEFUL FOR PARENTS AND DOCTOR



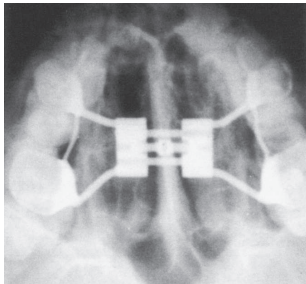



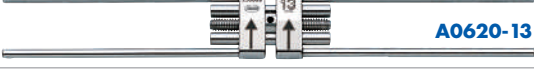
**RAPID EXPANDER**  
**The best-selling palatal expander in the world**

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's 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 31) 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>A0620-08</b>		1,5 mm	12 mm	8 mm	0,8 mm 35
 <b>A0620-09</b>		1,5 mm	14 mm	9 mm	0,8 mm 40
 <b>A0620-11</b>		1,5 mm	16 mm	11 mm	0,8 mm 50
 <b>A0620-13</b>		1,5 mm	18 mm	13 mm	0,8 mm 60
 <b>A0620-15</b>		1,5 mm	20 mm	15 mm	0,8 mm 70



**A0600-00**  
**PROTECTIVE TAB \* FOR HAAS-STYLE PALATAL EXPANDER**

Made of two parts 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.



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



 11 mm	 4 mm	 arms	 body		 activation turns for maximum expansion limit
 A0620W08		1,5 mm	12 mm	8 mm	0,8 mm 35
 A0620W09		1,5 mm	14 mm	9 mm	0,8 mm 40
 A0620W11		1,5 mm	16 mm	11 mm	0,8 mm 50
 A0620W13		1,5 mm	18 mm	13 mm	0,8 mm 60










RAPID EXPANDER  
WITH TELESCOPIC GUIDES

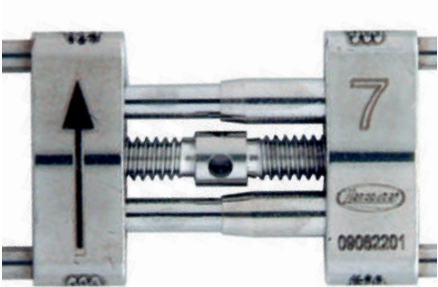


The innovative telescopic guides assure a constant friction throughout the expansion movement, perfect stability and small sizes. It self-deactivates when maximum expansion capacity has been achieved, preventing overtreatment. The 7 mm expander is ideal to treat very narrow palates. The expanders with 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 31) 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



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 31) 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.

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



**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 31) is also available.

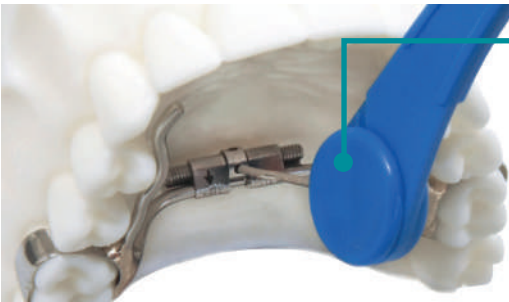
Pack of 1



Swivel key included in the package



ANTERIOR POSITION  
HOLES OF ACTIVATION



EASY ACCESS  
FOR KEY ACTIVATION

3 EXPANSION VALUE  
FOR ANY THERAPEUTIC TREATMENT

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



Swivel key  
included in the package

**RAPID EXPANDER  
WITH ORTHOGONAL ARMS**

The 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.

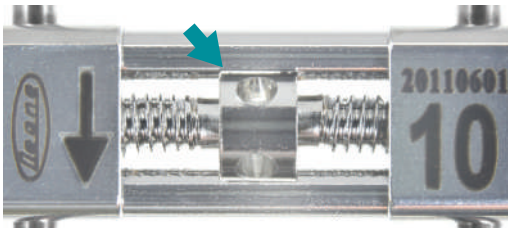
The arm bending and self-locking instrument REF P0630-00 (page 31) is also available.

Pack of 1












- 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		 activation turns for maximum expansion limit	
		1,5 mm	12 mm	8 mm	0,8 mm	35
		1,5 mm	14 mm	10 mm	0,8 mm	45
		1,5 mm	16 mm	12 mm	0,8 mm	55



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

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

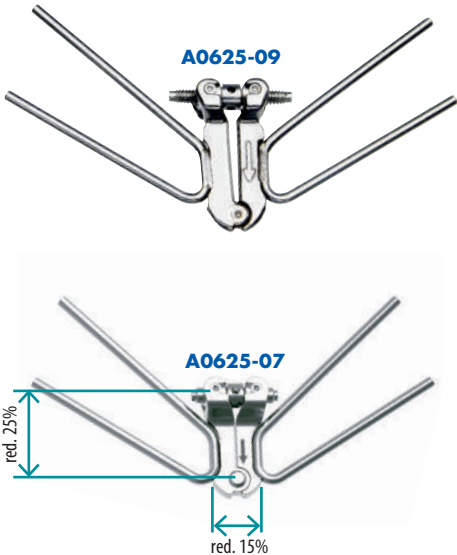
Made entirely of biomedical stainless steel. The expanding arms are laser welded to the screw body. Laser engraved directional arrows on the **MIM®** body. It is a device for the rapid expansion of the palate that allows you to get a widening of the single anterior sector of the maxillary arch still maintaining minimum expansion in the posterior sector. It self-deactivates when maximum expansion capacity has been achieved, preventing overtreatment. 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 31) are also available.



Pack of 1



COMPARISON BETWEEN  
A0625-09 AND 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

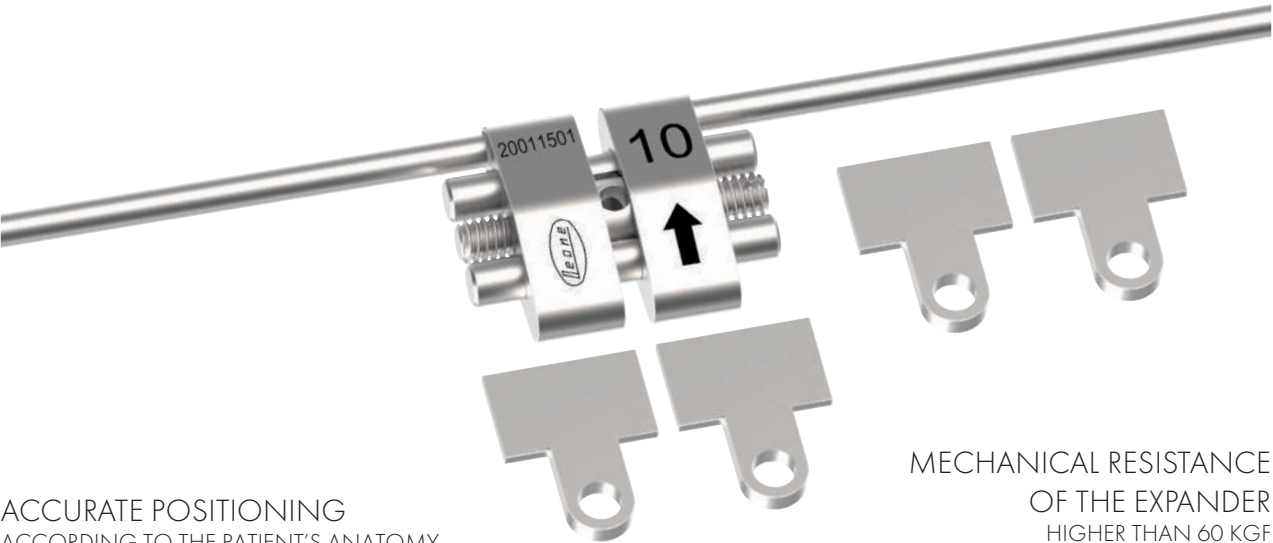


**IT ALLOWS THE MANUFACTURING  
OF TOTALLY CUSTOMIZED EXPANDERS  
BOTH HYBRID (TEETH AND TADs)  
AND FULLY BONE BORNE**

**RPE FOR TADs**  
PATENT PENDING

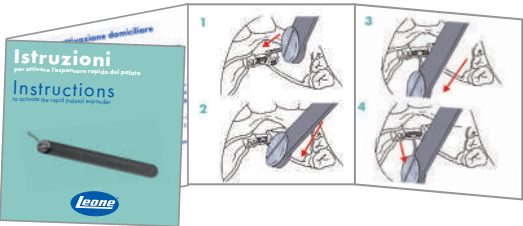
It features two posterior arms, and, in the package, 4 dedicated TAD attachments are included that can be adapted to patient's anatomy and welded by the lab on the body of the screw. The enhanced strength of the expander ensures high mechanical resistance to apply high forces necessary for MARPE therapy (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



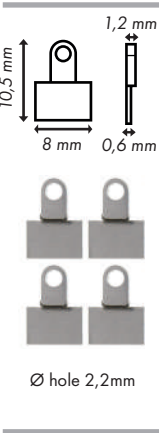
INSTRUCTIONS TO ACTIVATE THE EXPANDER  
USEFUL FOR PARENTS AND CLINICIANS

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





	11 mm	4 mm	arms	body							
201A0620-08	1,5 mm	12 mm	8 mm	0,8 mm	40						
201A0620-10	1,5 mm	15 mm	10 mm	0,8 mm	50						
201A0620-12	1,5 mm	17 mm	12 mm	0,8 mm	60						



Pack of 1 expander and 4 attachments

**P0201-00**  
**BENDING INSTRUMENT**  
**FOR TADS ATTACHMENTS**

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



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

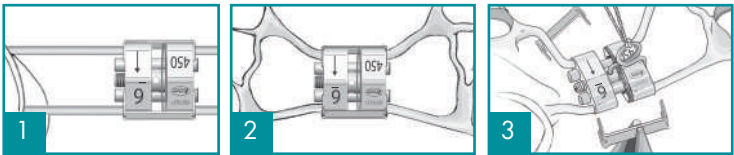


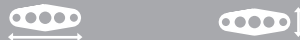








Swivel key and clip included in the package

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 is equipped with two Nickel Titanium **MEMORIA®** leaf springs, allowing the release of calibrated and continuous force 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 realization and treatment. Inside the package is also available practical instructions for use where all the construction steps and methods of delivery are illustrated.

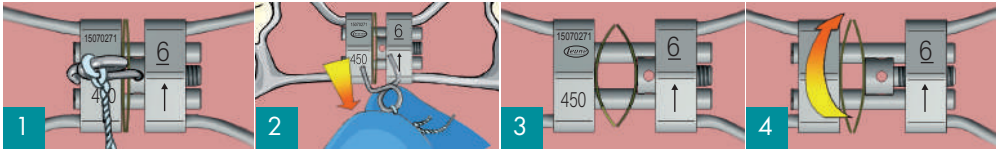
Supplied with a swivel key with handle to facilitate the endoral activation by the professional.

Pack of 1



						activation turns
11 mm	4 mm	arms	body			for maximum expansion limit
		1,5 mm	12 mm	6 mm	0,4 mm	30
<b>A2703-06</b> 2 springs 450 g approx.						
		1,5 mm	16 mm	9 mm	0,4 mm	45
<b>A2704-06</b> 2 springs 900 g approx.						
						
<b>A2703-09</b> 3 springs 450 g approx.						
						
<b>A2704-09</b> 3 springs 900 g approx.						

INTRA-ORAL UTILIZATION CHART



ACTIVATION PROTOCOL		LEAF expander cementation		FIRST phase		SECOND phase		THIRD phase	
6 mm	<b>A2703-06</b> <b>A2704-06</b>	spring activation 0 turns	after 6 weeks	10 turns	after 4 weeks	10 turns	after 4 weeks	10 turns	
9 mm	<b>A2703-09</b> <b>A2704-09</b>	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 \***

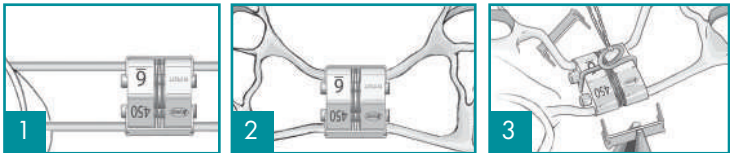
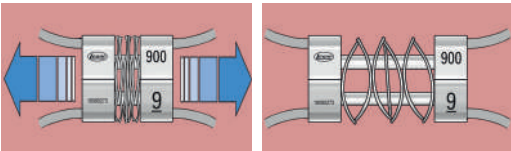
Helpful to verify the expansion gained and the need to activate the expander or compress the springs again. Easy to place design, it makes it easier to check the expansion value directly into the mouth.  
Made of steel, suitable for hot and cold sterilization.  
**Pack of 1**





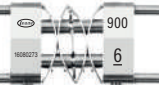




**MEMORIA®**  
**LEAF SPRING**  
**SELF-ACTIVATED**  
**EXPANDER \***

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 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 a safety leash to keep the leaf springs compressed, facilitating the technician and the clinician in specific phases of realization and treatment.  
Inside the package is also available practical instructions for use where all the construction steps and methods of delivery are illustrated.  
**Pack of 1**

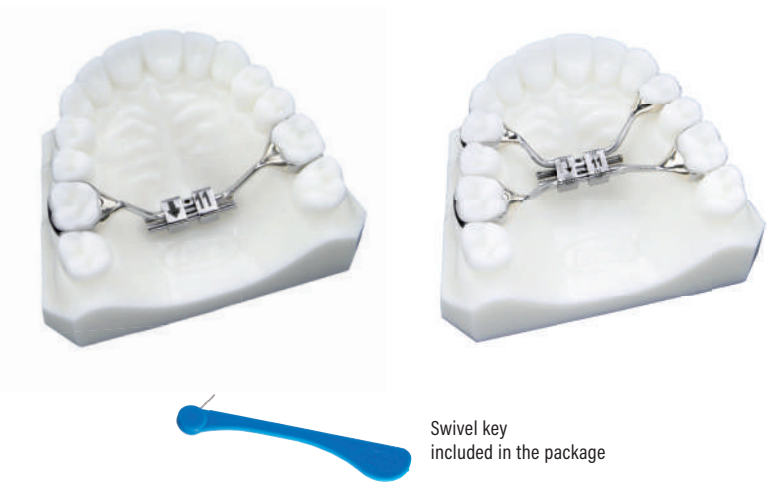
**ok** ORTHODONTICS  
FOR KIDS



					
	11 mm	4 mm	arms	body	
	<b>A2705-06</b> 4 springs 450 g approx.				
	<b>A2706-06</b> 4 springs 900 g approx.				
	<b>A2705-09</b> 6 springs 450 g approx.				
	<b>A2706-09</b> 6 springs 900 g approx.				

\*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.

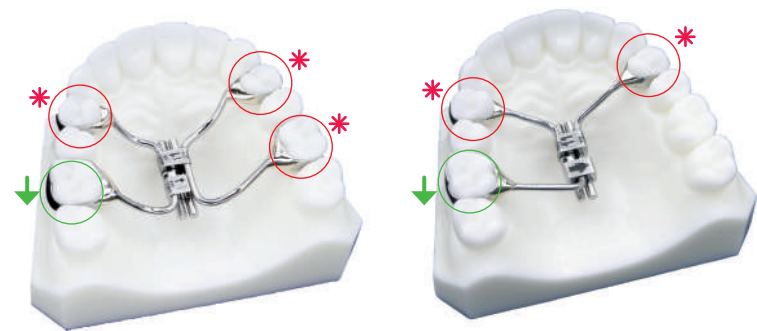
**Pack of 1**

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

**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**



- \* ANCHORAGE
- ↓ EXPECTED DENTAL MOVEMENT



Key with safety ring leash  
included in the package

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

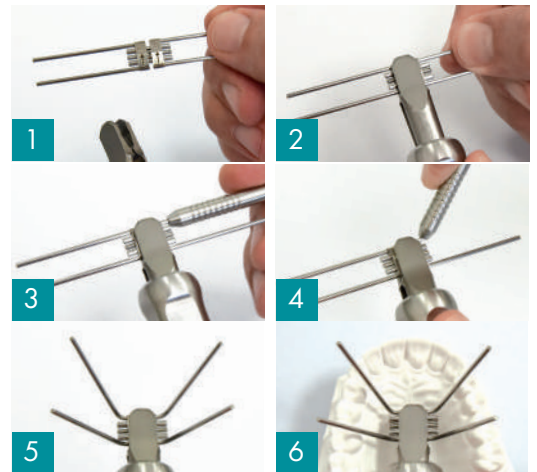
\*PATENTED



### 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 tool P1620-02 (page 35). The instrument ends with a clutch mechanism that is shaped on the model of expander to avoid damage to the bodies and kept closed by a cursor clamp device that is turned on and off with a simple thumb action. The edge thickness of the clutching mechanism 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>	<b>A0620-08/09/11/13/15</b> <b>A2620-07/10/12</b>
	<b>P0630-00</b>	<b>A0631-08/10/12</b>
	<b>P0621-00</b>	<b>A0621-08/11</b> <b>A1621-08/11/13</b>
	<b>P0625-09</b>	<b>A0625-09</b>
	<b>P0625-07</b>	<b>A0625-07</b>



### 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**



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



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



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



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 ¼ turn)



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



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



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

\*PATENTED












EXPANDER FOR LOWER ARCH

Pack of 1




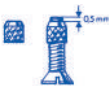











Key with safety ring leash included in the package

ARM LENGTH  
68 MM

					activation turns for maximum expansion limit		
7,5 mm	4 mm	arms 1,5 mm	body				
			A0623-08	12 mm	8 mm	0,8 mm	35
			A0623-11	16 mm	11 mm	0,8 mm	50

STAINLESS STEEL MICRO SPRING SCREWS



					mm	pkg.	pkg.
	1	Micro spring screw		4	A0650-04	A0650-95	100
	4	Micro spring screw		6	A0650-06	A0650-96	
	2	Micro spring screw		8	A0650-08	A0650-97	
	5	Positioning screw		12	A0653-12		
	3	Serrated housing nut		3	A0654-03		100
	6	Solderable plain sleeve		3	A0655-03		
		One-tooth screw with round edge		6	A0665-06	A0665-95	100
		One-tooth screw with round edge		9	A0665-09	A0665-96	
		Micro screw		6	A0660-06	A0660-95	

A0668-95  
MICRO SPRING SCREW KIT

Including 15 micro spring screws, 10 housing nuts, 15 positioning screws, reamer and screwdriver



RAPID MOLAR  
DISTALIZER

A1730-91  
1 case

A1730-99  
10 cases












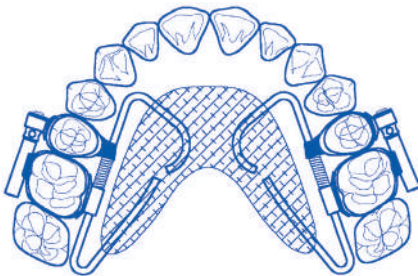
Key with safety ring leash  
included in the package

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 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.

REFILLS FOR FIRST CLASS LEONE

Pack of 10

content of 1 case kit			
Male screws		A1730-01	2
Threaded tubes		A1730-02	2
MIM® vestibular tubes		A1730-03	2
MIM® palatal tubes		A1730-04	2
MIM® vestibular tubes, high		A1730-05	2
Fixing rings		A1730-06	4
Palatal wires		A1730-07	2
Keys		A1730-08	1
MEMORIA® springs		A1730-09	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

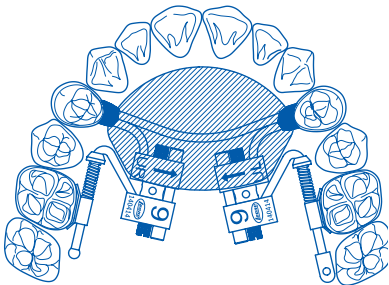


Key with safety ring leash included in the package

REFILL FOR FAST BACK LEONE

		activation turns for maximum expansion limit		pkg.
Distalizer 9 mm UR		40	0,8 mm	<b>A1760-09</b>
Distalizer 9 mm UL				<b>A1761-09</b>
MIM® 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>
MEMORIA® coil spring 200 g				<b>A1763-02</b>
MEMORIA® coil spring 300 g				<b>A1763-03</b>
Keys				<b>A1763-04</b>

pack of  
10

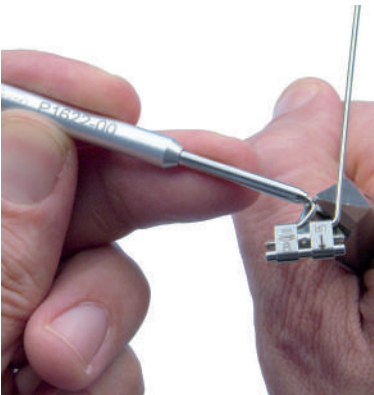


FAST BACK LEONE  
DISTALIZER



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 in 200 g and 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.



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




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

Ideal to bend the expander arms with ease and precision.



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

Stainless steel. Pre-bent at 45°. Piegate a 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



**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**

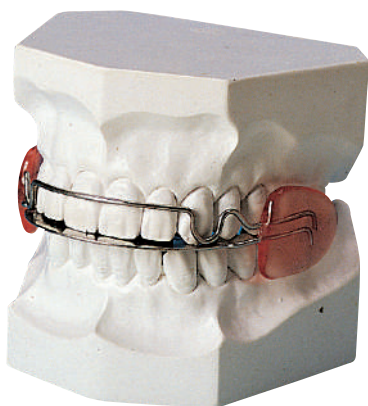
For micro spring screws.  
Tip: 1,5 mm.



**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** Ø .045"  
**A0761-51** Ø .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.



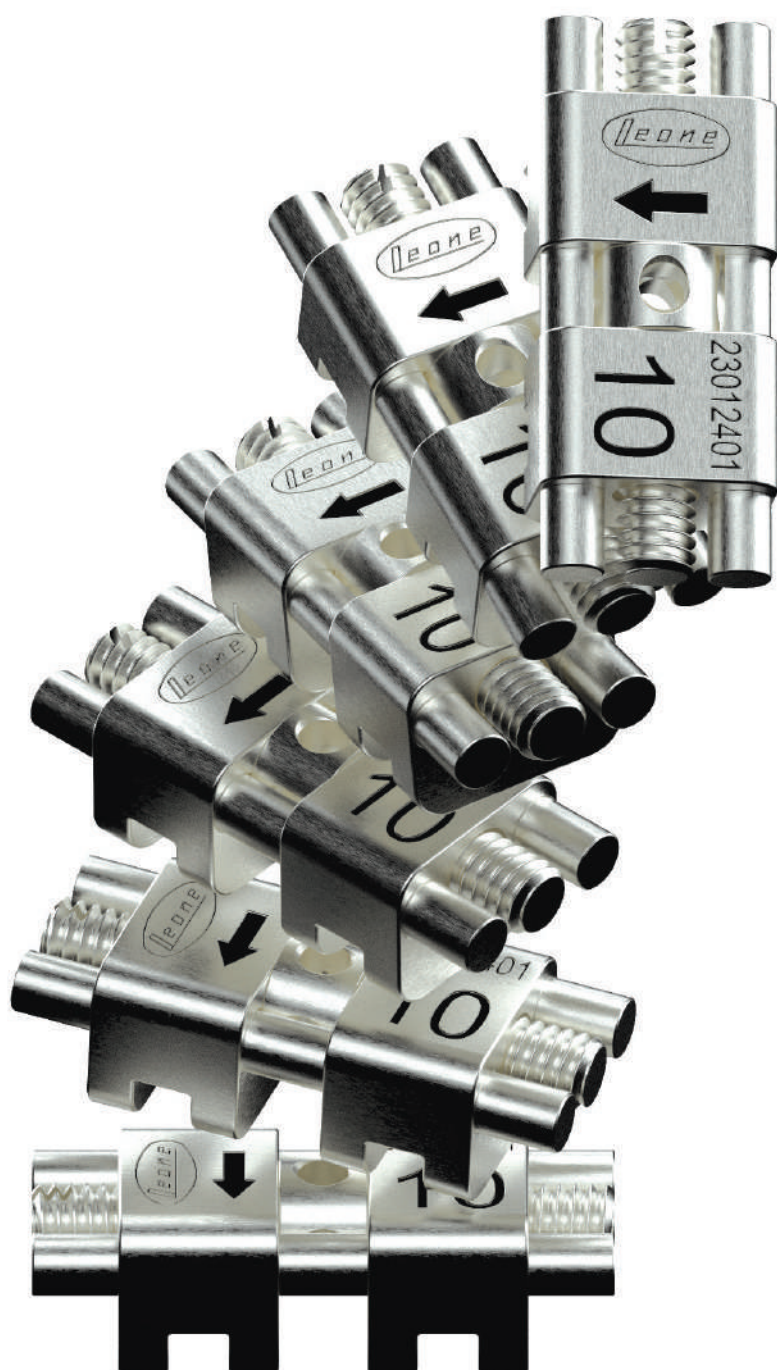
**A0595-10  
ANATOMICAL  
BITE PLANE**  
Soft, 0,5 mm.



**A0722-00  
DOUBLE  
BITE PLANE**



# DIGITAL WORKFLOW DEVICES



**A**





PATENTED

FIRST RPE SCREW  
DESIGNED FOR A FULLY  
DIGITAL WORKFLOW



RPE FULLY  
DIGITAL DESIGNED

CAD-CAM anatomical expander allows the manufacturing of totally customized appliances with dental anchorage, hybrid (teeth and TADs) and bone borne in a full digital workflow, by using **3DLEONE 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 anatomical expander body 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



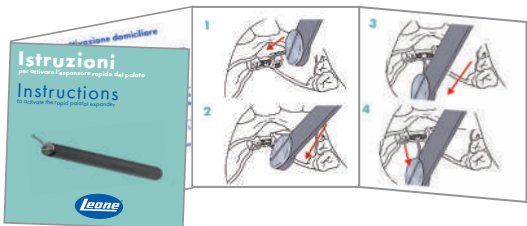
THE STRONGEST RPE

CAD-CAM anatomical expander is 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 anatomical expander, 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



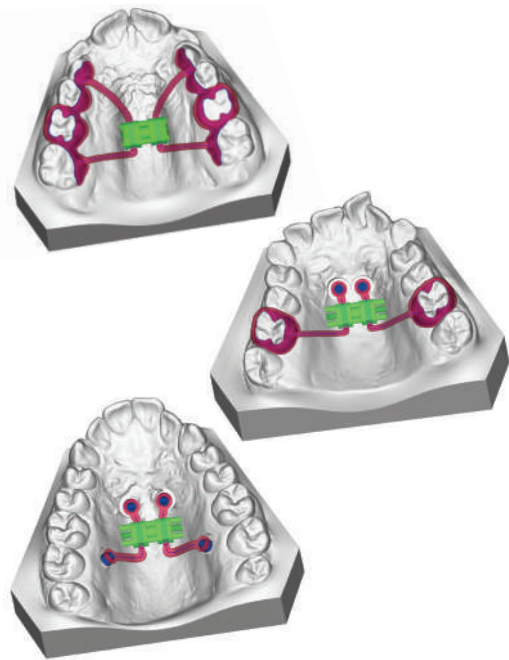
CAD-CAM ANATOMICAL EXPANDER  
OPTIMIZED FOR SKELETAL ANCHORAGE ON TADs













The CAD-CAM anatomical expander, with a design like the expander with orthogonal arms, is optimized for this particular use: instead of arms, it includes 2 longitudinal square slots in the bodies that allow perfect laser welding with the digitally designed and sintered structure. The small size of the body, the unique self-centring guide system, and the use of biomedical steel with superior resistance for guides and male screw, allow optimal positioning of the expander even in cases of severe contraction, favouring biomechanical control of expansion even in MARPE therapies on adult patients. It is possible to digitally design hybrid expanders, with both dental and skeletal anchorage, or entirely skeletal anchorage on TADs. The expansion capacity, expressed in mm, the arrow indicating the activation direction, and the lot number are laser-marked on the body.

- Package includes:
- 1 stainless steel key
  - 1 hinged enhanced-key with handle
  - Instructions for the patient for at-home endoral activation
- Packs of 1



.Stl file available on the website [www.leone.it](http://www.leone.it) and included in the library of 3DLEONE DESIGNER software



							activation turns
6 mm front view	4,5 mm back view			body			for maximum expansion limit
		<b>A0630-08D</b>	1,5x1,5mm	12 mm	8 mm	0,8 mm	40
		<b>A0630-10D</b>	1,5x1,5mm	14 mm	10 mm	0,8 mm	50
		<b>A0630-12D</b>	1,5x1,5mm	16 mm	12 mm	0,8 mm	60

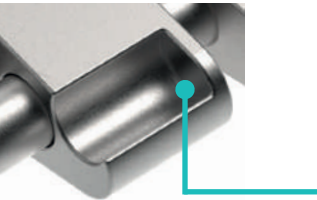


PATENTED

NEW EXPANDERS  
DESIGNED FOR TOOTH BORNE  
APPLIANCES

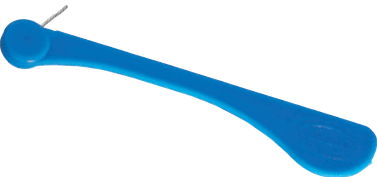


Leone's CAD-CAM Tooth Borne expander series broadens the Leone expander CAD-CAM range. The most popular and used Leone expanders has been optimized to be included in a fully digital workflow to manufacture expansion appliances with dental anchorage. The CAD-CAM Tooth Borne expanders are made of stainless steel and manufactured according to the high-quality Leone standards. They feature transversal housings to be coupled with the digital designed and sintered framework, instead of the arms as the classic models.



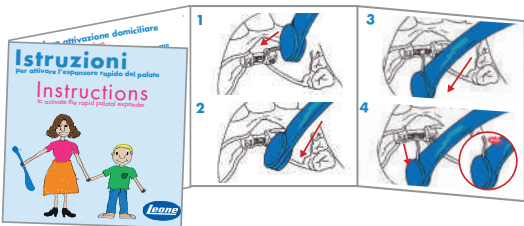
EMBEDDED SLOTS

The Tooth Borne CAD-CAM expanders bodies feature slots embedded in the body profile that allow a correct oriented coupling of digitally designed customized laser melted framework. This feature guarantees a high reliability of the device throughout the therapy.



SWIVEL KEY

Each expander comes with the classic blue swivel key. Also available with activation turn counter



INSTRUCTIONS FOR USE OF EXPANDERS  
USEFUL FOR PARENTS AND CLINICIANS



NEW

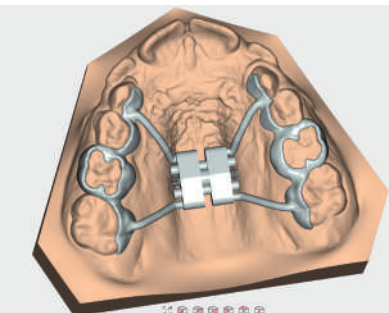
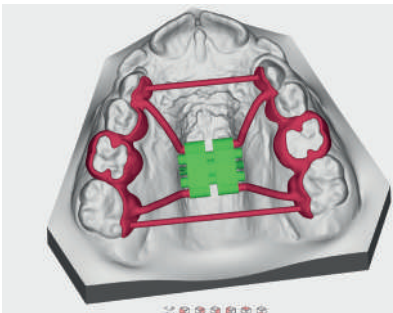
**RAPID EXPANDER  
TOOTH BORNE**

















The CAD-CAM Rapid Expander Tooth Borne screw is the optimized CAD-CAM version of the Leone's best seller expander: instead of the arms, it has four transversal housings with an ending stop on the bodies that allow a perfect oriented coupling with the digitally designed and SLM manufactured framework, thus assuring an optimal laser welding process. It is recommended for the utilization on tooth borne appliances. This series of expanders keeps all the features and sizes of our worldwide famous expander, allowing doctors to smoothly switch to digital manufactured RPEs. Expansion capacity in mm, directional arrow and lot number are laser marked on the body of the screw.

- Supplied with:
- 1 stainless steel key (to be used only inside the lab)
  - 1 blue swivel key with handle
  - Instructions for the patient for at-home endoral activation
- Pack of 1**

.Stl file available on the website [www.leone.it](http://www.leone.it) and included in the library of **3DLEONE DESIGNER** software



 11 mm front view	 4 mm back view			 body			activation turns for maximum expansion limit
		<b>A0620D08</b>	2 mm	12 mm	8 mm	0,8 mm	35
		<b>A0620D09</b>	2 mm	14 mm	9 mm	0,8 mm	40
		<b>A0620D11</b>	2 mm	16 mm	11 mm	0,8 mm	50
		<b>A0620D13</b>	2 mm	18 mm	13 mm	0,8 mm	60



NEW

**EASY ACCESS MICRO EXPANDER  
TOOTH BORNE**

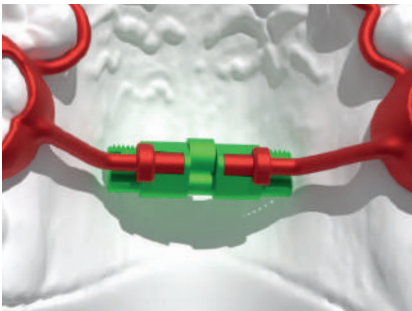
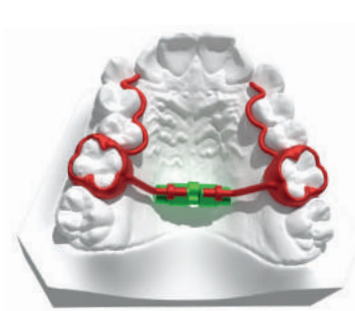


This expander is the optimized CAD-CAM version of the Stealth Easy Access. Instead of the arms, it has two transversal housings with an ending stop on the bodies that allow a perfect oriented coupling with the digitally designed and SLM manufactured framework, thus assuring an optimal laser welding process.

Thanks to the more visible screw holed-head, the micro expander A1621D allows an easier intraoral activation with the swivel key. It is recommended for dental anchored expanders. This series of expander keeps all the features and sizes of our classic worldwide famous expander, allowing doctors to smoothly switch to digital manufactured RPEs. Expansion capacity in mm, directional arrow and lot number are laser marked on the body of the screw.

