

ORTHODONTICS

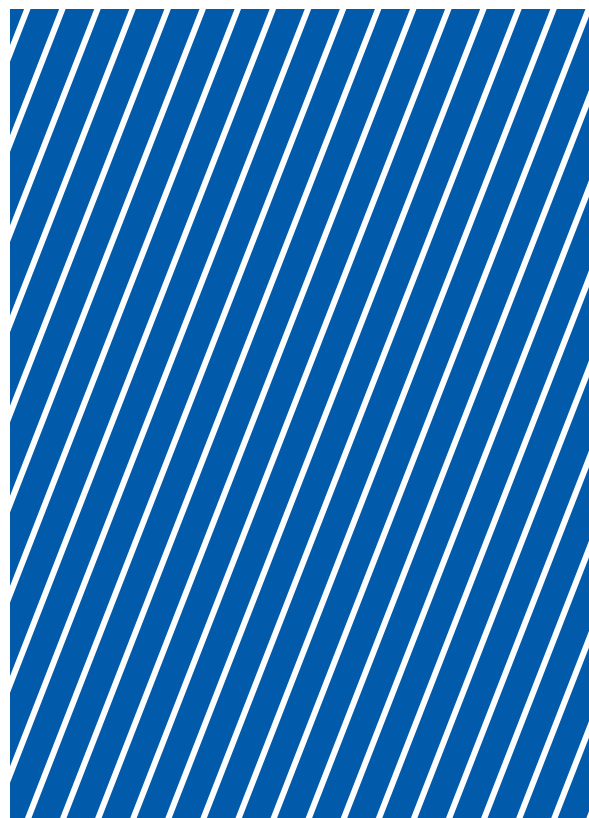
PRODUCT CATALOGUE

31st Italian edition

16th English edition
2024

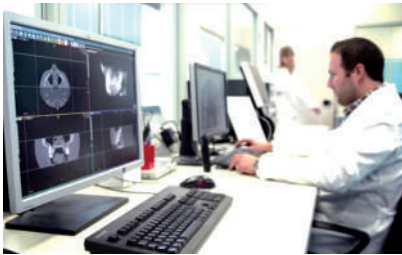


ORTHODONTICS AND IMPLANTOLOGY
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Professional skills, experience, and innovation make Leone the leading Italian company in the production of dental products. Keeping an eye onto the rapidly evolving market and customer needs, Leone pays particular attention 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.



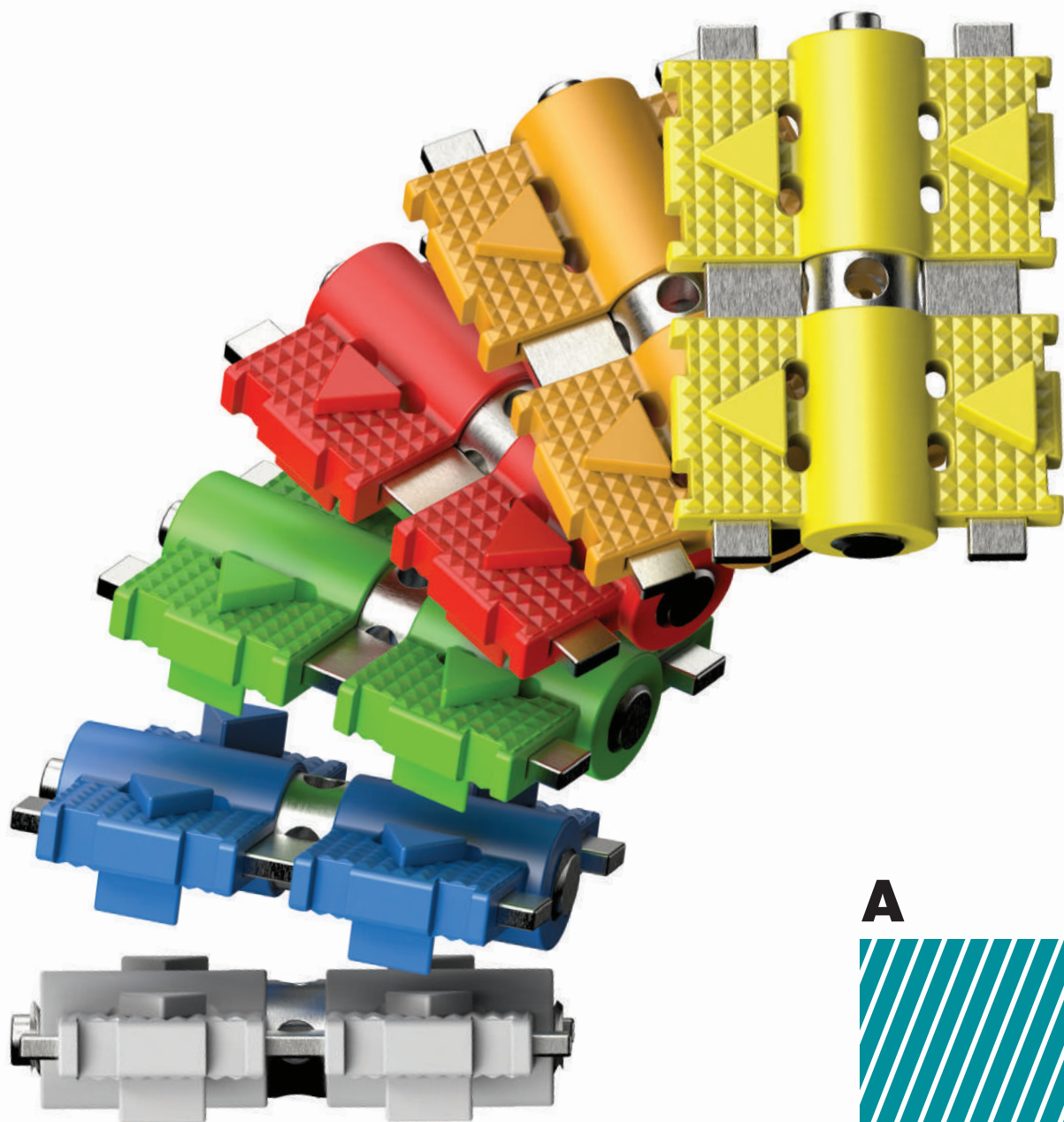
CONTACT YOUR DEALER IN YOUR COUNTRY AS A REFERENCE

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) except for the connecting charges. Videos are also available on our web-site: www.leone.it/english/orthodontics

	<ul style="list-style-type: none"> ● EXPANSION SCREWS 	pages 5-36
A	<ul style="list-style-type: none"> ● DIGITAL WORKFLOW DEVICES ● ANTISNORING APPLIANCES 	<p>pages 37-46</p> <p>pages 47-56</p>
	C WIRE AND WIRE FORMS	pages 57-74
	E BANDS	pages 75-92
	F DIRECT BONDING	pages 93-144
	G BRACKETS AND TUBES	pages 145-154
	K ELASTICS AND LIGATURES	pages 155-164
	M INTRA-EXTRAORAL	pages 165-174
	O TADs TEMPORARY ANCHORAGE DEVICES	pages 175-192
	P PLIERS AND INSTRUMENTS	pages 193-212
	R OFFICE AND LABORATORY SUPPLIES	pages 213-222
	T DIAGNOSTIC AND LABORATORY EQUIPMENT	pages 223-230

EXPANSION SCREWS



A

POP® EXPANSION SCREWS

leone®

PERFECT ORTHODONTIC PERFORMANCE

POP!

Perfect Orthodontic Performance

THE INNOVATIVE AND BIOMECHANICAL ORTHODONTIC EXPANSION SCREW *

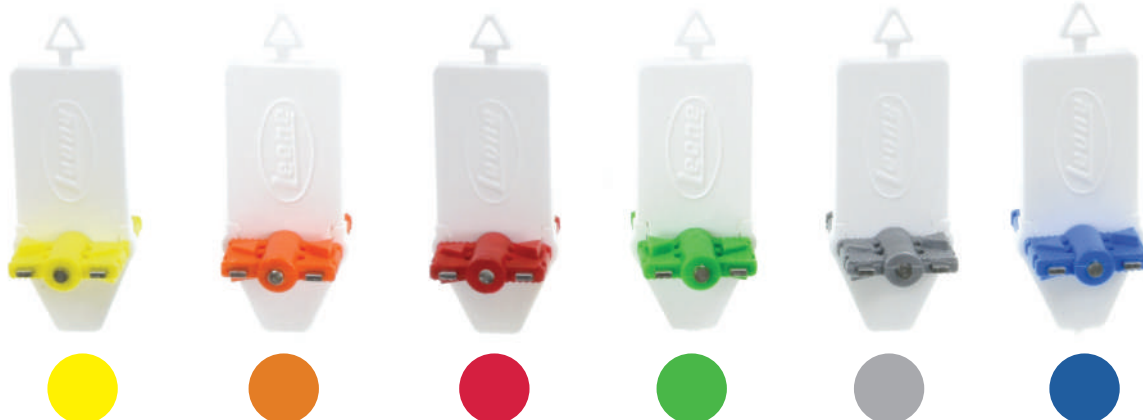
TECHNO POLYMER

SELF-CENTERING
RECTANGULAR GUIDES

EMBOSSED
ARROWS

BIOMEDICAL
STAINLESS STEEL

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.



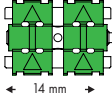



POP® EXPANSION SCREWS

PERFECT ORTHODONTIC PERFORMANCE



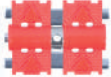




POP® SCREW FOR UPPER ARCH

↻ ↺ ↻ pkg.


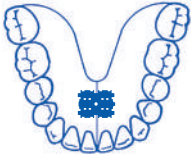
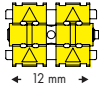



0,8 mm 9 mm

	yellow	orange	red	green	silver	blue		
								
	A4805-14G	A4805-14E	A4805-14R	A4805-14V	A4805-14T	A4805-14A	10	
ASSORTED COLOURS	 x2						A4805-90	12








POP® SCREW UNIVERSAL

↻ ↺ ↻ pkg.

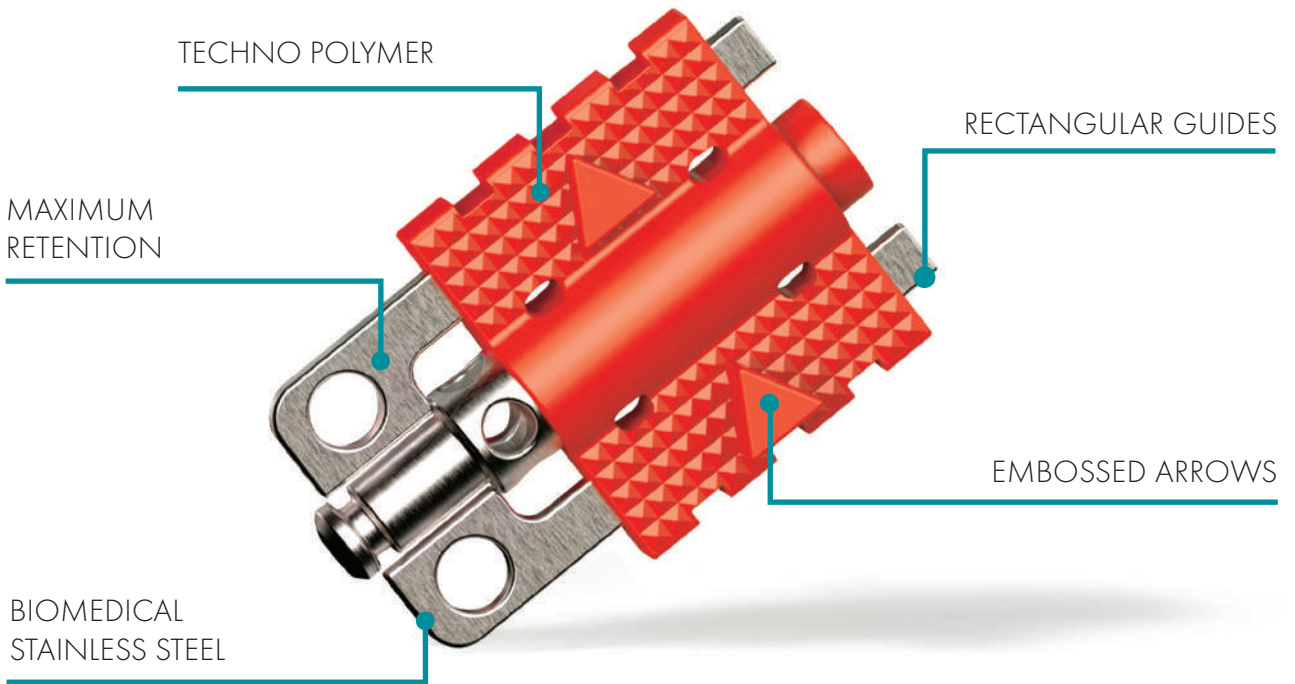


0,7 mm 8 mm

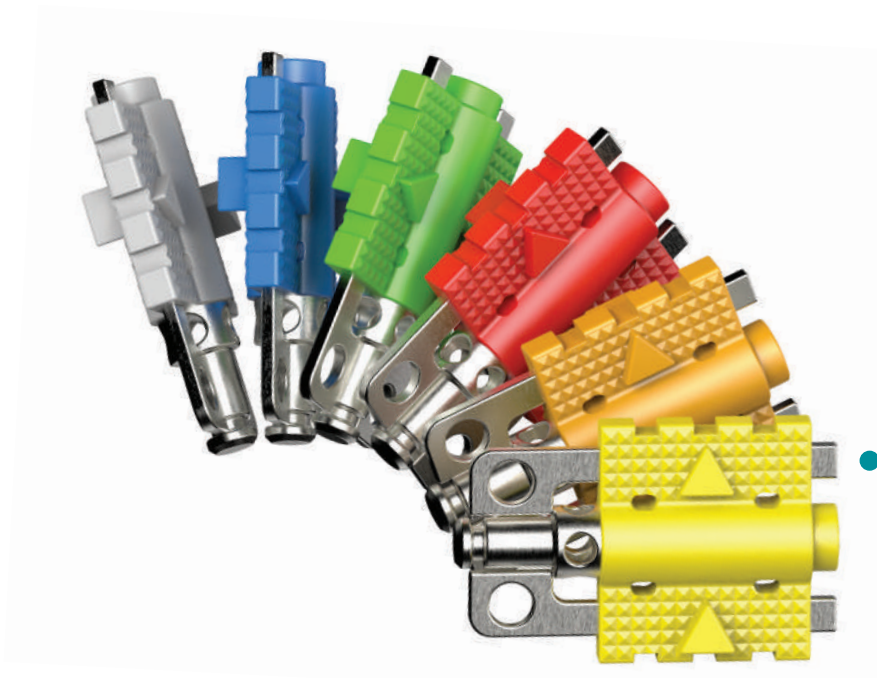
	yellow	orange	red	green	silver	blue		
								
	A4800-12G	A4800-12E	A4800-12R	A4800-12V	A4800-12T	A4800-12A	10	
ASSORTED COLOURS	 x2						A4800-90	12

POP!