- Supplied with:
- 1 stainless steel key (to be used only inside the lab)
  - 1 swivel key with handle
  - Instructions for the patient for at-home endoral activation
- Pack of 1**

.Stl file available on the website [www.leone.it](http://www.leone.it) and included in the library of **3DLEONE DESIGNER** software



 4,95 mm front view	 4,05 mm back view		 body		 activation turns for maximum expansion limit		
		<b>A1621-08D</b>	2 mm	12 mm	8 mm	0,8 mm	35
		<b>A1621-11D</b>	2 mm	16 mm	11 mm	0,8 mm	50
		<b>A1621-13D</b>	2 mm	18 mm	13 mm	0,8 mm	60

NEW

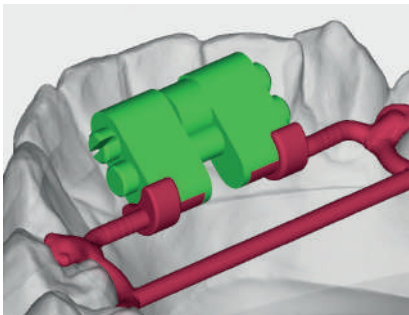
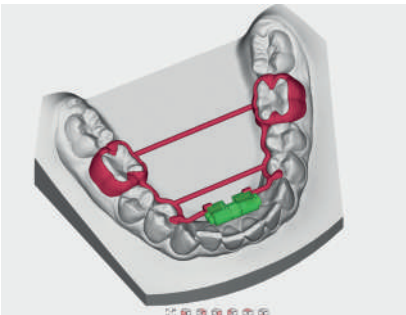
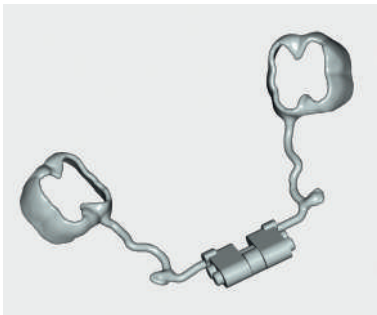






**EXPANDER LOWER ARCH  
TOOTH BORNE**

The CAD-CAM expander for lower arch Tooth Borne is the optimized CAD-CAM version of the Torko lower screw. Instead of the arms, it has two transversal housings with an ending stop on the bodies that allow a perfect oriented coupling with the digitally designed and SLM manufactured framework, thus assuring an optimal laser welding process. The main characteristics are the same of the classic A0623 expanders, featuring a flat profile that reduces the overall bulkiness, particularly important since it is recommended for the use on lower jaw tooth borne appliances. Expansion capacity in mm, directional arrow and lot number are laser marked on the body of the screw.

- Supplied with:
- 1 stainless steel key (to be used only inside the lab)
  - 1 key with safety ring leash
  - Instructions for the patient for at-home endoral activation
- Pack of 1**

.Stl file available on the website [www.leone.it](http://www.leone.it) and included in the library of **3DLEONE DESIGNER** software



 7,5 mm front view	 4 mm back view		 body			activation turns for maximum expansion limit	
		<b>A0623-08D</b>	2 mm	12 mm	8 mm	0,8 mm	35
		<b>A0623-11D</b>	2 mm	16 mm	11 mm	0,8 mm	50

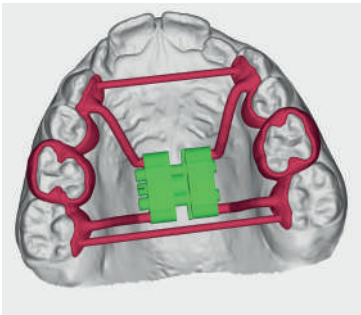
NEW







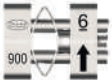





**LEAF EXPANDER  
TOOTH BORNE**

The CAD-CAM Leaf Expander is a spring loaded expander that, along with the male screw, has two or three MEMORIA Ni-Ti leaf springs that allow the release of calibrated and continuous forces to promote the expansion of the maxillary arch. It is a device optimized for the CAD-CAM procedure, instead of the arms it has four transversal rounded slots on the bodies that allow a correct oriented coupling for the welding of digitally designed customized laser melted framework. The main features are the same as the standard Leaf expander series. It is recommended for the utilization on tooth borne appliances. This expander series keeps the efficiency of the classic expander while looking towards the future.

- Supplied with:
- 1 stainless steel key (to be used only inside the lab)
  - 1 swivel key with handle
- Pack of 1**

.Stl file available on the website [www.leone.it](http://www.leone.it) and included in the library of **3DLEONE DESIGNER** software



 11 mm front view		 4 mm back view	 body				 activation turns for maximum expansion limit
		<b>A2703-06D</b> 2 springs 450 g approx.	2 mm	12 mm	6 mm	0,4 mm	30
		<b>A2704-06D</b> 2 springs 900 g approx.					
		<b>A2703-09D</b> 3 springs 450 g approx.	2 mm	16 mm	9 mm	0,4 mm	45
		<b>A2704-09D</b> 3 springs 900 g approx.					

EXPANDER ACTIVATION GUIDELINES		LEAF EXPANDER cementation	FIRST visit		SECOND visit		THIRD visit	
6 mm	<b>A2703-06D</b> <b>A2704-06D</b>	spring activation 0 turns	after 6 weeks	10 turns	after 4 weeks	10 turns	after 4 weeks	10 turns
9 mm	<b>A2703-09D</b> <b>A2704-09D</b>	spring activation 0 turns	after 8 weeks	15 turns	after 6 weeks	15 turns	after 6 weeks	15 turns

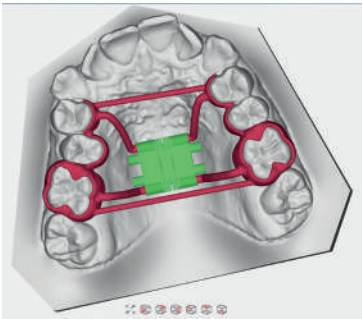
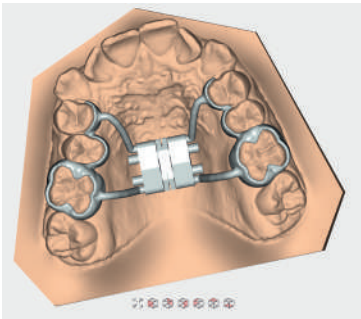
NEW









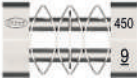
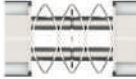
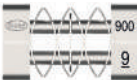
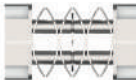
**LEAF SELF EXPANDER  
TOOTH BORNE**

Leaf Self Expander is a spring loaded expander equipped with four or six MEMORIA Ni-Ti leaf springs that allow the release of calibrated and continuous forces to promote the expansion of the maxillary arch. It is a device optimized for the CAD-CAM procedure: instead of the arms it has four transversal rounded slots on the bodies that allow a correct oriented coupling for the welding of digitally designed customized laser melted framework. The main features are the same as the standard Leaf expander series. It is recommended for the utilization on tooth borne appliances. This expander series keeps the efficiency of the classic expander while looking towards the future.

**Pack of 1**

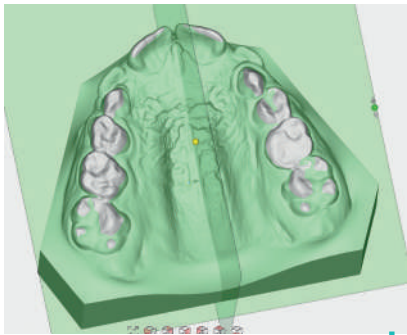
.Stl file available on the website **www.leone.it** and included in the library of **3DLEONE DESIGNER** software



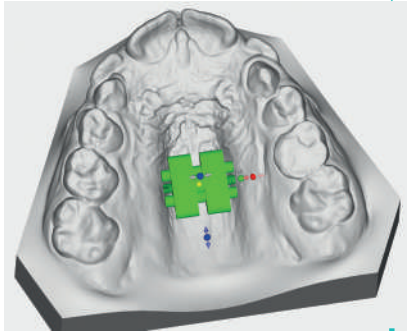
 11 mm front view	 4 mm back view		 body	
 450 6	 450 6	<b>A2705-06D</b> 4 springs 450 g approx.	2 mm	11 mm
 900 6	 900 6	<b>A2706-06D</b> 4 springs 900 g approx.		
 450 9	 450 9	<b>A2705-09D</b> 6 springs 450 g approx.	2 mm	15 mm
 900 9	 900 9	<b>A2706-09D</b> 6 springs 900 g approx.		



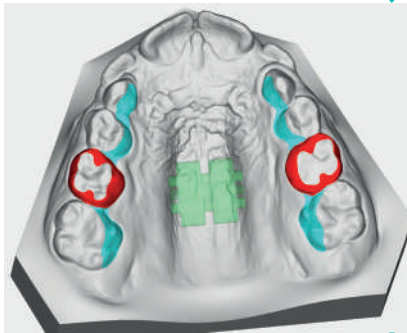
MODELS  
ORIENTATION



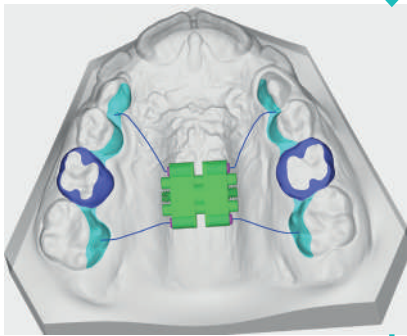
SCREW POSITION  
DEFINITION



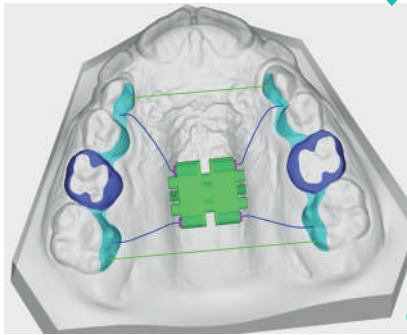
BANDS  
DEFINITION



ARMS  
DEFINITION



SUPPORT  
DEFINITION



**3DLEONE DESIGNER  
SOFTWARE**

**3DLEONE 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 requests, Leone has made out an innovative and intuitive software that allows to design, not only bands and supports, but also the expander arms, and can automatically place the expander also in the right position, in very short time and independently from the digital skills.

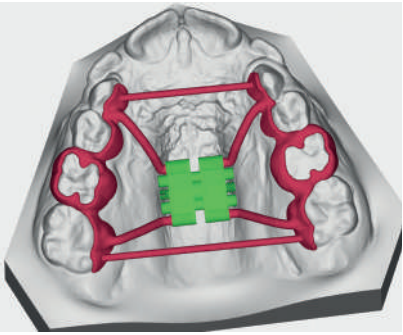
**3DLEONE DESIGNER** software allows to upload and manage the .STL files of both upper and lower arches, obtained from a laboratory scanner or directly from an intra-oral scanner, and it has already in library all the range of Leone's CAD-CAM expanders available.

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

FOR FURTHER INFORMATION  
ON **3DLEONE DESIGNER**  
SOFTWARE VISIT WEB SITE **3DLEONE.IT**



REVIEW &  
EXPORT





# ANTISNORING APPLIANCES

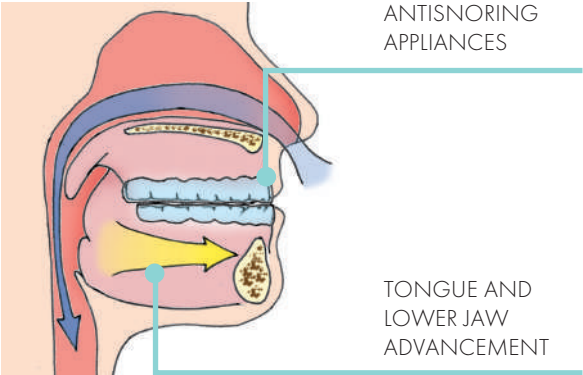


**A**



M.A.D.  
SERIES LEONE

These intraoral nighttime appliances can treat snoring by acting directly on the mechanism which is the main cause of it, by pushing the lower jaw forward. Mandibular repositioning pushes forward the tongue and the epiglottis, spacing them from the uvula, thus solving the soft tissues vibration during the airflow, which creates the snoring 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. All over the world there are many different types 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 with 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!  
MAX RETENTION\*

TELESCOPIC ADVANCER PLUGS AND TUBE APPLIANCES

TELESCOPIC  
ADVANCER\*



TELESCOPIC  
ADVANCER DUAL\*

\*PATENTED

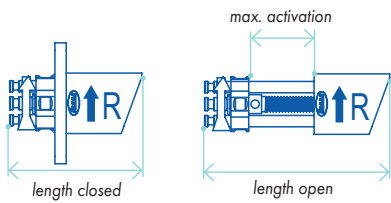




**FORWARD!**  
**ANTISNORING KIT**

**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 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



**FORWARD! MAX RETENTION**  
**ANTISNORING KIT**

**A5310-07**  
1 appliance

**A5310-17**  
10 appliances

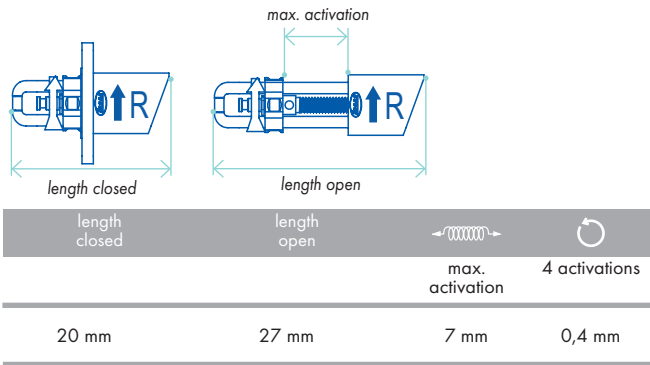
This kit is specially engineered for the realization of an antisnoring bi-maxillary Dorsal type appliance and this version is featured by a higher retention capacity of the upper screws in the acrylic splint, thanks to the distal "U" bent guide.

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 kit for the construction of 10 appliances is available.



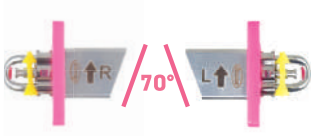
**REFILLS FOR FORWARD! MAX RETENTION**

**A5301-00**  
Lower wings  
with inner steel frame



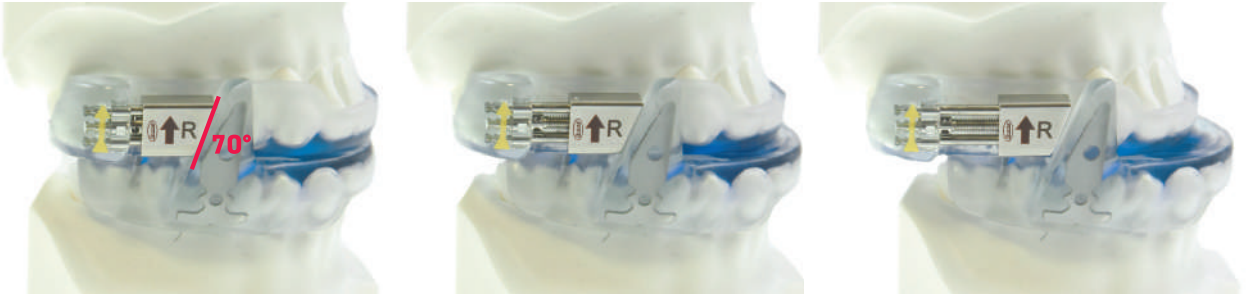
**Pack content:**  
- 1 left lower wing with steel frame  
- 1 right lower wing with steel frame

**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

**A5100-17**  
10 MEDIUM appliances


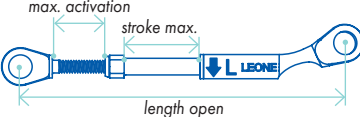

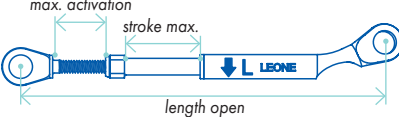
**A5200-07**  
1 LONG appliance

**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
 length closed					
 length open					
<b>MEDIUM Telescopic arm</b>	26 mm	43 mm	10 mm	7 mm	0,4 mm
 length closed					
 length open					
<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

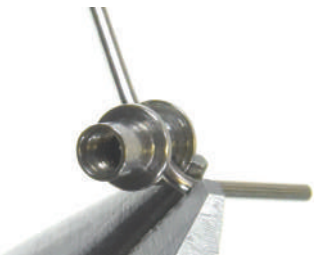


**P1515-00**  
FAN-TYPE  
HAND WRENCH

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.



TELESCOPIC ADVANCER DUAL  
ANTISNORING KIT

A5120-07

1 MEDIUM appliance



A5120-17

10 MEDIUM appliances

A5220-07

1 LONG appliance



A5220-17

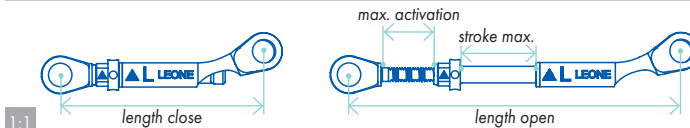
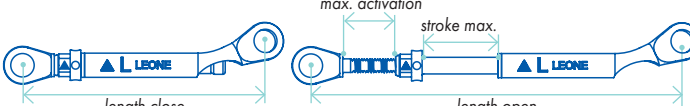
10 LONG appliances

This kit is specially engineered for the construction of an antisnoring 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
 1:1 Telescopic Arm Dual MEDIUM	26 mm	43 mm	10 mm	7 mm	0,4 mm
 Telescopic Arm Dual LONG	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



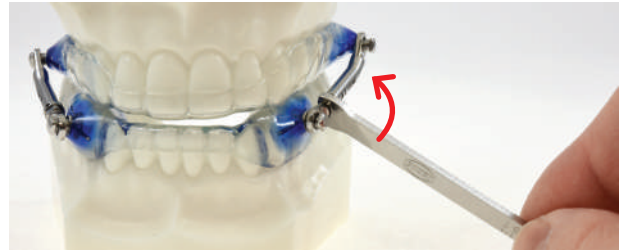
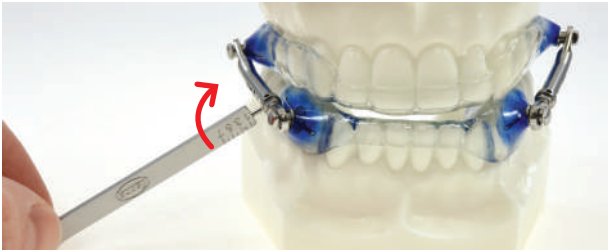
Pack content:

- 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



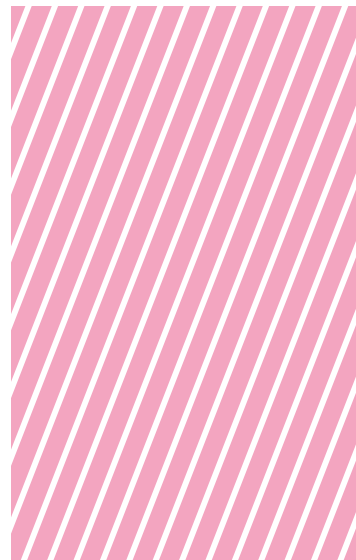
SMALL	LARGE	pkg.	colour	SMALL	LARGE	pkg.
A3038-00	A3039-00	10	white	A3038-93	A3039-93	200
A3038-00S	A3039-00S		pink	A3038-93S	A3039-93S	
A3038-00G	A3039-00G		yellow	A3038-93G	A3039-93G	
A3038-00A	A3039-00A		blue	A3038-93A	A3039-93A	
	A3039-00F		fluorescent		A3039-93F	
A3038-00V	A3039-00V		green	A3038-93V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

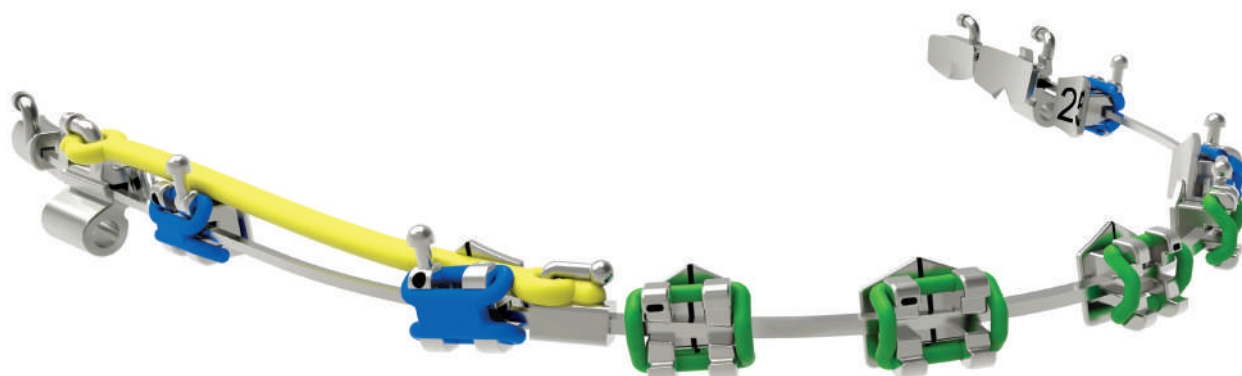


# WIRE AND WIRE FORM



**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.

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 ≤ 0,05% are due to the pro-  
cess of manufacturing*



STANDARD SPOOL

Ø		LEOWIRE® spring hard	BIOSTEEL® spring hard	
mm	inch	1800/2000 N/mm²	1800/2000 N/mm²	m
0,5	.020	C0400-05		50
0,6	.024	C0400-06	C0401-06	40
0,7	.028	C0400-07	C0401-07	25
0,8	.032	C0400-08	C0401-08	20
0,9	.036	C0400-09	C0401-09	10
1,0	.040	C0400-10	C0401-10	10
1,1	.044	C0400-11		10
1,2	.048	C0400-12		10
1,3	.052	C0400-13		10
1,4	.055	C0400-14		8

LABORATORY ROLL

LEOWIRE® spring hard	BIOSTEEL® spring hard		
1800/2000 N/mm²	1800/2000 N/mm²	m	g
C0450-05		306	500
C0450-06	C0451-06	225	
C0450-07	C0451-07	165	
C0450-08	C0451-08	125	
C0450-09	C0451-09	100	
C0450-10	C0451-10	80	
C0450-11		70	
C0450-12		53	
C0450-13		45	
C0450-14		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.



Ø		hard heat-treatable		pkg.	
mm	inch	1350/1500 N/mm²	m	g	
0,6	.024	C0410-06	30	70	
0,7	.028	C0410-07	22		
0,8	.032	C0410-08	17		
0,9	.036	C0410-09	13		
1,0	.040	C0410-10	11		
1,1	.044	C0410-11	9		
1,2	.048	C0410-12	8		
1,3	.052	C0410-13	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/mm²	1800/2000 N/mm²	2200/2400 N/mm²	
.014	C8080-14	C8180-14	C8380-14	20 wires
.016	C8080-16	C8180-16	C8380-16	
.018	C8080-18	C8180-18	C8380-18	
.020	C8080-20	C8180-20	C8380-20	
.032	C8080-32			
.036	C8080-36			
.040	C8080-40			
.045	C8080-45			
.051	C8080-51			



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/mm²	2200/2400 N/mm²	
.016x.016	C8016-16	C8116-16	10 wires
.016x.022	C8022-16	C8122-16	
.017x.017	C8017-17	C8117-17	
.017x.022	C8022-17	C8122-17	
.017x.025	C8025-17	C8125-17	
.018x.022	C8022-18		
.018x.025	C8025-18	C8125-18	
.019x.025	C8025-19	C8125-19	
.020x.025	C8025-20		
.021x.025	C8025-21	C8125-21	
.0215x.028	C8028-21	C8128-21	







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

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.  
Package: 8m spools

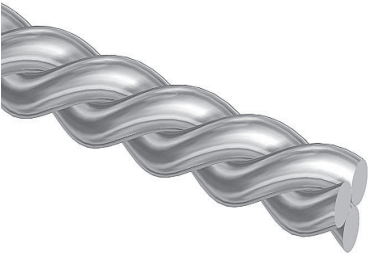
Ø	extra spring hard	super hard heat-treated
inch	2200/2400 N/mm <sup>2</sup>	2500/2700 N/mm <sup>2</sup>
.012	C0420-12	
.014	C0420-14	C0430-14
.016	C0420-16	C0430-16
.018	C0420-18	C0430-18
.020	C0420-20	C0430-20



“AUSTRALIAN” ARCHWIRES SPECIAL PLUS

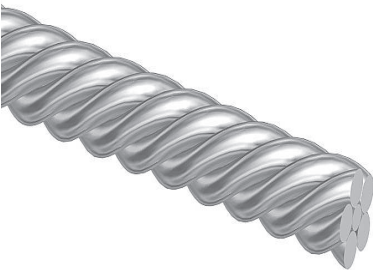
Pack of 10

medium upper	inch	medium lower
C2010-16	.016	C2050-16
C2010-20	.020	C2050-20



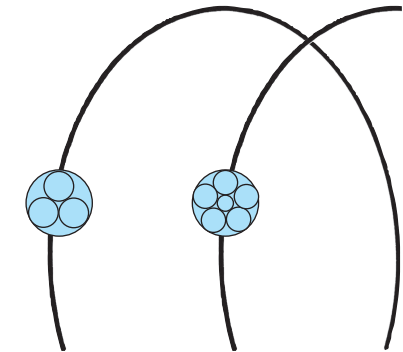
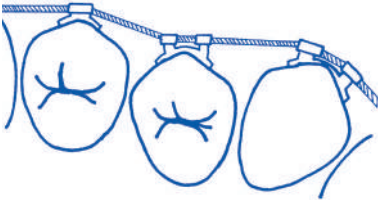
STRAIGHT TWIST WIRE

Ø		
inch		pkg.
.015	C8580-15	10 wires
.0175	C8580-17	
.0195	C8580-19	
.0215	C8580-21	



STRAIGHT FLEX WIRE

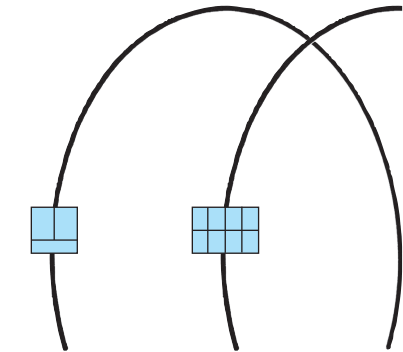
Ø		
inch		pkg.
.015	C8880-15	10 wires
.0175	C8880-17	
.0195	C8880-19	



ROUND PREFORMED TWIST AND FLEX ARCHWIRES

twist		
Ø		
inch		pkg.
.0155	C5540-15	10
.0175	C5540-17	

flex		
Ø		
inch		pkg.
.0155	C5440-15	10
.0175	C5440-17	



RECTANGULAR PREFORMED TWIST ARCHWIRES

twist 3 wires		
Ø		
inch		pkg.
.016x.016	C5541-16	10
.016x.022	C5542-16	

twist 8 wires		
Ø		
inch		pkg.
.017x.025	C5745-17	10
.018x.025	C5745-18	



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	
C5110-12	.012	C5150-12
C5110-14	.014	C5150-14
C5110-16	.016	C5150-16
C5110-18	.018	C5150-18
C5110-20	.020	C5150-20

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

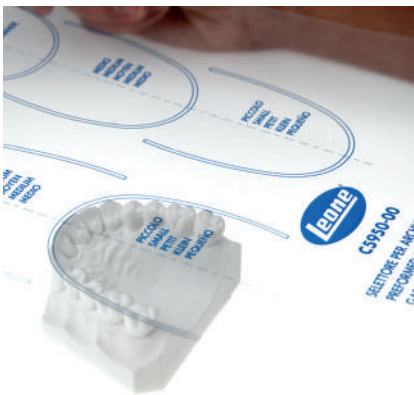
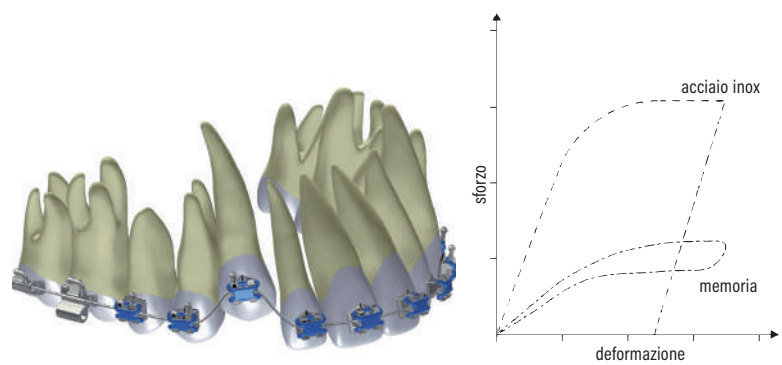


ROUND AND RECTANGULAR PREFORMED ARCHWIRES

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




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.



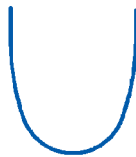
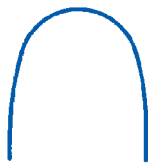
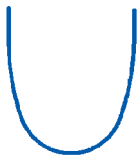
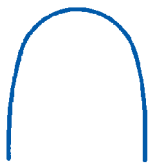
Ø	small		medium		large		
inch	upper	lower	upper	lower	upper	lower	conf.
.012			C5910-12	C5950-12			10
.014	C5913-14	C5953-14	C5910-14	C5950-14	C5916-14	C5956-14	
.016	C5913-16	C5953-16	C5910-16	C5950-16	C5916-16	C5956-16	
.018	C5913-18	C5953-18	C5910-18	C5950-18	C5916-18	C5956-18	
.020			C5910-20	C5950-20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

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



**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.



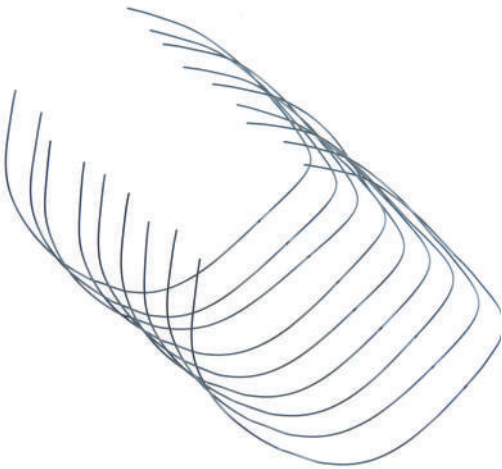
medium upper	Ø	medium lower	
	inch		pkg.
C5910V12	.012	C5950V12	10
C5910V14	.014	C5950V14	
C5910V16	.016	C5950V16	
C5910V18	.018	C5950V18	

medium upper	Ø	medium lower	
	inch		pkg.
C5911V16	.016x.016	C5951V16	10
C5912V16	.016x.022	C5952V16	
C5912V17	.017x.025	C5955V17	
C5915V18	.018x.025	C5955V18	

**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	Ø	lower
	inch	
C6910-16	.016	C6950-16
C6910-18	.018	C6950-18

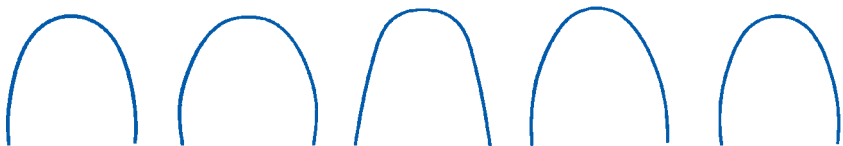
upper	Ø	lower
	inch	
C6912-16	.016x.022	C6952-16
C6912-17	.017x.025	C6952-17
C6912-19	.019x.025	C6952-19





**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.



Ø	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.



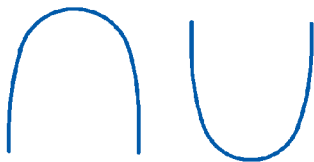
**THERMOMEMORIA®  
ARCHWIRES**

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

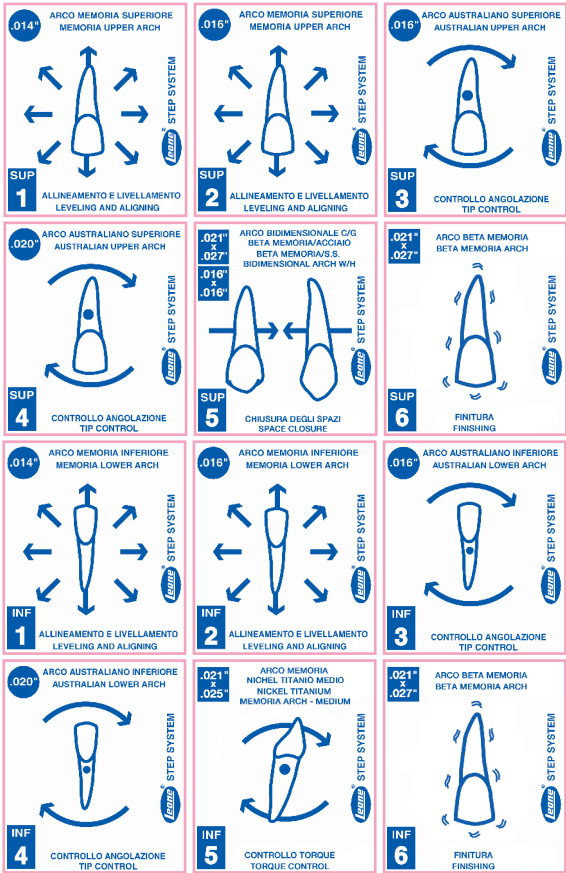


upper lower

**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.





**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.

**BETA MEMORIA®  
ARCHWIRES**

	upper	∅ inch	lower	pkg.
medium	C7110-16	.016	C7150-16	10
	C7110-18	.018	C7150-18	

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

**BETA MEMORIA®  
STRAIGHT ROUND WIRE**

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



**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.

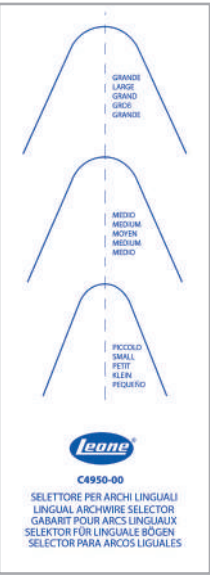
Pack of 2

**MEMORIA® LINGUAL ARCHWIRES**

∅ inch	small	medium	large
.012	C4950-12	C4951-12	C4952-12
.014	C4950-14	C4951-14	C4952-14

**BETA MEMORIA® LINGUAL ARCHWIRES**

.016	C4970-16	C4971-16	C4972-16
------	----------	----------	----------



**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.



upper	∅ inch	lower
<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	∅ inch	lower
<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



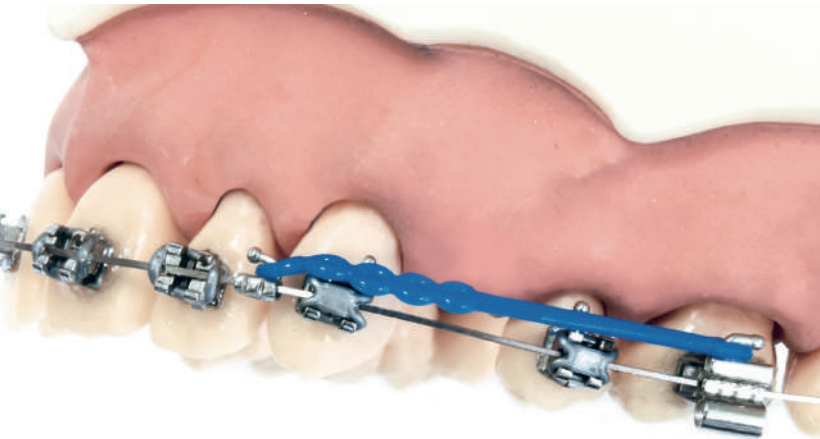
BI-DIMENSIONAL  
ARCHWIRES  
BETA MEMORIA®/STAINLESS  
STEEL WITH HOOK

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	
C7110-34	34	.019x.025 / .016x.016	C7150-24	24	
C7110-36	36		C7150-26	26	
C7111-34	34	.021x.027 / .016x.016	C7151-24	24	
C7111-36	36		C7151-26	26	

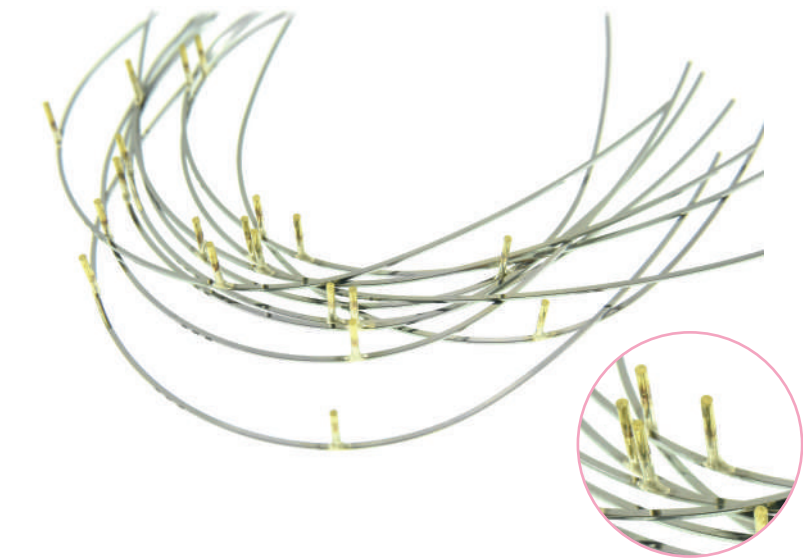
ARCHWIRES WITH HOOKS

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

Pack of 10

upper		lower	
mm		mm	
34	C3112-34	24	C3152-24
36	C3112-36	26	C3152-26
38	C3112-38	28	C3152-28
40	C3112-40	30	C3152-30
42	C3112-42		

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





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	C1230-00
medium	200	C1230-01
heavy	250	C1230-02



MEMORIA®  
OPEN COIL SPRINGS

Pack of 2 springs, 18 cm long

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



MEMORIA®  
CLOSED COIL SPRING  
WITH WOUND ENDS  
AND LIGATURE WIRE

	g	pkg.
light	150	C1231-00
medium	200	C1231-01
heavy	250	C1231-02



C1230-95  
MEMORIA®  
COIL SPRING KIT

For crimping of surgical hooks use plier P1911-00.

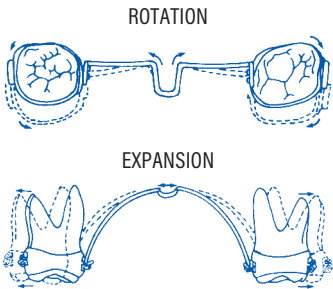
Pack content:

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	C0570-34	5
36	C0570-36	
38	C0570-38	
40	C0570-40	
42	C0570-42	
44	C0570-44	
46	C0570-46	
48	C0570-48	
50	C0570-50	
52	C0570-52	

C0570-96  
PALATAL BAR KIT

Assorted kit of 50

REVERSE LOOP PALATAL BAR

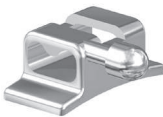
		
mm		pkg.
34	C0576-34	5
36	C0576-36	
38	C0576-38	
40	C0576-40	
42	C0576-42	
44	C0576-44	
46	C0576-46	
48	C0576-48	
50	C0576-50	
52	C0576-52	

C0576-96  
REVERSE LOOP  
PALATAL BAR KIT

Assorted kit of 50

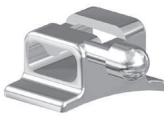
CAUTION:

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      Right  
G2846-03      Left



WITH BALL HOOK  
ROTATION -8°

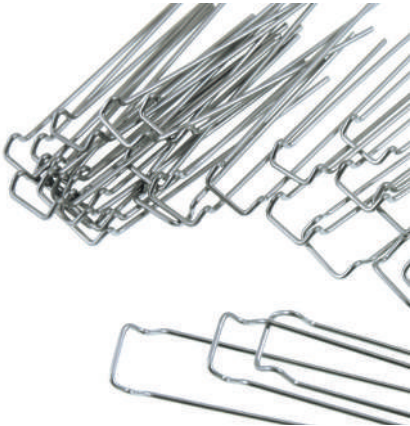
G2847-02      Right  
G2847-03      Left



BALL HOOKS

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

Ø		pkg.
mm	inch	
0,7	.028	C1610-17
0,8	.032	C1610-18
0,9	.036	C1610-19



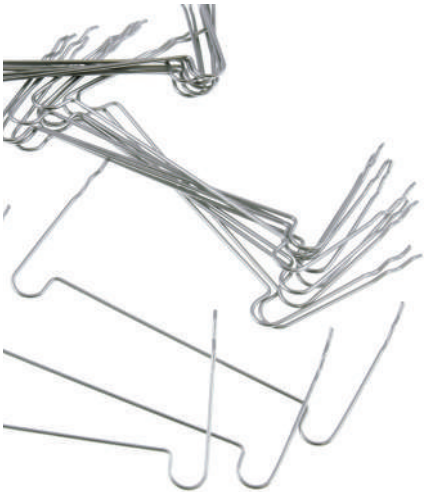
STANDARD  
ADAMS CLASPS

Spring hard stainless steel.

C0580-95  
STANDARD  
ADAMS CLASP KIT

Assorted kit of 100

Ø		pkg.
mm		
5,0		C0580-05
5,5		C0580-055
6,0		C0580-06
6,5		C0580-065
7,0	0,7 mm	C0580-07
8,0		C0580-08
9,0		C0580-09
10,0		C0580-10
11,0		C0580-11
12,0		C0580-12



STANDARD  
LABIAL ARCHES

Spring hard stainless steel.

C0585-95  
STANDARD  
LABIAL ARCH KIT

Assorted kit of 100

Ø		pkg.
mm		
25		C0585-25
28		C0585-28
31		C0585-31
34		C0585-34
37	0,8 mm	C0585-37
40		C0585-40
43		C0585-43
46		C0585-46
48		C0585-48
50		C0585-50

# BANDS



**E**



**DESIGNED TO MEET THERAPEUTIC  
NEEDS OF PEDIATRIC ORTHODONTICS  
BY ALLOWING EARLY TREATMENT OF PATIENTS  
WITH MIXED OR DECIDUOUS TEETH**

**ok** ORTHODONTICS  
FOR KIDS

**MADE OF BIOMEDICAL STEEL MEDIUM TEMPER**

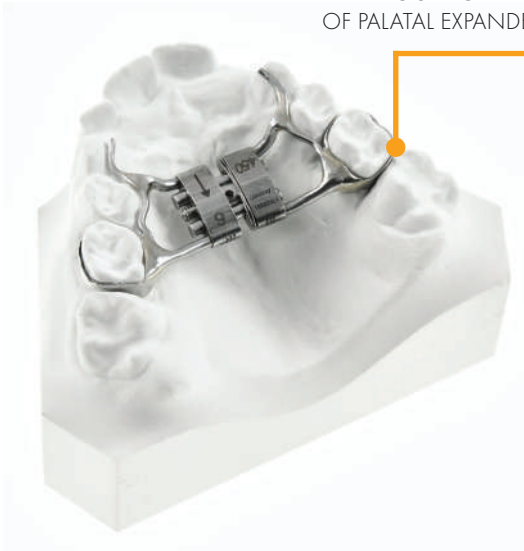
SHAPE AND HEIGHT  
DESIGNED FOR THE ANATOMY  
OF DECIDUOUS MOLARS

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



ANATOMICALLY CORRECT  
WIDE RANGE OF SIZES

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 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

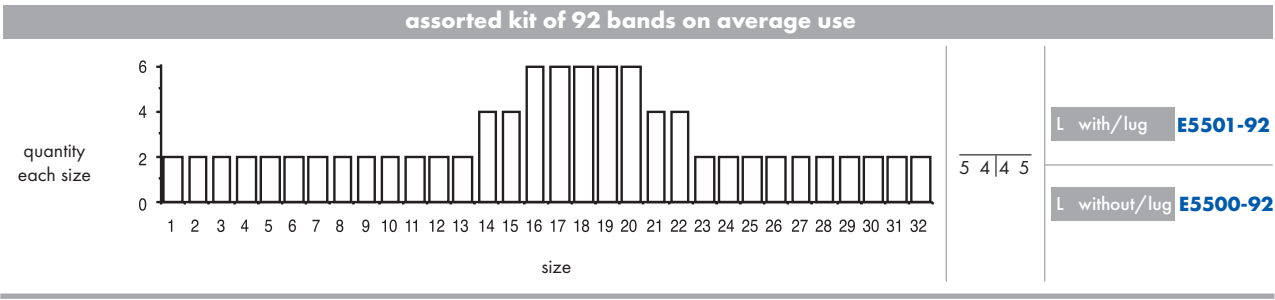
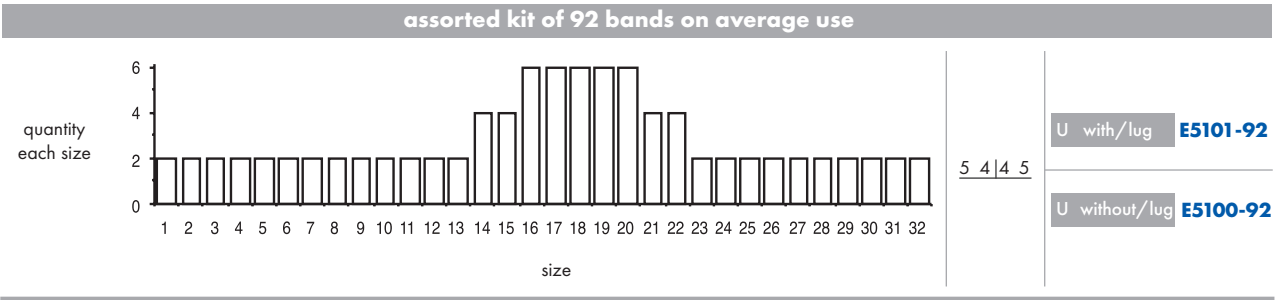
- E5151-00 Upper with lug U
- E5551-00 Lower with lug L
- E5105-00 Upper without lug U
- E5505-00 Lower without lug L

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





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

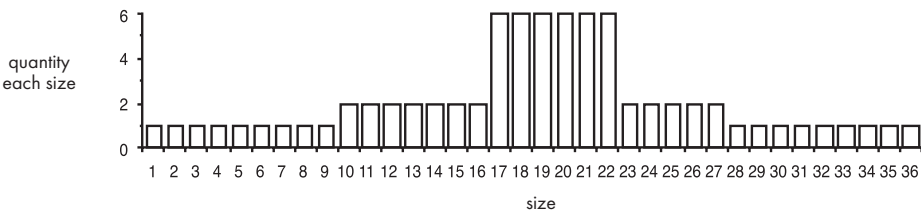
Pack of 5

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

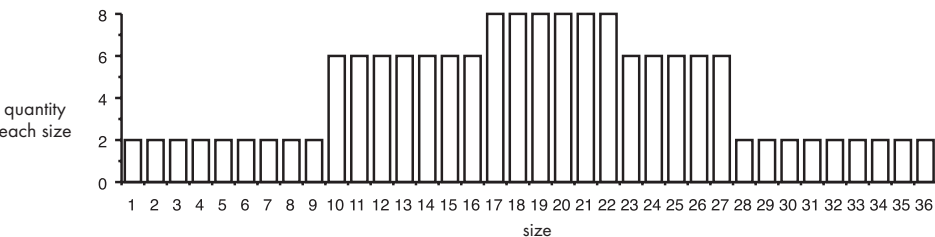
ASSORTMENTS

assorted kit of 78 bands on average use



6	UR	R	E1200-92
6	UL	L	E1300-92
6	LR	R	E1600-92
6	LL	L	E1700-92

composizione kit da 156 bande secondo uso medio



6	UR	R	E1200-94
6	UL	L	E1300-94
6	LR	R	E1600-94
6	LL	L	E1700-94

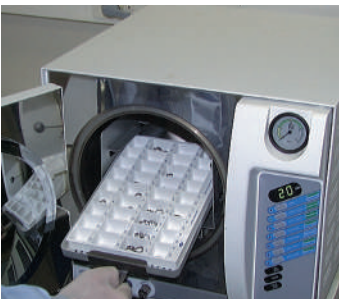


UPPER AND LOWER 2<sup>nd</sup> MOLAR BANDS

E2200-00	Upper right - SUR	Pack of 10
E2300-00	Upper left - SUL	
E2600-00	Lower right - SLR	
E2700-00	Lower left - SLL	
E2205-00	Upper right - SUR	Pack of 5
E2305-00	Upper left - SUL	
E2605-00	Lower right - SLR	
E2705-00	Lower left - SLL	

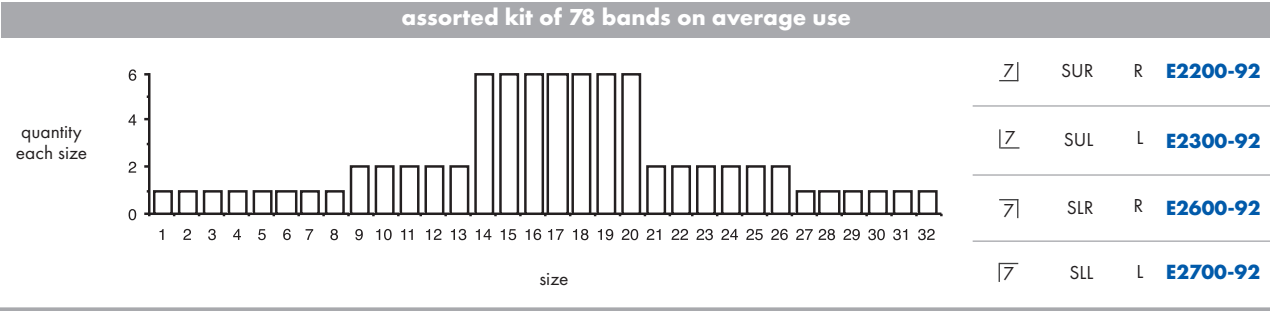
Available in 32 right sizes and 32 left sizes, either for maxillary or mandibular arch, with LASER etched identification number. The hard temper, the anatomical design, the diversified thickness and the rough inner surface finish make the band selection easy and improve cement retention.

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



All trays can be autoclaved to avoid cross infections.

ASSORTMENTS







**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
Pack of 10			Pack of 5		



**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
Pack of 10			Pack of 5		

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
Pack of 10			Pack of 5		



**ANDREWS ROTH BOSTON ALEXANDER TECHNIQUE  
LOWER**

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

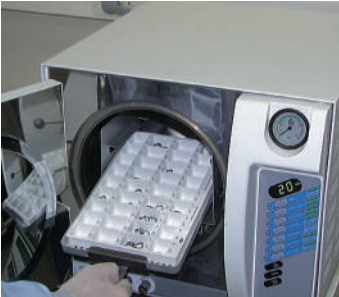
<b>E1560-00</b>	Right	LR	<b>E1565-00</b>	Right	LR
<b>E1570-00</b>	Left	LL	<b>E1575-00</b>	Left	LL
Pack of 10			Pack of 5		

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



CALIBRA® PREWELDED BANDS  
ASSORTMENTS

Prewelded **CALIBRA®** 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	
	<u>6</u>	UR	R	<b>E1420-90</b>	<b>E1520-90</b>
	<u>6</u>	UL	L	<b>E1430-90</b>	<b>E1530-90</b>
	<u>6</u>	LR	R	<b>E1460-90</b>	<b>E1560-90</b>
	<u>6</u>	LL	L	<b>E1470-90</b>	<b>E1570-90</b>

assorted kit of 78 prewelded bands					
			Edgewise	Andrews Roth Boston Alexander	
	<u>6</u>	UR	R	<b>E1420-92</b>	<b>E1520-92</b>
	<u>6</u>	UL	L	<b>E1430-92</b>	<b>E1530-92</b>
	<u>6</u>	LR	R	<b>E1460-92</b>	<b>E1560-92</b>
	<u>6</u>	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 TRENGTH.  
IDEAL FOR REP, HERBST,  
FIRST CLASS APPLIANCES



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

LASER-MARKING OF SIZES  
ALLOWS THE STERILIZATION AT HIGH TEMPERATURES  
AND A DURABLE GOOD VIEW OF SIZING



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

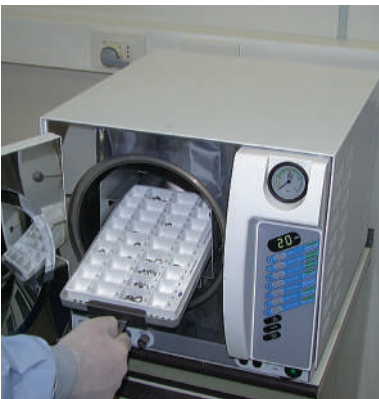
Pack of 10

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

Pack of 5

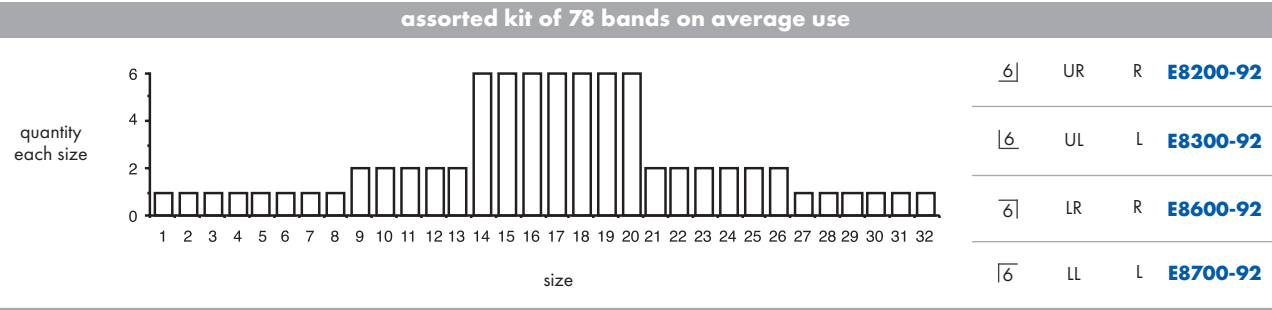
Made of biomedical stainless steel with graduated thickness upon tooth size and LASER etched identification number. Fitting anatomy, reduced height and increased retention due to the "laser etched" treatment make cementation perfect.

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



All trays can be autoclaved to avoid cross infections.

ASSORTMENTS





**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	Pack of 5
<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	Pack of 5
<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	Pack of 5
<b>E8830-00</b>	Left	UL	



**RICKETTS TECHNIQUE  
LOWER**

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

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

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



**STEP SYSTEM 2.0 TECHNIQUE  
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	Pack of 5
<b>E8930-00</b>	Left	UL	





STEP SYSTEM 2.0 TECHNIQUE  
LOWER

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

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

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	Pack of 5
E8971-00	Left	LL	

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

WEB PREWELDED BANDS - ASSORTMENTS

Prewelded **WEB** bands for Andrews, Roth, Boston, Alexander, Ricketts and **STEP** system 2.0 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							Andrews Roth Boston Alexander	Ricketts	STEP 2.0																																			
<table border="1"><caption>Bar Chart Data: Quantity of Bands per Size</caption><thead><tr><th>Size</th><th>Quantity</th></tr></thead><tbody><tr><td>9</td><td>1</td></tr><tr><td>10</td><td>1</td></tr><tr><td>11</td><td>1</td></tr><tr><td>12</td><td>1</td></tr><tr><td>13</td><td>1</td></tr><tr><td>14</td><td>2</td></tr><tr><td>15</td><td>2</td></tr><tr><td>16</td><td>2</td></tr><tr><td>17</td><td>2</td></tr><tr><td>18</td><td>2</td></tr><tr><td>19</td><td>2</td></tr><tr><td>20</td><td>2</td></tr><tr><td>21</td><td>1</td></tr><tr><td>22</td><td>1</td></tr><tr><td>23</td><td>1</td></tr><tr><td>24</td><td>1</td></tr><tr><td>25</td><td>1</td></tr><tr><td>26</td><td>1</td></tr></tbody></table>	Size	Quantity	9	1	10	1	11	1	12	1	13	1	14	2	15	2	16	2	17	2	18	2	19	2	20	2	21	1	22	1	23	1	24	1	25	1	26	1	<u>6</u>	UR	R	E8520-90	E8820-90	E8920-90
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<u>6</u>	UL	L	E8530-90	E8830-90	E8930-90																																							
<u>6</u>	LR	R	E8560-90	E8860-90	E8960-90 E8961-90																																							
<u>6</u>	LL	R	E8570-90	E8870-90	E8970-90 E8971-90																																							

assorted kit of 78 prewelded bands										Andrews Roth Boston Alexander	Ricketts	STEP 2.0																																																												
<table border="1"><caption>Band Quantity Data</caption><thead><tr><th>Size</th><th>Quantity</th></tr></thead><tbody><tr><td>1</td><td>1</td></tr><tr><td>2</td><td>1</td></tr><tr><td>3</td><td>1</td></tr><tr><td>4</td><td>1</td></tr><tr><td>5</td><td>1</td></tr><tr><td>6</td><td>1</td></tr><tr><td>7</td><td>1</td></tr><tr><td>8</td><td>1</td></tr><tr><td>9</td><td>2</td></tr><tr><td>10</td><td>2</td></tr><tr><td>11</td><td>2</td></tr><tr><td>12</td><td>2</td></tr><tr><td>13</td><td>2</td></tr><tr><td>14</td><td>6</td></tr><tr><td>15</td><td>6</td></tr><tr><td>16</td><td>6</td></tr><tr><td>17</td><td>6</td></tr><tr><td>18</td><td>6</td></tr><tr><td>19</td><td>6</td></tr><tr><td>20</td><td>6</td></tr><tr><td>21</td><td>2</td></tr><tr><td>22</td><td>2</td></tr><tr><td>23</td><td>2</td></tr><tr><td>24</td><td>2</td></tr><tr><td>25</td><td>2</td></tr><tr><td>26</td><td>2</td></tr><tr><td>27</td><td>1</td></tr><tr><td>28</td><td>1</td></tr><tr><td>29</td><td>1</td></tr><tr><td>30</td><td>1</td></tr><tr><td>31</td><td>1</td></tr><tr><td>32</td><td>1</td></tr></tbody></table>	Size	Quantity	1	1	2	1	3	1	4	1	5	1	6	1	7	1	8	1	9	2	10	2	11	2	12	2	13	2	14	6	15	6	16	6	17	6	18	6	19	6	20	6	21	2	22	2	23	2	24	2	25	2	26	2	27	1	28	1	29	1	30	1	31	1	32	1	<u>6</u>	UR	R	<b>E8520-92</b>	<b>E8820-92</b>	<b>E8920-92</b>
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<u>6</u>	UL	L	<b>E8530-92</b>	<b>E8830-92</b>	<b>E8930-92</b>																																																																			
<u>6</u>	LR	R	<b>E8560-92</b>	<b>E8860-92</b>	<b>E8960-92</b> <b>E8961-92</b>																																																																			
<u>6</u>	LL	L	<b>E8570-92</b>	<b>E8870-92</b>	<b>E8970-92</b> <b>E8971-92</b>																																																																			



**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	
bicuspid	Bracket is perfectly mesio-distal and occlusal-gingival centered		The rectangular tube of bracket is always perfectly centered	
molars	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 82, 83, 86, 87).



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										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	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										
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31		31			14						29																		
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			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										
			32	31			30	31		25			32	29	30				30										
	20			32				32						30	31			38	31										
														32					32										

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

6	6
---	---





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

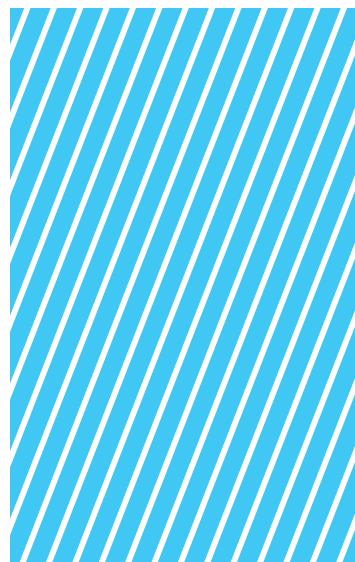
7	7
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# DIRECT BONDING



**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
STAINLESS STEEL											
InterActive SL					97			97			
Standard	99	99	101	101	102		103			102	103
MINI Edgewise	100										
MINI Diagonali				108	107			108		107	
MIDI Diagonali					109			110	111	111	
MIDI Diagonali with vertical slot					109		110				
Diagonal Round					113						
NO-Nickel EXTREMO	115				115						
Logic Line					117	119					
SILICEOUS COPOLYMER											
Logic Line					126	124					
CERAMICA											
AQUA					131					131	
AQUA SL					130			130			
Logic Line					128	125					
MONOCRYSTALLINE SAPPHIRE											
Ghiaccio					128			128			
MAXILLARY ARCH	torq.	ang.	torq.	ang.	torq.	ang.	torq.	ang.	torq.	ang.	torq.
1 1 central	0°	0°	0°	+7°	+5°	+12°	+5°	+17°	+4°	+12°	+5°
2 2 lateral	0°	0°	0°	+3°	+9°	+8°	+9°	+9°	+8°	+8°	+9°
3 3 cuspid	0°	0°	0°	-7°	+11°	-2°	+13°	-7°	+13°	0°	+7°
4 4 1° bicuspid	0°	0°	0°	-7°	0°	-7°	0°	-7°	+2°	0°	-7°
5 5 2° bicuspid	0°	0°	0°	-7°	0°	-7°	0°	-7°	+2°	0°	-7°
MANDIBULAR ARCH											
1 1 central	0°	0°	0°	0°	0°	-6°	0°	0°	-6°	0°	-5°
2 2 lateral	0°	0°	0°	0°	0°	-6°	0°	0°	-6°	0°	-5°
3 3 cuspid	0°	0°	0°	-11°	+5°	-11°	+7°	-6°	+5°	0°	+6°
4 4 1° bicuspid	0°	0°	0°	-17°	0°	-17°	0°	-12°	+2°	0°	-12°
5 5 2° bicuspid	0°	0°	0°	-22°	0°	-22°	0°	-17°	+2°	0°	-17°


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

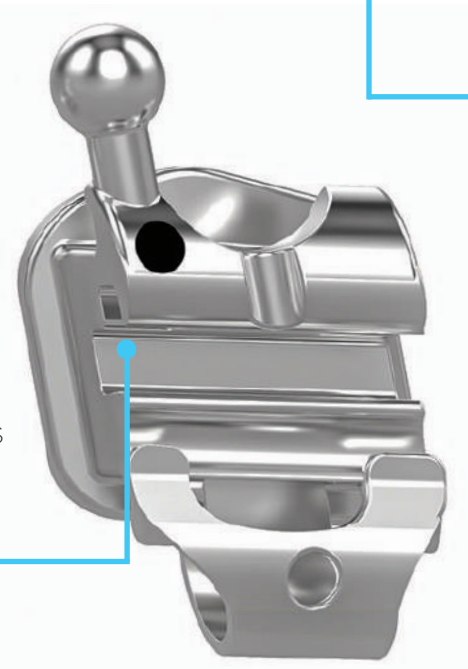
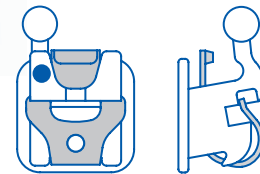
# Inter.\activeSL

**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**  
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

**BEVELED SLOT**  
ON MESIO-DISTAL EDGE  
ALLOWS SLIDING OF ARCHWIRES  
FOR HEAVY MISALIGNMENTS,  
WHILE AVOIDING NOTCHING  
AND BINDING

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



**INTERACTIVE SL  
MBT\* SYSTEM**

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



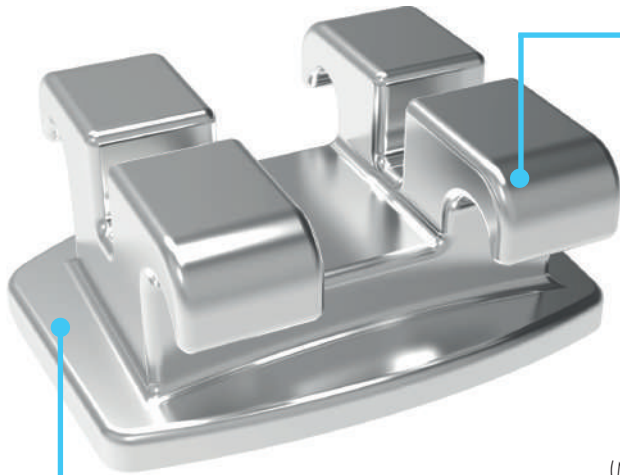
**INTERACTIVE SL  
MBT\* SYSTEM**

	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**® (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 distal-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



BRACKETS  
WITH HOOK  
MANUFACTURED WITH **MIM**®  
(METAL INJECTION MOULDING)



ANATOMICAL  
BONDING BASE  
DESIGNED TO MATCH  
THE ANATOMY OF THE TOOTH

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.



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



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



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"		





**EDGEWISE MINI SYSTEM**

								
		torque		ang.			.018"x.030"	.022"x.030"
				0°	$\frac{1}{1}$		<b>F2281-01</b>	<b>F2221-01</b>
				0°	$\frac{2}{2}$		<b>F2282-01</b>	<b>F2222-01</b>
				0°	$\frac{3}{3}$		<b>F2283-04</b>	<b>F2223-04</b>
				0°	$\frac{4}{4}$		<b>F2289-04</b>	<b>F2229-04</b>
				0°	$\frac{5}{5}$		<b>F2289-04</b>	<b>F2229-04</b>
				0°	$\frac{1}{1}$		<b>F2280-05</b>	<b>F2220-05</b>
				0°	$\frac{2}{2}$		<b>F2280-05</b>	<b>F2220-05</b>
				0°	$\frac{3}{3}$		<b>F2283-04</b>	<b>F2223-04</b>
				0°	$\frac{4}{4}$		<b>F2289-04</b>	<b>F2229-04</b>
				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 104)



## ANDREWS SYSTEM

						
		torque	ang.	.018"x.030"	.022"x.030"	
		 3.3	+7°	+5°	<div><div>1</div><div>1</div></div> <b>F2481-12</b> <b>F2481-13</b>	<b>F2421-12</b> <b>F2421-13</b>
		 2.7	+3°	+9°	<div><div>2</div><div>2</div></div> <b>F2482-32</b> <b>F2482-33</b>	<b>F2422-12</b> <b>F2422-13</b>
		 3.3	-7°	+11°	<div><div>3</div><div>3</div></div> <b>F2483-22</b> <b>F2483-23</b>	<b>F2423-42</b> <b>F2423-43</b>
		 3.3	-7°	+11°	<div><div>3</div><div>3</div></div> <b>F2473-12</b> <b>F2473-13</b>	<b>F2413-12</b> <b>F2413-13</b>
		 3.3	-7°	0°	<div><div>4</div><div>4</div></div> <b>F2484-05</b>	<b>F2429-11</b>
		 3.3	-7°	0°	<div><div>5</div><div>5</div></div> <b>F2484-05</b>	<b>F2429-11</b>
		 3.3	-7°	0°	<div><div>5</div><div>5</div></div> <b>F2479-02</b> <b>F2479-03</b>	<b>F2419-12</b> <b>F2419-13</b>
		 2.1	0°		<div><div>1</div><div>1</div></div> <b>F2080-35</b>	<b>F2020-05</b>
		 2.1	0°		<div><div>2</div><div>2</div></div> <b>F2080-35</b>	<b>F2020-05</b>
		 3.3	-11°	+5°	<div><div>3</div><div>3</div></div> <b>F2483-26</b> <b>F2483-27</b>	<b>F2423-36</b> <b>F2423-37</b>
		 3.3	-11°	+5°	<div><div>3</div><div>3</div></div> <b>F2473-16</b> <b>F2473-17</b>	<b>F2413-16</b> <b>F2413-17</b>
		 3.3	-17°	0°	<div><div>4</div><div>4</div></div> <b>F2489-25</b>	<b>F2429-05</b>
		 3.3	-22°	0°	<div><div>5</div><div>5</div></div> <b>F2489-15</b>	<b>F2429-15</b>
		 3.3	-22°	0°	<div><div>5</div><div>5</div></div> <b>F2479-06</b> <b>F2479-07</b>	<b>F2419-16</b> <b>F2419-17</b>


**Pack of 10**



THIS SYSTEM IS ALSO AVAILABLE WITH POSITIONER (SEE PAGE 104)



## 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"	F2480-92	F2470-93	F2481-92	F2471-93	F2483-92	F2485-92
.022"	F2420-93	F2410-93	F2421-93	F2411-93	F2423-93	F2425-93





**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>
					$\frac{4}{4}$		
			-7°	0°	$\frac{5}{5}$	<b>F2484-05</b>	<b>F2429-11</b>
					$\frac{5}{5}$		
			-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>
					$\frac{1}{1}$		
			0°		$\frac{2}{2}$	<b>F2080-35</b>	<b>F2020-05</b>
					$\frac{2}{2}$		
			-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>
					$\frac{4}{4}$		
			-22°	0°	$\frac{5}{5}$	<b>F2489-15</b>	<b>F2429-15</b>
					$\frac{5}{5}$		
			-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 104)



**RICKETTS SYSTEM**

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

Pack of 10



THIS SYSTEM IS ALSO AVAILABLE WITH POSITIONER (SEE PAGE 104)

**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 104)



**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>

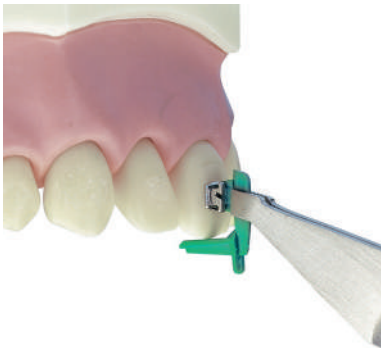
**BURSTONE SYSTEM**

.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**

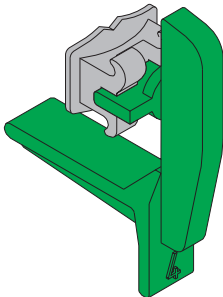
The mouth is color coded by quadrant like the pre adjusted brackets.  
Each plastic positioner is marked with a number identifying each tooth.