Perfect Orthodontic Performance



AVAILABLE IN 6 COLOURS





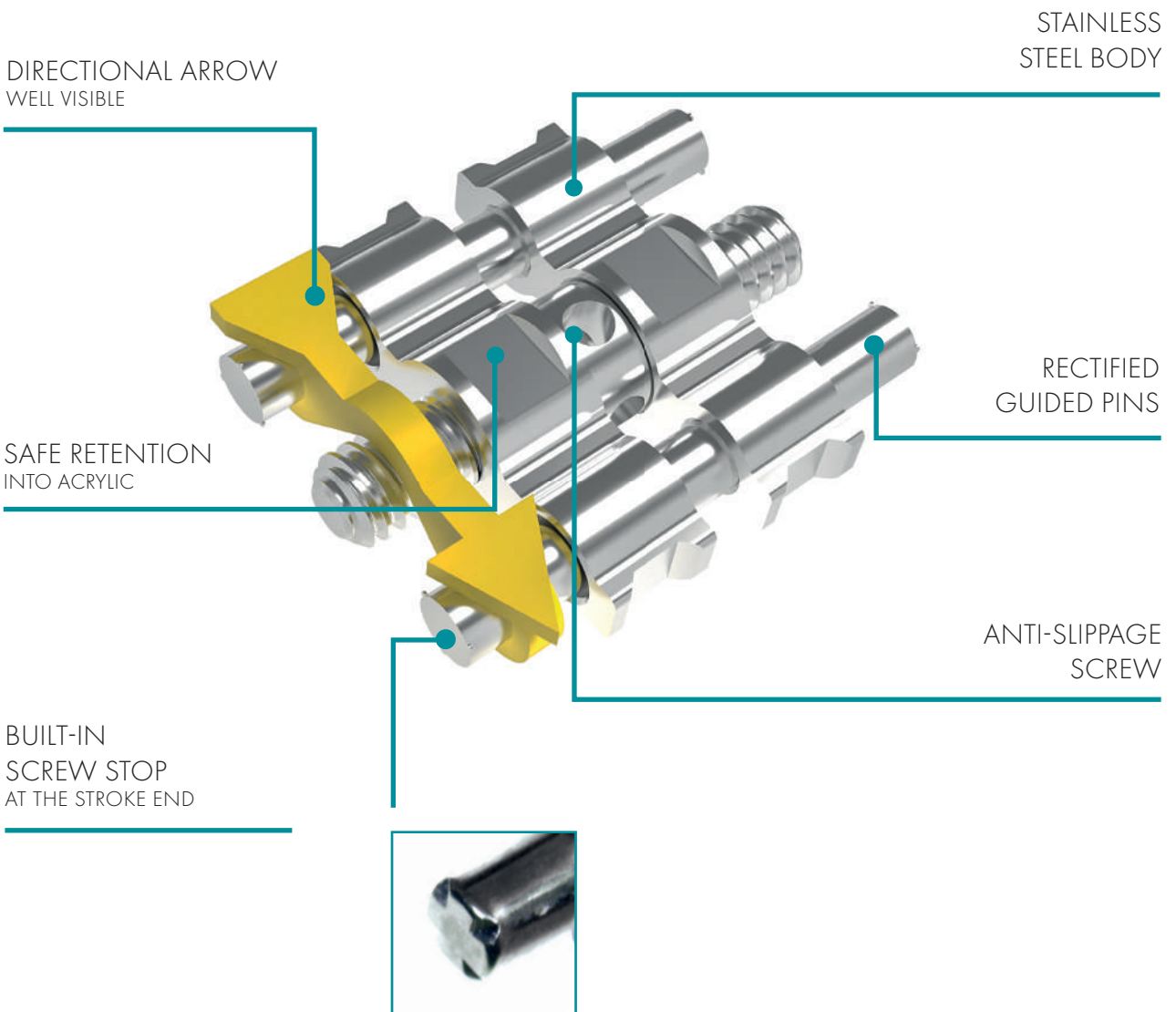
- The **POP® MICRO SECTIONAL SCREW** is added to the already known POP SCREW range to increase therapeutic options.
- Made of stainless steel and biomedical techno polymer.
- The male screw is not in contact with the orthodontic acrylic resin: its functionality will not be influenced by the quality of 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.	
yellow	orange	red	green	silver	blue				
A4801-00G	A4801-00E	A4801-00R	A4801-00V	A4801-00T	A4801-00A			10	
ASSORTED COLOURS							x2	A4801-90	12

The Leone expansion screws for removable orthodontic appliances derive from 80 years of extensive research, design and millions of clinical cases. The entire production process takes place in Italy with computer aided 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 ± 0.01 mm which ensure stability and precision. The wide range available allows the production of any type of removable device.



STANDARD SCREW FOR UPPER APPLIANCES

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

MEDIUM SCREW

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

UNIVERSAL SCREW

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

SUPER MICRO SCREW

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

SUPER MICRO SECTIONAL SCREW



					pkg.
 ← 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



					pkg.
 ← 13 mm →	 3 mm 7,25 mm	0,4 mm	4 mm	A0802-00	10
				A0802-95	100
 ← 13 mm →	 3 mm 7,25 mm	0,4 mm	4 mm	A0802-13	10
				A0802-96	100



MICRO SECTIONAL SCREW WITH STRAIGHT U-SHAPED GUIDE PIN



					pkg.
 ← 12 mm →	 3 mm 7,25 mm	0,4 mm	4 mm	A0801-12	10
				A0801-96	100
 ← 14 mm →	 3 mm 7,25 mm	0,4 mm	6 mm	A0801-13	10
				A0801-98	100
 ← 14 mm →	 3 mm 7,25 mm	0,4 mm	4 mm	A0801-14	10
				A0801-97	100



MICRO SECTIONAL SCREW

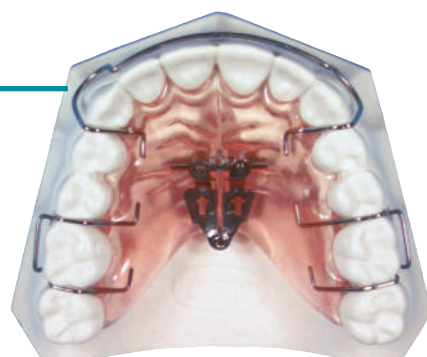
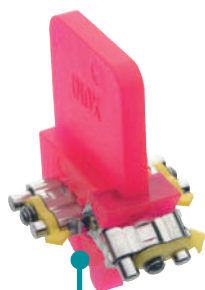


					pkg.
 ← 10 mm →	 3 mm 7,25 mm	0,4 mm	4 mm	A0801-10	10
				A0801-95	100
 ← 12 mm →	 3 mm 7,25 mm	0,4 mm	6 mm	A0801-00	10
				A0801-99	100

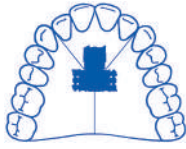
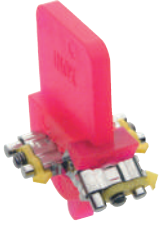




The assortment of special expansion screws proposed by Leone derives from over 30 years experience in the manufacture of expansion screws. Screw selection ranges from the Pagani classical fan-type screw, to the Bertoni three directional ones, up to the kit for construction of the Twin Wing class II corrector.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

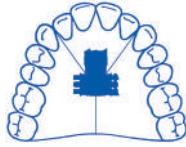


3 activation points

					pkg.
		0,4 mm	3 mm	A0930-14	1
		0,4 mm	3 mm	A0930-93	5
		0,4 mm	4 mm	A0930-16	1
		0,4 mm	4 mm	A0930-94	5



THREE DIRECTIONAL SCREW ANATOMICAL

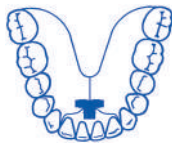


2 activation points

					pkg.
		0,4 mm protrusive	3 mm	A0931-14	1
		0,8 mm transversal	6 mm	A0931-93	5
		0,4 mm protrusive	4 mm	A0931-16	1
		0,8 mm transversal	8 mm	A0931-94	5



THREE DIRECTIONAL SCREW ANATOMICAL FOR LOWER ARCH



2 activation points

					pkg.
		0,4 mm protrusive	2,5 mm	A0932-13	1
		0,8 mm transversal	4 mm	A0932-93	5



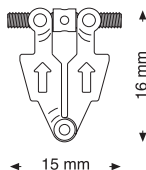
TRAPEZOIDAL SCREW



					pkg.
		0,8 mm	5 mm	A0813-00	10
		0,8 mm	5 mm	A0813-95	100



FAN-TYPE SCREW



0,8 mm 9 mm

pkg.

A0515-14 1

A0515-95 100



ASYMMETRIC FAN-TYPE SCREW



0,8 mm 9 mm

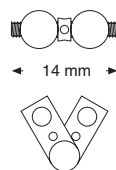
pkg.

A0516-14 1

A0516-95 100



FAN-TYPE SCREW 2 PIECES



0,8 mm 9 mm

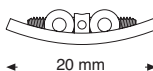
pkg.

A0815-14 1

A0815-95 100



MANDIBULAR BOW SCREW



0,8 mm 5 mm

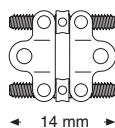
pkg.

A0517-25 1

A0517-95 100



BI-FAN-TYPE SCREW



0,8 mm 9 mm

pkg.

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.

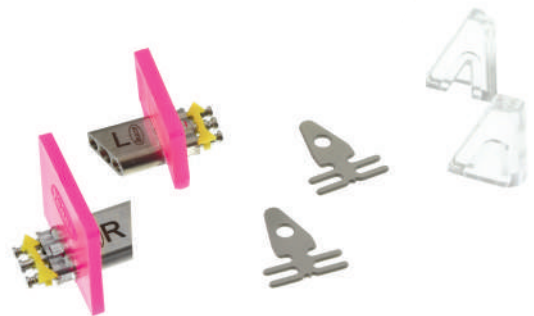
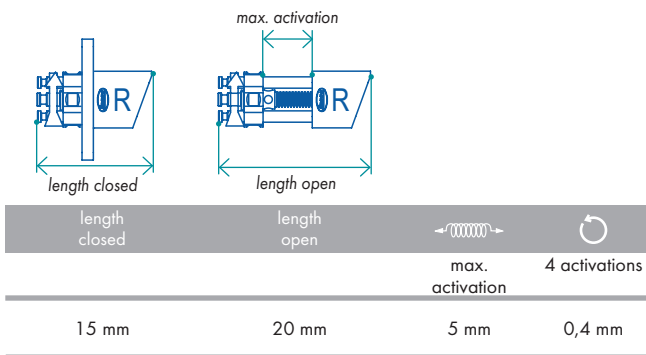
The kit, especially designed for the realization of this innovative appliance, contains all the components for an easier and more precise construction.

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

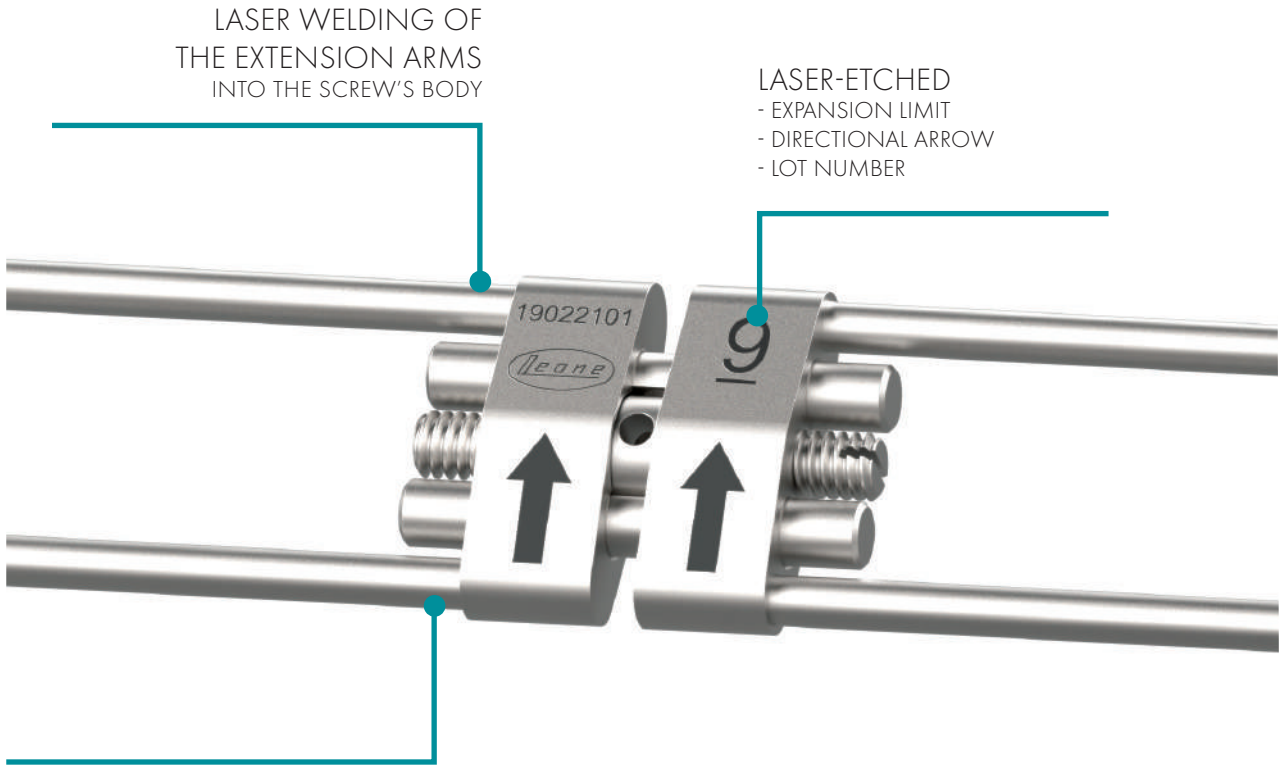


Pack content:

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



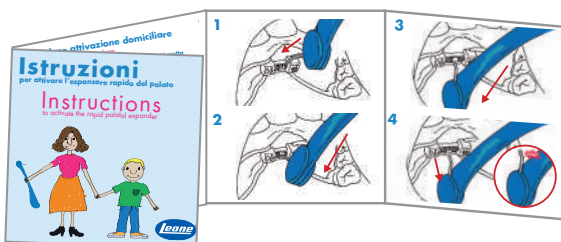
Leone palatal expanders have been known worldwide for more than 50 years and they're now the most complete range of expanders in the market. The 620 series is a superior product made in various dimensions with many advanced features including laser welding of the extension arms into the body of the expander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



MADE ENTIRELY OF BIOMEDICAL STAINLESS STEEL



SWIVEL KEY
ALSO AVAILABLE WITH ACTIVATION TURN COUNTER



INSTRUCTIONS FOR USE OF EXPANDERS
USEFUL FOR PARENTS AND DOCTOR



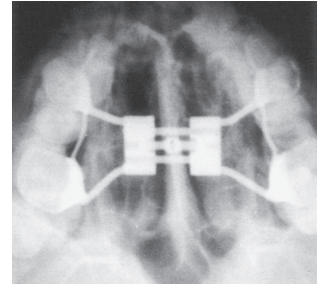
RAPID EXPANDER
The best-selling palatal expander in the world









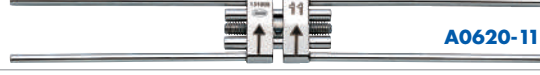

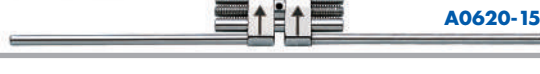
Made entirely of biomedical stainless steel. The housing design is completely smooth, with no rough areas for a secure hygiene. The expander limit, a directional arrow and the lot number are laser etched into the surface of the expander's body. Supplied with a swivel key with handle and instructions 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
 A0620-08			1,5 mm	12 mm	8 mm	0,8 mm	35
 A0620-09			1,5 mm	14 mm	9 mm	0,8 mm	40
 A0620-11			1,5 mm	16 mm	11 mm	0,8 mm	50
 A0620-13			1,5 mm	18 mm	13 mm	0,8 mm	60
 A0620-15			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.