Colour of positioner			
UR	BLACK	GREEN	LR
UL	RED	WHITE	LL



**HOW TO ORDER BRACKETS WITH PLASTIC POSITIONER**

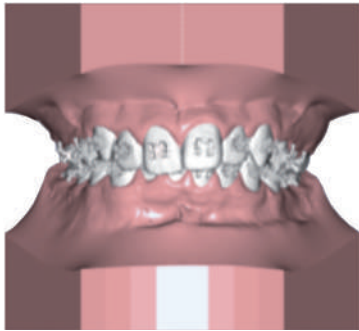
Part numbers are the same of the corresponding D.B. regular brackets.  
In replacement of the hyphen, a letter identifying the single tooth has been inserted.  
The part numbers of the kits aare the same as the equivalent kits without plastic positioner, but in replacement of the hyphen, the letter "J" 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				

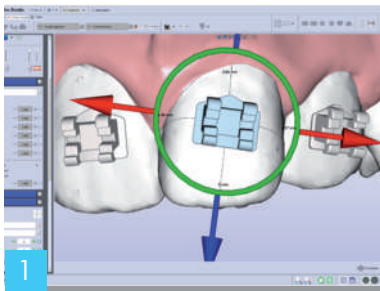
Example:

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

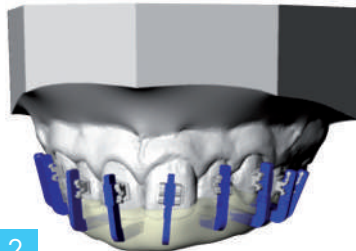


## DIGITALLY-ASSISTED INDIRECT BONDING SYSTEM

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)



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.



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.



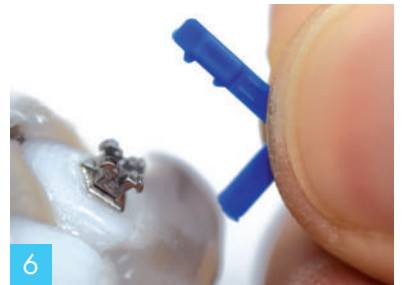
Once the transfer-bite is ready, the brackets must be joined physically to each corresponding positioner: thanks to the special design of the inter-bracket tie wing portion, the union with the bracket is stable and removable at the same time for the next clinical phase.



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.



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.



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.



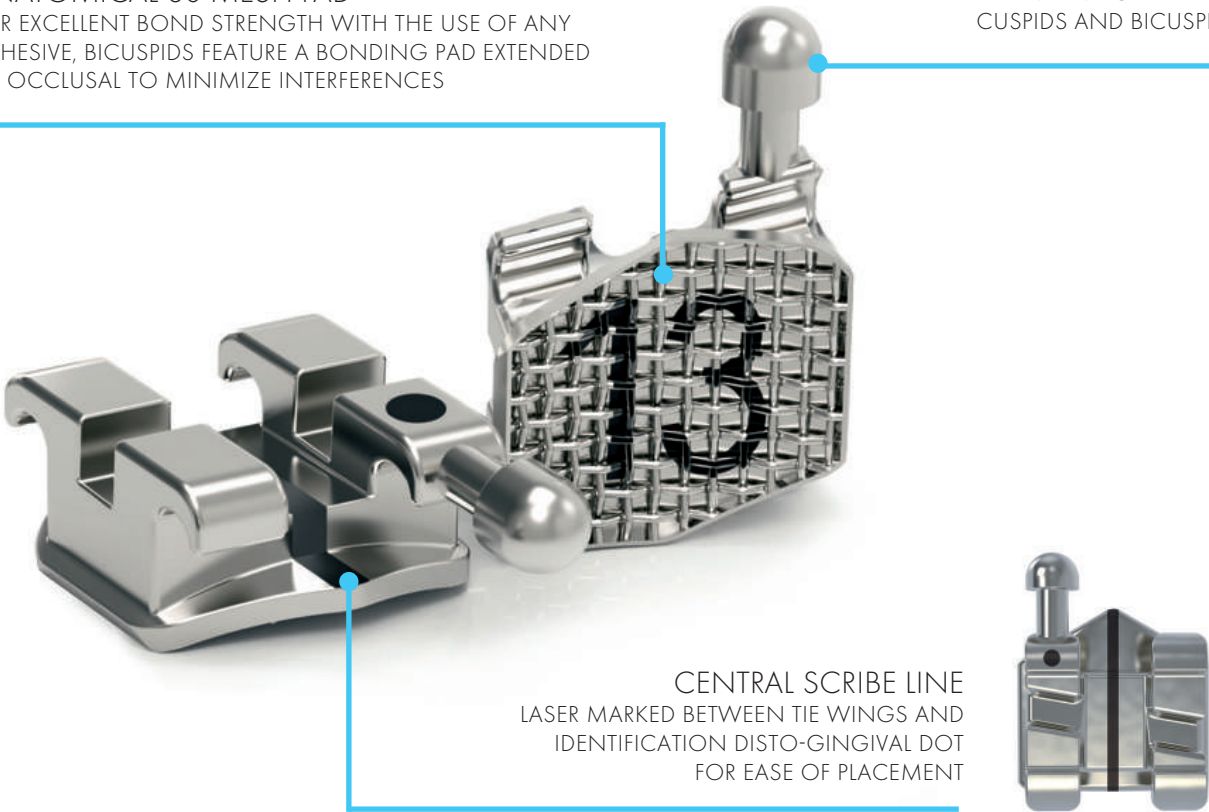
\*PATENTED

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.

ANATOMICAL 80 MESH PAD

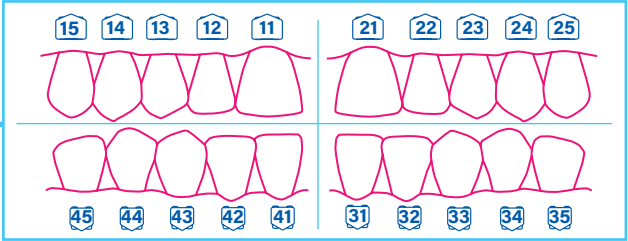
FOR EXCELLENT BOND STRENGTH WITH THE USE OF ANY ADHESIVE, BICUSPIDS FEATURE A BONDING PAD EXTENDED TO OCCLUSAL TO MINIMIZE INTERFERENCES

BALL HOOK  
**MIM®** INJECTION MOLDED  
AND INTEGRATED ON  
CUSPIDS AND BICUSPIDS



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

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

**Pack of 10**



## MINI DIAGONALI® RICKETTS SYSTEM

		torque		ang.		.018" x .030"	
			+22°	0°		<b>F7081-02</b>	<b>F7081-03</b>
			+14°	+8°		<b>F7082-02</b>	<b>F7082-03</b>
			+7°	+5°		<b>F7083-02</b>	<b>F7083-03</b>
			+7°	+5°		<b>F7073-02</b>	<b>F7073-03</b>
			0°			<b>F7084-02</b>	<b>F7084-03</b>
			0°			<b>F7074-02</b>	<b>F7074-03</b>
			0°			<b>F7085-02</b>	<b>F7085-03</b>
			0°			<b>F7079-02</b>	<b>F7079-03</b>
			0°			<b>F7081-06</b>	<b>F7081-07</b>
			0°			<b>F7082-06</b>	<b>F7082-07</b>
			+7°	+5°		<b>F7083-06</b>	<b>F7083-07</b>
			+7°	+5°		<b>F7073-06</b>	<b>F7073-07</b>
			0°			<b>F7084-06</b>	<b>F7084-07</b>
			0°			<b>F7074-06</b>	<b>F7074-07</b>
			-15°	0°		<b>F7085-06</b>	<b>F7085-07</b>
			-15°	0°		<b>F7075-06</b>	<b>F7075-07</b>

**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"	<b>F7270-91</b>	<b>F7271-91</b>	<b>F7273-91</b>	
.022"	<b>F7210-91</b>	<b>F7211-91</b>	<b>F7213-91</b>	<b>F7215-91</b>

## MINI DIAGONALI® RICKETTS SYSTEM

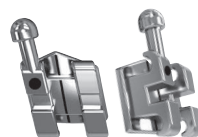
.018"	F7070-91	F7071-91	F7073-91	F7075-91
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**MINI DIAGONALI®  
ANDREWS SYSTEM**

			torque	ang.		.018"x.030"	.022"x.030"
			+7°	+5°		<b>F7181-02</b>	<b>F7121-02</b>
						<b>F7181-03</b>	<b>F7121-03</b>
			+3°	+9°		<b>F7182-02</b>	<b>F7122-02</b>
						<b>F7182-03</b>	<b>F7122-03</b>
			-7°	+11°		<b>F7183-02</b>	<b>F7123-02</b>
						<b>F7183-03</b>	<b>F7123-03</b>
			-7°	+11°		<b>F7173-02</b>	<b>F7113-02</b>
						<b>F7173-03</b>	<b>F7113-03</b>
			-7°	0°		<b>F7184-02</b>	<b>F7124-02</b>
						<b>F7184-03</b>	<b>F7124-03</b>
			-7°	0°		<b>F7185-02</b>	<b>F7125-02</b>
						<b>F7185-03</b>	<b>F7125-03</b>
			-7°	0°		<b>F7179-02</b>	<b>F7119-02</b>
						<b>F7179-03</b>	<b>F7119-03</b>
			0°			<b>F7081-06</b>	<b>F7021-06</b>
						<b>F7081-07</b>	<b>F7021-07</b>
			0°			<b>F7082-06</b>	<b>F7022-06</b>
						<b>F7082-07</b>	<b>F7022-07</b>
			-11°	+5°		<b>F7183-06</b>	<b>F7123-06</b>
						<b>F7183-07</b>	<b>F7123-07</b>
			-11°	+5°		<b>F7173-06</b>	<b>F7113-06</b>
						<b>F7173-07</b>	<b>F7113-07</b>
			-17°	0°		<b>F7184-06</b>	<b>F7124-06</b>
						<b>F7184-07</b>	<b>F7124-07</b>
			-22°	0°		<b>F7185-06</b>	<b>F7125-06</b>
						<b>F7185-07</b>	<b>F7125-07</b>
			-22°	0°		<b>F7175-06</b>	<b>F7115-06</b>
						<b>F7175-07</b>	<b>F7115-07</b>

Pack of 10

Brackets not available into kits

**MINI DIAGONALI®  
MBT\* SYSTEM**

			torque	ang.		.018"x.030"	.022"x.030"
			+17°	+4°		<b>F7380-11</b>	<b>F7320-11</b>
						<b>F7380-21</b>	<b>F7320-21</b>
			+10°	+8°		<b>F7380-12</b>	<b>F7320-12</b>
						<b>F7380-22</b>	<b>F7320-22</b>
			-7°	+8°		<b>F7380-13</b>	<b>F7320-13</b>
						<b>F7380-23</b>	<b>F7320-23</b>
			-7°	+8°		<b>F7370-13</b>	<b>F7310-13</b>
						<b>F7370-23</b>	<b>F7310-23</b>
			-7°	0°		<b>F7380-14</b>	<b>F7320-14</b>
						<b>F7380-24</b>	<b>F7320-24</b>
			-7°	0°		<b>F7370-14</b>	<b>F7310-14</b>
						<b>F7370-24</b>	<b>F7310-24</b>
			-7°	0°		<b>F7380-15</b>	<b>F7320-15</b>
						<b>F7380-25</b>	<b>F7320-25</b>
			-7°	0°		<b>F7370-15</b>	<b>F7310-15</b>
						<b>F7370-25</b>	<b>F7310-25</b>
			-6°	0°		<b>F7380-41</b>	<b>F7320-41</b>
						<b>F7380-31</b>	<b>F7320-31</b>
			-6°	0°		<b>F7380-42</b>	<b>F7320-42</b>
						<b>F7380-32</b>	<b>F7320-32</b>
			-6°	+3°		<b>F7380-43</b>	<b>F7320-43</b>
						<b>F7380-33</b>	<b>F7320-33</b>
			-6°	+3°		<b>F7370-43</b>	<b>F7310-43</b>
						<b>F7370-33</b>	<b>F7310-33</b>
			-12°	+2°		<b>F7380-44</b>	<b>F7320-44</b>
						<b>F7380-34</b>	<b>F7320-34</b>
			-12°	+2°		<b>F7370-44</b>	<b>F7310-44</b>
						<b>F7370-34</b>	<b>F7310-34</b>
			-17°	+2°		<b>F7380-45</b>	<b>F7320-45</b>
						<b>F7380-35</b>	<b>F7320-35</b>
			-17°	+2°		<b>F7370-45</b>	<b>F7310-45</b>
						<b>F7370-35</b>	<b>F7310-35</b>

Pack of 10

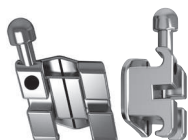
**MINI DIAGONALI® ANDREWS SYSTEM**

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





















































































**MINI DIAGONALI® MBT\* SYSTEM**

	20 brackets - 1 case	200 brackets - 10 cases	500 brackets - 25 cases	1000 brackets - 50 cases
.018"	<b>F7370-91</b>	<b>F7371-91</b>	<b>F7373-91</b>	<b>F7375-91</b>
.022"	<b>F7310-91</b>	<b>F7311-91</b>	<b>F7313-91</b>	<b>F7315-91</b>





## MIDI DIAGONALI ROTH SYSTEM

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

**Pack of 10**



## MIDI DIAGONALI ROTH SYSTEM WITH VERTICAL SLOT


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

**Pack of 10**

Brackets not available into kits

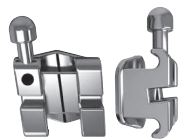


## MIDI DIAGONALI ROTH SYSTEM

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

## MIDI DIAGONALI ROTH SYSTEM WITH VERTICAL SLOT

.018"	<b>F4270-92</b>	<b>F4271-92</b>	<b>F4273-92</b>
.022"	<b>F4210-92</b>	<b>F4211-92</b>	<b>F4213-92</b>

**MIDI DIAGONALI  
MBT\* SYSTEM**

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

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**MIDI DIAGONALI  
BIDIMENSIONAL SYSTEM  
WITH VERTICAL SLOT**

			torque	ang.		.018"x.030"	.022"x.030"
			3.6	+12°	+5°		<b>F4280-11</b> <b>F4280-21</b>
			3	+8°	+9°		<b>F4280-12</b> <b>F4280-22</b>
			3.3	0°	+7°		<b>F4211-13</b> <b>F4211-23</b>
			3.3	0°			<b>F4211-14</b> <b>F4211-24</b>
			3.3	0°			<b>F4211-15</b> <b>F4211-25</b>
			2.1	0°			<b>F4280-41</b> <b>F4280-31</b>
			2.1	0°			<b>F4280-42</b> <b>F4280-32</b>
			3.3	0°	+6°		<b>F4211-43</b> <b>F4211-33</b>
			3.3	0°			<b>F4211-44</b> <b>F4211-34</b>
			3.3	0°			<b>F4211-45</b> <b>F4211-35</b>

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"	<b>F4470-91</b>	<b>F4471-91</b>	<b>F4473-91</b>	<b>F4475-91</b>
.022"	<b>F4410-91</b> <b>F4410-92</b>	<b>F4411-91</b>	<b>F4413-91</b>	<b>F4415-91</b>

**MIDI DIAGONALI BIDIMENSIONAL SYSTEM WITH VERTICAL SLOT**

<b>F4210-93</b>	<b>F4211-93</b>	<b>F4213-93</b>
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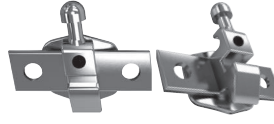




**MIDI DIAGONALI  
RICKETTS SYSTEM**

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

Pack of 10



**MIDI DIAGONALI  
ALEXANDER SYSTEM**

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

Pack of 10

Brackets not available into kits



**MIDI DIAGONALI RICKETTS SYSTEM**

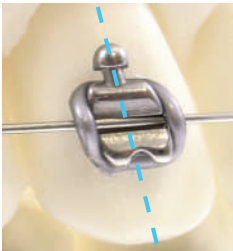
	20 brackets - 1 case	200 brackets - 10 cases	500 brackets - 25 cases	1000 brackets - 50 cases
.018"	<b>F4370-91</b>	<b>F4371-91</b>	<b>F4373-91</b>	<b>F4375-91</b>

**MIDI DIAGONALI ALEXANDER SYSTEM**

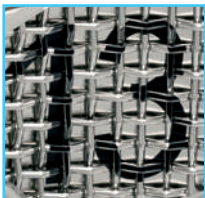
.018"	<b>F4580-94</b>	<b>F4581-94</b>	<b>F4583-94</b>	<b>F4585-94</b>
.022"	<b>F4520-92</b>	<b>F4521-92</b>	<b>F4523-92</b>	<b>F4525-92</b>



DIAGONAL ROUND  
ANGULATION  
FOR EASY BRACKET  
PLACEMENT



MAXIMUM COMFORT  
THANKS TO REDUCED SIZES  
AND ROUNDED EDGES



ANATOMICAL  
80 MESH PAD  
WITH FDI IDENTIFICATION  
FOR EXCELLENT BOND STRENGTH  
WITH THE USE OF ANY ADHESIVE





































**MIM**® INTEGRAL  
BALL HOOK  
ON CUSPIDS AND BICUSPIDS



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

# EXTREMO

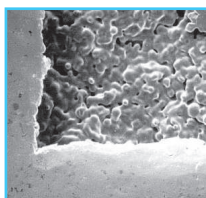
SINGLE PIECE BRACKET **MIM®**

- PRECISION
- CONSTANT QUALITY
- NO SOLDERING POINTS
- COMPUTER DESIGNED ANATOMICAL BOND BASES
- EXCELLENT BOND STRENGTH
- BIOCOMPATIBILITY
- PATIENT COMFORT

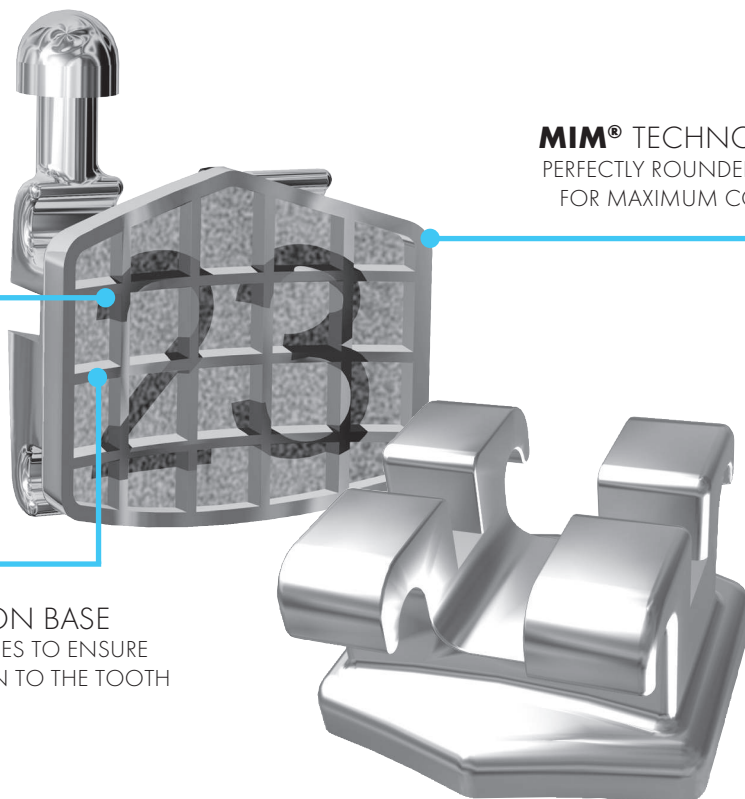
FDI SYSTEM MARKING  
ON THE MESH PAD  
(FOR ROTH PRESCRIPTION)



**MIM®** TECHNOLOGY  
PERFECTLY ROUNDED EDGES  
FOR MAXIMUM COMFORT



HIGH RETENTION BASE  
WITH MICRO CAVITIES TO ENSURE  
STRONG RETENTION TO THE TOOTH



Extremo **nickel-free\*** brackets are entirely biocompatible. They are CAD designed to get anatomical fits and **MIM®** 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"		
					0°	<b>F9081-11</b> <b>F9021-11</b>
					0°	<b>F9081-12</b> <b>F9021-12</b>
					0°	<b>F9088-14</b> <b>F9028-14</b>
					0°	<b>F9088-14</b> <b>F9028-14</b>
					0°	<b>F9088-14</b> <b>F9028-14</b>
					0°	<b>F9080-15</b> <b>F9020-15</b>
					0°	<b>F9080-15</b> <b>F9020-15</b>
					0°	<b>F9088-14</b> <b>F9028-14</b>
					0°	<b>F9088-14</b> <b>F9028-14</b>
					0°	<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"		
					+12° +5°	<b>F9280-11</b> <b>F9220-11</b> <b>F9280-21</b> <b>F9220-21</b>
					+8° +9°	<b>F9280-12</b> <b>F9220-12</b> <b>F9280-22</b> <b>F9220-22</b>
					-2° +13°	<b>F9270-13</b> <b>F9210-13</b> <b>F9270-23</b> <b>F9210-23</b>
					-7° 0°	<b>F9270-14</b> <b>F9210-14</b> <b>F9270-24</b> <b>F9210-24</b>
					-7° 0°	<b>F9270-15</b> <b>F9210-15</b> <b>F9270-25</b> <b>F9210-25</b>
					0°	<b>F9280-41</b> <b>F9220-41</b> <b>F9280-31</b> <b>F9220-31</b>
					0°	<b>F9280-42</b> <b>F9220-42</b> <b>F9280-32</b> <b>F9220-32</b>
					-11° +7°	<b>F9270-43</b> <b>F9210-43</b> <b>F9270-33</b> <b>F9210-33</b>
					-17° 0°	<b>F9270-44</b> <b>F9210-44</b> <b>F9270-34</b> <b>F9210-34</b>
					-22° 0°	<b>F9270-45</b> <b>F9210-45</b> <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>

**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.

For digitally-assisted indirect bonding system see page 105.

**Logic**  
*Line*

OPTIMIZED DESIGN  
FOR USE WITH **SLIDE**  
LOW FRICTION LIGATURES



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:



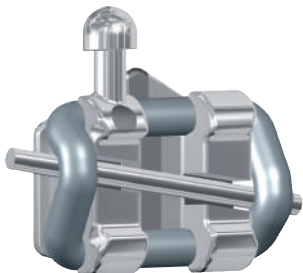
1  
Apply **SLIDE** ligature in the open  
position and arch wire inside the slot



2  
without the use of special instruments, close **SLIDE** ligature down  
on the lower wings.

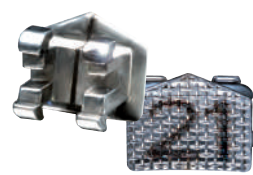


The **Logic Line** brackets, due to the large mesio-distal dimensions and the twin tie-wings, can be used with conventional ligatures, for maximum biomechanical control during the appropriate phases of therapy. Further options are available to the clinician seeking optimum anchorage and biomechanics. 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"
				+12°	+5°	$\frac{1}{1}$ <b>F6221-11</b> <b>F6221-21</b>
				+8°	+9°	$\frac{2}{2}$ <b>F6221-12</b> <b>F6221-22</b>
				-2°	+13°	$\frac{3}{3}$ <b>F6212-13</b> <b>F6212-23</b>
				-7°	0°	$\frac{4}{4}$ <b>F6212-14</b> <b>F6212-24</b>
				-7°	0°	$\frac{5}{5}$ <b>F6212-15</b> <b>F6212-25</b>
				0°		$\frac{1}{1}$ <b>F6221-41</b> <b>F6221-31</b>
				0°		$\frac{2}{2}$ <b>F6221-42</b> <b>F6221-32</b>
				-11°	+7°	$\frac{3}{3}$ <b>F6212-43</b> <b>F6212-33</b>
				-17°	0°	$\frac{4}{4}$ <b>F6212-44</b> <b>F6212-34</b>
				-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 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 157-158 to choose the Low Friction **SLIDE** ligatures

# STEP system 2.0

**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

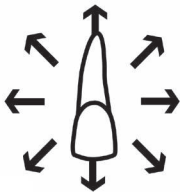
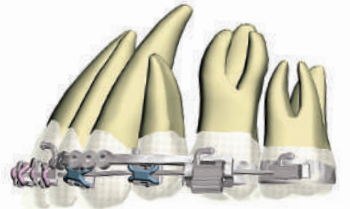
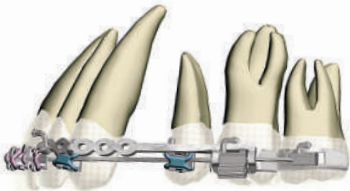
in one group of teeth with the benefit of being able to use the biomechanical properties more suitable for the therapeutic stage and the kind of wire you are using. The innovative Bi-dimensional\* arch wires and the elastic Tie Back, brand new in the design and material, deliver a controllable traction 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.

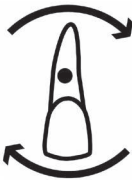
*Bibliographic references are continuously updated on the website [www.leone.it](http://www.leone.it)*

\*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.



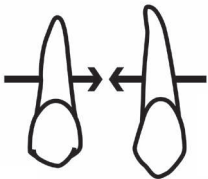
## FULL EXPRESSION OF THE BRACKET TIP VALUE

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 2.0 D.B. BRACKETS SYSTEM





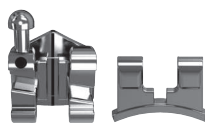
## STEP SYSTEM 2.0 STANDARD

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































**Pack of 10**

## 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

		torque	ang.	.022"x.030"	
		 3.6	+17°	+4°	$\frac{1}{1}$ <b>F0122-11</b> $\frac{1}{1}$ <b>F0122-21</b>
		 3.1	+9°	+8°	$\frac{2}{2}$ <b>F0122-12</b> $\frac{2}{2}$ <b>F0122-22</b>
		 3.3	-7°	+13°	$\frac{3}{3}$ <b>F0113-13</b> $\frac{3}{3}$ <b>F0113-23</b>
		 3.1	-7°	+2°	$\frac{4}{4}$ <b>F0113-14</b> $\frac{4}{4}$ <b>F0113-24</b>
		 3.1	-7°	+2°	$\frac{5}{5}$ <b>F0113-15</b> $\frac{5}{5}$ <b>F0113-25</b>
		 3	-6°	0°	$\frac{1}{1}$ <b>F0122-41</b> $\frac{1}{1}$ <b>F0122-31</b>
		 3	-6°	0°	$\frac{2}{2}$ <b>F0122-42</b> $\frac{2}{2}$ <b>F0122-32</b>
		 3.3	-6°	+5°	$\frac{3}{3}$ <b>F0113-43</b> $\frac{3}{3}$ <b>F0113-33</b>
		 3.1	-12°	+2°	$\frac{4}{4}$ <b>F0113-44</b> $\frac{4}{4}$ <b>F0113-34</b>
		 3.1	-17°	+2°	$\frac{5}{5}$ <b>F0113-45</b> $\frac{5}{5}$ <b>F0113-35</b>

**Pack of 10**





## 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




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

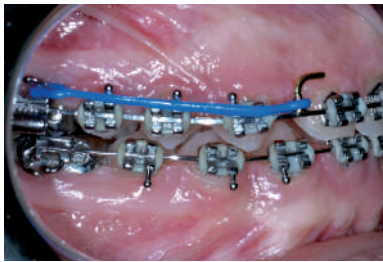
SPACE CLOSURE

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

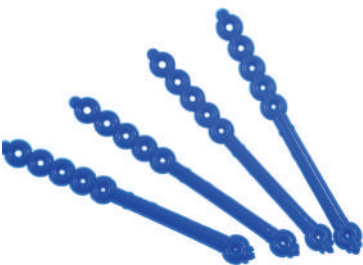
\*Distance between archwire hooks

FINISHING

						
		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

convertible				round tube diam.	rect. tube diam.	weldable tubes	WEB band with tube
		torque	rotat.				
	<u>6 6</u>	-14°	+10°	.045" occl.	.022"	R <b>G8424-32</b>	<b>E8920-00</b>
						L <b>G8424-33</b>	<b>E8930-00</b>
	<u>6 6</u>	-20°	+8°		.022"	R <b>G8421-16</b>	<b>E8960-00</b>
						L <b>G8421-17</b>	<b>E8970-00</b>
	<u>6 6</u>	-20°	+8°	.045" ging.	.022"	R <b>G8424-16</b>	<b>E8961-00</b>
						L <b>G8424-17</b>	<b>E8971-00</b>

				rect. tube diam.	weldable tubes	welded and brazed on <b>MAXI</b> base
		torque	rotat.			
	<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 (see page 68)

Ordering of single archwires. Pack of 10

1 SUP	MEMORIA® .014"	C5910-14	4 SUP	Australian Special Plus .020"	C2010-20
1 INF	MEMORIA® .014"	C5950-14	4 INF	Australian Special Plus .020"	C2050-20
2 SUP	MEMORIA® .016"	C5910-16	5 SUP	Bidimensional w/hook Beta MEMORIA® s/steel .021"x.027"/.016"x.016"	C7111-34
2 INF	MEMORIA® .016"	C5950-16	5 SUP	Bidimensional w/hook Beta MEMORIA® s/steel .021"x.027"/.016"x.016"	C7111-36
3 SUP	Australian Special Plus .016"	C2010-16	5 INF	MEMORIA® .021"x.025"	C5955-21
3 INF	Australian Special Plus .016"	C2050-16	6 SUP	Beta MEMORIA® .021"x.027"	C7112-21
			6 INF	Beta MEMORIA® .021"x.027"	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.**

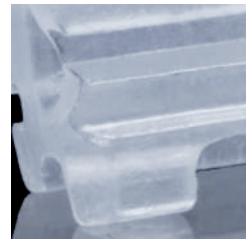
Logic  
*Line*

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



Courtesy of Dr. A. Fortini



**STEP SYSTEM 2.0  
IN COPOLYMER**

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

**STEP SYSTEM 2.0 IN COPOLYMER**

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

**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



**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		
7 6   6 7				-14°	+8°	.022"	R <b>F8721-02</b> L <b>F8721-03</b>
7 6   6 7				-20°	+8°		R <b>F8721-06</b> L <b>F8721-07</b>





Courtesy of Dr. A. Fortini



STEP SYSTEM 2.0  
IN CERAMICS

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

SISTEMA 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"		F5906-20				F5910-20	
				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"		F5912-20				F5920-20	

D.B. AESTHETIC BRACKETS STEP SYSTEM 2.0

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 SLIDE AQUA ligature modules (24 pcs) medium
- 2 SLIDE AQUA ligature modules (12 pcs) 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

7 6   6 7				-14°	+8°			R	F8321M12
								L	F8321M13
7 6   6 7				-20°	+8°			R	F8321M16
								L	F8321M17

**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














































**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



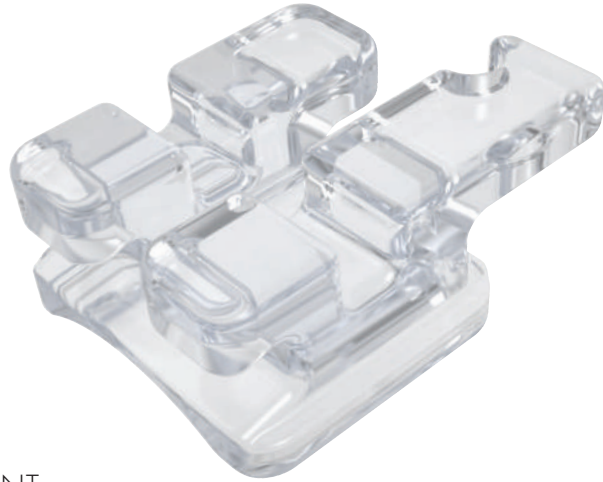
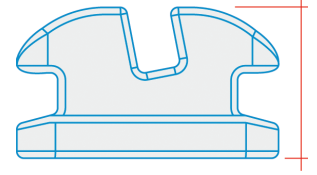
ROTH SYSTEM LOGIC LINE IN CERAMICS									
									
			torque	ang.		.022"x.030"			
		 4	+12°	+5°	 1	<b>F5921-12</b> <b>F5921-13</b>			
		 3.4	+8°	+9°	 2	<b>F5922-12</b> <b>F5922-13</b>			
		 3.3	-2°	+13°	 3	<b>F5913-12</b> <b>F5913-13</b>			
		 3.3	-7°	0°	 4	<b>F5919-12</b> <b>F5919-13</b>			
		 3.3	-7°	0°	 5	<b>F5919-12</b> <b>F5919-13</b>			
		 2.8	0°		 1	<b>F5920-05</b>			
		 2.8	0°		 2	<b>F5920-05</b>			
		 3.3	-11°	+7°	 3	<b>F5913-16</b> <b>F5913-17</b>			
		 3.3	-17°	0°	 4	<b>F5914-16</b> <b>F5914-17</b>			
		 3.3	-22°	0°	 5	<b>F5915-16</b> <b>F5915-17</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

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.



**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.

## GHIACCIO MBT\* SYSTEM

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

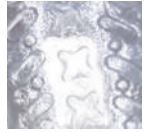
## GHIACCIO MBT\* SYSTEM

	6 brackets	10 brackets	12 brackets	20 brackets
	<u>3 2 1   1 2 3</u>	<u>5 4 3 2 1   1 2 3 4 5</u>	<u>3 2 1   1 2 3</u> 3 2 1   1 2 3	<u>5 4 3 2 1   1 2 3 4 5</u> 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>

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.

# AquaSL

Ceramic Brackets Self-Ligating



**ROUND HOOK**  
MAXIMUM PATIENT  
COMFORT AND SAFE  
SEALING OF ELASTICS

**BASE**  
ANATOMICAL CURVATURE OF  
THE BASE FOR A PERFECT ADAPTATION  
TO THE TOOTH SURFACE WITH MINIMUM  
AMOUNT OF COMPOUND EMPLOYED  
FOR A PERFECT SEAL

**WINGS**  
LARGE UNDERCUT TO SEAL  
LIGATURES AND ACCESSORIES

**BEVELED SLOT**  
ROUNDED MESIAL-DISTAL  
EDGES TO AVOID NOTCHING  
AND MINIMIZE BINDING

**CLIP IN NICKEL-TITANIUM**  
LARGE AS THE MESIO-DISTAL SLOT WIDTH,  
FACILITATES THE INSERTION OF ARCHWIRES  
THUS GIVING THE HIGHEST  
BIOMECHANICAL CONTROL

**DESIGN OF  
ANTERIOR EDGE**  
WITH 2 KEEPER NOTCHES WHICH  
PERMIT A CORRECT CENTRAL  
CLOSURE FOR MAXIMUM STABILITY  
DURING TREATMENT

**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°	$\frac{1}{1}$	<b>F5751-02</b>
			+8°	+9°	$\frac{2}{2}$	<b>F5752-02</b> <b>F5752-03</b>
			-2°	+13°	$\frac{3}{3}$	<b>F5753-02</b> <b>F5753-03</b>
			-7°	0°	$\frac{4}{4}$	<b>F5749-02</b> <b>F5749-03</b>
			-7°	0°	$\frac{5}{5}$	<b>F5749-02</b> <b>F5749-03</b>
			0°		$\frac{1}{1}$	<b>F5750-05</b>
			0°		$\frac{2}{2}$	<b>F5750-05</b>
			-11°	+7°	$\frac{3}{3}$	<b>F5753-06</b> <b>F5753-07</b>
			-17°	0°	$\frac{4}{4}$	<b>F1044-16</b> <b>F1044-17</b>
			-22°	0°	$\frac{5}{5}$	<b>F1045-16</b> <b>F1045-17</b>

Lower bicuspid in stainless steel

AQUA SL SELF LIGATING  
MBT\* SYSTEM

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

Lower bicuspid 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"	<b>F5750-91</b>

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"	<b>F5740-91</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.
























































**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.



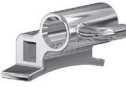
Pack of 1

**AQUA  
ROTH SYSTEM**




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



D.B. MIM® TUBES





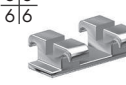
			round tube diam.	rect. tube slot		weldable tubes	direct bonding tubes	molar band with tube		
								CALIBRA® pack of 10	CALIBRA® pack of 5	WEB pack of 10
	6/6	0°	.051" ging.	.018"	R	G8085-02	F8085-22	on request	on request	on request
				.022"	L	G8025-02 G8025-03	F8025-22 F8025-23	E1420-00 E1430-00	E1425-00 E1435-00	on request
	6/6	0°	.051" ging.	.018"	R	G8085-03	F8085-23	on request	on request	on request
				.022"	L	G8025-03 G8025-02	F8025-23 F8025-22	E1460-00 E1470-00	E1465-00 E1475-00	on request

D.B. CONVERTIBLE MIM® TUBES


			round tube diam.	rect. tube slot		weldable tubes	direct bonding tubes
	6/6	0°	.051" ging.	.018"	R	G8185-02	on request
				.022"	L	G8125-02 G8125-03	on request
	6/6	0°	.051" ging.	.018"	R	G8185-03	on request
				.022"	L	G8125-03 G8125-02	on request

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







BRACKETS

					weldable brackets	direct bonding brackets
	6/6 6/6	0°		.018"	R	G2086-14
				.022"	L	F2086-14
	6/6 6/6	0°		.018"	R	G2080-44
				.022"	L	F2081-01







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

Pack of 10  
 Pack of 100 on request


D.B. MIM® TUBES


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

D.B. CONVERTIBLE MIM® TUBES






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

D.B. MIM® TUBES

								molar band with tube				
		torque	rotat.	round tube diam.	rect. tube slot	weldable tubes	direct bonding tubes	CALIBRA®		WEB		
								pack of 10	pack of 5	pack of 10	pack of 5	
	0°		.045" ging.	.018"	R L	<b>G8084-12</b> <b>G8084-13</b>	<b>F8084-12</b> <b>F8084-13</b>	on request	on request	on request	<b>E8820-00</b> <b>E8830-00</b>	
				.022"	R L	<b>G8024-12</b> <b>G8024-13</b>	<b>F8024-12</b> <b>F8024-13</b>	on request	on request	on request	on request	
	-10°		+8°	.045" ging.	.018"	R L	<b>G8384-12</b> <b>G8384-13</b>	<b>F8384-12</b> <b>F8384-13</b>	on request	on request	on request	on request
					.022"	R L	<b>G8324-12</b> <b>G8324-13</b>	<b>F8324-12</b> <b>F8324-13</b>	on request	on request	on request	on request
	-14°			.018"	R L	<b>G8070-02</b> <b>G8070-03</b>	<b>F8070-02</b> <b>F8070-03</b>	on request	on request	on request	on request	
				.022"	R L	<b>G8010-02</b> <b>G8010-03</b>	<b>F8010-02</b> <b>F8010-03</b>	on request	on request	on request	on request	
			0°		.018"	R L	<b>G8070-16</b> <b>G8070-17</b>	<b>F8570-03*</b> <b>F8570-02*</b>	on request	on request	on request	<b>E8860-00</b> <b>E8870-00</b>
					.022"	R L	<b>G8010-16</b> <b>G8010-17</b>	<b>F8510-03*</b> <b>F8510-02*</b>	on request	on request	on request	on request
	-25°			.018"	R L	<b>G8070-06</b> <b>G8070-07</b>	<b>F8070-06</b> <b>F8070-07</b>	on request	on request	on request	on request	
				.022"	R L	<b>G8010-06</b> <b>G8010-07</b>	<b>F8010-06</b> <b>F8010-07</b>	on request	on request	on request	on request	
					.018"	R L	<b>G8184-22</b> <b>G8184-23</b>	<b>F8184-22</b> <b>F8184-23</b>	on request	on request	on request	on request
					.022"	R L	<b>G8124-22</b> <b>G8124-23</b>	<b>F8124-22</b> <b>F8124-23</b>	on request	on request	on request	on request

\*Extremo No-nickel

CONVERTIBILE MIM® TUBES

			round tube diam.	rect. tube slot	weldable tubes	direct bonding tubes
	0°		.045" occl.	.018"	R L	G8184-22 G8184-23
				.022"	R L	G8124-22 G8124-23
			.045" occl.	.018"	R L	G8484-22 G8484-23
				.022"	R L	G8424-22 G8424-23
	-14°	+8°		.018"	R L	G8470-02 G8470-03
				.022"	R L	G8410-02 G8410-03
				.018"	R L	G8170-16 G8170-17
				.022"	R L	G8110-16 G8110-17
	-25°	+8°		.018"	R L	G8470-06 G8470-07
				.022"	R L	G8410-06 G8410-07
				.018"	R L	G8170-16 G8170-17
				.022"	R L	G8110-16 G8110-17

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"
	$\frac{6}{6}$ $\frac{6}{6}$	double		0°	.051" ging.	R L	<b>F8085-22</b> <b>F8085-23</b>	<b>F8025-22</b> <b>F8025-23</b>
	$\frac{6}{6}$	double	-10°	+8°	.051" ging.	R L	<b>F8385-02</b> <b>F8385-03</b>	<b>F8325-02</b> <b>F8325-03</b>
	$\frac{6}{6}$	double	-25°	+8°	.051" ging.	R L	<b>F8385-06</b> <b>F8385-07</b>	<b>F8325-06</b> <b>F8325-07</b>
	$\frac{6}{6}$ $\frac{6}{6}$	double		0°	.045" occl.	R L	<b>F8084-32</b> <b>F8084-33</b>	<b>F8024-32</b> <b>F8024-33</b>
	$\frac{6}{6}$ $\frac{6}{6}$	double		0°	.051" occl.	R L	<b>F8085-42</b> <b>F8085-43</b>	<b>F8025-42</b> <b>F8025-43</b>
	$\frac{6}{6}$	double	-10°	+8°	.045" occl.	R L	<b>F8384-32</b> <b>F8384-33</b>	<b>F8324-32</b> <b>F8324-33</b>
	$\frac{6}{6}$	double	-10°	+8°	.051" occl.	R L	<b>F8385-22</b> <b>F8385-23</b>	<b>F8325-22</b> <b>F8325-23</b>
	$\frac{6}{6}$ $\frac{6}{6}$	triple		0°	.045" ging.	R L	<b>F8084-12</b> <b>F8084-13</b>	<b>F8024-12</b> <b>F8024-13</b>
	$\frac{6}{6}$	triple	-10°	+8°	.045" ging.	R L	<b>F8384-12</b> <b>F8384-13</b>	<b>F8324-12</b> <b>F8324-13</b>
	$\frac{6}{6}$ $\frac{6}{6}$	triple		0°	.045" occl.	R L	<b>F8084-22</b> <b>F8084-23</b>	<b>F8024-22</b> <b>F8024-23</b>
	$\frac{6}{6}$ $\frac{6}{6}$	triple		0°	.051" occl.	R L	<b>F8085-32</b> <b>F8085-33</b>	<b>F8025-32</b> <b>F8025-33</b>
	$\frac{6}{6}$	triple	-10°	+8°	.045" occl.	R L	<b>F8384-22</b> <b>F8384-23</b>	<b>F8324-22</b> <b>F8324-23</b>
	$\frac{6}{6}$	triple	-10°	+8°	.051" occl.	R L	<b>F8385-12</b> <b>F8385-13</b>	<b>F8325-12</b> <b>F8325-13</b>
	$\frac{6}{6}$	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>
	$\frac{6}{6}$	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>
	$\frac{7}{7}$	partially erupted	-15°	0°		R L	<b>F7980-01</b>	<b>F7920-01</b>

Pack of 10

 Pack of 100 on request

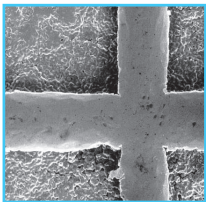
**D.B. MIM® TUBES EXTREMO NO-NICKEL**

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.

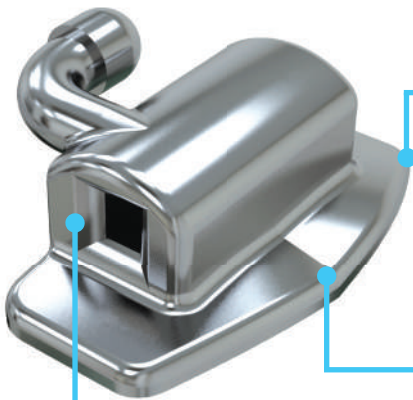
Pack of 10



Pack of 100 on request



LOW PROFILE DESIGN  
HELPS REDUCE  
OCCLUSAL INTERFERENCE



ANATOMICAL MESH BASE  
WITH MICRO CELL  
INTERNAL SURFACE

FUNNELED ENTRY WAY  
FOR EASE OF WIRE INSERTION

OCCLUSAL INDENT  
FOR A PERFECT ANATOMICAL FIT  
TO MOLARS

				torque	rotat.	slot	direct bonding tubes	
	7 6   6 7 7 6   6 7				0°	.018"	R L	<b>F8581-12</b> <b>F8581-13</b>
						.022"	R L	<b>F8521-12</b> <b>F8521-13</b>
	7 6   6 7				-10°	.018"	R L	<b>F8681-12</b> <b>F8681-13</b>
					+8°	.022"	R L	<b>F8621-22</b> <b>F8621-23</b>
	7 6   6 7				-14°	.022"	R L	<b>F8621-32</b> <b>F8621-33</b>
	7 6   6 7				-20°	.022"	R L	<b>F8621-26</b> <b>F8621-27</b>
	7 6   6 7				-25°	.018"	R L	<b>F8681-16</b> <b>F8681-17</b>
					+8°	.022"	R L	<b>F8621-36</b> <b>F8621-37</b>
	6   6 6   6				0°	.018"	R L	<b>F8570-02</b> <b>F8570-03</b>
	6   6 6   6				0°	.022"	R L	<b>F8510-02</b> <b>F8510-03</b>

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



D.B. MIM® SINGLE TUBES LOW PROFILE  
WITH FDI IDENTIFICATION

These D.B. single tubes, made using **MIM®** 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

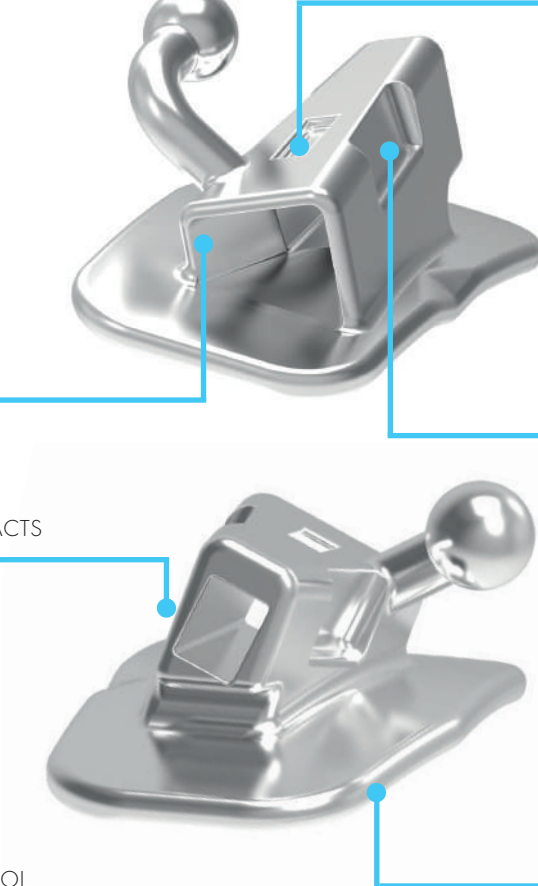
OCCLUSO-GINGIVAL PARALLEL PLANES  
PROVIDE A SECURE GRIP WITH TWEEZERS

VESTIBULAR INDENT  
FACILITATES PROPER POSITION  
ON THE TOOTH BONDING PHASE

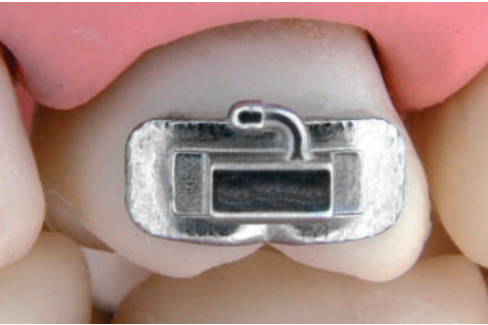
TORQUE IN BASE  
MINIMIZES OCCLUSAL CONTACTS

IDEAL LENGTH  
MAXIMIZES ROTATION CONTROL

ANATOMICAL MESH PAD  
WITH INTERCUSPID INDENT, 80 MESH  
AND FDI IDENTIFICATION



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

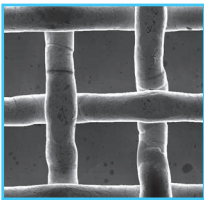


**F2800-00**  
**D.B. MAXI MESH PAD**

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.

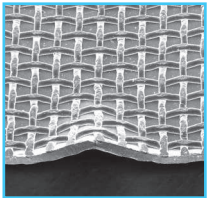
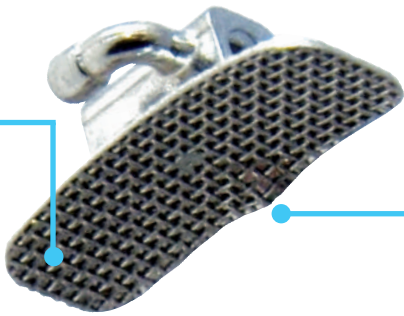
Hygiene and health of the soft tissues are improved, besides, the positioning of the tube will be more precise.

**Pack of 10**



**80 GAUGE MESH**  
OPTIMAL WITH EITHER SELF/LIGHT-CURE,  
OR VARIABLE DENSITY  
ORTHODONTIC ADHESIVES

**BONDING SURFACE**  
APPROX. 50% LARGER  
THAN MESH PADS CURRENTLY USED  
WITH DIRECT BONDING TUBES

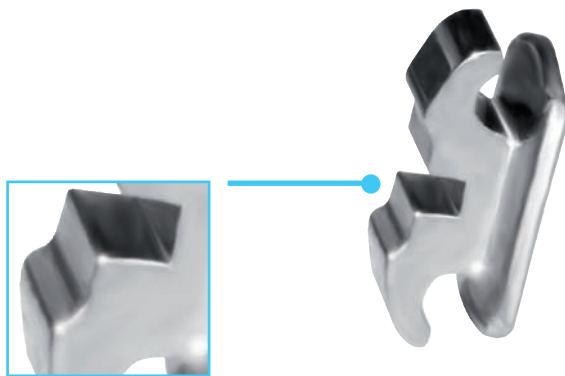


**1<sup>ST</sup> MOLAR ANATOMICAL**  
**CONTOURED**  
WITH POSITIONING "INDENT"



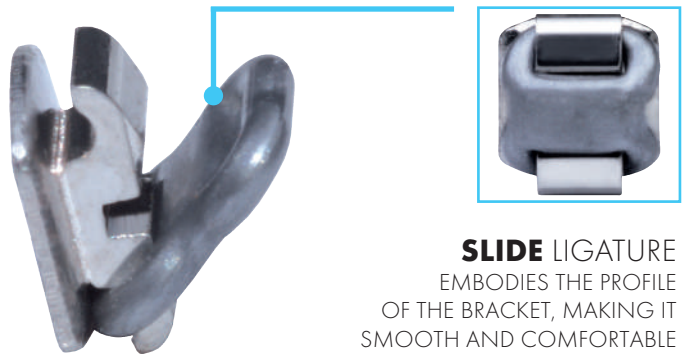
When ordering for customized tubes soldered on the **MAXI** mesh pad F2800-00, the right code number of the tube and the solder position\* of the round tube shall be indicated (\*which however must combine with the prescriptions of the selected tube).  
Minimum quantity per order: pack of 10.  
High 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.



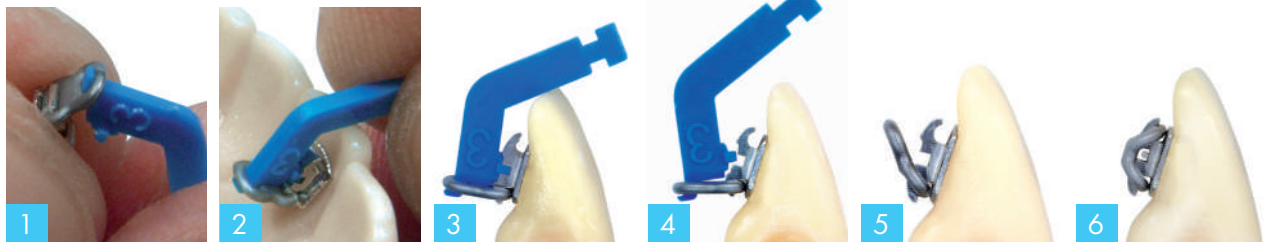
PROFILE OF 1,4 MM DEPTH  
FOR PATIENT ACCEPTANCE AND  
MINIMAL SPEECH ISSUES

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

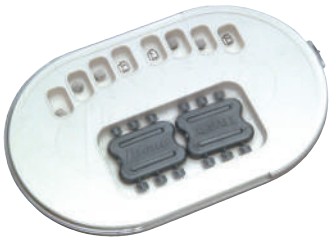
4 Removal of the jig with a rotary movement

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

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

IDEA-L SYSTEM					
 1.4					
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**

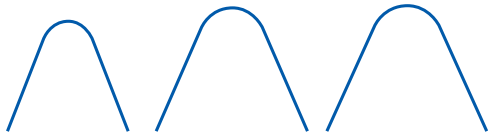
Six sizes for the selection of the proper position according to the anatomy of the lingual surface of the tooth.  
**Assorted pack of 120 pcs**



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 bicuspid, thus keeping high elasticity.  
Section .016" Beta **MEMORIA®** is ideal to optimize the alignment and levelling values. The selector C4950-00 is available (page 69) to select the correct archwire shape.  
**Pack of 2**



**MEMORIA® LINGUAL ARCHWIRES**

∅	small	medium	large
inch			
.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**

Pack of 10



Pack of 100 on request



**F2860-00**  
Flat  
button



**F2870-00**  
Curved  
button



**F2893-00**  
Curved lug  
for elastics



**F2890-00**  
Flat lug  
for elastics



**F2810-00**  
Eyelet



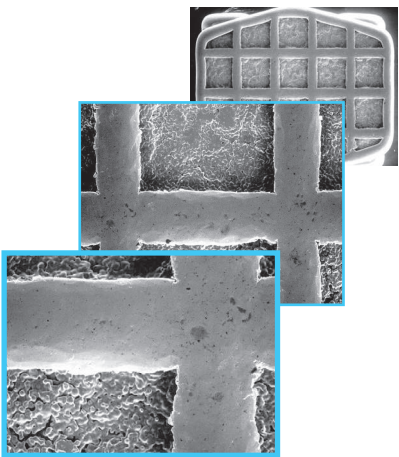
**F2820-00**  
Gull winged  
cleat



**F2822-00**  
Cleat  
low profile



**F2824-00**  
Low profile  
cleat for molar



**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 ≤ 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

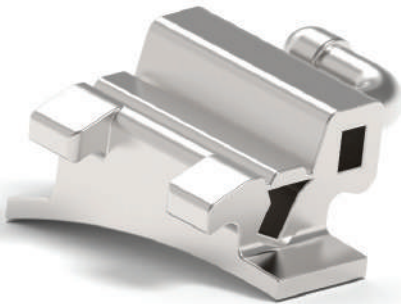
**REFILLS**

**F3941-00**  
**F3942-00**

Springs  
Tubes

Pack of 10

# TUBES AND BRACKETS



**G**



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.

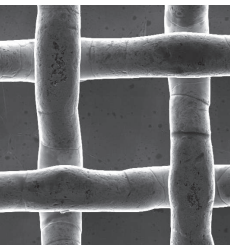
Leone brackets are manufactured from stainless steel with a mechanical micro machine working system to get the highest precision of slots. General tolerance is lower than 3/100. Under edges of tie wings are rounded.  
All the Leone brackets may be welded on either **CALIBRA**® ou **WEB** bands with a 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® BUCCAL TUBES

Every MIM® tube may be pre welded to either CALIBRA® o WEB bands with free prewelding service (page 89) or solder-brazed on the D.B. anatomical mesh pad MAXI F2800-00, which is first molar anatomical contoured (page 138). Solder-brazing service is free of charge. Also available in the direct bonding version upon request (pag. 135).

Pack of 10



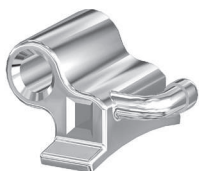









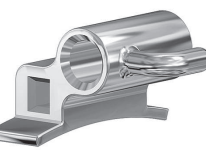
























Pack of 100 on request

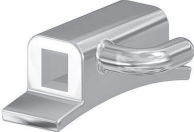















			torque	rect. tube rot.	round tube diam.	retc. tube slot	weldable tubes	
	$\frac{6}{6}$ $\frac{6}{6}$		0°		.045" occl.	.018"	R	G8084-22
						.022"	L	G8084-23
						.018"	R	G8024-22
						.022"	L	G8024-23
	$\frac{6}{6}$		0°		.051" occl.	.018"	R	G8085-12
						.022"	L	G8085-13
						.018"	R	G8025-12
						.022"	L	G8025-13
	$\frac{6}{6}$		-10°	+8°	.045" occl.	.018"	R	G8384-22
						.022"	L	G8384-23
						.018"	R	G8324-22
						.022"	L	G8324-23
	$\frac{6}{6}$		-10°	+8°	.051" occl.	.018"	R	G8385-12
						.022"	L	G8385-13
						.018"	R	G8325-12
						.022"	L	G8325-13
	$\frac{6}{6}$ $\frac{6}{6}$		0°		.045" ging.	.018"	R	G8084-12
						.022"	L	G8084-13
						.018"	R	G8024-12
						.022"	L	G8024-13
	$\frac{6}{6}$		-10°	+8°	.045" ging.	.018"	R	G8384-12
						.022"	L	G8384-13
						.018"	R	G8324-12
						.022"	L	G8324-13
	$\frac{6}{6}$ $\frac{6}{6}$		0°			.018"	R	G8070-16
						.022"	L	G8070-17
						.018"	R	G8010-16
						.022"	L	G8010-17
	$\frac{6}{6}$		-14°	+8°		.018"	R	G8070-02
						.022"	L	G8070-03
						.018"	R	G8010-02
						.022"	L	G8010-03
	$\frac{6}{6}$		-25°	+8°		.018"	R	G8070-06
						.022"	L	G8070-07
						.018"	R	G8010-06
						.022"	L	G8010-07

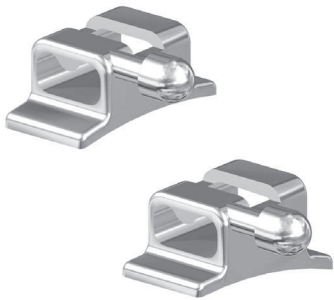
MIM® BUCCAL TUBES

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.	.018"	R	G8084-32
							L	G8084-33
						.022"	R	G8024-32
							L	G8024-33
	6/6 6/6	  	0°		.051" occl.	.018"	R	G8085-22
							L	G8085-23
						.022"	R	G8025-22
							L	G8025-23
	6/6 6/6	  	-10°	+8°	.045" occl.	.018"	R	G8384-32
							L	G8384-33
						.022"	R	G8324-32
							L	G8324-33
	6/6 6/6	  	0°		.045" ging.	.018"	R	G8084-02
							L	G8084-03
						.022"	R	G8024-02
							L	G8024-03
	6/6 6/6	  	0°		.051" ging.	.018"	R	G8085-02
							L	G8085-03
						.022"	R	G8025-02
							L	G8025-03
	6/6 6/6	  	-10°	+8°	.045" ging.	.018"	R	G8384-02
							L	G8384-03
						.022"	R	G8324-02
							L	G8324-03
	6/6 6/6	  	-10°	+8°	.051" ging.	.018"	R	G8385-02
							L	G8385-03
						.022"	R	G8325-02
							L	G8325-03
	6/6 6/6	  	-25°	+8°	.045" ging.	.018"	R	G8384-06
							L	G8384-07
	6/6 6/6	  	-25°	+8°	.045" ging.	.022"	R	G8324-06
							L	G8324-07
	6/6 6/6	  	-25°	+8°	.051" ging.	.018"	R	G8385-06
							L	G8385-07
	6/6 6/6	  	-25°	+8°	.051" ging.	.022"	R	G8325-06
							L	G8325-07

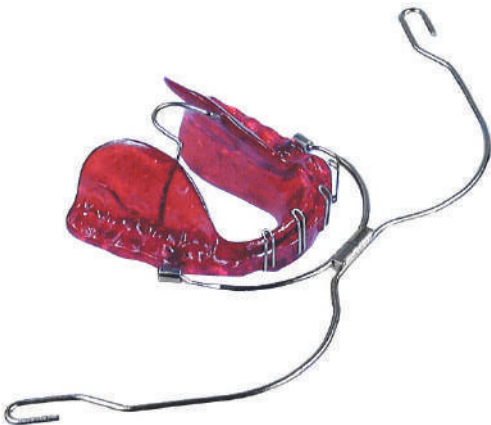
					torque		rect. tube rot.	round tube diam.	retc. tube slot		weldable tubes
	$\frac{7\ 6 6\ 7}{7\ 6 6\ 7}$				0°					.018"	R <b>G8081-02</b> L <b>G8081-03</b>
										.022"	R <b>G8021-02</b> L <b>G8021-03</b>
	$\frac{7\ 6 6\ 7}{7\ 6 6\ 7}$				-10°	+8°				.018"	R <b>G8381-02</b> L <b>G8381-03</b>
										.022"	R <b>G8321-02</b> L <b>G8321-03</b>
	$\frac{7\ 6 6\ 7}{7\ 6 6\ 7}$				-14°	+8°				.022"	R <b>G8321-12</b> L <b>G8321-13</b>
	$\frac{7\ 6 6\ 7}{7\ 6 6\ 7}$				-20°	+8°				.022"	R <b>G8321-16</b> L <b>G8321-17</b>
	$\frac{7\ 6 6\ 7}{7\ 6 6\ 7}$				-25°	+8°				.018"	R <b>G8381-06</b> L <b>G8381-07</b>
										.022"	R <b>G8321-06</b> L <b>G8321-07</b>



MIM® 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® 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** Ø .045"
- A0761-51** Ø .051"

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®** o **WEB** bands or solder-brazed on the D.B. anatomical mesh pad **MAXI F2800-00** (free services see pages 89, 138).



**Pack of 100 on request**



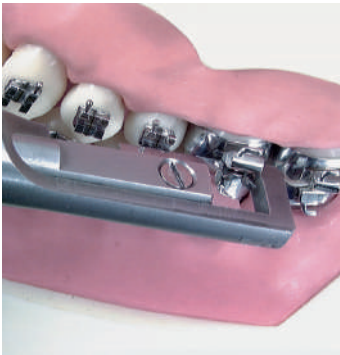
			torque	rect. tube rot.	round tube diam.	rect. tube slot	weldable tubes
	6/6		0°		.045" ging.	.018"	R L <b>G8184-02</b> <b>G8184-03</b>
						.022"	R L <b>G8124-02</b> <b>G8124-03</b>
			0°		.051" ging.	.018"	R L <b>G8185-02</b> <b>G8185-03</b>
						.022"	R L <b>G8125-02</b> <b>G8125-03</b>
			-10°	+8°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



**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

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



LOWER

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

 suggested for Andrews system

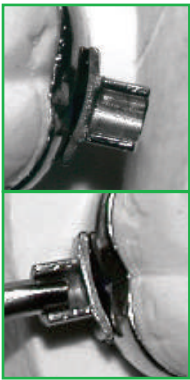
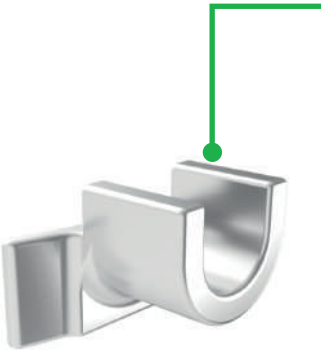
 suggested for Ricketts system

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



CONNECTOR'S FLANGES  
ENSURE A GOOD JOINT  
TO THE BAND BY MEANS  
OF A WELDING MACHINE

CONNECTOR'S SHAPE  
ENABLES A CORRECT BIOMECHANICAL  
POSITION OF THE ARM AND  
THE HYGIENE OF THE AREA

G0565-09  
CONNECTOR 0,9 MM  
FOR BICUSPIDS



LASER WELDED CONNECTOR  
MECHANIC RESISTANCE AND  
STAINLESSNESS ARE GUARANTEED



G0570-09  
CONNECTOR 0,9 MM  
FOR MOLARS



DETAIL OF THE WIRE HOUSING  
INTO THE CONNECTOR'S SEAT


ROUND  
TUBES



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

ROUND  
TUBING



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

TWIN ARCH  
SYSTEM TUBES

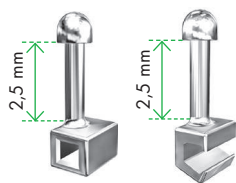
Pack of 10



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



**G0533-36**  
For soldering.  
Inner diameter .036".



**MIM® SURGICAL  
HOOKS**

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

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>	



**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.  
**Pack of 10**

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

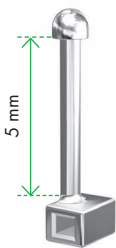
**G9228-22**  
for arches .022"x.028"



**G2810-00  
EYELET**

**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**



**ELASTIC  
LUGS**

**Pack of 100**

**G2893-00**  
Curved for posteriors

**G2890-00**  
Flat for anteriors




**G2820-00  
LINGUAL CLEATS  
HIGH PROFILE**


**Pack of 100**

**LINGUAL BUTTONS**

**Pack of 10**

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

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

 **G2870-00**  
Deep curved for bicuspid



**LINGUAL CLEATS  
LOW PROFILE**

**Pack of 100**

**G2824-00**  
For molars

**G2822-00**  
For cuspids and bicuspid



**G2850-00  
LINGUAL  
SEATING LUGS**

**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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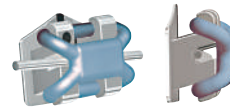
\*PATENTED



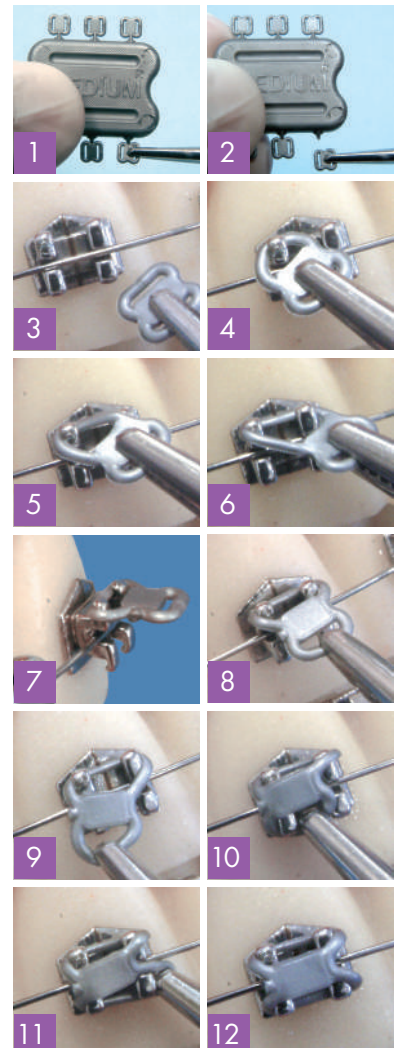
**SLIDE  
LOW FRICTION LIGATURES**

**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**



	colour	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 COLOURED  
LIGATURES KIT**

- K6254-93** extra-small
- K6251-93** small
- K6252-93** 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

**LOW FRICTION LIGATURES  
SLIDE AQUA**

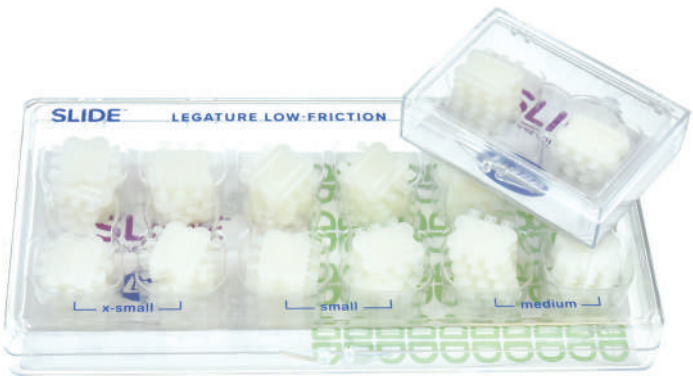
- K6214-10** extra-small
- K6211-10** small
- K6212-10** medium

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 123-126) which are featuring a housing to keep Slide ligature in place for the integration in the bracket's profile. Clear color.