2



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



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

*PATENTED



**RAPID EXPANDER
WITH PRE-BENT ARMS**

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

Pack of 1



Swivel key included in the package

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

RAPID EXPANDER WITH TELESCOPIC GUIDES












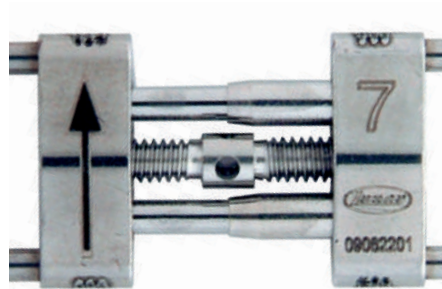
The innovative telescopic guides assure a constant friction throughout the expansion movement, perfect stability and small sizes. It self-deactivates when maximum expansion capacity has been achieved, preventing overtreatment. The 7 mm expander is ideal to treat very narrow palates. The expanders with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

							activation turns
	11 mm	4 mm	arms	body			for maximum expansion limit
 A2620-07			1,5 mm	11 mm	7 mm	0,8 mm	35
 A2620-10			1,5 mm	14 mm	10 mm	0,8 mm	50
 A2620-12			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.

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

EASY ACCESS MICRO EXPANDER FOR PALATAL SUTURE

A1621 expander called "Easy Access" is comparable to the existing A0621, but once placed in the device, the body of the screw will remain closer to the palate with minimized overall dimensions; the head with activation holes remains in front position respect to the guide pin for easier activation with the key. Provided with one swivel key with handle and instructions for use to facilitate the patient endoral activation. The arm bending and self-locking instrument REF P0621-00 (page 31) is also available.

Pack of 1



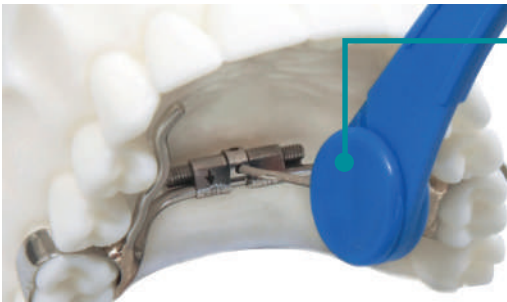
Swivel key included in the package











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



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

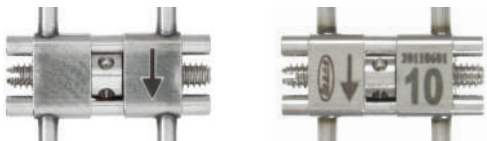
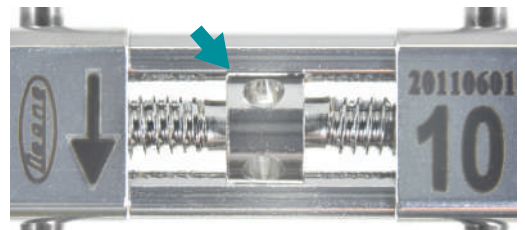


Swivel key included in the package



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

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



- Two different placements are possible thanks to the marking of the arrows on both sides of the screw.
- Available in three expansion capacities for every therapeutic need.

	6 mm	4,5 mm	arms	body	8 mm	0,8 mm	activation turns for maximum expansion limit
A0631-08			1,5 mm	12 mm	8 mm	0,8 mm	35
A0631-10			1,5 mm	14 mm	10 mm	0,8 mm	45
A0631-12			1,5 mm	16 mm	12 mm	0,8 mm	55

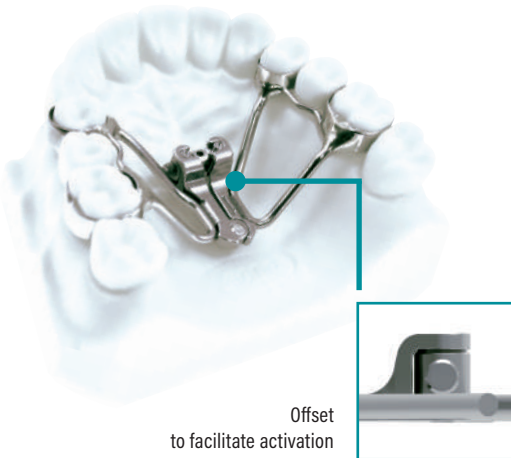
**RAGNO FAN-TYPE
RAPID EXPANDER AND MINI RAPID EXPANDER ***

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.

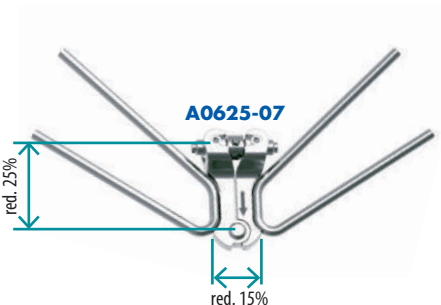
The arm bending and self-locking instruments REF P0625-09 for expander A0625-09 and REF P0625-07 for A0625-07 mini expander (page 31) are also available.

Pack of 1



Swivel key included in the package

**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

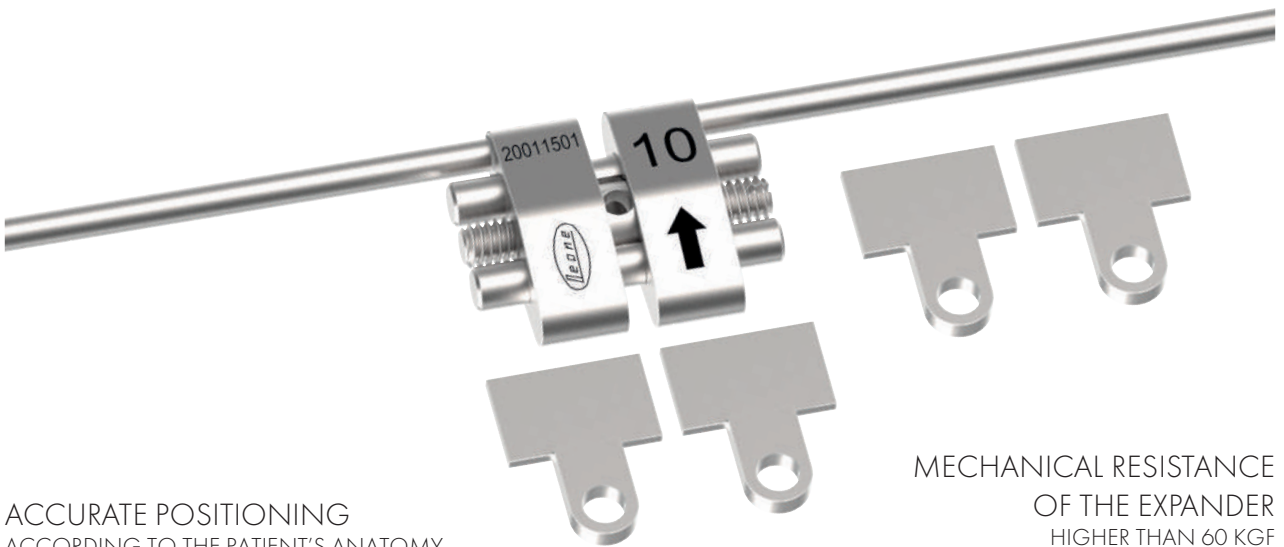
IT ALLOWS THE MANUFACTURING OF TOTALLY CUSTOMIZED EXPANDERS BOTH HYBRID (TEETH AND TADs) AND FULLY BONE BORNE



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.

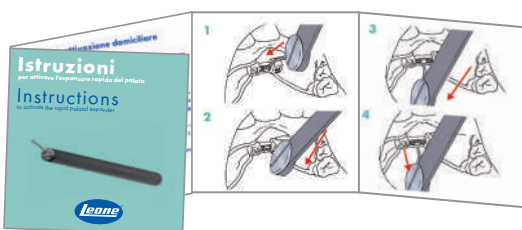
Pack content:

- 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










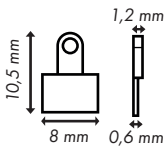




INSTRUCTIONS TO ACTIVATE THE EXPANDER
 USEFUL FOR PARENTS AND CLINICIANS

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





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



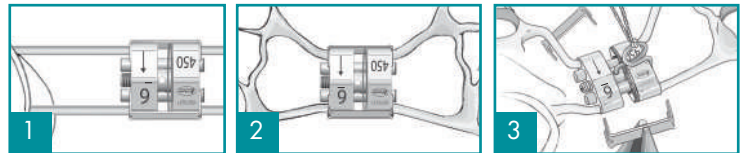
LEAF EXPANDER® **MEMORIA® LEAF SPRING ACTIVATED EXPANDER ***

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

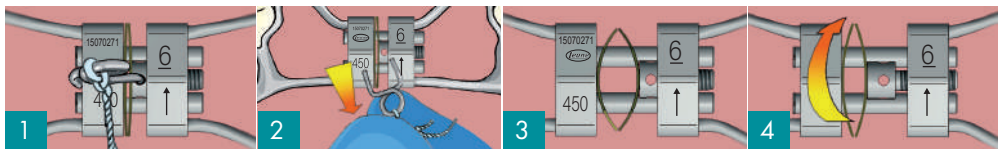


ok ORTHODONTICS FOR KIDS



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

INTRA-ORAL UTILIZATION CHART



ACTIVATION PROTOCOL	LEAF expander cementation	FIRST phase	SECOND phase	THIRD phase
6 mm A2703-06 A2704-06	spring activation 0 turns	after 6 weeks	10 turns	after 4 weeks 10 turns
9 mm A2703-09 A2704-09	spring activation 0 turns	after 8 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 *

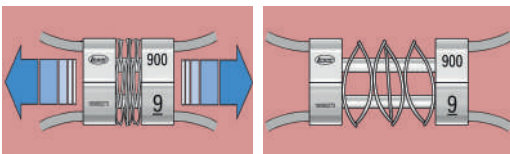
It includes all advantages of the Leaf expander without the need for periodic reactivation. The effectiveness of this expander is based entirely on the elastic capacity of the leaf springs made of Nickel Titanium that release controlled and continuous forces. The choice of the expander is decided on 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.

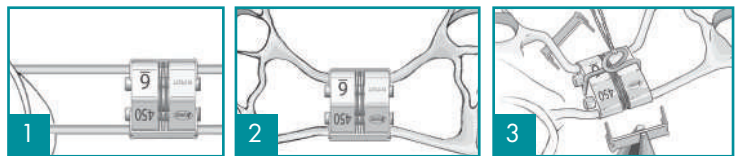
Inside the package is also available practical instructions for use where all the construction steps and methods of delivery are illustrated.

Pack of 1

ok ORTHODONTICS
FOR KIDS



staple



	11 mm	4 mm	∅	↔	↔
			arms	body	
A2705-06					
4 springs					
450 g approx.			1,5 mm	11 mm	6 mm
A2706-06					
4 springs					
900 g approx.					
A2705-09					
6 springs					
450 g approx.			1,5 mm	15 mm	9 mm
A2706-09					
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 for maximum expansion limit
--	--	--	--	--	--	--



16 mm 11 0,8 mm 50

A3620-11

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



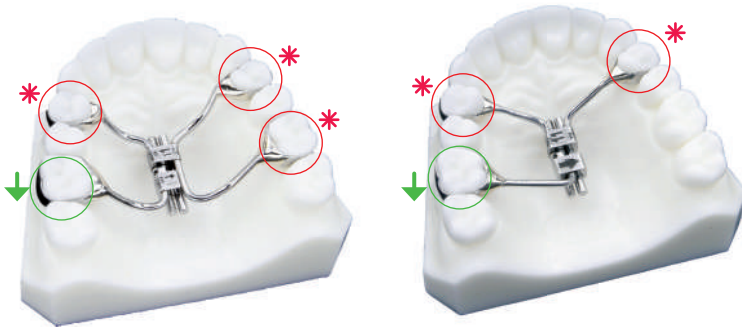
16 mm 11 0,8 mm 50

A3621-11

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 for maximum expansion limit
--	--	--	--	--	--	--



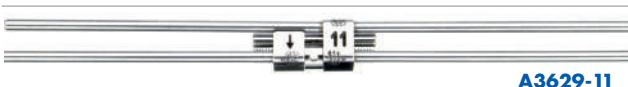
16 11 0,8 mm 50

A3626-11



16 11 0,8 mm 50

A3628-11



16 11 0,8 mm 50

A3629-11

L

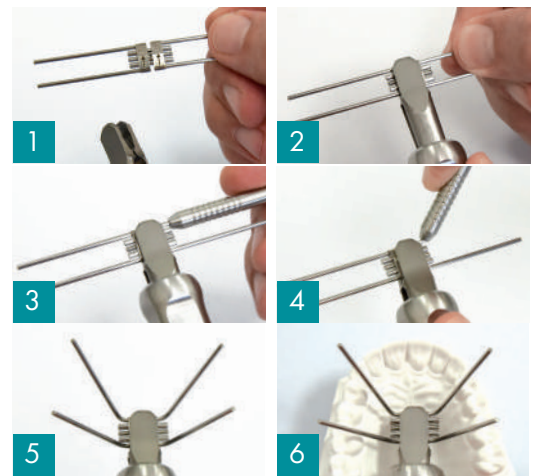
*PATENTED



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

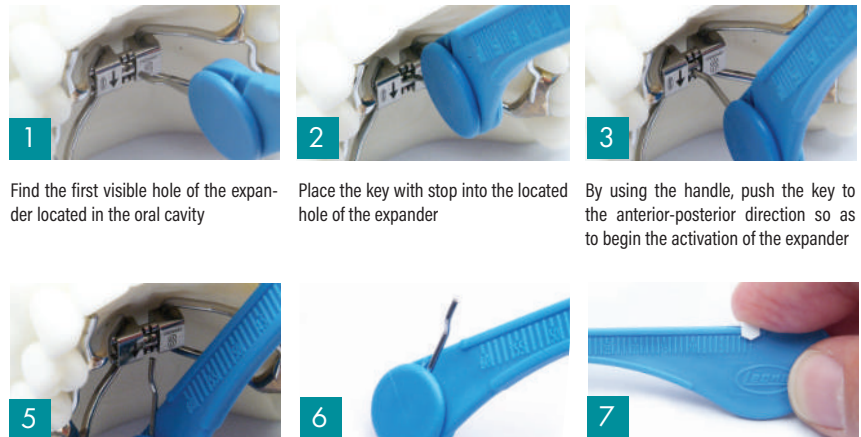


A0558-01 SWIVEL KEY WITH ACTIVATION TURN COUNTER *



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

Pack of 10



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

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

RAPID MOLAR DISTALIZER



A1730-91
1 case

A1730-99
10 cases









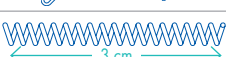
Leone First Class is the perfect appliance to get a rapid controlled distalization of the upper molars; conceived with the technical and scientific cooperation of Drs. Arturo Fortini, Massimo Lupoli and Mr. Massimiliano Parri. The vestibular and lingual tubes are made with **MIM**® technology for maximum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

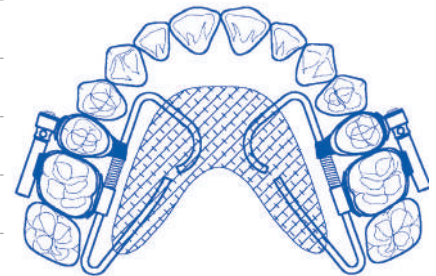


Key with safety ring leash included in the package

REFILLS FOR FIRST CLASS LEONE

Pack of 10

			content of 1 case kit
Male screws		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



**FAST BACK LEONE
DISTALIZER**



A1760-91 1 case

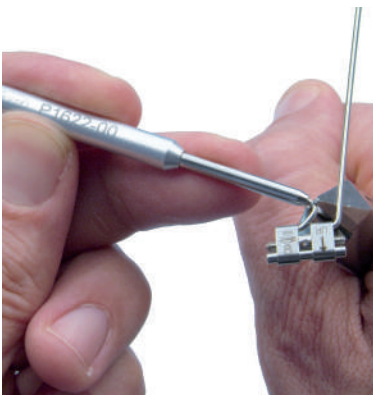
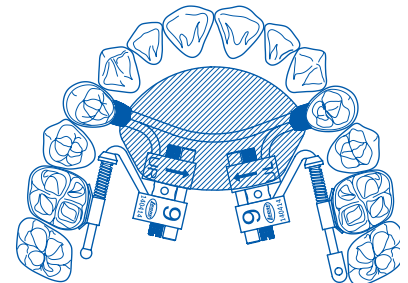
Fast Back is a device for the distalization of upper molars, developed through the cooperation of Dr. C. Lanteri and Mr. F. Francolini. The Fast Back device provides a translation movement of the molars using a pre-determined amount of pressure. There is no need for the cooperation of the patient thus 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.



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	A1760-09
Distalizer 9 mm UL				A1761-09
MIM® palatal tubes		A1730-04		
Spherical ends		A1763-00		
Ends with hole for ligature		A1763-05		
Spring-compression stop		A1763-01		pack of 10
MEMORIA® coil spring 200 g		A1763-02		
MEMORIA® coil spring 300 g		A1763-03		
Keys		A1763-04		



**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.



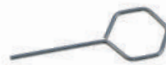
PRE-BENT KEYS
FOR EXPANDERS
WITH SAFETY LEASH

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

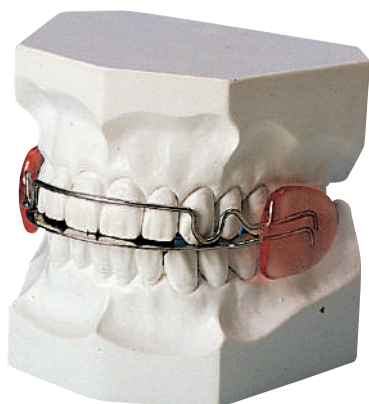
For micro spring screws. Tip: 1,5 mm.



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** ∅ .045"
- A0761-51** ∅ .051"



BITE PLANES FOR FUNCTIONAL PLATES

A stainless steel range of products giving the chance of manufacturing high quality functional plates.
Pack of 10



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



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



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



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

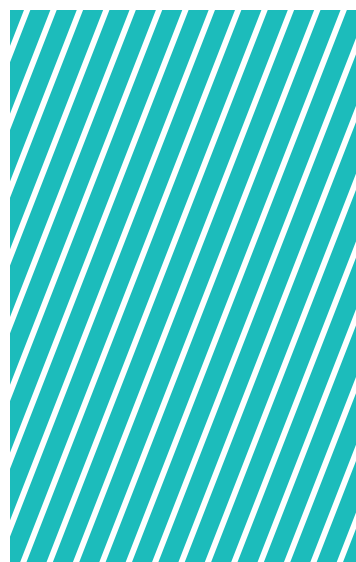


**A0722-00
DOUBLE
BITE PLANE**

DIGITAL WORKFLOW DEVICES



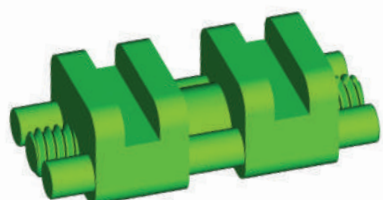
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PATENTED

**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



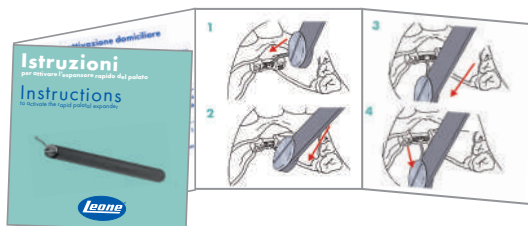
THE STRONGEST RPE

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.

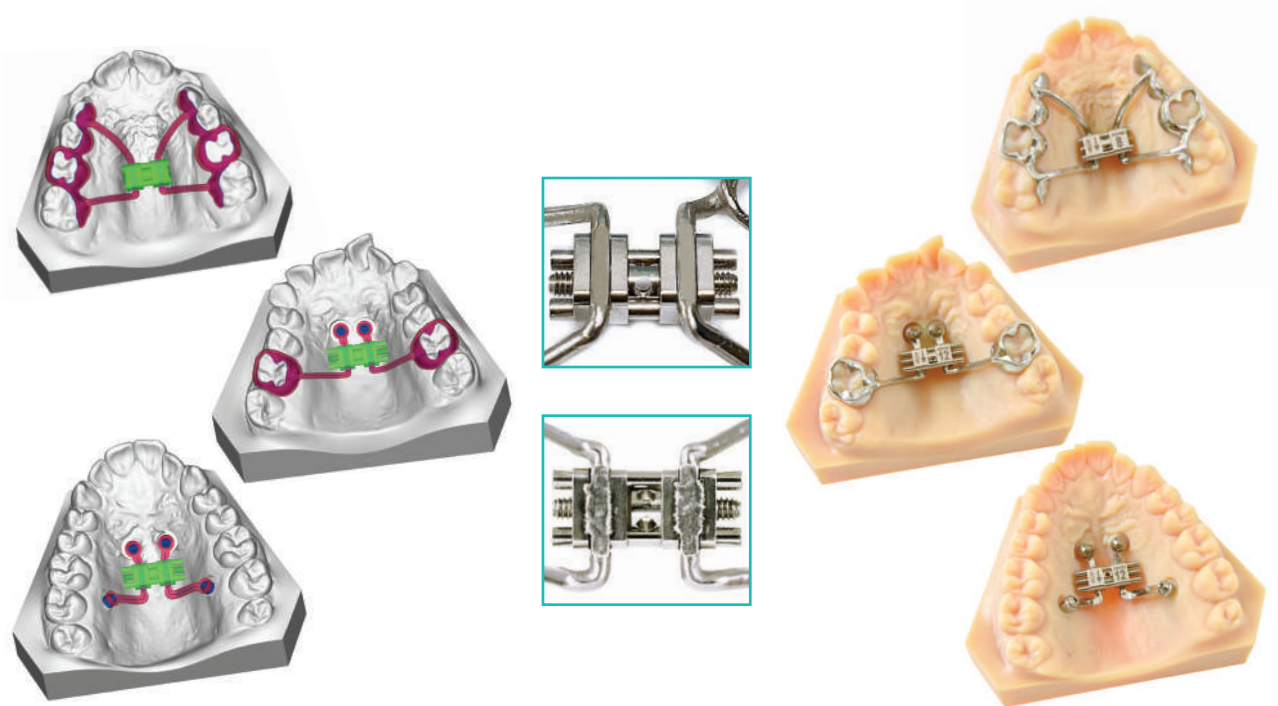
Package includes:

- 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 and included in the library of 3DLEONE DESIGNER software



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



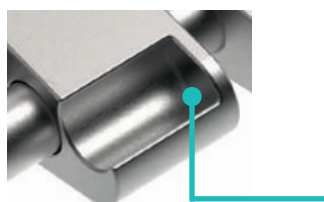
PATENTED

NEW EXPANDERS DESIGNED FOR TOOTH BORNE APPLIANCES

NEW

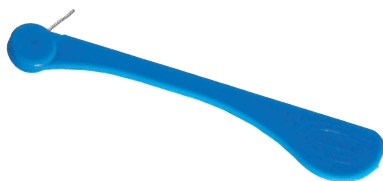


Leone's CAD-CAM Tooth Borne expander series broadens the Leone expander CAD-CAM range. The most popular and used Leone expanders has been optimized to be included in a fully digital workflow to manufacture expansion appliances with dental anchorage. The CAD-CAM Tooth Borne expanders are made of stainless 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.



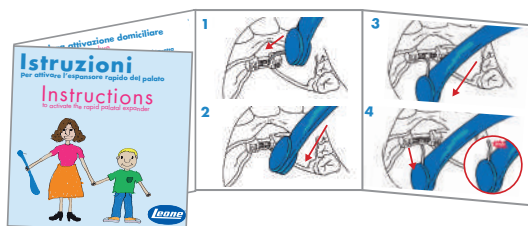
EMBEDDED SLOTS

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**



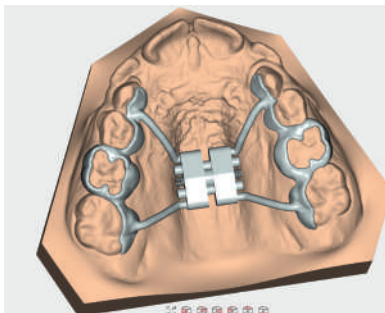
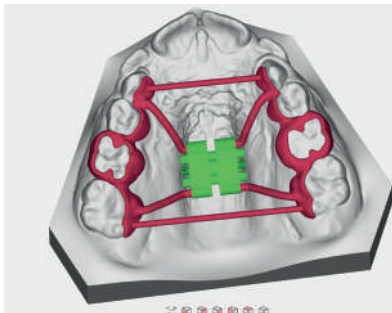
The CAD-CAM Rapid Expander Tooth Borne screw is the optimized CAD-CAM version of the Leone's best seller expander: instead of the arms, it has four transversal housings with an ending stop on the bodies that allow a perfect oriented coupling with the digitally designed and SLM manufactured framework, 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 and included in the library of **3DLEONE DESIGNER** software



11 mm front view	4 mm back view		body			activation turns for maximum expansion limit	
		A0620D08	2 mm	12 mm	8 mm	0,8 mm	35
		A0620D09	2 mm	14 mm	9 mm	0,8 mm	40
		A0620D11	2 mm	16 mm	11 mm	0,8 mm	50
		A0620D13	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.

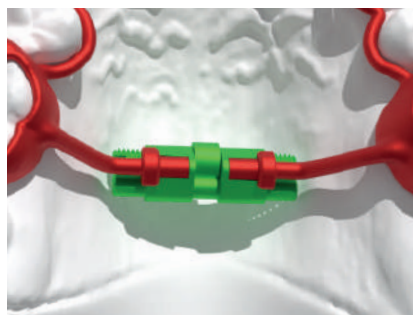
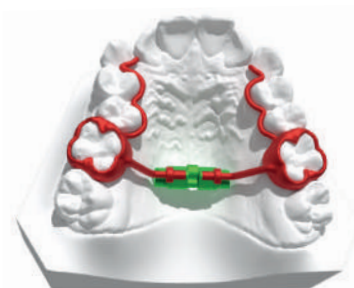
Thanks to the more visible screw holed-head, the micro expander A1621D allows an easier intraoral activation with the swivel key. It is recommended for dental anchored expanders. This series of expander keeps all the features and sizes of our classic worldwide famous expander, allowing doctors to smoothly 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 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	
		A1621-08D	2 mm	12 mm	8 mm	0,8 mm	35
		A1621-11D	2 mm	16 mm	11 mm	0,8 mm	50
		A1621-13D	2 mm	18 mm	13 mm	0,8 mm	60

NEW



**EXPANDER LOWER ARCH
TOOTH BORNE**

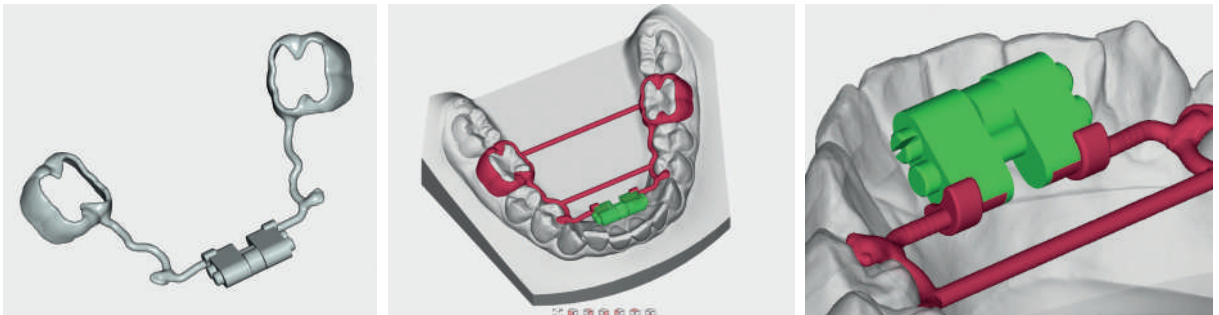
The CAD-CAM expander for lower arch Tooth Borne is the optimized CAD-CAM version of the Torco lower screw. Instead of the arms, it has two transversal housings with an ending stop on the bodies that allow a perfect oriented coupling with the digitally designed and SLM manufactured framework, thus assuring 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 and included in the library of **3DLEONE DESIGNER** software



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

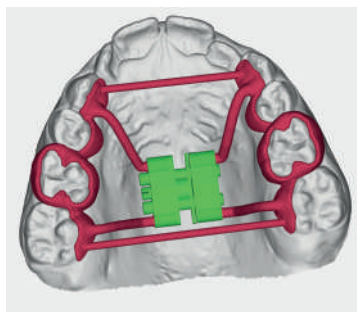
NEW

**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 and included in the library of **3DLEONE DESIGNER** software



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

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

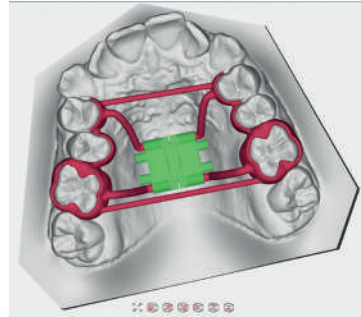
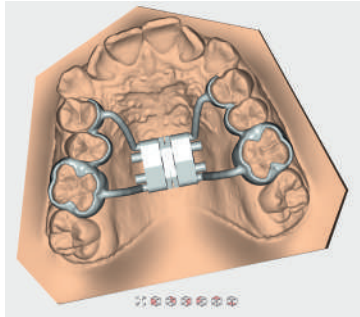
NEW








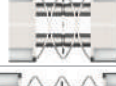

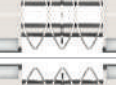


**LEAF SELF EXPANDER
TOOTH BORNE**

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.

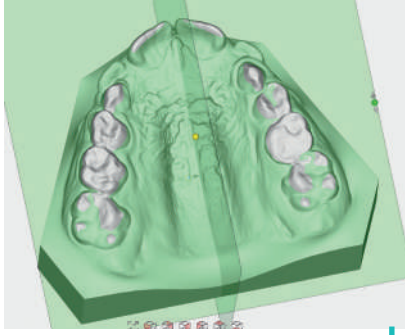
Pack of 1

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

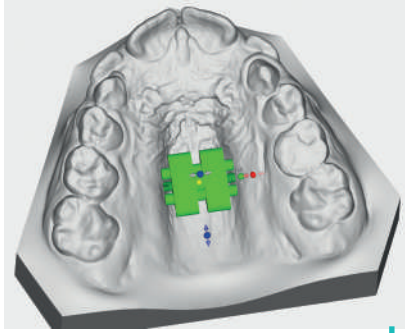


 11 mm front view		 4 mm back view		 body			
 450 6		A2705-06D 4 springs 450 g approx.		2 mm	11 mm	6 mm	
 900 6		A2706-06D 4 springs 900 g approx.					
 450 9		A2705-09D 6 springs 450 g approx.		2 mm	15 mm	9 mm	
 900 9		A2706-09D 6 springs 900 g approx.					

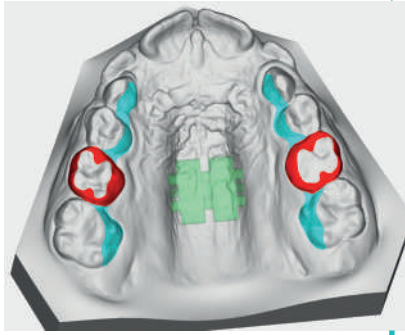
MODELS
ORIENTATION



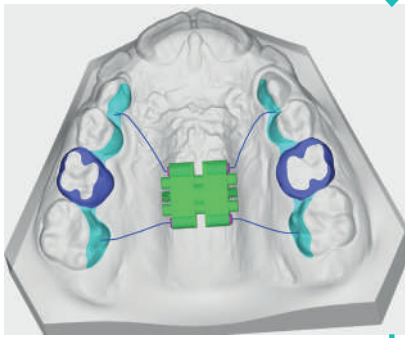
SCREW POSITION
DEFINITION



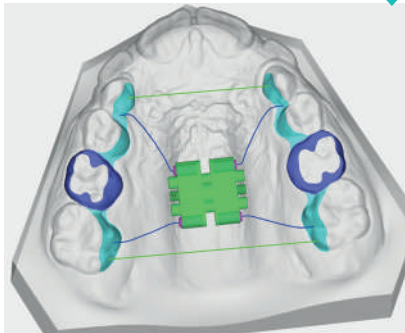
BANDS
DEFINITION



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.