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



Courtesy of Dr. A. Fortini



**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 ligature 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	K7351-10A	K7352-13A	K7353-16A
pink	K7351-10S	K7352-13S	K7353-16S
green	K7351-10V	K7352-13V	K7353-16V
yellow	K7351-10G	K7352-13G	K7353-16G
red	K7351-10R	K7352-13R	K7353-16R
orange	K7351-10E	K7352-13E	K7353-16E
purple	K7351-10L	K7352-13L	K7353-16L
transparent	K7321-10	K7322-13	K7323-16
silver	K7361-10	K7362-13	K7363-16

200  
pcs.

Pack of 20 mini modules,  
10 rings each



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	



long



short



extra short

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.

ELASTIC  
CHAIN KITS

K6429-93      Transparent  
K6469-93      Grey

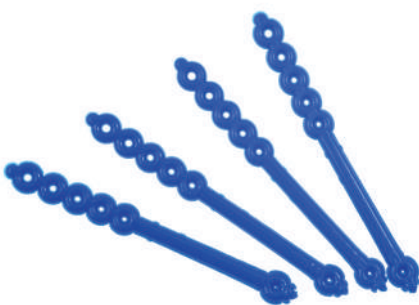
- Pack of 6 spools:
- 3 short
  - 2 closed
  - 1 long on a plexiglas rack

NEW



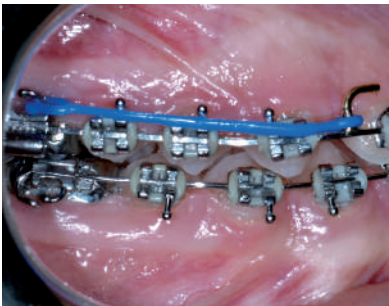
K6378-03  
RADIOPAQUE  
SEPARATORS

The circular section, combined with excellent and constant elasticity, allows easy application by means of P1141-00 pliers, ensuring gradual and comfortable separation of teeth before applying bands. Supplied in a practical pouch, ready-separated and ready for use, not in modules. Radiopaque for safe radiographic localization.  
Pack of 1000



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



Courtesy of Dr. A. Fortini





ELASTIC LIGATING  
MODULES

Ø	transparent	grey	pink	blue	green	
inner						pkg.
1,0 mm	K7825-10	K7865-10	K7855-10S	K7855-10A	K7855-10V	600 pcs.
1,3 mm	K7825-13	K7865-13	K7855-13S	K7855-13A	K7855-13V	

Pack of 30 modules, 20 rings each



ELASTIC LIGATURES

Used in replacement of metallic ligatures.  
Easy engagement under bracket tie wings.

colour			
			pkg.
light	transparent	K6320-10	1000 pcs.
medium		K6320-13	
light	grey	K6360-10	
medium		K6360-13	



ELASTIC WIRE  
FOR LIGATURES  
AND TRACTIONS

Made of highly elastic, atoxic polyurethane. The rough surface enhances the tightness of ligatures and traction loops.

Ø	transparent	
mm		pkg.
0,6	K6125-06	8 m



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	K4030-01	reels of 25 m
medium	K4030-02	
heavy	K4030-03	





LIGATURE WIRE

Made of stainless steel.



Ø			
pkg.	mm	inch	pkg.
spools of 20 g approx.	K4050-23	0,23	.009
	K4050-25	0,25	.010
	K4050-28	0,28	.011
	K4050-30	0,30	.012
	K4050-36	0,36	.014
	K4051-23		
	K4051-25		
	K4051-28		
	K4051-30		
	K4051-36		
spools of 500 g approx.			



ELASTIC  
LIGATURE WIRE

500% elongation capacity with little fatigue. High degree of resistance to oral liquid absorption.  
Spools of 8 m

Ø	transparent	
mm		pkg.
0,6	K6020-06	8 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.

Ø inner		transparent	
mm	inch		pkg.
0,7	.027	K6940-07	3 m



**PREFORMED  
WIRE  
KOBAYASHI**

Once ligature is ready, a traction hook may be formed with the looped soldered end, suitable for any kind of bracket.

Ø			pkg.
mm	inch		
0,30	.012	<b>K4610-30</b>	100
0,36	.014	<b>K4610-36</b>	



**K4680-36  
NATURA® PREFORMED  
KOBAYASHI LIGATURES**

Made of wire .014" (0,36 mm) in diameter, twisted, with tooth colour coating.  
**Pack of 100**



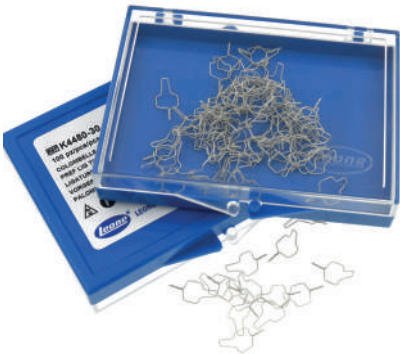
**K4280-30  
NATURA® PREFORMED  
LIGATURE WIRE**

Made of wire .012" (0,30 mm) with tooth colour coating.  
**Pack of 100**



**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			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>	

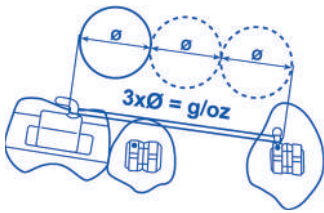


INTRAORAL ELASTICS

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

Ø 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
light		K0901-02	K0902-02	K0903-02	K0904-02	K0905-02
2,5 oz - 70 g						
medium		K0906-04	K0907-04	K0908-04	K0909-04	K0910-04
4,5 oz - 126 g						
heavy		K0915-06	K0911-06	K0912-06	K0913-06	K0914-06
6,5 oz - 182 g						



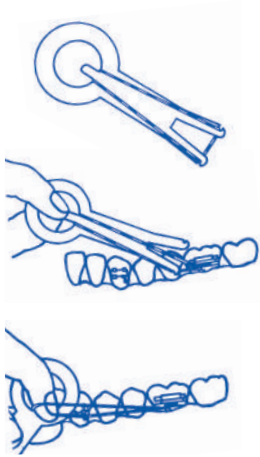
EXTRAORAL ELASTICS

Cut from pure surgical latex.  
Pack of 1 bag  
with 100 elastics approx.

K0950-00  
APPLICATOR  
FOR INTRAORAL ELASTICS

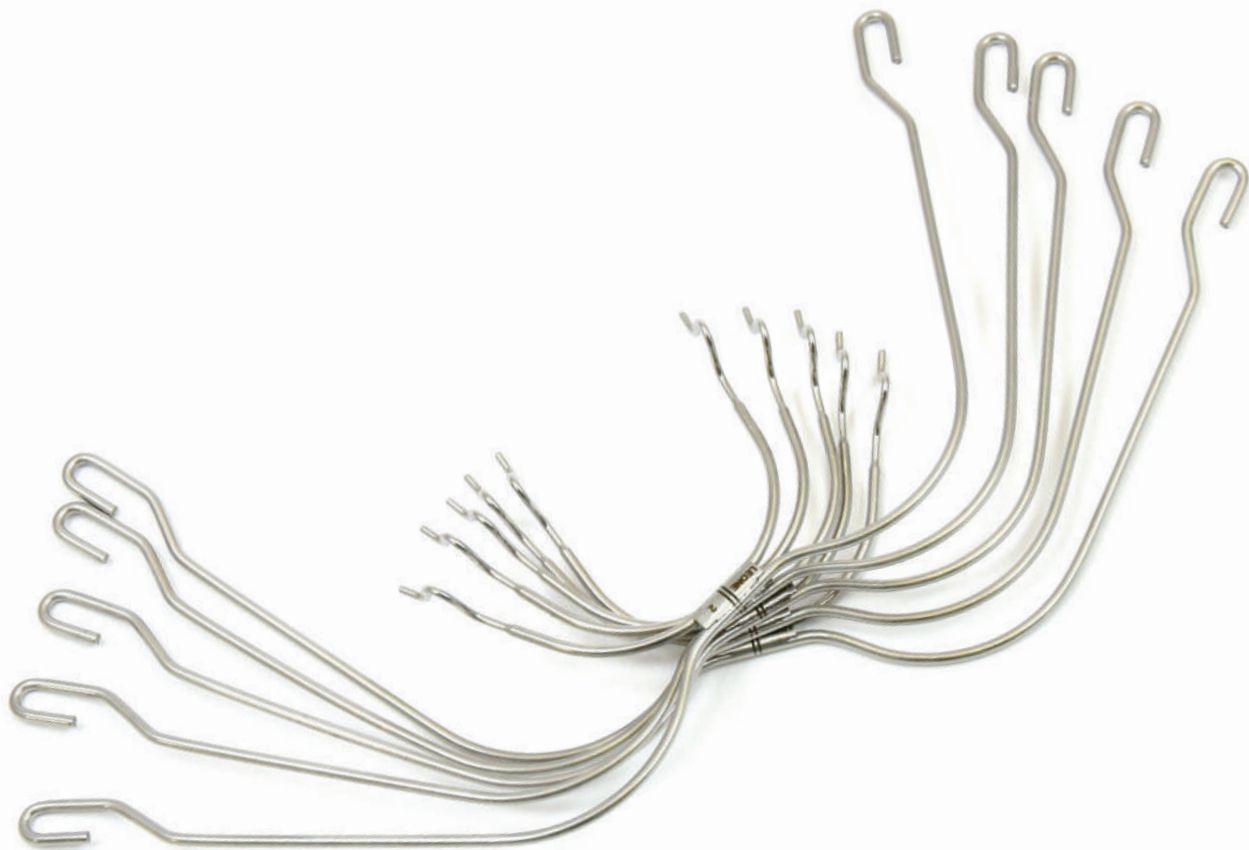
Pack of 100

Ø 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
strong	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**

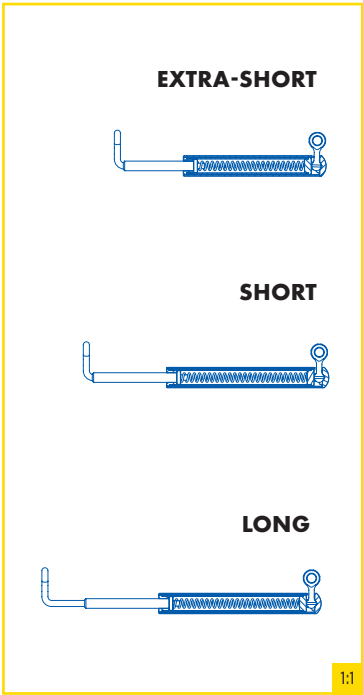






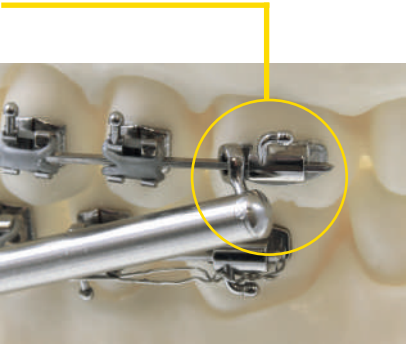
CLASS II CORRECTOR

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.

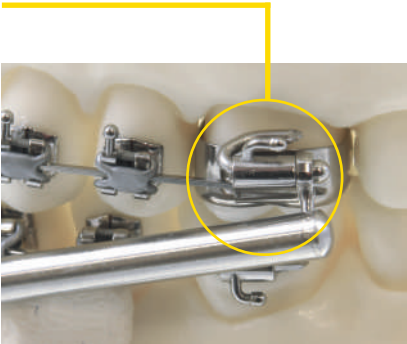


Available in **3 lengths** with both mesial and distal fitting to upper molar tube, for a total of 6 possible positions in the mouth. When used in the mesial position, it can be placed on a single direct-bonding tube without the need of band or round tube.

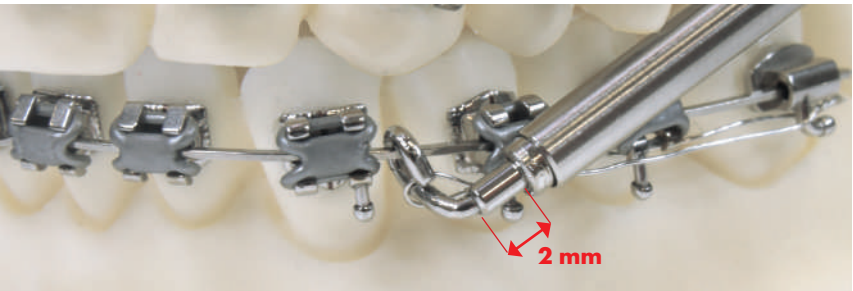
MESIAL SUPPORT  
TO VESTIBULAR TUBE



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 166)	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**

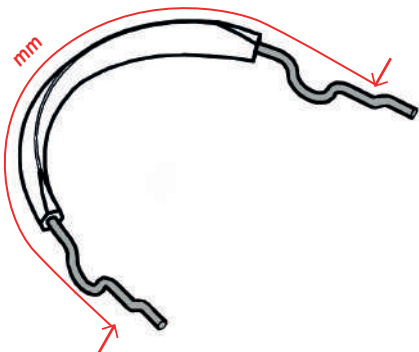
Designed by Prof. Nicola Veltri: this device is intended for use on patients with deciduous or mixed dentition with lack of space and/or small jaw with either sagittal or transversal dimension. The early application on deciduous molars positively stimulates the development of the mandible. The mini lip 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.  
**Pack of 10**



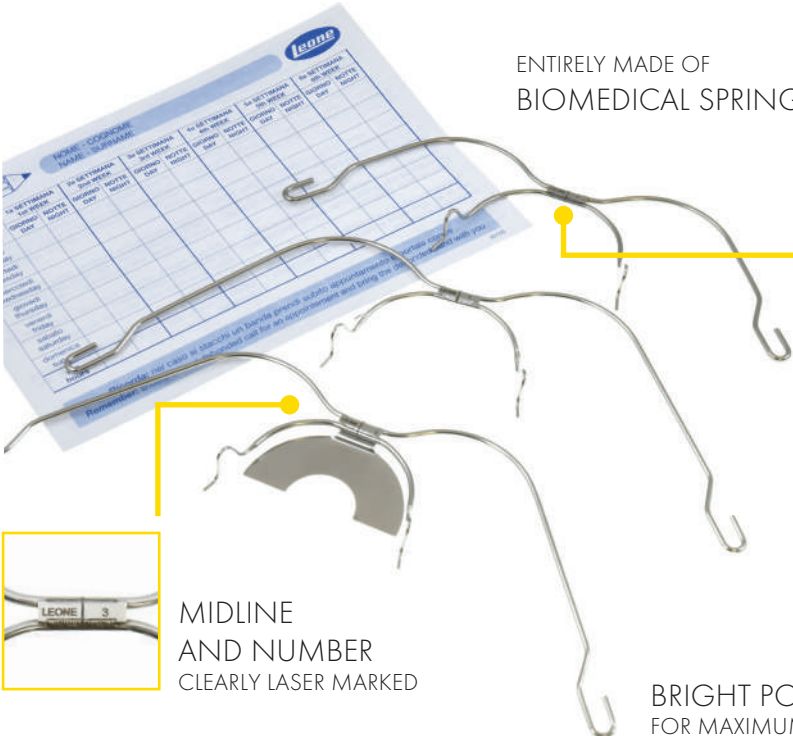
- M3050-00** without loops
- M3051-00** with loops



**LIP BUMPER**  
**WITH LOOPS**  
**AND BAYONET STOPS**



size	mm	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

LASER WELDED BOWS JOINT  
WITHOUT THE PRESENCE  
OF SOLDER MATERIAL  
IS BREAKAGE RESISTANT AND AVOIDS  
ALLERGIC REACTIONS DUE TO BIMETALLISM

OUTER BOW MEASURES:  
1,80 mm IN DIAMETER  
AVAILABLE IN THREE LENGTHS

SINGLE PIECE INNER BOW:  
WITH TERMINAL PORTION  
OF .045" (1,14 mm)

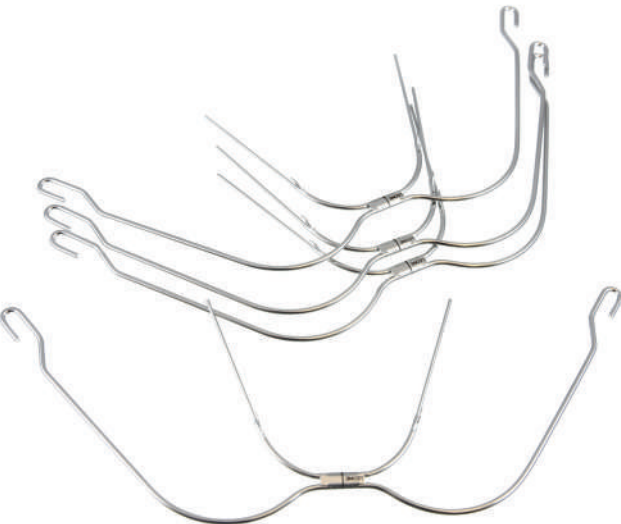


MIDLINE  
AND NUMBER  
CLEARLY LASER MARKED

BRIGHT POLISHED  
FOR MAXIMUM HYGIENE

- AVAILABLE VERSIONS:
- STANDARD
  - WITH PRE-FORMED LOOPS
  - WITH 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



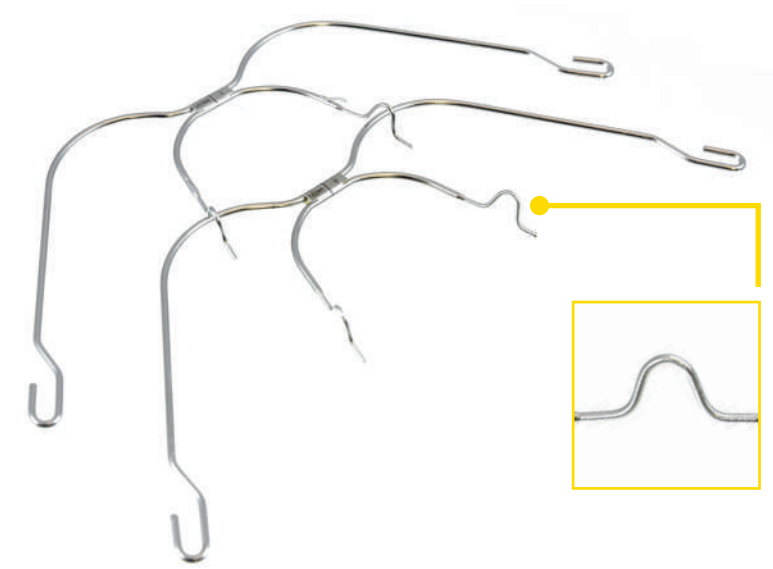
STANDARD  
EXTRAORAL FACEBOWS

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		standard facebow		standard facebow with hooks for elastics	
	mm	mm	mm	inch	pkg.	pkg.	pkg.	pkg.
outer arch EXTRALONG	1,80	1,14	.045		M4840-00 1	M4840-001 10		
outer arch LONG	1,80	1,14	.045		M4800-00 1	M4800-001 10	M4801-00 1	M4801-001 10
outer arch SHORT	1,80	1,14	.045		M4830-00 1	M4830-001 10	M4831-00 1	M4831-001 10



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

WITH PREFORMED LOOPS

d = intermolar width from loop to loop in millimeter		long outer bow		short outer bow						
size		pkg.	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	1	M4805-031	10	M4835-03	1	M4835-031	10
	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.

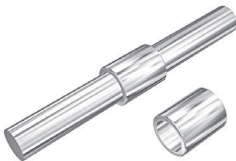
CAUTION: ALL EXTRAORAL FACEBOWS ARE INTENDED FOR USE WITH LEONE M0810 SAFETY MODULES

	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	M4808-00	M4824-00	M4809-00	M4807-00	1
soft stainless steel bite plane	M4808-10	M4824-10	M4809-10	M4807-10	
					



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	M0777-00	Chin pad	Pack of 1
	M0778-00	Forehead pad	Pack of 1
	M0779-00	Zygomatic hold pad	Pack of 2



WITH HORIZONTAL ADJUSTMENT

BEIGE	RED	YELLOW	GREEN	
M0774-00	M0774-00R	M0774-00G	M0774-00V	SMALL
M0776-00	M0776-00R	M0776-00G	M0776-00V	LARGE
M0773-00				MINI



UNIVERSAL ADJUSTABLE

BEIGE	RED	YELLOW	GREEN
M0775-00	M0775-00R	M0775-00G	M0775-00V



WITH VERTICAL ADJUSTMENT

BEIGE	
M0774-01	SMALL
M0776-01	LARGE



WITH ZYGOMATIC HOLDS

BEIGE
M0771-00



DYNAMIC FACE MASK

VERTICAL ADJUSTMENT

BLUE	RED
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**



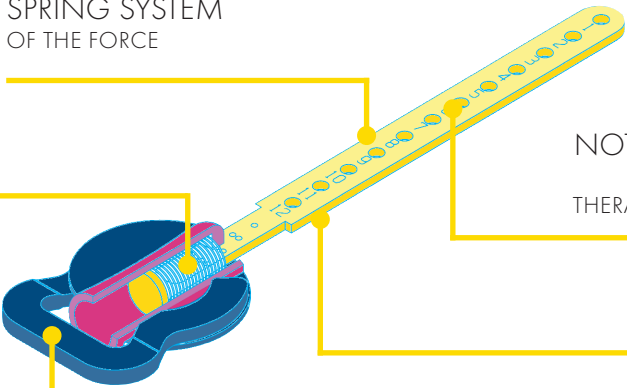
For use with the suitable headgear or neck pads only. Safety clasps disengage the spring strap when tension force exceeds 2 Kg each side. This system avoids dangerous slingshot rebound injuries of the facebow in case of disconnection from headgear tubes. Coil springs are incorporated into the modules to provide constant traction force. Available in three colour-coded attachment straps showing the force level.

**Pack of 10**

	colour	
light	white	<b>M0810-01</b>
medium	yellow	<b>M0810-02</b>
heavy	blue	<b>M0810-03</b>

STAINLESS STEEL  
SPRINGS  
RELEASE PERMANENT FORCES

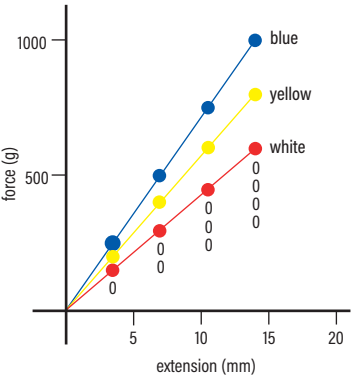
SAFETY RELEASE  
SPRING SYSTEM  
OF THE FORCE



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

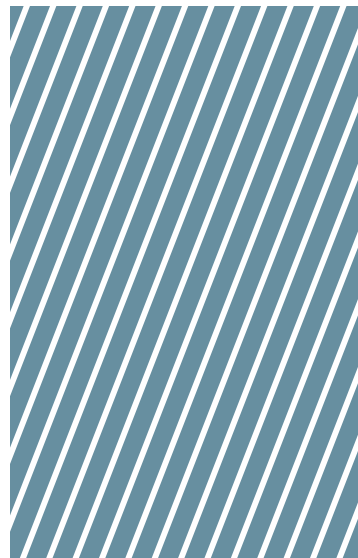


Traction force released by each module can be easily controlled: when 2 notch tension appears on the plastic strap under traction, 2/4 (two fourths) out of the total deliverable force of the spring is going to be released. Above diagram shows the forces released by each type of module.

# TADs TEMPORARY ANCHORAGE DEVICES



0



TADs PA are mini screws made specifically for palatal anchorage of expanders, distalizers or other orthodontic devices. The terminology itself indicates the most common intended use, which is palatal anchorage (PA = Palatal Anchorage). Made of medical grade 5 titanium, they can be used following two methods that are distinct from each other, both as protocols or conceptually. The integral TAD PA is inserted into the palate after cementation of the device in the oral cavity, thus closing the operative protocol: this type of approach is called TAD *last* because the TAD is inserted as the last operative step. TADs PA Biphasic, on the other hand, are inserted into the palate before the actual design of the device and, very often, following a planning and subsequent guided surgery: this type of approach is called TAD *first* because the TAD is inserted as the first operative step followed by a conventional or digital impression and the device fabrication.

TAD PA  
INTEGRAL

MADE OF MEDICAL GRADE 5 TITANIUM



STERILE PACKAGE  
VIAL CAP WITH TITANIUM  
SUPPORT FOR TAD

TAD PA  
BIPHASIC

MADE OF MEDICAL GRADE 5 TITANIUM



STERILE PACKAGE  
VIAL CAP WITH TITANIUM  
SUPPORT FOR TAD



SELF-DRILLING THREAD  
ENSURES A SIMPLE SURGICAL PROCEDURE  
AND HIGH PRIMARY STABILITY

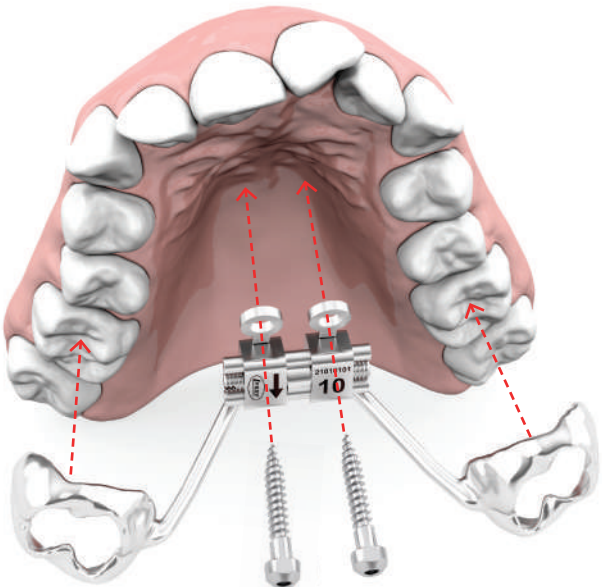




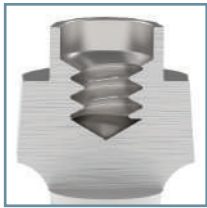
**TAD PA INTEGRAL**



**STOP HEAD**  
FOR INSERTION IN CONJUNCTION  
WITH THE APPLICATION OF THE DEVICE  
DUE TO THE GEOMETRY OF THE  
EMERGING PORTION



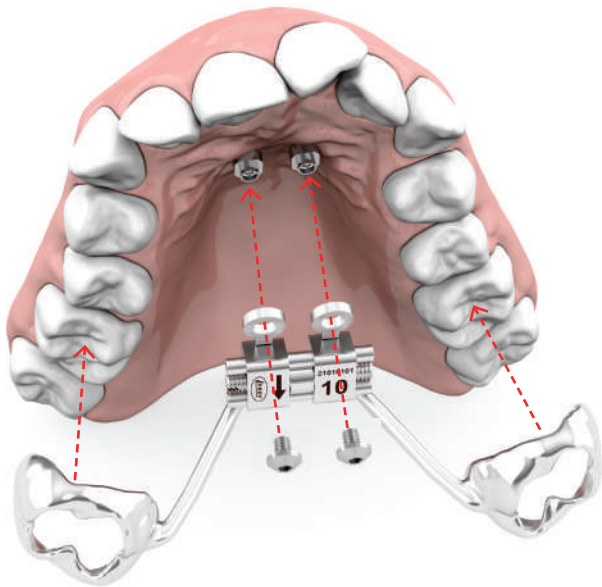
**TAD PA BIPHASIC**



**INNER THREAD**  
IN THE EMERGING PORTION FOR  
FIXING THE EXPANDER BY MEANS  
OF FIXING SCREW



**FIXING SCREW**  
TO ENSURE THE CORRECT ANCHORAGE  
OF THE EXPANDER



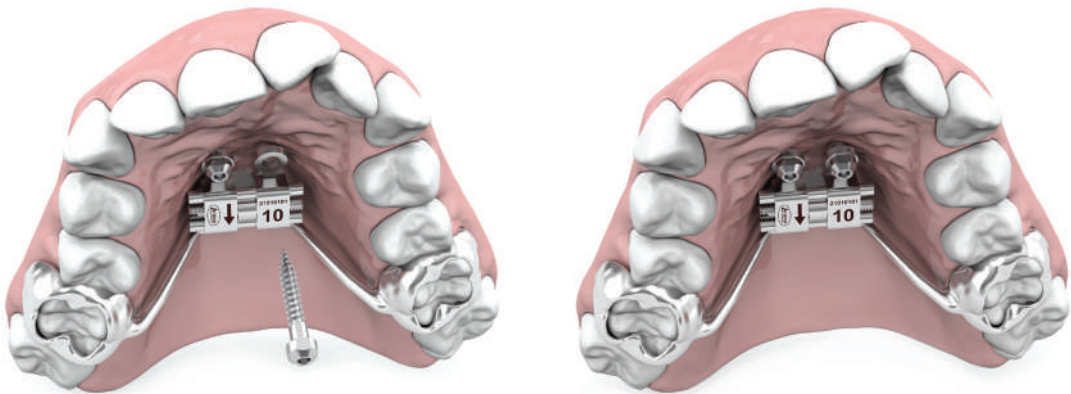
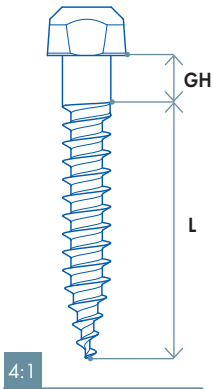


TAD PA  
INTEGRAL

The TAD PA is a mini screw designed specifically for palatal anchorage of devices when the surgical placement of TADs is chosen in conjunction with the application of the appliance. The self-drilling tip and the special thread geometry ensure a simple, minimally invasive surgical procedure and an excellent primary stability. Made of medical grade 5 titanium, available in two lengths, with a diameter of 2 mm, the mini screws are provided sterile and should be used with the proper Leone surgical accessories and instruments.

Packs of 1 or 2

	$\varnothing$	L		
	mm	mm		pkg.
	GH 2,5 mm	8	004-2008-10	1
			004-2008-20	2
	GH 2,5 mm	10	004-2010-10	1
			004-2010-20	2




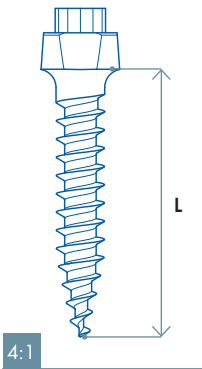
TAD PA  
BIPHASIC



The TAD PA biphasic system is designed specifically for palatal anchorage of devices when a protocol involving mini screw placement, impression taking, and subsequent fabrication and application of both hybrid and totally Bone-Borne expanders is adopted. Made of medical grade 5 titanium, available in four lengths with a diameter of 2 mm, the mini screws ensure a simple, minimally invasive surgical procedure and an excellent primary stability, thanks to the self-drilling tip and the special threaded geometry. The exposed portion has an internal thread and is specifically designed to ensure anchorage with the expander by tightening the appropriate fixing screw. Once positioned in the most suitable anatomical region, an accurate model with analogs for TAD PA biphasic can be achieved by using accessories for both traditional and digital impression to create an accurate maxillary device. Provided sterile, to be used with the proper Leone surgical accessories and instruments.

Packs of 1 or 2

	Ø	L		
	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

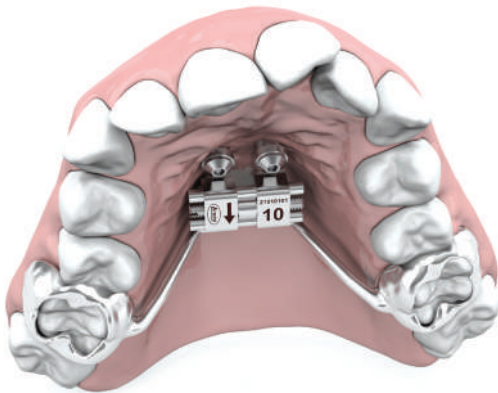
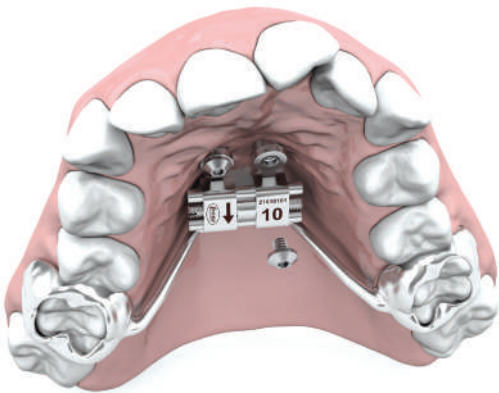
**FIXING SCREW**



033-3203-20

2:1

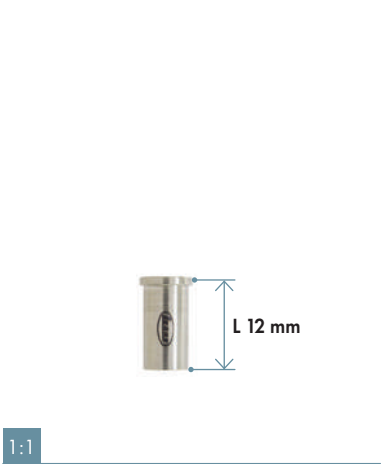
**CYLINDER  
AND FIXING SCREW**





**090-1134-00**  
**DRILL FOR TADs**

Made of stainless steel. To create the pilot hole in case of high bone density. Can be used for both hand insertion and guided surgery procedure with the corresponding sleeve (REF 083-1008-20).  
**Pack of 1**



**083-1008-20**  
**SLEEVE**  
**GUIDED SURGERY FOR TAD PA BIPHASIC**

Made of medical grade 5 titanium. For use in guided surgery by inserting it into the properly planned surgical template. It allows guided pre-drilling in the cortical bone using the Ø1.1 mm drill (REF 090-1134-00) and insertion of the TAD PA biphasic using the handpiece adapter for TADs PA (REF 083-1006-01). Autoclavable.  
**Pack of 2**



**083-1005-01    083-1006-01**  
**HANDPIECE ADAPTERS**  
**FOR TADs PA**

**Both for TAD PA Biphasic and TAD PA Integral.**  
Made of stainless steel.  
To safely tighten or loosen the TADs with the contra-angle handpiece, thanks to the centering system. Available in two lengths. Autoclavable.  
**Pack of 1**



**156-1019-00**  
**DRILL**  
**EXTENSION**

Made of stainless steel.  
To increase the total length of the drill or handpiece adapters by 16 mm if needed. (Product in the Leone Implant System Catalogue).  
Autoclavable.  
**Pack of 1**



**083-1007-01**  
**HAND SCREWDRIVER**  
**FOR TADs PA**

**Both for TAD PA Biphasic and TAD PA Integral.**  
Made of stainless steel.  
To tighten or loosen the TADs PA thanks to the fan-type handle. It can also be used by the laboratory for the placement of analogs in the prototyped model.  
Autoclavable.  
**Pack of 1**



**080-1000-25  
LONG**

1:1

**080-1000-24  
SHORT**

1:1

**NEW**

**ADAPTERS  
FOR TADs PA**

Both for TAD PA Biphasic and TAD PA Integral.