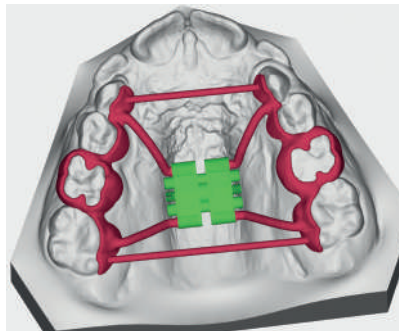
3DLEONE DESIGNER software allows to upload and manage the .STL files of both upper and lower arches, obtained from a laboratory scanner or directly from an intra-oral scanner, and it has already in library all the range of Leone's CAD-CAM expanders available.

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

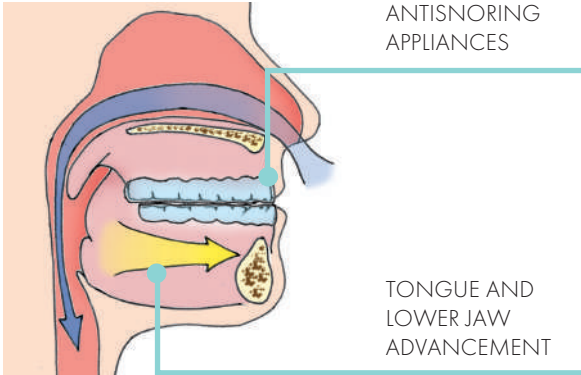


A



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

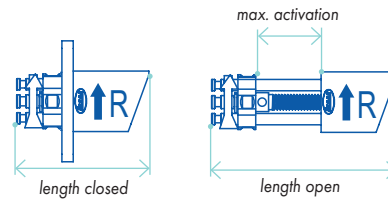


FORWARD!
ANTISNORING KIT

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

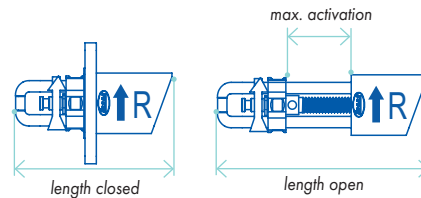
This kit is specially engineered for the realization of an antisnoring bi-maxillary Dorsal type appliance and this version is featured by a higher retention capacity of the upper screws in the acrylic splint, thanks to the distal "U" bent guide.

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.

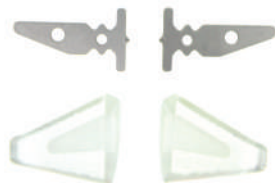


length closed	length open	max. activation	4 activations
20 mm	27 mm	7 mm	0,4 mm

REFILLS FOR FORWARD! MAX RETENTION

A5301-00

Lower wings
with inner steel frame



Pack content:

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

A5312-00

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



Pack content:

- 1 upper right screw
- 1 upper left screw

FORWARD! AND FORWARD! MAX RETENTION FEATURES



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



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



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



TELESCOPIC ADVANCER ANTISNORING KIT

A5100-07
1 MEDIUM appliance

A5100-17
10 MEDIUM appliances

A5200-07
1 LONG appliance

A5200-17
10 LONG appliances



The kit, specifically engineered for the construction of one anti-snoring 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
<p>MEDIUM Telescopic arm</p>	26 mm	43 mm	10 mm	7 mm	0,4 mm
<p>LONG Telescopic arm</p>	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

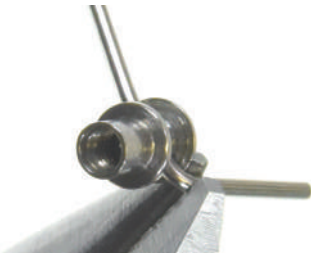


P1515-00 FAN-TYPE HAND WRENCH

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
<p>Telescopic Arm Dual MEDIUM</p>	26 mm	43 mm	10 mm	7 mm	0,4 mm
<p>Telescopic Arm Dual LONG</p>	31 mm	53 mm	15 mm	7 mm	0,4 mm

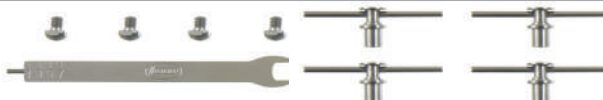
REFILLS FOR DUAL TELESCOPIC ADVANCER

A5121-00
Housing screws and Dual wrench for activation



Pack content:
- 4 housing screws
- 1 Dual wrench for activation

A5121-01
Housings with screws and Dual wrench for activation



Pack content:
- 4 housings for acrylic
- 4 housing screws
- 1 Dual wrench for activation

A5121-02
Telescopic Arm Dual MEDIUM



Pack content:
- 1 Telescopic Arm Dual MEDIUM right
- 1 Telescopic Arm Dual MEDIUM left

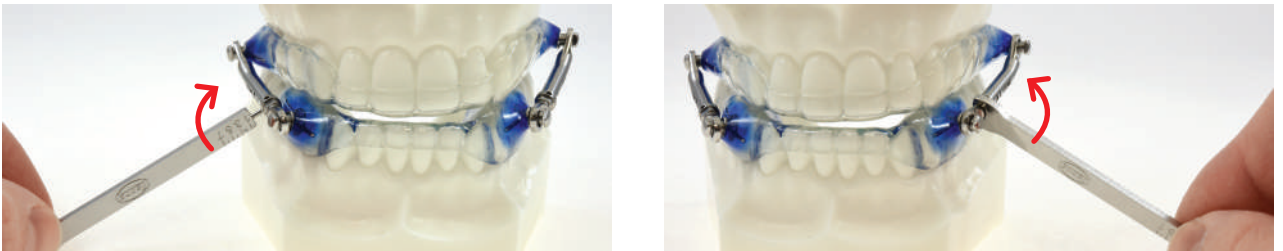
A5221-00
Telescopic Arm Dual LONG



Pack content:
- 1 Telescopic Arm Dual LONG right
- 1 Telescopic Arm Dual LONG left



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



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



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



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



PLATE HOLDERS

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

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

PLATE HOLDER KIT ASSORTED COLORS

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



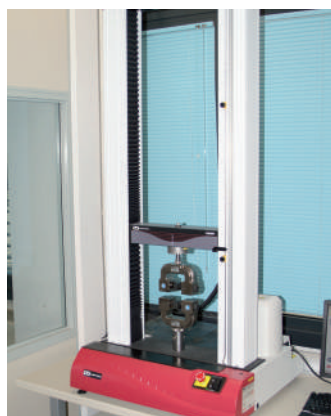
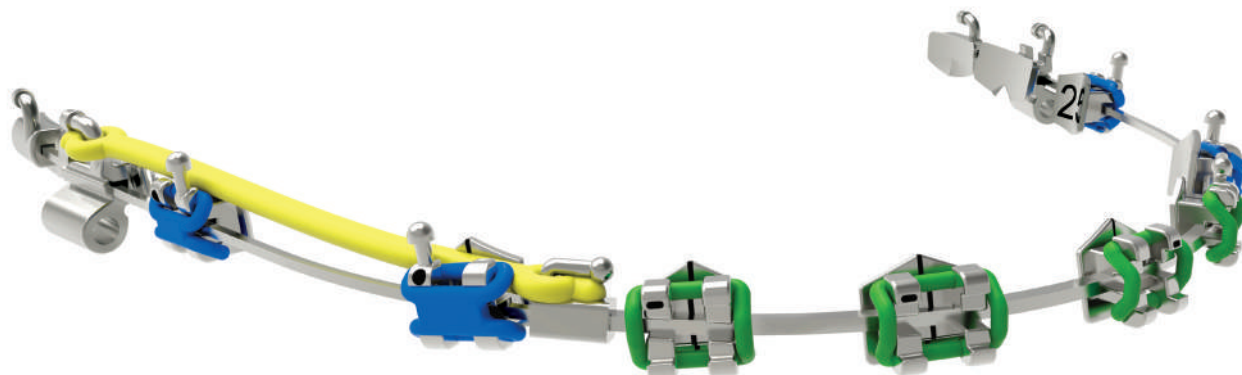
SMALL	LARGE	pkg.	colour	SMALL	LARGE	pkg.
A3038-00	A3039-00		white	A3038-93	A3039-93	
A3038-00S	A3039-00S		pink	A3038-93S	A3039-93S	
A3038-00G	A3039-00G		yellow	A3038-93G	A3039-93G	
A3038-00A	A3039-00A	10	blue	A3038-93A	A3039-93A	200
	A3039-00F		fluorescent		A3039-93F	
A3038-00V	A3039-00V		green	A3038-93V	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 process of manufacturing*



STANDARD SPOOL

∅		LEOWIRE® spring hard	BIOSTEEL® spring hard	
mm	inch	1800/2000 N/mm ²	1800/2000 N/mm ²	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/mm ²		1800/2000 N/mm ²	m	g
C0450-05			306	
C0450-06	C0451-06		225	
C0450-07	C0451-07		165	
C0450-08	C0451-08		125	
C0450-09	C0451-09		100	500
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.



∅		hard heat-treatable		pkg.
mm	inch	1350/1500 N/mm ²	m	g
0,6	.024	CO410-06	30	70
0,7	.028	CO410-07	22	
0,8	.032	CO410-08	17	
0,9	.036	CO410-09	13	
1,0	.040	CO410-10	11	
1,1	.044	CO410-11	9	
1,2	.048	CO410-12	8	
1,3	.052	CO410-13	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/mm ²	1800/2000 N/mm ²	2200/2400 N/mm ²	
.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/mm ²	2200/2400 N/mm ²	
.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 ²		1700/1900 N/mm ²
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

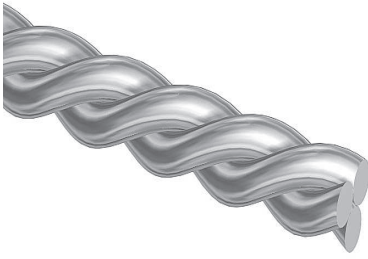
∅	extra spring hard	super hard heat-treated
inch	2200/2400 N/mm ²	2500/2700 N/mm ²
.012	C0420-12	
.014	C0420-14	C0430-14
.016	C0420-16	C0430-16
.018	C0420-18	C0430-18
.020	C0420-20	C0430-20

"AUSTRALIAN" ARCHWIRES SPECIAL PLUS


Pack of 10

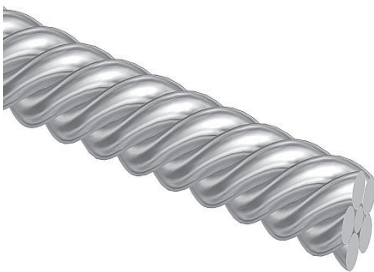
medium upper	∅	medium lower
	inch	
C2010-16	.016	C2050-16
C2010-20	.020	C2050-20






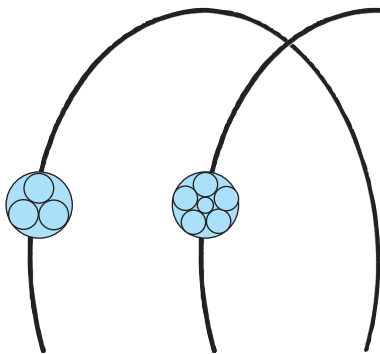
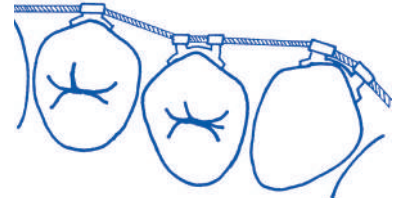
STRAIGHT TWIST WIRE

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





STRAIGHT FLEX WIRE

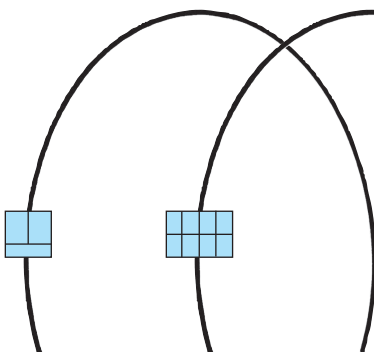
∅		
inch		pkg.
.015	C8880-15	10 wires
.0175	C8880-17	
.0195	C8880-19	





ROUND PREFORMED TWIST AND FLEX ARCHWIRES



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

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



RECTANGULAR PREFORMED TWIST ARCHWIRES

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

twist 8 wires		
		
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



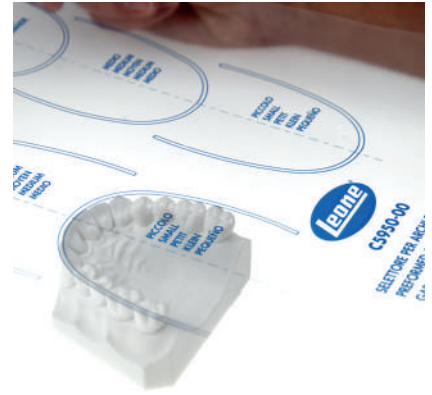
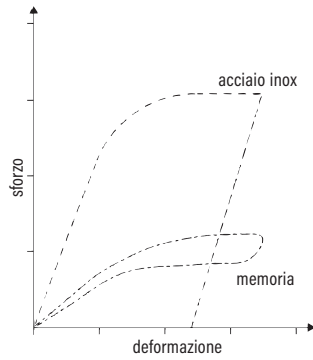
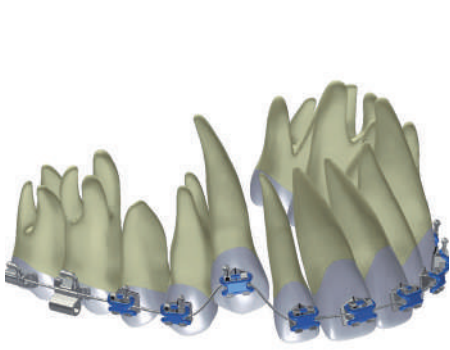
ROUND AND RECTANGULAR PREFORMED ARCHWIRES

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.
	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.



∅	small		medium		large		conf.
	upper	lower	upper	lower	upper	lower	
.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		pkg.
	upper	lower	
.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.



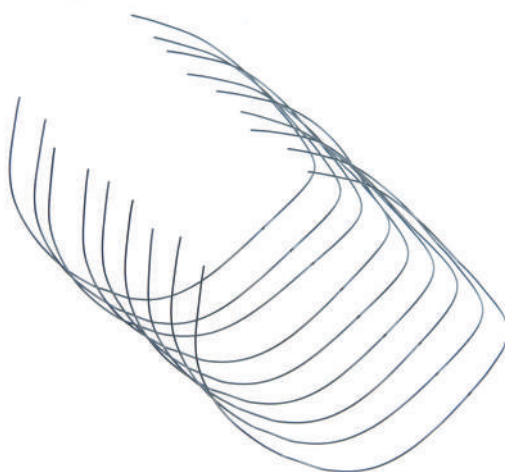
medium upper	∅	medium lower	
	inch		pkg.
C5910V12	.012	C5950V12	10
C5910V14	.014	C5950V14	
C5910V16	.016	C5950V16	
C5910V18	.018	C5950V18	

medium upper	∕	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	∅	lower
	inch	
C6910-16	.016	C6950-16
C6910-18	.018	C6950-18

upper	∕	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.



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



**C6250-00
MEMORIA® ANATOMICAL
ARCHWIRE SELECTOR**

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



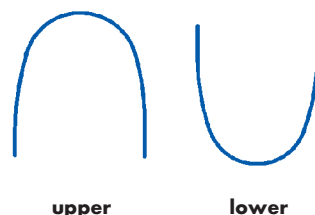
THERMOMEMORIA® ARCHWIRES

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

Pack of 10

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

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



C6100-13 ARCHWIRE KIT STEP SYSTEM 2.0



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

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



BETA MEMORIA® WIRES AND ARCHWIRES

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

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
medium	C7112-16	.016x.022	C7115-16	
	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.

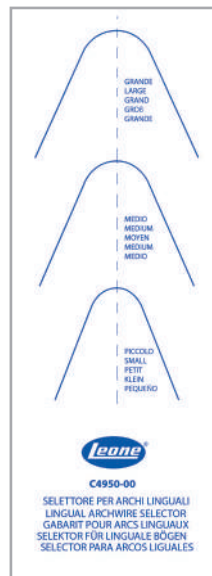
Pack of 2

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.
Pack of 10



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

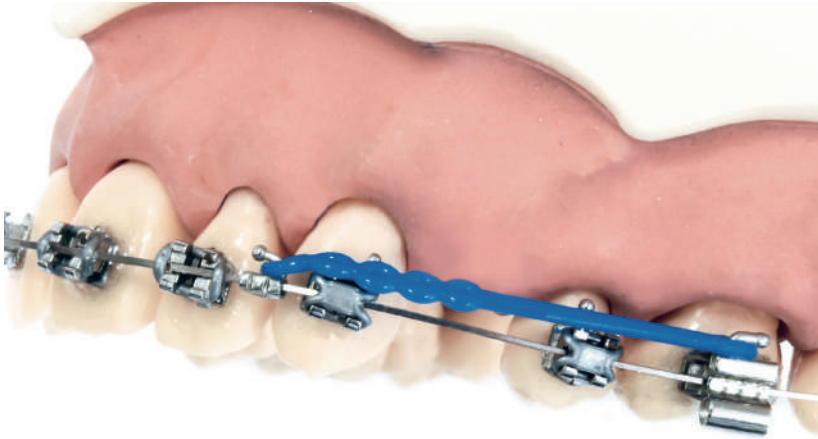
upper	∠ inch	lower
C5982-16	.016x.022	C5992-16
C5985-18	.018x.025	C5995-18
C5985-19	.019x.025	C5995-19
C5985-21	.021x.025	C5995-21



**C8922-16
MEMORIA® RECTANGULAR
STRAIGHT WIRE**

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

Pack of 10 wires, 18 cm long



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

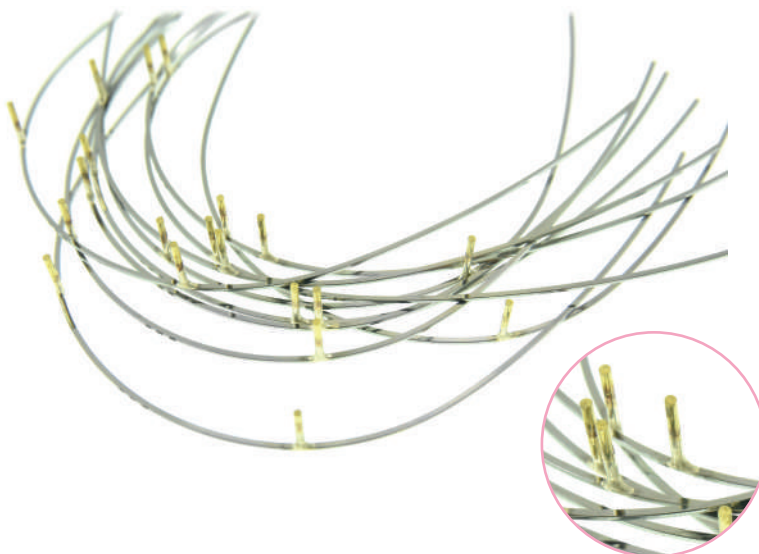
Specialty arch wires that combine different materials and geometries with the aim of torque control in the front portion during the space closure.

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

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

Pack of 2

upper	distance between the hooks		lower	distance between the hooks	
	mm	inch		mm	mm
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**

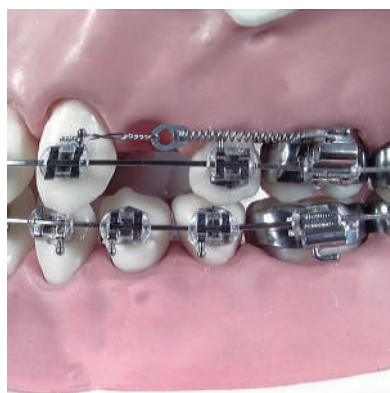
	g		pkg.
light	150	C1230-00	10
medium	200	C1230-01	
heavy	250	C1230-02	



**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 extraoral lip bumper	.045	.010	C1210-45
	.055	.014	C1214-55



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

	g		pkg.
light	150	C1231-00	10
medium	200	C1231-01	
heavy	250	C1231-02	



**C1230-95
MEMORIA®
COIL SPRING KIT**

For crimping of surgical hooks use plier P1911-00.

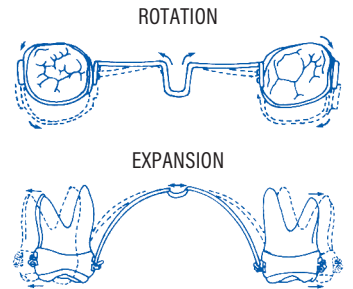
Pack content:

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

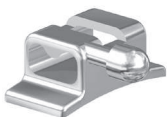
		
mm		pkg.
34	C0576-34	5
36	C0576-36	
38	C0576-38	
40	C0576-40	
42	C0576-42	
44	C0576-44	
46	C0576-46	
48	C0576-48	
50	C0576-50	
52	C0576-52	

**C0576-96
REVERSE LOOP
PALATAL BAR KIT**

Assorted kit of 50

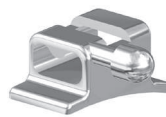
CAUTION:

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°**

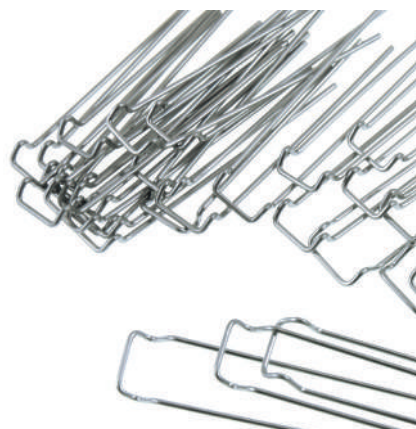
G2847-02 Right
G2847-03 Left



BALL HOOKS

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

Ø			
mm	inch		pkg.
0,7	.028	C1610-17	
0,8	.032	C1610-18	100
0,9	.036	C1610-19	



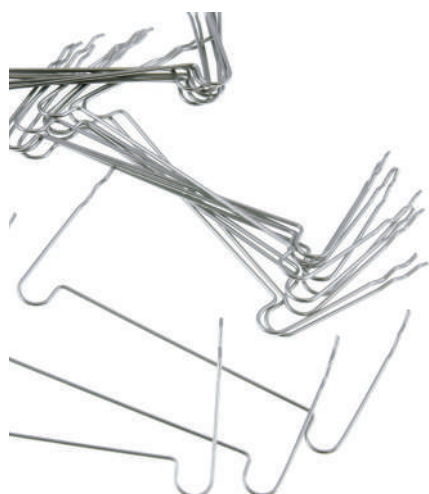
STANDARD ADAMS CLASPS

Spring hard stainless steel.

C0580-95 STANDARD ADAMS CLASP KIT

Assorted kit of 100

Ø			
mm			pkg.
5,0		C0580-05	
5,5		C0580-055	
6,0		C0580-06	
6,5		C0580-065	
7,0	0,7 mm	C0580-07	10
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			
mm			pkg.
25		C0585-25	
28		C0585-28	
31		C0585-31	
34		C0585-34	
37	0,8 mm	C0585-37	10
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



MADE OF BIOMEDICAL STEEL MEDIUM TEMPER

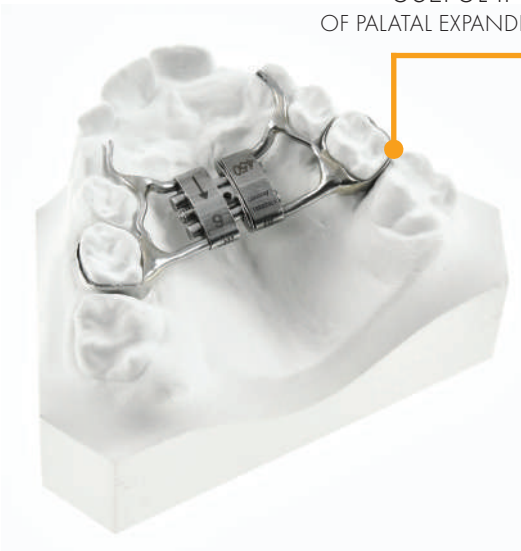
SHAPE AND HEIGHT
DESIGNED FOR THE ANATOMY
OF DECIDUOUS MOLARS

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

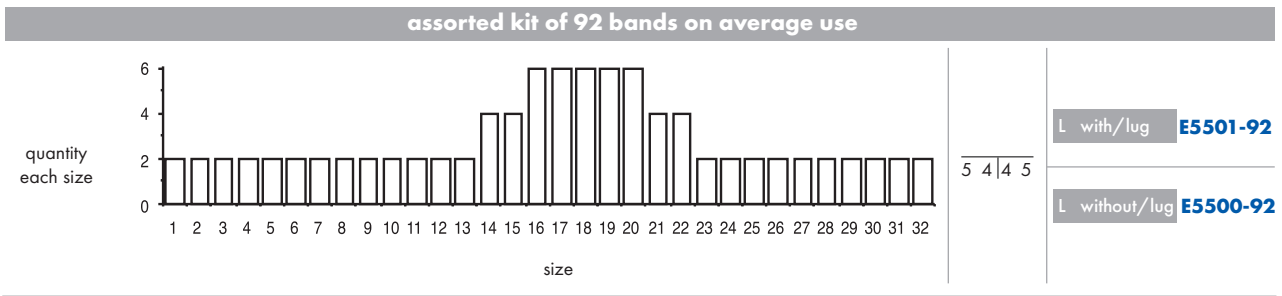
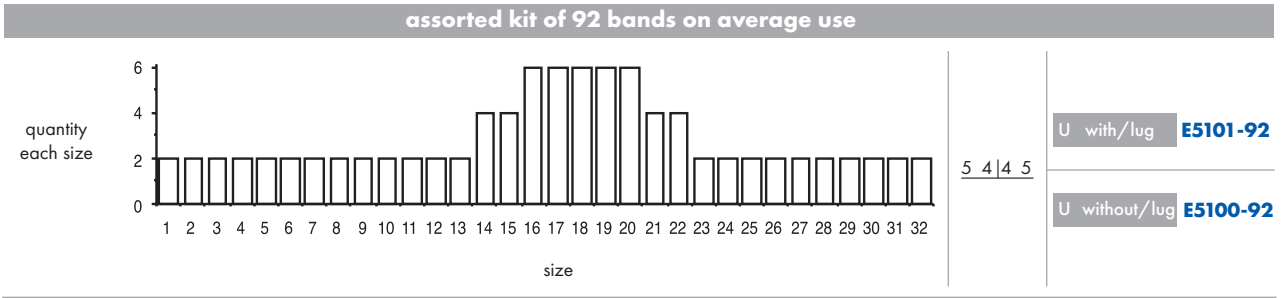
- E5151-00** Upper with lug U
- E5551-00** Lower with lug L
- E5105-00** Upper without lug U
- E5505-00** Lower without lug L

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 1st 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

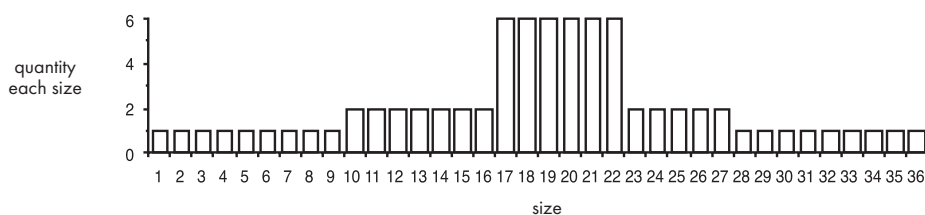
Pack of 5

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

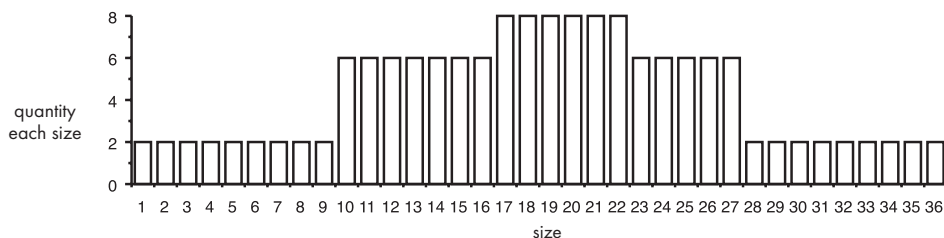
ASSORTMENTS

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 2nd MOLAR BANDS

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

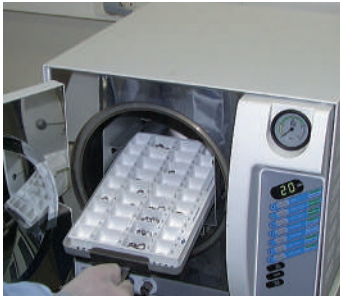
Pack of 10

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

Pack of 5

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

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



All trays can be autoclaved to avoid cross infections.

ASSORTMENTS

assorted kit of 78 bands on average use



- SUR R **E2200-92**

- SUL L **E2300-92**

- SLR R **E2600-92**

- SLL L **E2700-92**



**EDGEWISE TECHNIQUE
UPPER**

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

E1420-00	Right	UR	E1425-00	Right	UR
E1430-00	Left	UL	E1435-00	Left	UL
Pack of 10			Pack of 5		



**EDGEWISE TECHNIQUE
LOWER**

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

E1460-00	Right	LR	E1465-00	Right	LR
E1470-00	Left	LL	E1475-00	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)

E1520-00	Right	UR	E1525-00	Right	UR
E1530-00	Left	UL	E1535-00	Left	UL
Pack of 10			Pack of 5		



**ANDREWS ROTH BOSTON ALEXANDER TECHNIQUE
LOWER**

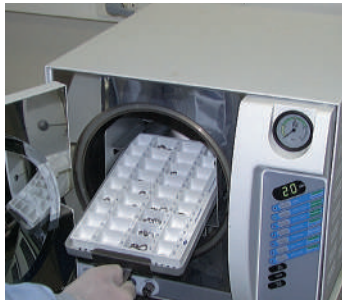
Tube .022"x.028". Torque -25°, rotation +8°. Round tube .051". (G8325-06 - G8325-07)

E1560-00	Right	LR	E1565-00	Right	LR
E1570-00	Left	LL	E1575-00	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
	$\overline{6}$	UR	R	E1420-90	E1520-90
	$\underline{6}$	UL	L	E1430-90	E1530-90
	$\overline{6}$	LR	R	E1460-90	E1560-90
	$\underline{6}$	LL	L	E1470-90	E1570-90

assorted kit of 78 prewelded bands

				Edgewise	Andrews Roth Boston Alexander
	$\overline{6}$	UR	R	E1420-92	E1520-92
	$\underline{6}$	UL	L	E1430-92	E1530-92
	$\overline{6}$	LR	R	E1460-92	E1560-92
	$\underline{6}$	LL	L	E1470-92	E1570-92

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 TRENTH.
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 1st MOLAR BANDS

E8200-00 Upper right - UR

E8300-00 Upper left - UL

E8600-00 Lower right - LR

E8700-00 Lower left - LL

Pack of 10

E8205-00 Upper right - UR

E8305-00 Upper left - UL

E8605-00 Lower right - LR

E8705-00 Lower left - LL

Pack of 5

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

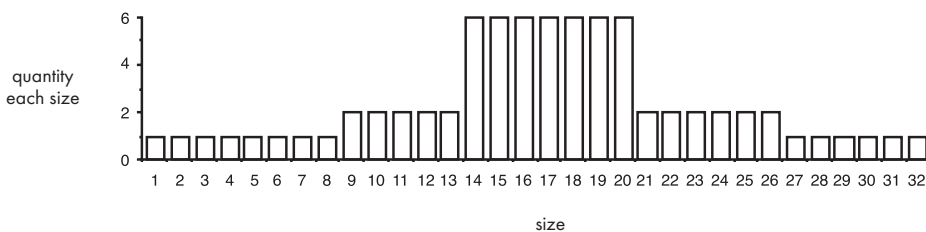
Always specify the size when ordering e.g.: E8300-13



All trays can be autoclaved to avoid cross infections.