Made of stainless steel. To safely tighten or loosen the TAD PA with the screwdriver for adapters (REF 080-1000-00). It can also be used by the laboratory for the placement of analogs in the prototyped model. Available in two lengths. Autoclavable.

**Pack of 1**



1:2

**080-1000-00  
SCREWDRIVER  
FOR ADAPTERS**

Made of aluminum. To safely tighten or loosen the TADs with adapters. Autoclavable.

**Pack of 1**



**NEW**

1:2

**080-1000-03  
HAND SCREWDRIVER  
FOR HANDPIECE  
FOR TADs PA**

Both for TAD PA Biphasic and TAD PA Integral.

Made of medical grade 5 titanium. To safely tighten or loosen the TADs PA with a contra angle handpiece (blue ring 1:1). Autoclavable.

**Pack of 1**

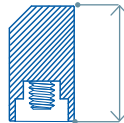


2:1

**043-0001-00  
TRANSFER  
FOR TAD PA BIPHASIC**

Made of stainless steel, with a threaded metal insert. Coupling with the internal threading of the emerging part of the TAD, it allows precise and accurate detection of the position of the TAD with the traditional impression taken with a tray. For use with screwdriver for fixing screws. Autoclavable.

**Pack of 2**



L 7,8 mm

2:1

**043-0000-35  
SCAN BODY  
FOR TAD PA BIPHASIC**

Made of PEEK with a threaded metal insert. Coupling with the internal threading of the emerging part of the TAD, it allows precise and accurate detection of the position of the TAD with the digital impression or scan of the dental cast.

For use with the positioner for Scan Body (REF 083-0004-00). Autoclavable.

**Pack of 2**



1:1

**083-0004-00  
POSITIONER  
FOR SCAN BODY  
FOR TAD PA BIPHASIC**

Made of stainless steel. To tighten or loosen the Scan Body for TAD PA Biphasic, both on the TAD or on the analog for TAD. With a hole for the insertion of the safety wire. Autoclavable.

**Pack of 1**





2:1

**053-0001-00**  
**ANALOG**  
**FOR TAD PA BIPHASIC**

Made of stainless steel. To reproduce the position of the TAD PA Biphasic in the dental cast, or for insertion in a 3D-printed model created by a digital impression of TADs.

**Pack of 1**



2:1

**023-1702-20**  
**FIXING**  
**SCREW**

Made of medical grade 5 titanium, it ensures the correct anchorage of the expander on the TAD PA Biphasic. For use with screwdrivers for fixing screw.

**Pack of 2**

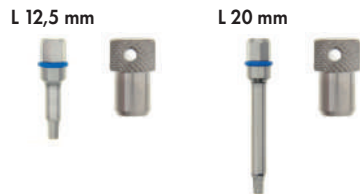


2:1

**033-3203-20** 2 pieces  
**CYLINDER**  
**AND FIXING SCREW**

Cylinder in stainless steel with embedded screw for the welding of expander arms or sintered metallic framework to ensure the expander anchorage onto the TAD PA Biphasic.

**Pack of 2**



1:1

**083-0001-00**    **083-0002-00**  
**SCREWDRIVERS**  
**FOR FIXING SCREW**

Made of stainless steel. For use with the prosthetic hand screwdriver to tighten or loosen the fixing screws and transfers. Available in two lengths. Autoclavable.

**Pack:**

- 1 screw adapter
- 1 hand screwdriver



1:1

**083-0003-00**  
**SCREWDRIVER**  
**FOR HANDPIECE**  
**FOR FIXING SCREW**

Made of stainless steel. For use with the contra angle handpiece to tighten or loosen the fixing screw and transfers. Set a max. torque value of 20 Ncm.

Autoclavable.

**Pack of 1**

**070-8000-01**

**SURGICAL AND PROSTHETIC KIT FOR TADs PA**

Made of PPSU plastic material, it has been designed to sterilize and keep organized only the instruments necessary for the insertion of TADs and their prosthetics on the surgical field.

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 PA Biphasic
- hand driver for TADs PA
- handpiece adapter for TADs PA, short
- handpiece adapter for TADs PA, long

Entirely autoclavable.



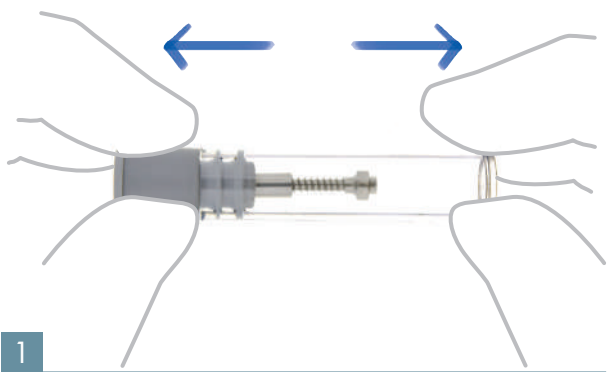
**070-0000-00**

**EMPTY KIT**

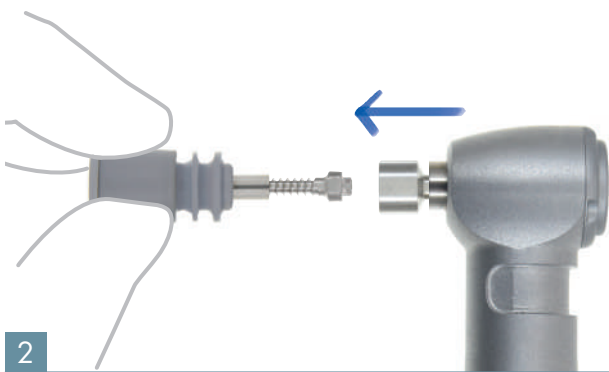


SURGICAL PROCEDURE

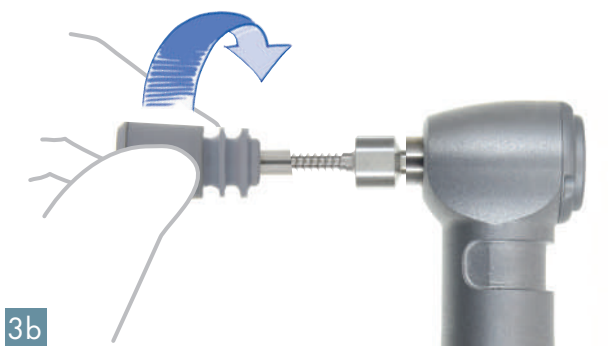
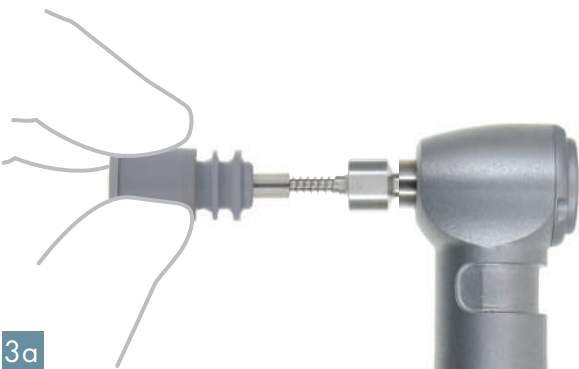
The design of the orthodontic appliance with bone anchorage requires accurate therapy planning by the clinician, who will take all factors that can emerge from a series of preoperative exams into consideration, such as patient history, objective, radiographic and laboratory exams. Once the implant site is determined and the most appropriate TAD PA is chosen, properly anesthetize the surgical area. The TADs PA are self-drilling; however, in case of high bone density and thick cortical bone, it is recommended to pre-drill a hole using one of the two available drills (REF 090-1134-00 or REF 090-1334-00) to facilitate the insertion of the TAD PA.



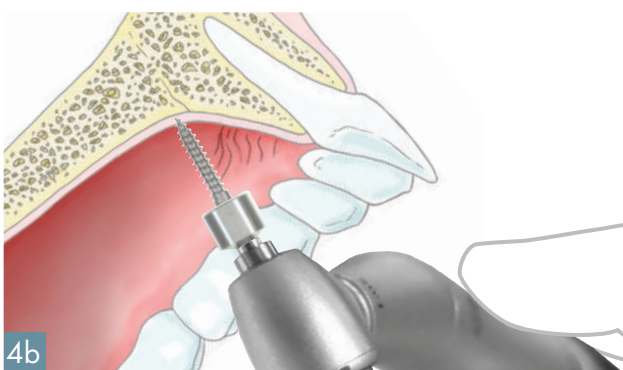
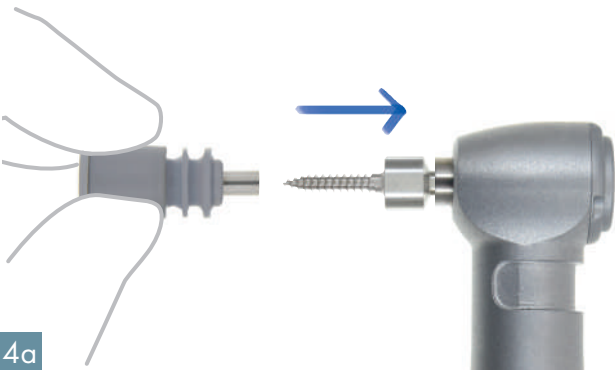
Exert a gentle traction on the vial cap, remove the TAD PA from the sterile vial.



Connect the dedicated handpiece adapter to the TAD PA head.



Once positioned into the instrument, remove the implant cap with a gentle counterclockwise rotary movement.

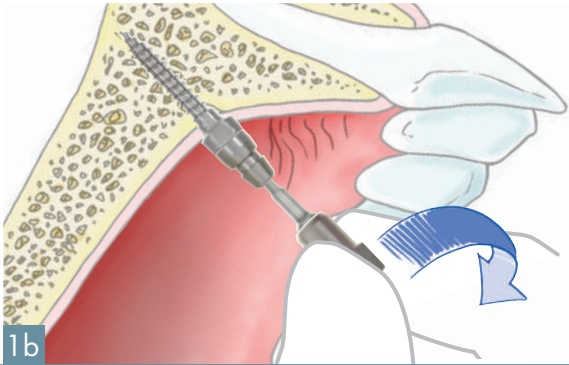
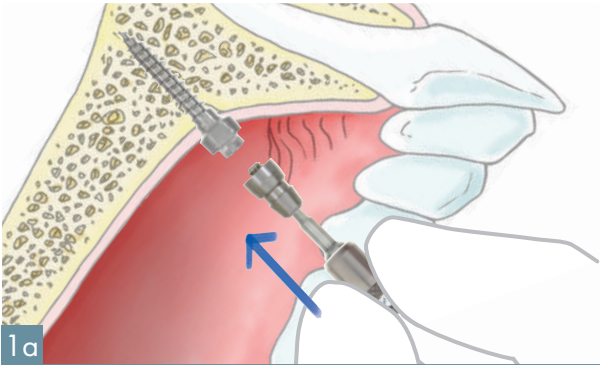


Set a maximum speed of 25 rpm and a maximum torque of 40 Ncm, start drilling the TAD PA along the entire length of the endosseous part.



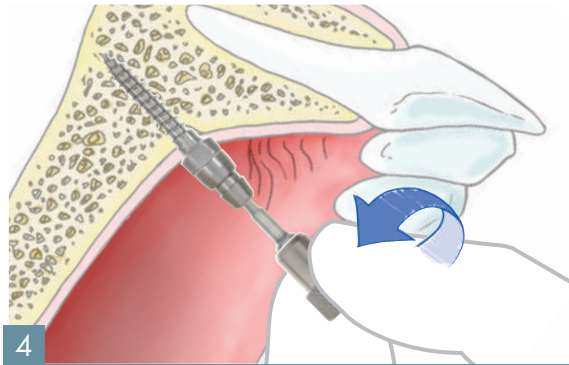
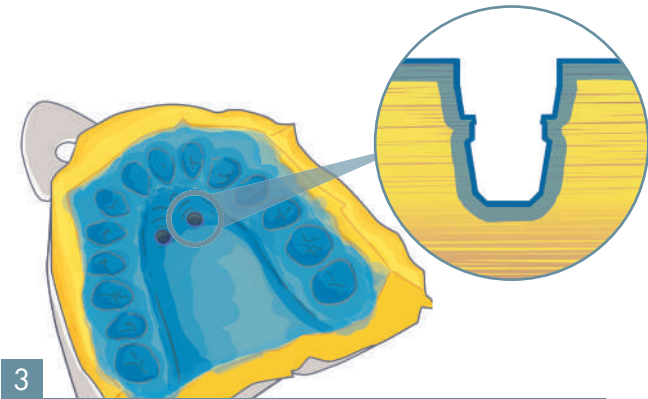
The pictures and information described in this page have informative purpose only and they are not intended to furnish any therapeutic advice for the dental surgeon, the dentist, the dental technician or the patient. Leone Spa expressly disclaims any liability neither will furnish any warranty regarding the exactness or the conformance of the information furnished in these pages.

**CONVENTIONAL IMPRESSION TAKING**



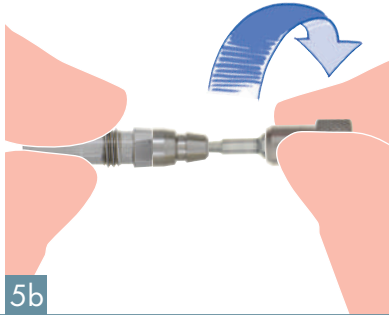
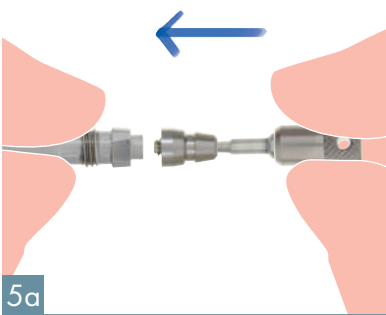
Screw the transfer in the emerging portion of the TAD PA Biphaseic using the dedicated screwdriver for fixing screw.

**2** Take an impression with elastomeric material.

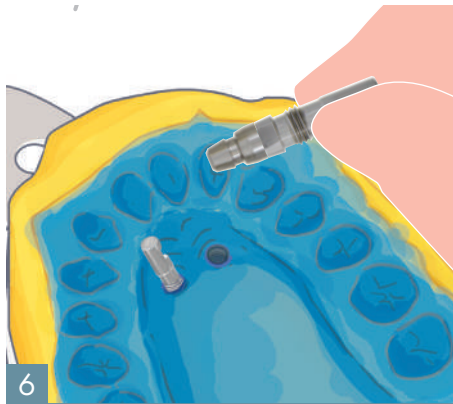


After the removal of the impression, the transfer remains on the TAD's head, while the negative reproduction of their shape is created in the impression material.

Unscrew the transfer using the screwdriver for fixing screw.

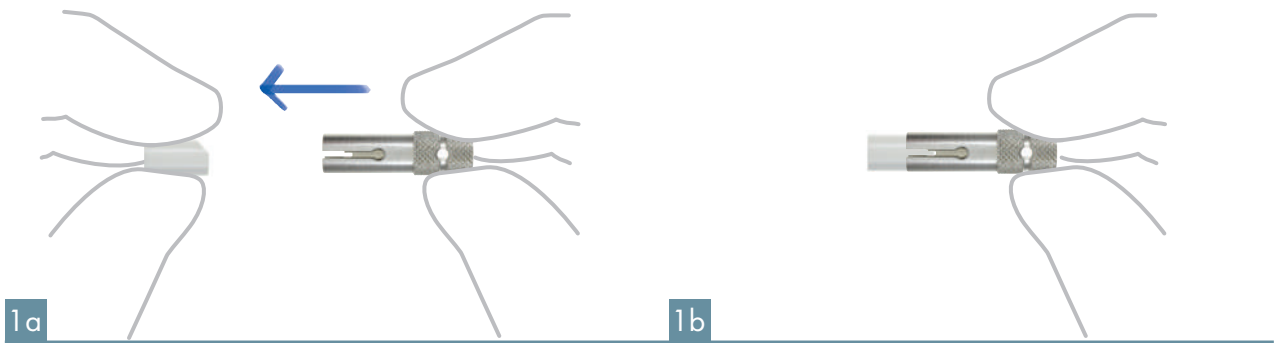


After sterilization, screw the transfer on the analogs for TAD PA Biphaseic.

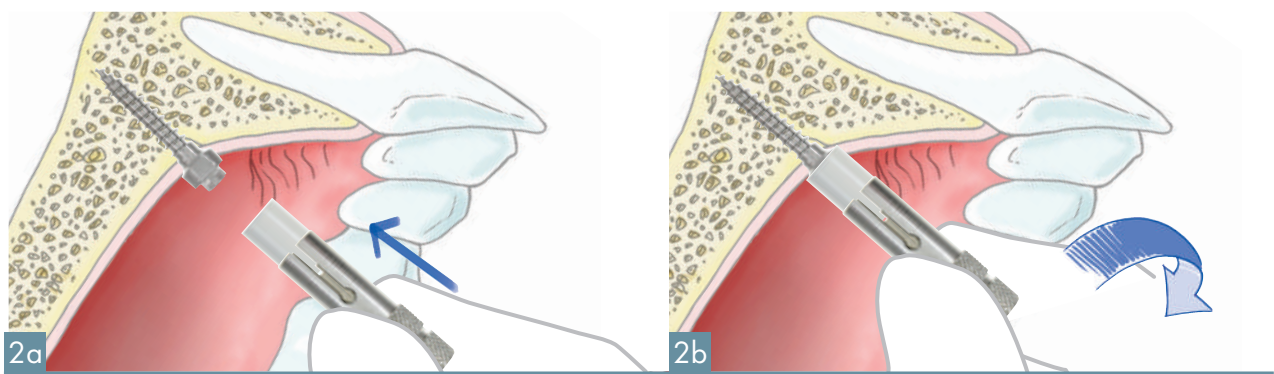


Replace the assembly analog+transfer into its seating in the impression. The specific shape of the transfer allows to easily perceive when a correct insertion is achieved. Make a dental cast where the analogs are embedded.

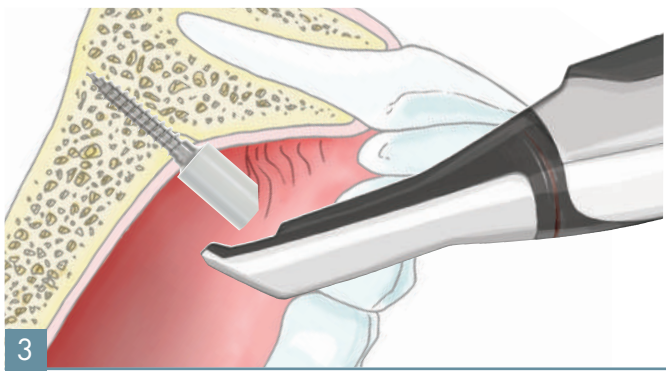
DIGITAL IMPRESSION TAKING



Insert the Scanbody in the dedicated positioner for Scanbody, ensuring the achievement of the perfect coupling.



Screw the Scanbody for TAD PA Bhifasic on the emerging portion of the TADs.



Take a digital impression to create a digital model.



Proc. 08\_04-21 April 1, 2021



**NEW**

TADs VL are mini screws specifically designed for fixed vestibular or lingual anchorage of appropriate devices or for the use of wire segments and/or springs to facilitate tooth movement by means of an orthodontic traction. Made of medical grade 5 titanium, thanks to the self-drilling tip and the special threaded geometry with a diameter of 2 mm and a length of 8 mm, they guarantee a simple, minimally invasive surgical procedure and an excellent primary stability.

**TAD VL  
WITH DOUBLE SLOT**  
MADE OF MEDICAL GRADE 5 TITANIUM



**TAD VL  
WITH BUTTON HEAD**  
MADE OF MEDICAL GRADE 5 TITANIUM



BUTTON AND  
THROUGH-HOLE  
FOR EASY APPLICATION  
OF CHAINS, ELASTICS, ETC.

SELF-DRILLING COIL  
ENSURES A SIMPLE SURGICAL PROCEDURE  
AND HIGH PRIMARY STABILITY



STERILE VIAL  
WITH IMPLANT CARRIER  
IN COLOR CODE ACCORDING TO HEIGHT  
AND TITANIUM SUPPORT

NEW

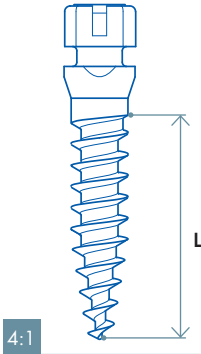


TAD VL  
WITH DOUBLE SLOT

The head of the mini screw is available in two transmucosal heights (low head and high head) and features a double closed slot for the application of wire segments and/or springs. The double slot section is .019" x .025", suitable for round or rectangular wires. The surgical procedure is minimal invasive, single stage, transmucosal, with an excellent primary stability for immediate orthodontic traction application. The TADs VL with double slot are provided sterile, ready to use with the corresponding Leone accessories and surgical instruments.

Pack of 1

Ø		L	
		mm	mm
		low head	8
			005-2008-13
		2	
		high head	8
			005-2008-14



DUAL CROSS  
SLOT



NEW

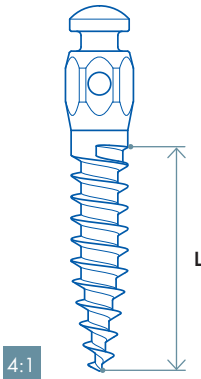


TAD VL  
WITH BUTTON HEAD

The mini screw head is available in two transmucosal heights (low head and high head) with a button-shaped morphology and a through-hole to facilitate the application of elastic tractions and coil springs. The surgical procedure is minimal invasive, single stage, transmucosal, with an excellent primary stability for immediate orthodontic traction application. The TADs VL with button head are provided sterile, ready to use with the corresponding Leone accessories and surgical instruments.

Pack of 1

Ø		L	
		mm	mm
		low head	8
			005-2008-11
		2	
		high head	8
			005-2008-12



BUTTON AND  
THROUGH-HOLE



**090-1134-00 090-1334-00**

1:1



Ø	1,1 mm	1,3 mm
L	9 mm	12 mm

**DRILLS  
FOR TADs**

Made of stainless steel.  
They allow a pilot hole to be made in  
case of high bone density.  
**Pack of 1**



**080-1001-00  
MUCOTOME  
FOR TAD VL**

Made of medical grade 5 titanium.  
The cutting edge with a diameter of 2.2  
mm allows adequate tissue flap crea-  
tion. It is attached to the screwdriver for  
adapters (REF 080-1000-00).  
Autoclavable.  
**Pack of 1**



**080-1001-01  
CIRCULAR SCALPEL  
FOR HANDPIECE**

Made of medical grade 5 titanium.  
The cutting edge with a diameter of 2.2  
mm allows adequate tissue flap creation  
using the contra-angle handpiece.  
Autoclavable.  
**Pack of 1**



**080-1002-00  
HANDPIECE ADAPTER  
FOR TADs VL  
WITH BUTTON**

Made of stainless steel, with elastomer  
blue ring. It allows the insertion of TADs  
VL with button using the contra-angle  
handpiece, even in hard-to-reach areas.  
Autoclavable.  
**Pack of 1**



**080-1002-01  
HANDPIECE ADAPTER  
FOR TAD VL  
WITH DOUBLE SLOT**

Made of stainless steel.  
It allows the insertion of TADs VL with dou-  
ble slot using the contra-angle handpiece,  
even in hard-to-reach areas.  
Autoclavable.  
**Pack of 1**



**080-1003-00**  
**ADAPTER**  
**FOR SCREWDRIVER**  
**AND RATCHET**  
**FOR TAD VL WITH BUTTON**

Made of stainless steel, with elastomer blue ring. It allows the insertion of TADs VL with button in rear hard-to-reach areas with the hand surgical screwdriver (REF 156-1001-01) or ratchet (REF 156-1014-00). Autoclavable.

Pack of 1

**156-1001-01**  
**HAND SCREWDRIVER**



Made of medical grade 5 titanium. To tighten or loosen the TADs VL with button with screwdriver adapter and ratchet (REF 080-1003-00). With a through-hole for the safety wire. (Product in the Leone Implant System Catalogue). Autoclavable.

Pack of 1



**156-1014-00**  
**RATCHET**

Made of medical grade 5 titanium. To tighten or loosen the TADs VL with button with screwdriver adapter and ratchet (REF 080-1003-00). Do not disassemble. (Product in the Leone Implant System Catalogue). Autoclavable.

Pack of 1

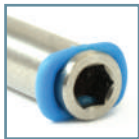


1:2

**080-1000-00**  
**SCREWDRIVER**  
**FOR ADAPTERS**

Made of aluminum. To tighten or loosen the TADs with the use of adapters. Autoclavable.

Pack of 1

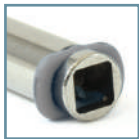


1:1

**080-1000-22**  
**ADAPTER FOR TAD VL**  
**WITH BUTTON**

Made of stainless steel, with elastomer blue ring. To tighten or loosen the TADs VL with button with the screwdriver for adapters (REF 080-1000-00). Autoclavable.

Pack of 1



1:1

**080-1000-23**  
**ADAPTER FOR TAD VL**  
**WITH DOUBLE SLOT**

Made of stainless steel, with elastomer grey ring. To hand tighten or loosen the TADs VL with the screwdriver for adapters (REF 080-1000-00). Autoclavable.

Pack of 1

**070-0001-06**  
**SURGICAL KIT**  
**FOR TADs VL**

**NEW**

Made of PPSU plastic material, it has been designed to sterilize and keep organized only the necessary instruments on the surgical field for the insertion of TADs VL both with contra-angle and hand instruments.

The hinged cover when opened tilts the position of the kit and allows an easy access to instruments.

The kit is made up of 6 instruments (it can be filled up to 13):

- screwdriver for adapters
- adapter for TAD VL with button
- adapter for TAD VL with double slot
- handpiece adapter for TAD VL with button
- handpiece adapter for TAD VL with double slot
- adapter for screwdriver and ratchet for TAD VL with button

Entirely autoclavable.



**NEW**

**070-0001-00**  
**EMPTY KIT**

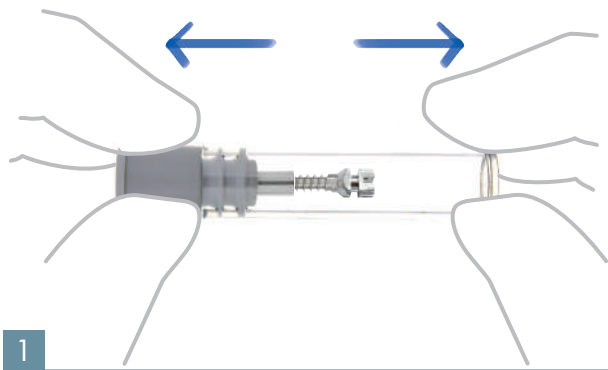




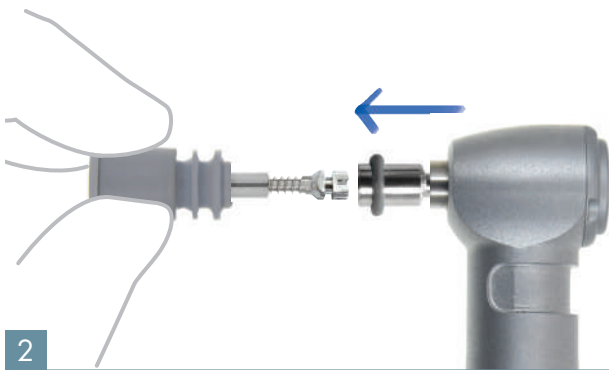
SURGICAL PROCEDURE

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 take all the factors that might arise from pre-surgical exams into consideration, such as: anamnesis, objective exams, radiological, instrumental and laboratory investigations.

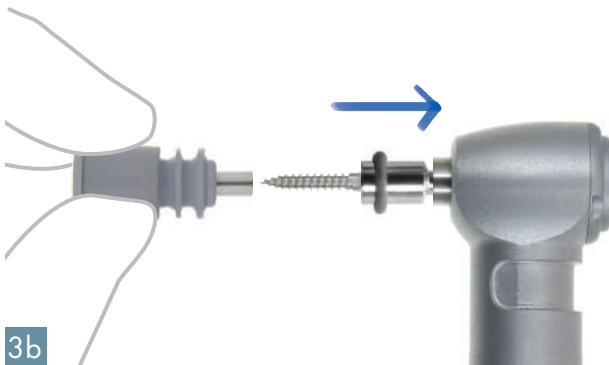
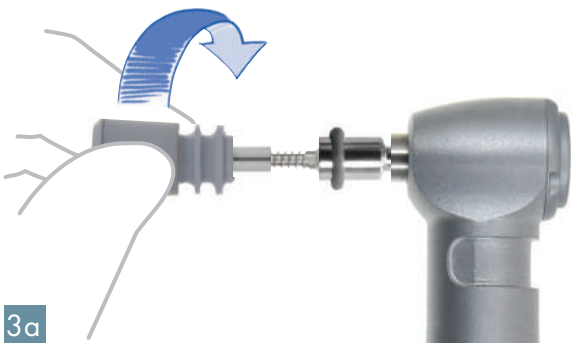
Once the surgical site and the more appropriate TAD VL have been determined, anesthetize the anatomical site. TADs VL are self-drilling, however in case of high bone density or thickness, it is suggested to pre-drill the cortical bone with one of the two drills available for mini implants (REF 090-1134-00 or REF 090-1334-00) to insert the TAD VL more easily.



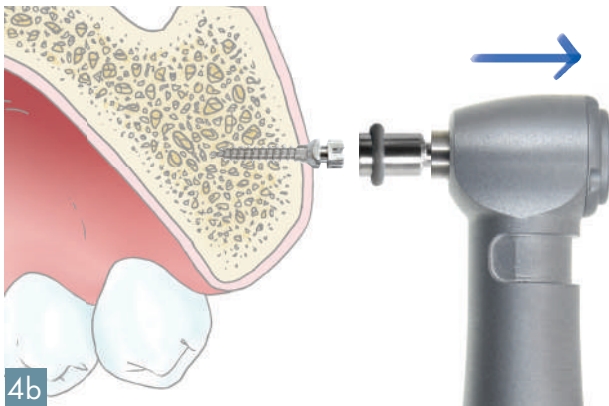
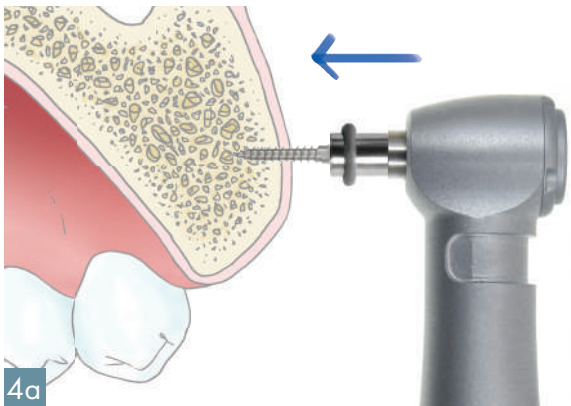
1 Exert a gentle traction on the vial cap, remove the TAD VL from the sterile vial.




2 Connect the dedicated handpiece adapter to the TAD VL head.



Once positioned the TAD VL into the instrument, remove the implant cap with a gentle counterclockwise rotary movement.



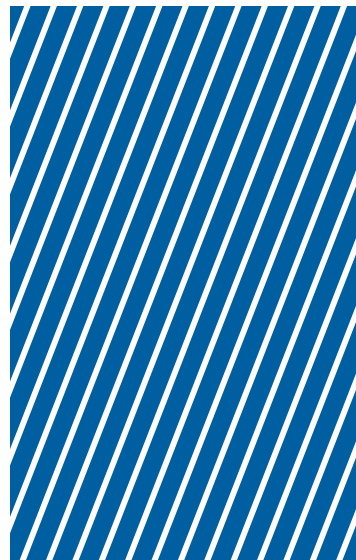
Set a maximum speed of 25 rpm and a maximum torque of 40 Ncm, start drilling the TAD VL along the entire length of the endosseous part.