ASSORTMENTS

assorted kit of 78 bands on average use



6 | UR R **E8200-92**

6 | UL L **E8300-92**

6 | LR R **E8600-92**

6 | LL L **E8700-92**



ANDREWS ROTH BOSTON ALEXANDER TECHNIQUE UPPER

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

E8520-00	Right	UR		Pack of 5
E8530-00	Left	UL		



ANDREWS ROTH BOSTON ALEXANDER TECHNIQUE LOWER

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

E8560-00	Right	LR		Pack of 5
E8570-00	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)

E8820-00	Right	UR		Pack of 5
E8830-00	Left	UL		



RICKETTS TECHNIQUE LOWER

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

E8860-00	Right	LR		Pack of 5
E8870-00	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)

E8920-00	Right	UR		Pack of 5
E8930-00	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
E8970-00 Left LL | Pack of 5

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



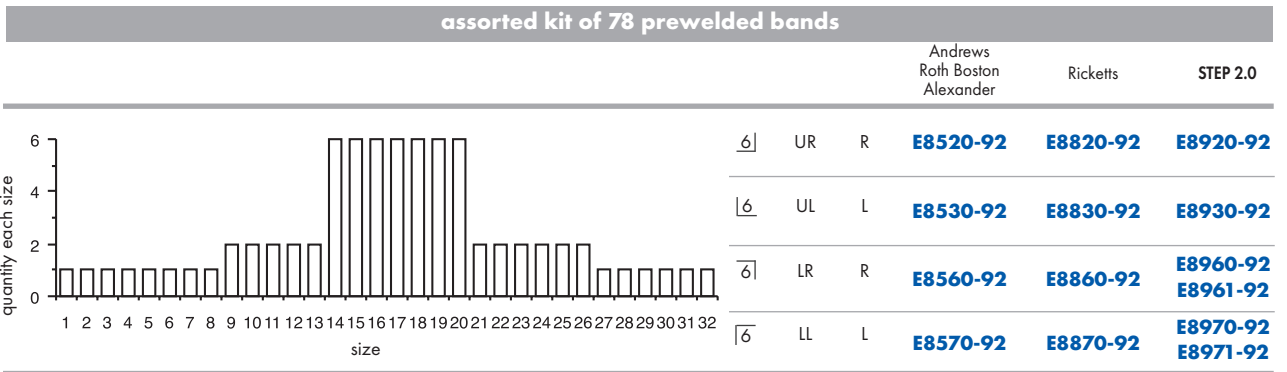
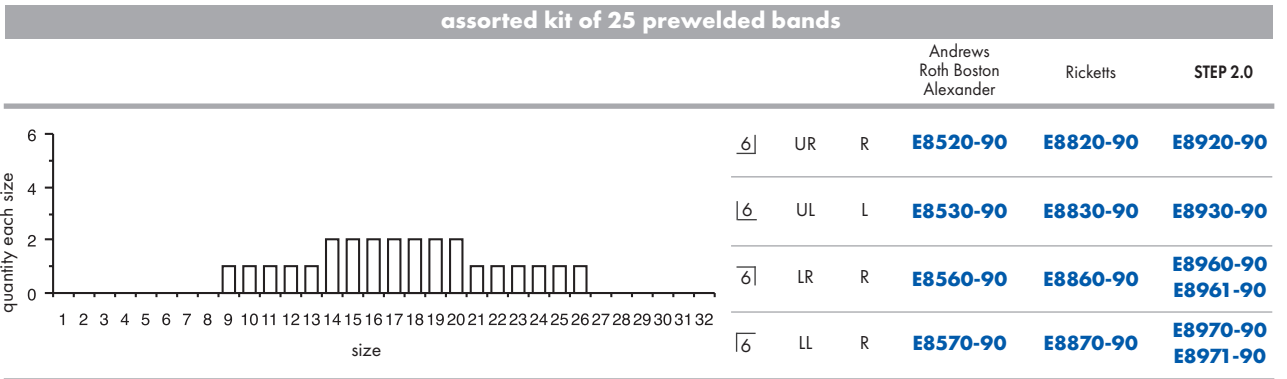
Convertible tube .022" x .028". Torque -20°, rotation +8°. Round tube .045"
(G8424-16 - G8424-17) Lingual hook. (G2820-00)

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

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

WEB PREWELDED BANDS - ASSORTMENTS

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





**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**

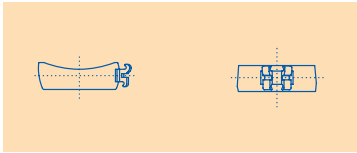
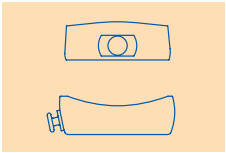
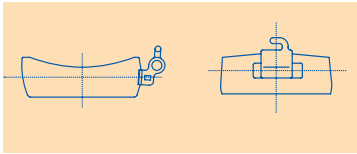
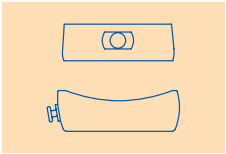
Made of ABS plastic resin. With clear plastic cover. Stackable.
Pack of 1



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
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5 4 | 4 5

as indication only

5 4 | 4 5

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

CALIBRA® BANDS UPPER 2nd MOLAR	CALIBRA® BANDS LOWER 2nd MOLAR
--	--

7 | 7

as indication only

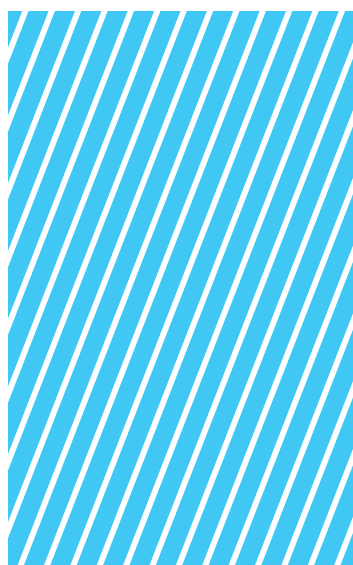
7 | 7

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

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.	ang.							
<u>1 1</u> central	0°	0°	0°	+7°	+5°	+12°	+5°	+17°	+4°	+12°	+5°	+17°	+4°	+14°	+5°	+22°	0°	+12°	+5°
<u>2 2</u> lateral	0°	0°	0°	+3°	+9°	+8°	+9°	+9°	+8°	+8°	+9°	+10°	+8°	+7°	+8°	+14°	+8°	+8°	+9°
<u>3 3</u> cuspid	0°	0°	0°	-7°	+11°	-2°	+13°	-7°	+13°	0°	+7°	-7°	+8°	-3°	+10°	+7°	+5°	-7°	+5°
<u>4 4</u> 1° bicuspid	0°	0°	0°	-7°	0°	-7°	0°	-7°	+2°	0°		-7°	0°	-7°	0°	0°	0°	-7°	0°
<u>5 5</u> 2° bicuspid	0°	0°	0°	-7°	0°	-7°	0°	-7°	+2°	0°		-7°	0°	-7°	0°	0°	0°	-7°	0°
MANDIBULAR ARCH																			
<u>1 1</u> central	0°	0°	0°	0°	0°	-6°	0°	0°	0°	-6°	0°	-6°	0°	-5°	0°	0°	0°	0°	0°
<u>2 2</u> lateral	0°	0°	0°	0°	0°	-6°	0°	0°	0°	-6°	0°	-6°	0°	-5°	0°	0°	0°	0°	0°
<u>3 3</u> cuspid	0°	0°	0°	-11°	+5°	-11°	+7°	-6°	+5°	0°	+6°	-6°	+3°	-7°	+6°	+7°	+5°	-11°	+6°
<u>4 4</u> 1° bicuspid	0°	0°	0°	-17°	0°	-17°	0°	-12°	+2°	0°		-12°	+2°	-11°	0°	0°	0°	-17°	0°
<u>5 5</u> 2° bicuspid	0°	0°	0°	-22°	0°	-22°	0°	-17°	+2°	0°		-17°	+2°	-17°	0°	-15°	0°	-22°	0°

TORQUE

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

ANGULATION

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

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

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

*MBT is a Trademark of 3M Unitek

Inter.\ctiveSL

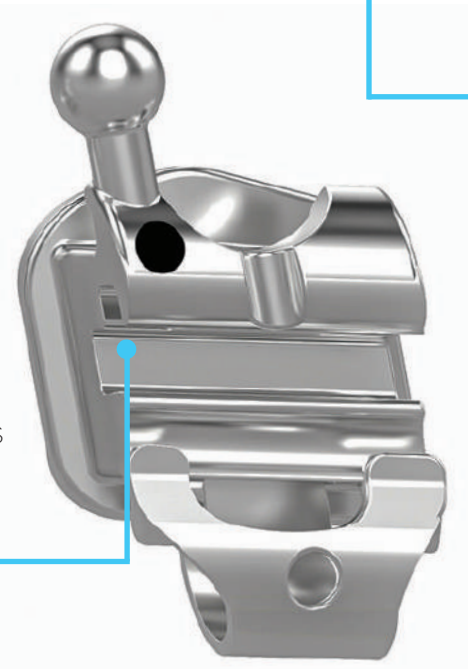
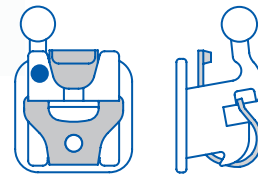


BALL HOOKS
PERFECTLY SPHERICAL AND LOW PROFILE
FOR MAXIMUM COMFORT



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.

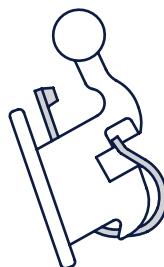
EASY OPEN/CLOSE

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



**INTERACTIVE SL
MBT* SYSTEM**

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



**INTERACTIVE SL
ROTH SYSTEM**

	20 brackets 1 case	200 brackets 10 cases
.022"	F1100-91	F1101-91



**INTERACTIVE SL
MBT* SYSTEM**

	20 brackets 1 case	200 brackets 10 cases
.022"	F1100-92	F1101-92

*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.

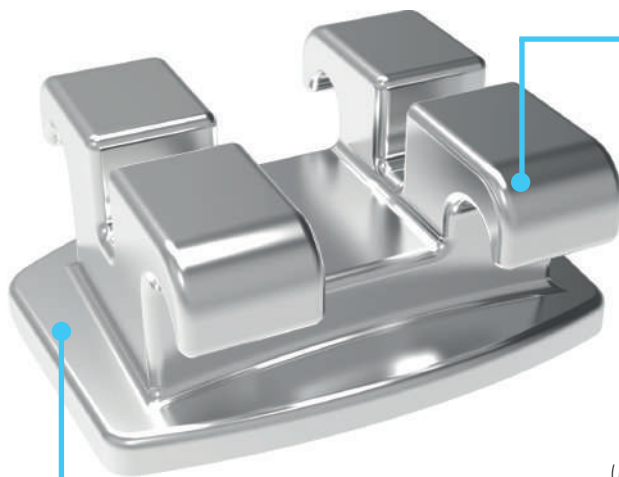
Smooth and rounded contours to guarantee the maximum comfort for the patient and to facilitate the elimination of the plaque.

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

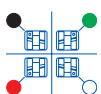


BRACKETS WITH HOOK
MANUFACTURED WITH **MIM**®
(METAL INJECTION MOULDING)



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.



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



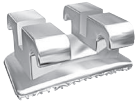
High tie wings on bicuspid have to be positioned to the gingival side for ease of ligation and to prevent gingival impingement



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



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



EDGEWISE STANDARD SYSTEM

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

Pack of 10

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



SUPER EDGEWISE SYSTEM WITH VERTICAL SLOT

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

Pack of 10

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

EDGEWISE STANDARD SYSTEM

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

SUPER EDGEWISE SYSTEM WITH VERTICAL SLOT

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





EDGEWISE MINI SYSTEM

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

Pack of 10

EDGEWISE MINI SYSTEM

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



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"		
		2.5	0°	$\frac{1}{1}$	F2080-11	F2020-11	
		2.5	0°	$\frac{2}{2}$	F2080-11	F2020-11	
		2.5	0°	$\frac{3}{3}$	F2083-24	F2023-24	
		2	0°	$\frac{4}{4}$	F2089-14	F2029-14	
		2	0°	$\frac{5}{5}$	F2089-14	F2029-14	
		2	0°	$\frac{1}{1}$	F2080-15	F2020-04	
		2	0°	$\frac{2}{2}$	F2080-15	F2020-04	
		2.5	0°	$\frac{3}{3}$	F2083-24	F2023-24	
		2	0°	$\frac{4}{4}$	F2089-14	F2029-14	
		2	0°	$\frac{5}{5}$	F2089-14	F2029-14	

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°	$\frac{1}{1}$	F2481-12	F2421-12
		3.3	+7°	+5°	$\frac{1}{1}$	F2481-13	F2421-13
		2.7	+3°	+9°	$\frac{2}{2}$	F2482-32	F2422-12
		2.7	+3°	+9°	$\frac{2}{2}$	F2482-33	F2422-13
		3.3	-7°	+11°	$\frac{3}{3}$	F2483-22	F2423-42
		3.3	-7°	+11°	$\frac{3}{3}$	F2483-23	F2423-43
		3.3	-7°	+11°	$\frac{3}{3}$	F2473-12	F2413-12
		3.3	-7°	+11°	$\frac{3}{3}$	F2473-13	F2413-13
		3.3	-7°	0°	$\frac{4}{4}$	F2484-05	F2429-11
		3.3	-7°	0°	$\frac{5}{5}$	F2484-05	F2429-11
		3.3	-7°	0°	$\frac{5}{5}$	F2479-02	F2419-12
		3.3	-7°	0°	$\frac{5}{5}$	F2479-03	F2419-13
		2.1	0°		$\frac{1}{1}$	F2080-35	F2020-05
		2.1	0°		$\frac{2}{2}$	F2080-35	F2020-05
		3.3	-11°	+5°	$\frac{3}{3}$	F2483-26	F2423-36
		3.3	-11°	+5°	$\frac{3}{3}$	F2483-27	F2423-37
		3.3	-11°	+5°	$\frac{3}{3}$	F2473-16	F2413-16
		3.3	-11°	+5°	$\frac{3}{3}$	F2473-17	F2413-17
		3.3	-17°	0°	$\frac{4}{4}$	F2489-25	F2429-05
		3.3	-22°	0°	$\frac{5}{5}$	F2489-15	F2429-15
		3.3	-22°	0°	$\frac{5}{5}$	F2479-06	F2419-16
		3.3	-22°	0°	$\frac{5}{5}$	F2479-07	F2419-17

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"	F2080-93		F2081-93	F2083-93	F2085-93
.022"	F2020-93		F2021-93	F2023-93	F2025-93