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# PLIERS AND INSTRUMENTS



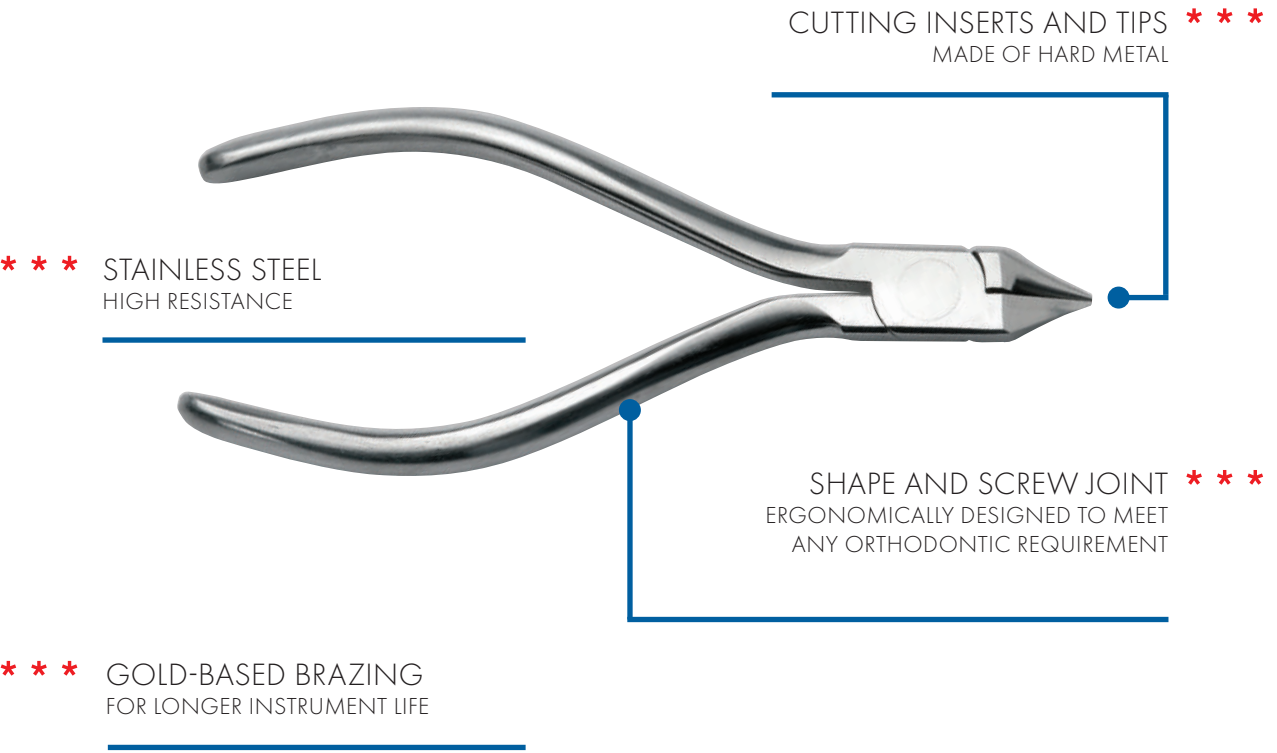
**P**



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**

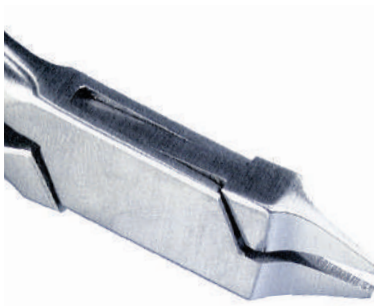
A pliers designed to make loops in round or rectangular wires up to .022"x.028" (0,56x0,71 mm). The cylindrical beaks has two sections: .043" (1,09 mm) and .063" (1,60 mm).

**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.



**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**  
**HEAVY 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.



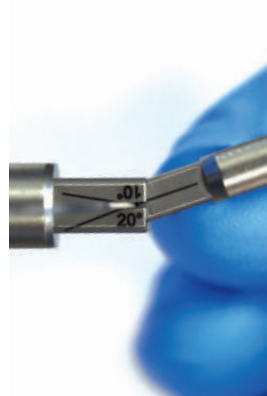
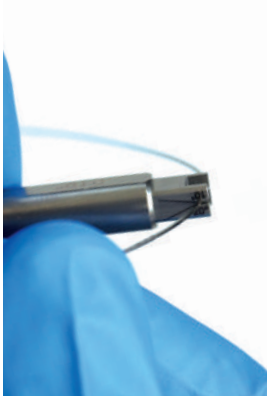
**P1906-00** \* \* \*  
**THREE JAW PLIERS  
 ADERER STYLE  
 MEDIUM**

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.



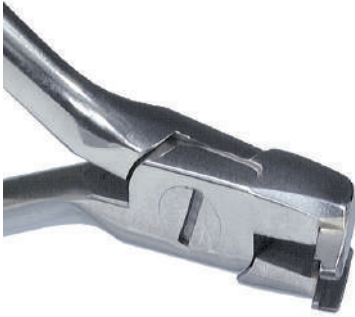
**P1912-00** \* \* \*  
**ARCH FORMING**  
**AND CONTOURING PLIERS**

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**  
**MICRO 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).





**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.

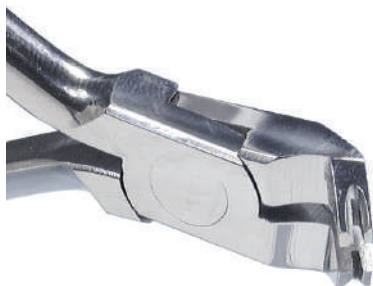
**Caution:** maximum cutting capacity:

- ligature wire up to .014" (0,36 mm).



**P1099-00**  
**HEAVY**  
**DUTY CUTTER**

For hard wires up to 1,5 mm.



**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.



**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.

**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.



**P1099-00**  
**HEAVY DUTY  
CUTTER**

For hard wires up to 1,5 mm

**P1034-93** \* \* \*  
**THREE JAW PLIERS ROUND  
WITH ARM BENDING  
INSTRUMENT FOR  
EXPANDERS**  
(see page 209)



**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.



A range of 10 instruments has been selected to meet any orthodontic basic requirement.

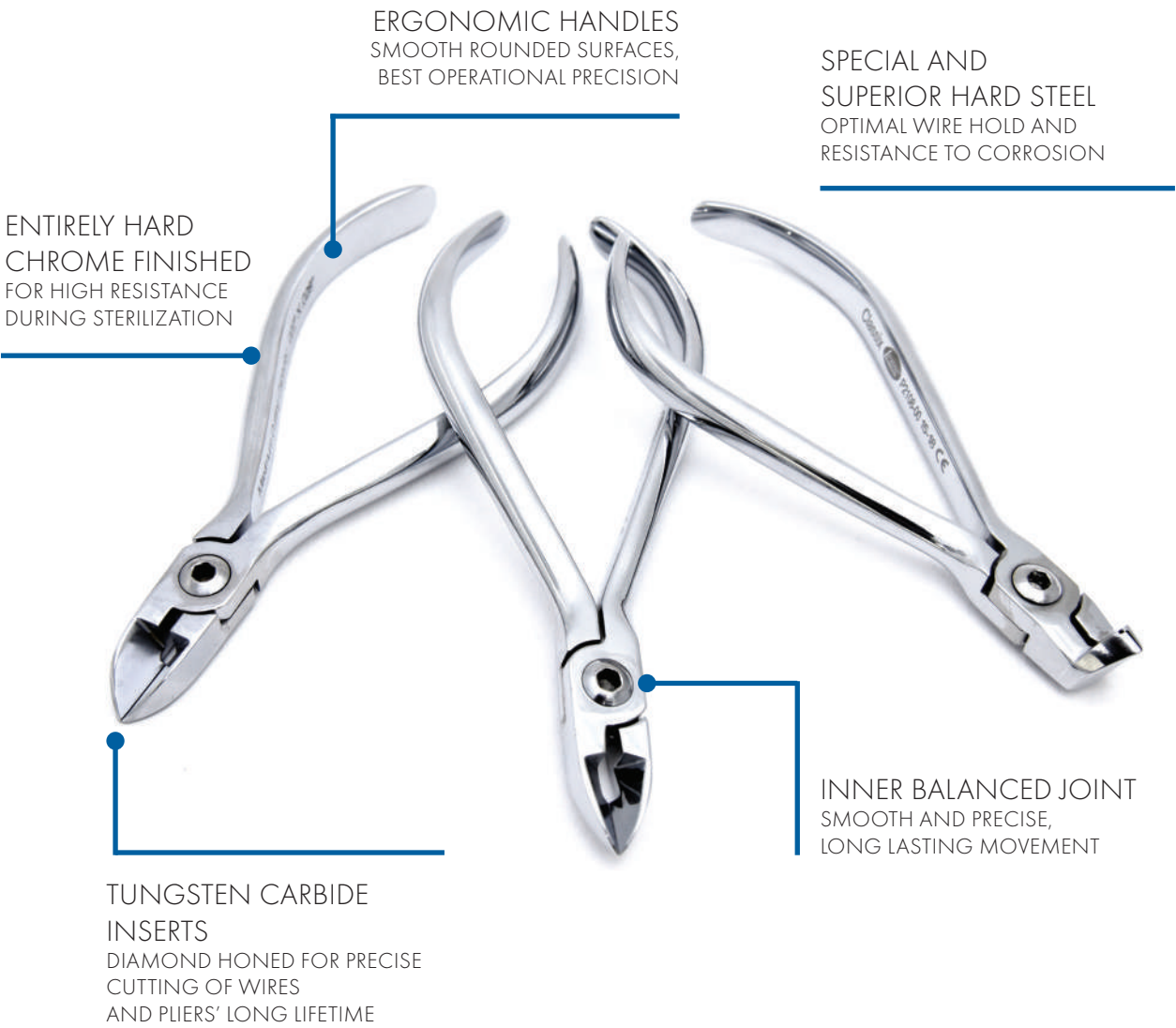
**Classix** pliers and cutters are manufactured with a special and superior hard steel to afford an optimal wire hold and resistance to corrosion of tips.

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.



**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.



**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



**P2105-00**  
**BAND REMOVING**  
**PLIERS**

When the pliers is closed, the non-padded remover tip does not get in contact with the acetabular 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**



**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.



**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)



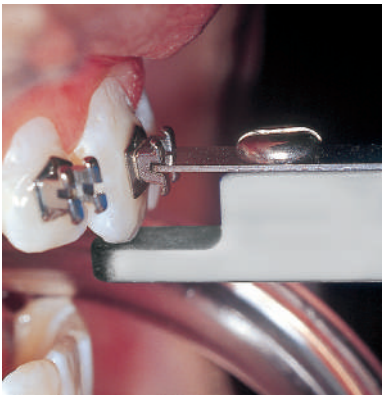
**P1403-00**  
**WRENCH**  
**FOR CLASSIX PLIERS**

For pliers joint.



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



**P1026-00**  
**STAINLESS STEEL**  
**UNIVERSAL BRACKET ALTIMETER**

A small device for measurement of the right height of bracket slots.



**P1509-00**  
**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.



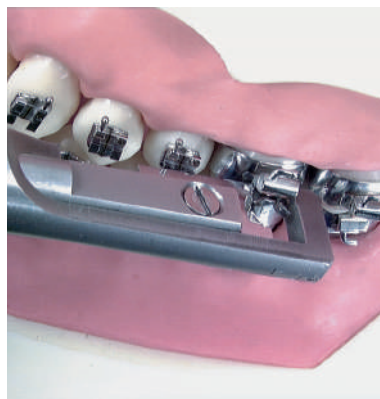
**P1630-00**  
**MODELLING SPATULA**  
**LE CRON STYLE**



**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**  
**REFILL TIPS**  
**FOR P1090-00**  
Pack of 2



**P1001-01**  
**BAND DRIVER OFFSET TIP**

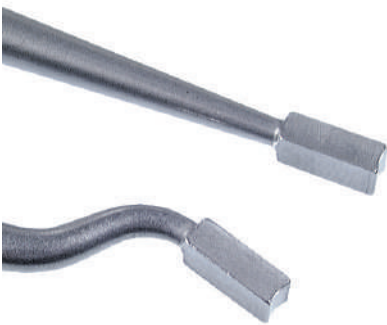
\* \* \*

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**  
**REFILL TIP**  
**FOR P1001-01**

**P1003-01**  
**REFILL TIP**  
**FOR P1000-01**



**P1077-00**  
**MERSHON BAND ADAPTER**



**P1092-00**  
**BAND**  
**ADAPTER**

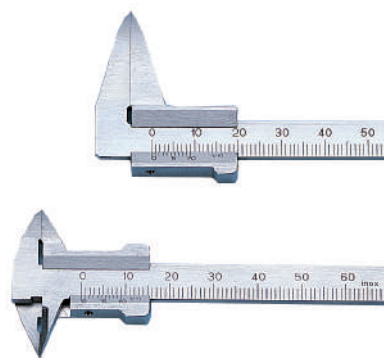
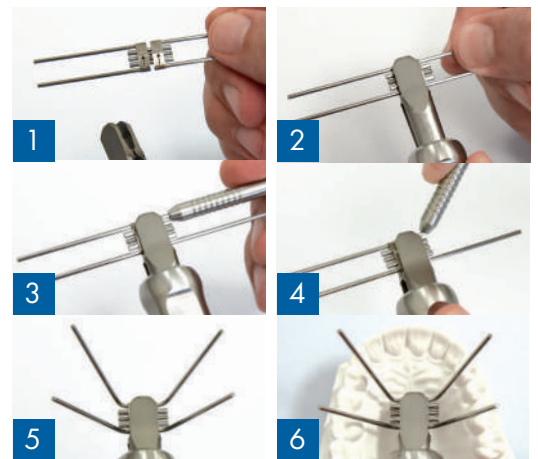
Simple, user-friendly and practical.  
It allows the band to be adapted to tooth anatomy, without nicking or damaging it.



## 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.

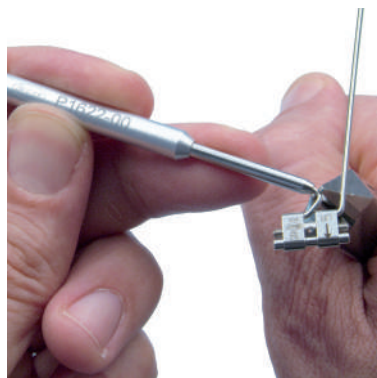
		for expanders
	<b>P0620-00</b>	<b>A0620-08/09/11/13/15</b> <b>A2620-07/10/12</b>
	<b>P0630-00</b>	<b>A0631-08/10/12</b>
	<b>P0621-00</b>	<b>A0621-08/11</b> <b>A1621-08/11/13</b>
	<b>P0625-09</b>	<b>A0625-09</b>
	<b>P0625-07</b>	<b>A0625-07</b>



## 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



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**

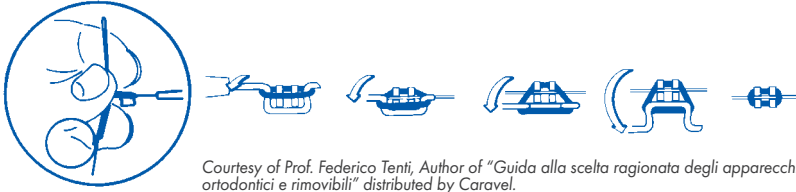
Double ended for placement or removal of elastics. Necessary for tucking metal ligatures.

**P1500-00**  
**ELASTIC LIGATURE  
THREADER**

It facilitates placement of elastic ligatures under bracket tie wings.

**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.



Courtesy of Prof. Federico Tenti, Author of "Guida alla scelta ragionata degli apparecchi ortodontici e rimovibili" distributed by Caravel.



**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.

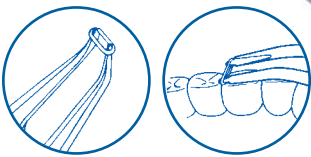




**LIGATURE TYING PLIER  
MATHIEU STYLE**

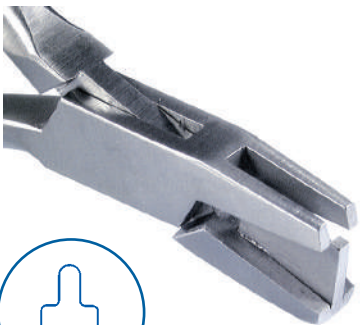
**P1160-00** Tips of 2,5 mm

**P1161-00** Tips of 1,5 mm



**P1141-00  
SEPARATOR PLACING  
PLIERS**

For use with radio opaque separators  
K6378-03.



**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

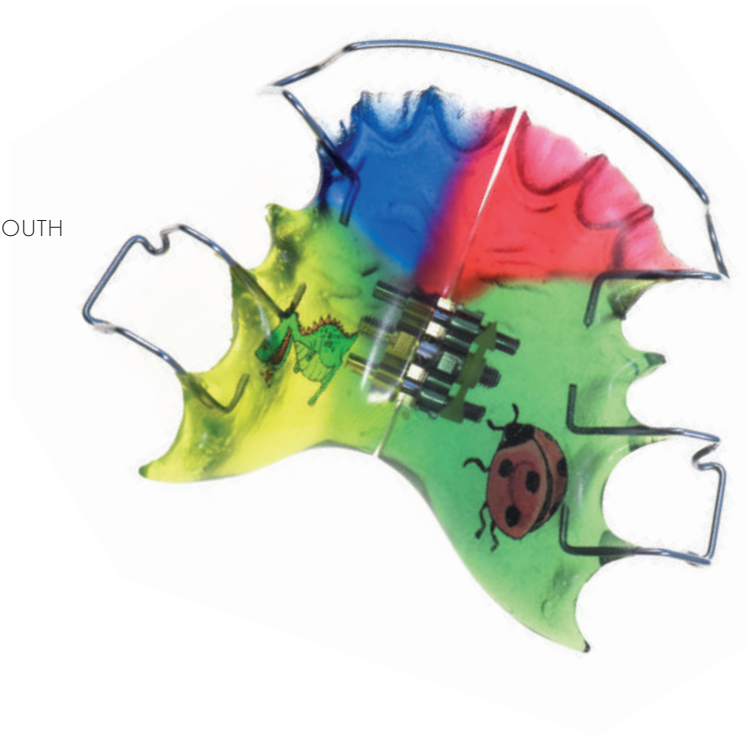


**R**



Our **LEOCRIL® 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 PRECISIO**  
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:**

- 1 Kg powder
- 0,5 L liquid
- spray flasks for powder/liquid
- funnels, beakers, insulator

**R6222-95  
CLEAR A**

- clear liquid A
- clear powder

**R6223-95  
TRANSPARENT PINK B**

- transparent pink B
- clear powder

**INTRODUCTORY kit:**

- Necessary in the dental office.
- 60 g powder
  - 45 ml liquid

**R6202-93  
CLEAR A**

- clear liquid A
- clear powder

**R6203-93  
TRANSPARENT PINK B**

- transparent pink B
- clear powder



**LEOCRYL® ARCOBALENO - LIQUID**

colour				pkg.	pkg.
red	D	R6124-00	R6134-00	250 ml	0,5 L
purple	E	R6125-00	R6135-00		
fluorescent yellow	H	R6128-00	R6138-00		
green	I	R6129-00	R6139-00		
turquoise	L	R6130-00	R6140-00		
blue	M	R6131-00	R6141-00		



**LEOCRYL®  
LIQUID MONOMER**

colour		pkg.
clear	A	R6122-00 0,5 L
		R6142-02 1 L
transparent pink	B	R6123-00 0,5 L
		R6143-02 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**

**REFILLS OF MOTIFS**      Pack of 10



**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





**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**

Pack of 5



**R5025-00**

Pack 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**

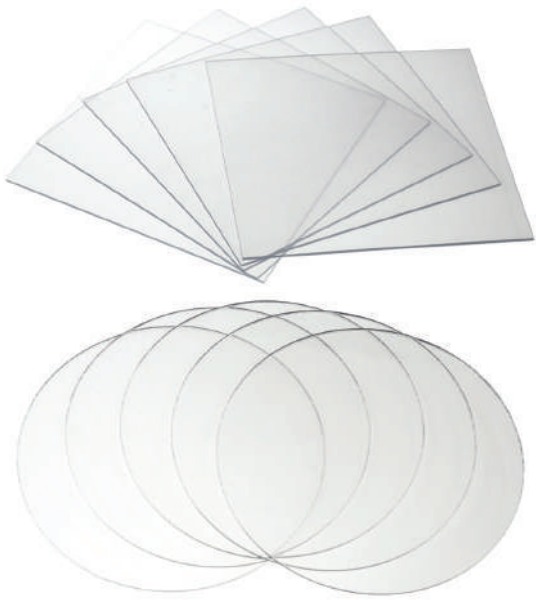
Pack of 0,5 L



**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.



○ THERMOFORMABLE DISCS Ø 120 mm

	thickness	package
<b>R7001-05</b>	0,5 mm	25 pcs
<b>NEW</b> <b>R7001-07</b>	0,7 mm	25 pcs
<b>R7001-08</b>	0,8 mm	25 pcs
<b>R7001-10</b>	1,0 mm	25 pcs
<b>R7001-15</b>	1,5 mm	15 pcs
<b>R7001-20</b>	2,0 mm	10 pcs
<b>R7001-905</b>	0,5 mm	1000 pcs
<b>NEW</b> <b>R7001-907</b>	0,7 mm	1000 pcs
<b>R7001-908</b>	0,8 mm	1000 pcs
<b>R7001-910</b>	1,0 mm	1000 pcs



○ THERMOFORMABLE DISCS Ø 125 mm

	thickness	package
<b>R7002-05</b>	0,5 mm	25 pcs
<b>NEW</b> <b>R7002-07</b>	0,7 mm	25 pcs
<b>R7002-08</b>	0,8 mm	25 pcs
<b>R7002-10</b>	1,0 mm	25 pcs
<b>R7002-15</b>	1,5 mm	15 pcs
<b>R7002-20</b>	2,0 mm	10 pcs
<b>NEW</b> <b>R7002-907</b>	0,7 mm	1000 pcs
<b>R7002-908</b>	0,8 mm	1000 pcs
<b>R7002-910</b>	1,0 mm	1000 pcs



□ THERMOFORMABLE PLATES 125 x 125 mm

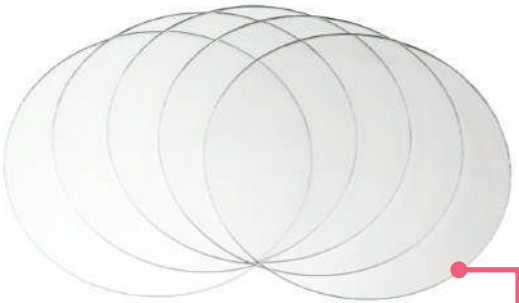
	thickness	package
<b>R7013-05</b>	0,5 mm	25 pcs
<b>NEW</b> <b>R7013-07</b>	0,7 mm	25 pcs
<b>R7013-08</b>	0,8 mm	25 pcs
<b>R7013-10</b>	1,0 mm	25 pcs
<b>R7013-15</b>	1,5 mm	15 pcs
<b>R7013-20</b>	2,0 mm	10 pcs

**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.



NEW



### HARD/SOFT BIOCOMPATIBLE THERMOFORMABLE MATERIAL

The discs and plates are characterized by a soft side, usually in contact with the model, and a rigid side. The soft side is made of EVA (Ethylene Vinyl Acetate) while the hard side is made of PET-G (glycol-modified polyethylene terephthalate). Packaged in vacuum bags to preserve the discs or plates from any humidity. Featured by a white removable film on the soft side, that can be used even during the thermoforming phase. The acrylic resin perfectly adheres to the rigid side of the thermoformable material, making it suitable for making occlusal splints and a basic product for the construction of resin appliances, such as anti-snoring devices, ensuring comfortable retention even in the absence of metal hooks. Once thermoformed, the material is highly resistant to breakage.

Packs of 10 in vacuum bags



○	HARD/SOFT DISCS Ø 120 mm	
	thickness	package
<b>R7111-02</b>	2 mm	10 pcs
<b>R7111-03</b>	3 mm	10 pcs

○	HARD/SOFT DISCS Ø 125 mm	
	thickness	package
<b>R7112-02</b>	2 mm	10 pcs
<b>R7112-03</b>	3 mm	10 pcs

□	HARD/SOFT PLATES 125x125 mm	
	thickness	package
<b>R7123-02</b>	2 mm	10 pcs
<b>R7123-03</b>	3 mm	10 pcs



VACUUM  
BAGS



**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 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.**

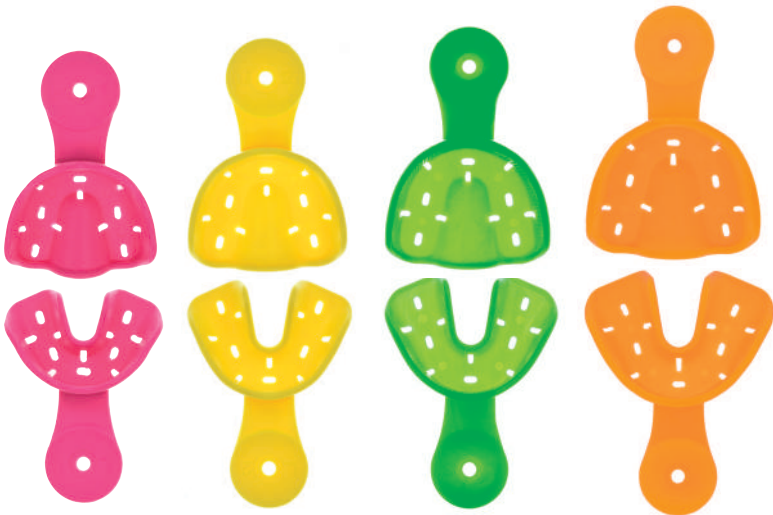


**R0227-01  
THERMO INSULATOR  
PASTE FOR SOLDERS**

It protects plaster and resin during soldering procedure. Excellent consistency. Easy to remove with water.

**Pack of 235 ml**





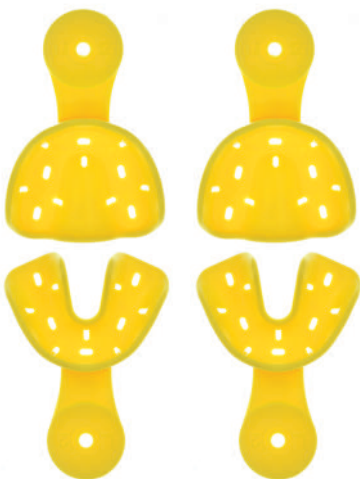
**R2300-95**  
**IMPRESSION TRAYS**  
**KIT**

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.



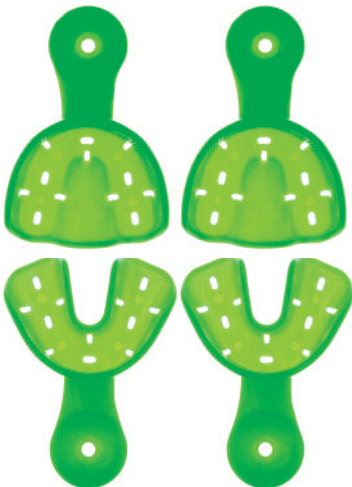
**R2300-01**  
**IMPRESSION TRAY**  
**PINK - SIZE 1**

The package includes  
2 pairs of pink impression trays  
Size 1, the smallest size  
**Pack of 4 pcs:**  
2 upper and 2 lower



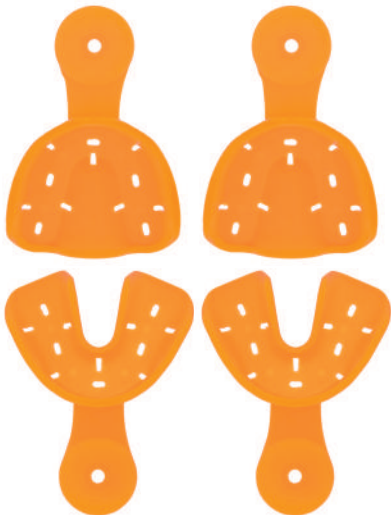
**R2300-02**  
**IMPRESSION TRAY**  
**YELLOW - SIZE 2**

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



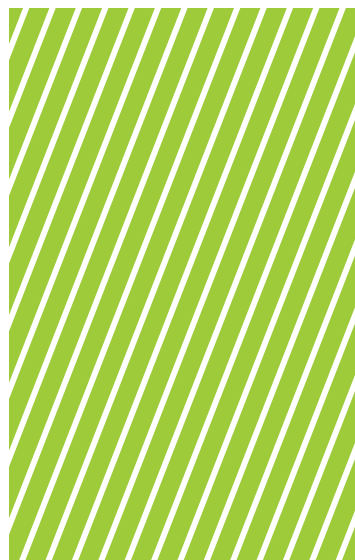
**R2300-04**  
**IMPRESSION TRAY**  
**ORANGE - SIZE 4**

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



**T**



**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**

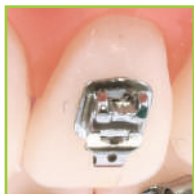




**T3457-00**  
**DEMONSTRATION MODEL - AQUA SL**



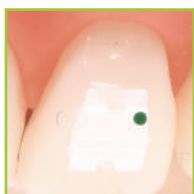
**T3411-00**  
**DEMONSTRATION MODEL - INTERACTIVE SL**



**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



**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.**





**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

**T3355-00  
MODELBOX**

Transparent PVC model containers supplied with pre shaped sponges for full protection of models.  
**Pack of 100**



**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**



**WAX BASES FOR TYPODONT**

**T3332-00** Class I  
**T3336-00** Normal occlusion  
**T3337-00** Class II, I div.  
**T3338-00** Class II, II div.  
**T3339-00** Class III

**Pack of 2,**  
upper and lower



**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 HYDROFLASK**

- |                 |                          |
|-----------------|--------------------------|
| <b>T2300-00</b> | Hydroflask lid           |
| <b>T2301-00</b> | Rubber seal for lid      |
| <b>T2302-00</b> | Air valve                |
| <b>T2303-00</b> | Thermometer for T1315-00 |
| <b>T2304-00</b> | 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**

- |                 |      |
|-----------------|------|
| <b>T3360-00</b> | Blue |
| <b>T3361-00</b> | 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**

- |                 |      |
|-----------------|------|
| <b>T3350-00</b> | Blue |
| <b>T3351-00</b> | 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 lame per gesso

**T1567-00** 12 lame per metallo



**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



**T1200-00**  
**PLIER RACK**



**T1203-00**  
**PLIER RACK**

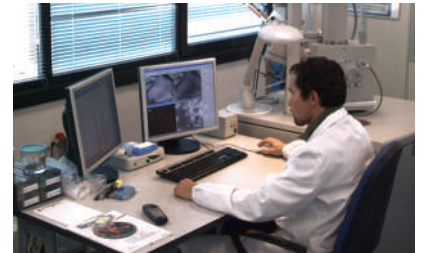


**T1212-00**  
**STANDARD ARCHWIRE HOLDER**



## 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.665/2022 of Brazil and other dispositions and updates, and of others non-European Countries of final product's destination.



## 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.





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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

On the various tables of catalogue we used symbols to better indicate the characteristics of our products. Below are the symbols used:		dimensions		rotation of tube	
		diameter		upper right	
		inner diameter		upper left	
one turn of screw		torque of bracket		lower right	
expansion		torque of tube		lower left	
length		slot		savings package	
height		angulation			































Safety data sheets of our products can be downloaded from our web site: [www.leone.it](http://www.leone.it)

REGISTERED  
TRADEMARKS



## 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 (manufactured in compliance with 93/42EEC Directive or Reg. 2017/745 on Class IR-IIA-IIB medical devices)	 (*)	expiry date, if the product is perishable (year/month/day)	 (*) 2030-12-31	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 (manufactured in compliance with 93/42EEC Directive or Reg. 2017/745 on medical devices)	 (*)	attention: see attached documents	 (*)	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	 (*)	with content or presence of natural rubber latex  (*)
read the instructions for use enclosed	 (*)	read the digital instructions for use available at the specified website	 (*) www.leone.it	medical device  (*)
patient identification	 (*)	single patient - multiple use	 (*)	patient information website  (*)
name of health care center or physician	 (*)	number of use less one	 (*)	UDI Barcode / UDI Datamatrix Unique Device Identification "UDI" for the identification and the traceability of the medical device  (01) 08033707080893 (10) 21012701 (91) 216C000001 (240) 002-1708-01 (17) 260127  (*)
date	 (*)	model number	 (*)	
orthodontics	 (*)	implantology	 (*)	

\* 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



**ISTITUTO STUDI  
ODONTOIATRICI**

## EDUCATION, TRAINING AND UPGRADE

ISO Istituto Studi Odontoiatrici, the scientific division and training center of Leone, operates throughout the national territory with the aim of promoting and disseminating orthodontics and implantology at increasingly higher levels. In over more than 40 years of activity, it has organized and managed events for about 54,000 course participants.

ISO offers a complete program of basic and advanced courses, theoretical, practical, and clinical, along with events and congresses for medical-surgeons, dentists, and specialists in dental and orthognathic orthodontics. There are also courses dedicated to dental technicians and the teaching of orthodontic and implant merchandise for Italian and foreign commercial operators.

## A STATE-OF-THE ART FACILITY

The location in Florence, established in 1982, is divided over two floors, with a total area of 1,000 square meters. The first floor, besides accommodating spaces for reception and secretarial services, is entirely dedicated to teaching rooms:

- a dental studio equipped with 3 units for live demonstrations of orthodontic and implant interventions on patients,
- an adjoining 40-seat room for physicians who visually participate in the interventions,
- intraoral and extraoral cameras connected to the network make all interventions visible in real-time in the various rooms,
- a fully equipped dental laboratory with 18 workstations,
- a multipurpose room for 80 course participants, also equipped with an Active Classroom environment, an integrated system of an interactive multimedia Active Board and responders for active participation during the course.

On the second floor:

- The "Marco Pozzi" Aula Magna is equipped with all multimedia devices and accommodates up to 250 attendees.

The didactic tools provided by ISO for the courses which are held by experienced speakers, offer participants the opportunity to fully appreciate their validity, obtaining the maximum benefit.



ISO RECEPTION OFFICE

**+39 055 30 44 58**

iso@leone.it - leone.it/english/iso

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## HOW TO REACH LEONE

### BY PLANE

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.



## CONTACTS

**+39 055 30 44 620**

**info@leone.it - leone.it**

INFORMATION NOTE FOR DISTRIBUTORS:  
EUROPEAN REGULATION ON MEDICAL DEVICES, TRACEABILITY AND NEW REQUIREMENTS

The European Regulation (EU) 2017/745 on Medical Devices (MDR), came into force on May 26, 2021, imposes compliance obligations not only on manufacturers but also on all other economic operators in the supply chain, such as "distributors" (in the sense of what is specifically defined in the regulation itself), with regard to verification, traceability and post-marketing surveillance (e.g. notification to the manufacturer of any non-compliance, complaints or suspected incidents). For further information, please visit the following web site: <https://ec.europa.eu/docsroom/documents/33862> where you can find a factsheet issued by the European Commission, available in every language for any Member State. Among the range of dental devices supplied by Leone Spa, there are also products that qualify as medical devices for dental use, and, as a retailer of the aforementioned products, your organization will assume the qualification of "distributor", in accordance with the aforementioned regulation. Among responsibilities of distributor (Art. 14 of the MDR), there is the traceability of medical devices (Art. 25 of the MDR), which must be documented and made available for the control of the competent authorities, up to 15 years for implantable medical devices and 10 years for other dental medical devices. Leone S.p.A. has always paid the utmost attention to compliance with current regulations. We therefore take this opportunity to remind you of the importance of respecting the new legislative regulations in order to ensure the continuity of our mutual commercial relations.

GENERAL PRODUCT INFORMATION

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[www.leone.it/general-product-info](http://www.leone.it/general-product-info)

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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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.

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