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"		
		3.3	+12°	+5°	$\frac{1}{1}$	F2481-22	F2421-22
					$\frac{1}{1}$	F2481-23	F2421-23
		2.7	+8°	+9°	$\frac{2}{2}$	F2482-42	F2422-22
					$\frac{2}{2}$	F2482-43	F2422-23
		3.3	-2°	+13°	$\frac{3}{3}$	F2483-32	F2423-52
					$\frac{3}{3}$	F2483-33	F2423-53
		3.3	-2°	+13°	$\frac{3}{3}$	F2473-22	F2413-22
					$\frac{3}{3}$	F2473-23	F2413-23
		3.3	-7°	0°	$\frac{4}{4}$	F2484-05	F2429-11
					$\frac{4}{4}$		
		3.3	-7°	0°	$\frac{5}{5}$	F2484-05	F2429-11
					$\frac{5}{5}$		
		3.3	-7°	0°	$\frac{5}{5}$	F2479-02	F2419-12
					$\frac{5}{5}$	F2479-03	F2419-13
		2.1	0°		$\frac{1}{1}$	F2080-35	F2020-05
					$\frac{2}{2}$	F2080-35	F2020-05
		3.3	-11°	+5°	$\frac{3}{3}$	F2483-26	F2423-36
					$\frac{3}{3}$	F2483-27	F2423-37
		3.3	-11°	+5°	$\frac{3}{3}$	F2473-16	F2413-16
					$\frac{3}{3}$	F2473-17	F2413-17
		3.3	-17°	0°	$\frac{4}{4}$	F2489-25	F2429-05
					$\frac{4}{4}$		
		3.3	-22°	0°	$\frac{5}{5}$	F2489-15	F2429-15
					$\frac{5}{5}$		
		3.3	-22°	0°	$\frac{5}{5}$	F2479-06	F2419-16
					$\frac{5}{5}$	F2479-07	F2419-17

Pack of 10



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



RICKETTS SYSTEM

		torque	ang.	.018"x.030"			
		3.3	+22°	0°	$\frac{1}{1}$	F2481-32	F2481-33
					$\frac{1}{1}$		
		2.7	+14°	+8°	$\frac{2}{2}$	F2482-02	F2482-03
					$\frac{2}{2}$		
		3.3	+7°	+5°	$\frac{3}{3}$	F2483-02	F2483-03
					$\frac{3}{3}$		
		3.3	+7°	+5°	$\frac{3}{3}$	F2473-02	F2473-03
					$\frac{3}{3}$		
		3.3	0°		$\frac{4}{4}$	F2084-04	
					$\frac{4}{4}$		
		3.3	0°		$\frac{5}{5}$	F2085-01	
					$\frac{5}{5}$		
		3.3	0°		$\frac{5}{5}$	F2075-02	F2075-03
					$\frac{5}{5}$		
		2.1	0°		$\frac{1}{1}$	F2080-35	
					$\frac{2}{2}$	F2080-35	
		3.3	+7°	+5°	$\frac{3}{3}$	F2483-06	F2483-07
					$\frac{3}{3}$		
		3.3	+7°	+5°	$\frac{3}{3}$	F2473-06	F2473-07
					$\frac{3}{3}$		
		3.3	0°		$\frac{4}{4}$	F2084-04	
					$\frac{4}{4}$		
		3.3	-15°	0°	$\frac{5}{5}$	F2485-06	F2485-07
					$\frac{5}{5}$		
		3.3	-15°	0°	$\frac{5}{5}$	F2475-06	F2475-07
					$\frac{5}{5}$		

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		with hook		with hook
.018"	F2480-95	F2470-95	F2481-95	F2471-95	F2483-95		F2485-95	
.022"	F2420-94	F2410-94	F2421-94	F2411-94	F2423-94		F2425-94	

RICKETTS SYSTEM

.018"	F2480-94	F2470-94	F2481-94	F2471-94	F2483-94		F2485-94	
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BOSTON SYSTEM

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

Pack of 10



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



BURSTONE SYSTEM

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

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	
F2120-95	F2110-95	F2121-95	F2111-95	F2123-95	F2113-95	F2125-95	F2115-95	

BURSTONE SYSTEM

.022"	F2620-91	F2610-91	F2621-91	F2611-91	F2623-91	F2625-91	
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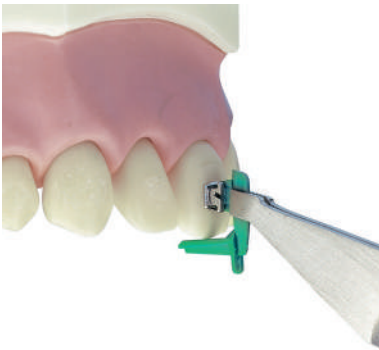


D.B. BRACKETS WITH PLASTIC POSITIONER

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

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

Pack of 5



IDENTIFICATION SYSTEM OF EACH SINGLE TOOTH

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

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

		Colour of positioner			
UR	BLACK	GREEN		LR	
UL	RED	WHITE		LL	

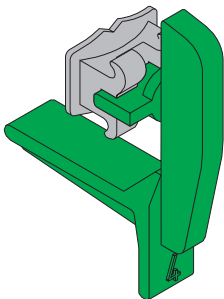


HOW TO ORDER BRACKETS WITH PLASTIC POSITIONER

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

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

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



Upper right black					Upper left green				
code letter					code letter				
I	G	E	C	A	B	D	F	H	K
5	4	3	2	1	1	2	3	4	5
tooth					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:

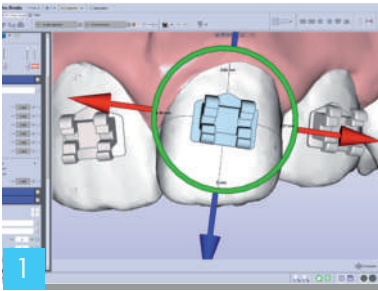
$$\frac{2}{\text{Edgewise}} \mid \frac{2}{.022} \text{ F2022-31} = \text{F2022C31} \text{ black positioner} \mid \frac{2}{}$$

$$\text{F2022D31} \text{ green positioner} \mid \frac{2}{}$$

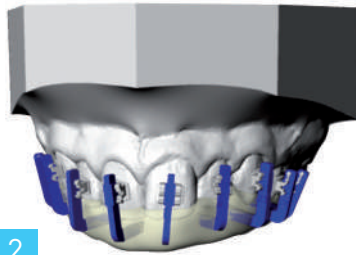


**DIGITALLY-ASSISTED
INDIRECT BONDING SYSTEM**

This is an innovative system of indirect bonding of brackets developed with a dedicated 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



The Leone plug-in for Maestro 3D software (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.



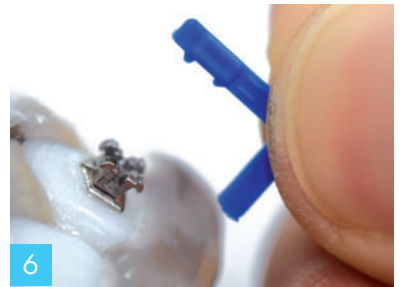
Once the transfer-bite is ready, the brackets must be joined physically to each corresponding positioner: thanks to the special design of the inter-bracket tie wing portion, the union with the bracket is stable and removable at the same time for the next clinical phase.



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.



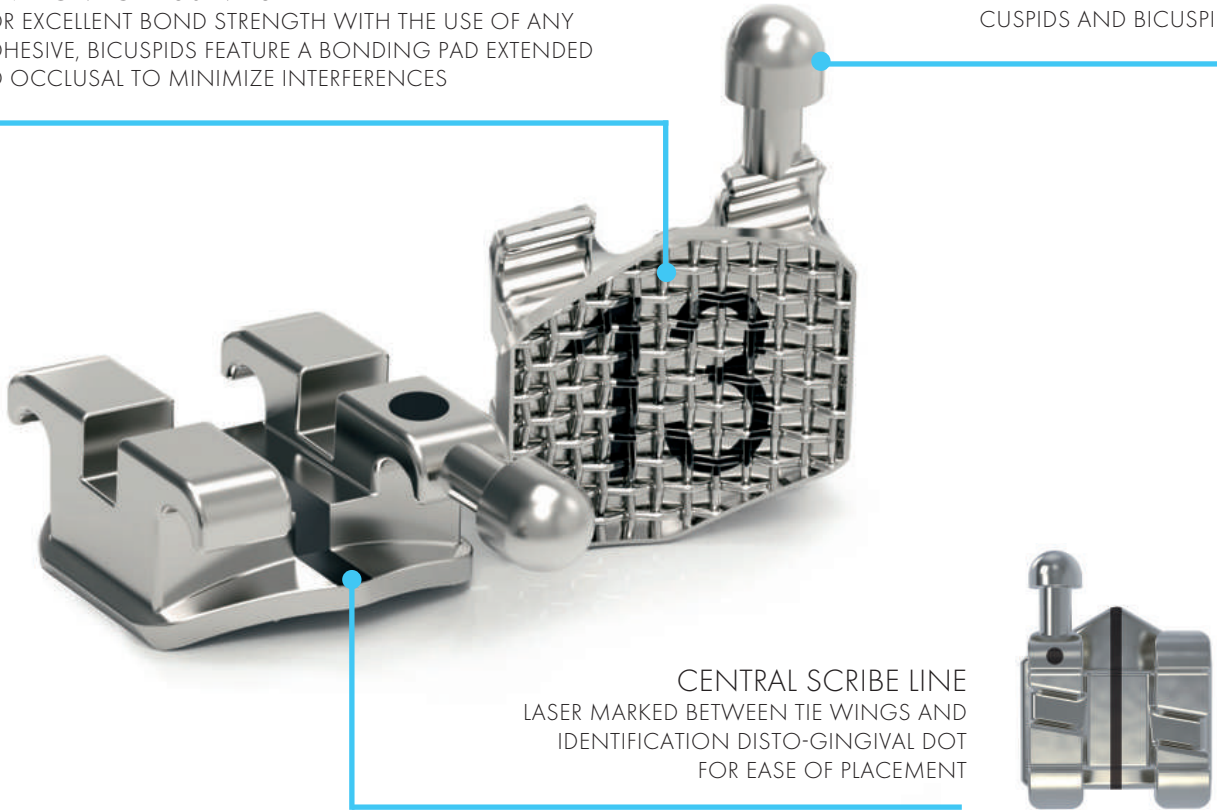
The positioners for brackets are individual for each tooth and marked according to the FDI system. They can be detached from the holder using a scalpel. The positioners for tubes are also individual, marked according to the FDI system and for exclusive use with the above indicated tubes.

*PATENTED

ANATOMICAL 80 MESH PAD

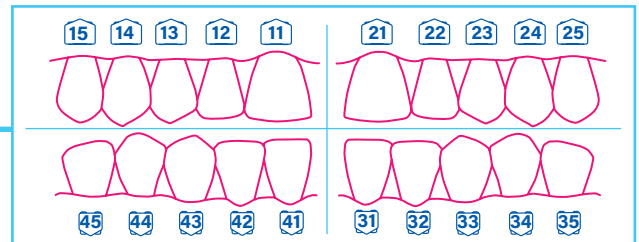
FOR EXCELLENT BOND STRENGTH WITH THE USE OF ANY ADHESIVE, BICUSPIDS FEATURE A BONDING PAD EXTENDED TO OCCLUSAL TO MINIMIZE INTERFERENCES

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



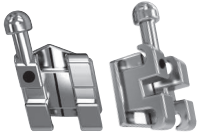
CENTRAL SCRIBE LINE
LASER MARKED BETWEEN TIE WINGS AND
IDENTIFICATION DISTO-GINGIVAL DOT
FOR EASE OF PLACEMENT

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

Pack of 10



**MINI DIAGONALI®
RICKETTS SYSTEM**

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

Pack of 10

Brackets not available into kits



MINI DIAGONALI® ROTH SYSTEM

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

MINI DIAGONALI® RICKETTS SYSTEM

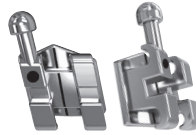
.018"		F7070-91	F7071-91	F7073-91	F7075-91
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D.B. BRACKETS **MINI DIAGONALI®** WITH FDI IDENTIFICATION



MINI DIAGONALI® ANDREWS SYSTEM



MINI DIAGONALI® MBT* SYSTEM

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

Pack of 10

Brackets not available into kits

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

Pack of 10

MINI DIAGONALI® ANDREWS SYSTEM

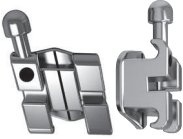
	20 brackets - 1 case	200 brackets - 10 cases	500 brackets - 25 cases	1000 brackets - 50 cases
.018"	F7170-91	F7171-91		
.022"	F7110-91	F7111-91		F7115-91

MINI DIAGONALI® MBT* SYSTEM

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



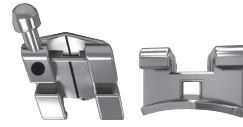
*MBT is a Trademark of 3M Unitek. The orthodontic brackets illustrated in this catalogue are not intended to be a duplication of any other existing system nor does Leone SpA imply that they are endorsed by the above mentioned doctors or Schools in any form.



**MIDI DIAGONALI
ROTH SYSTEM**

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

Pack of 10



**MIDI DIAGONALI
ROTH SYSTEM
WITH VERTICAL SLOT**

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

Pack of 10

Brackets not available into kits

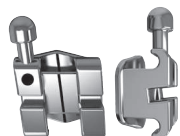


MIDI DIAGONALI ROTH SYSTEM

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

MIDI DIAGONALI ROTH SYSTEM WITH VERTICAL SLOT

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



**MIDI DIAGONALI
MBT* SYSTEM**



**MIDI DIAGONALI
BIDIMENSIONAL SYSTEM
WITH VERTICAL SLOT**

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

Pack of 10

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

Pack of 10

Brackets not available into kits

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MIDI DIAGONALI MBT* SYSTEM

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

MIDI DIAGONALI BIDIMENSIONAL SYSTEM WITH VERTICAL SLOT

F4210-93	F4211-93	F4213-93
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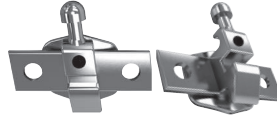




**MIDI DIAGONALI
RICKETTS SYSTEM**

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

Pack of 10



**MIDI DIAGONALI
ALEXANDER SYSTEM**

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

Pack of 10

Brackets not available into kits



MIDI DIAGONALI RICKETTS SYSTEM

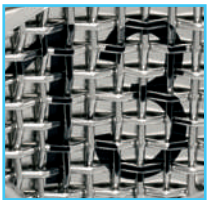
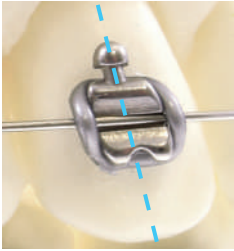
		20 brackets - 1 case	200 brackets - 10 cases	500 brackets - 25 cases	1000 brackets - 50 cases
.018"		F4370-91	F4371-91	F4373-91	F4375-91

MIDI DIAGONALI ALEXANDER SYSTEM

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

MAXIMUM COMFORT
THANKS TO REDUCED SIZES
AND ROUNDED EDGES

DIAGONAL ROUND
ANGULATION
FOR EASY BRACKET
PLACEMENT



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

**DIAGONAL ROUND
ROTH SYSTEM**



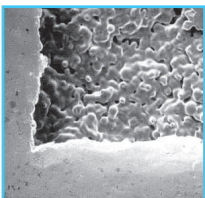
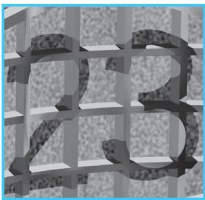
	20 brackets 1 case	200 brackets 10 cases
.018"	F6380-91	F6381-91
.022"	F6320-91	F6321-91

EXTREMO

SINGLE PIECE BRACKET **MIM**[®]

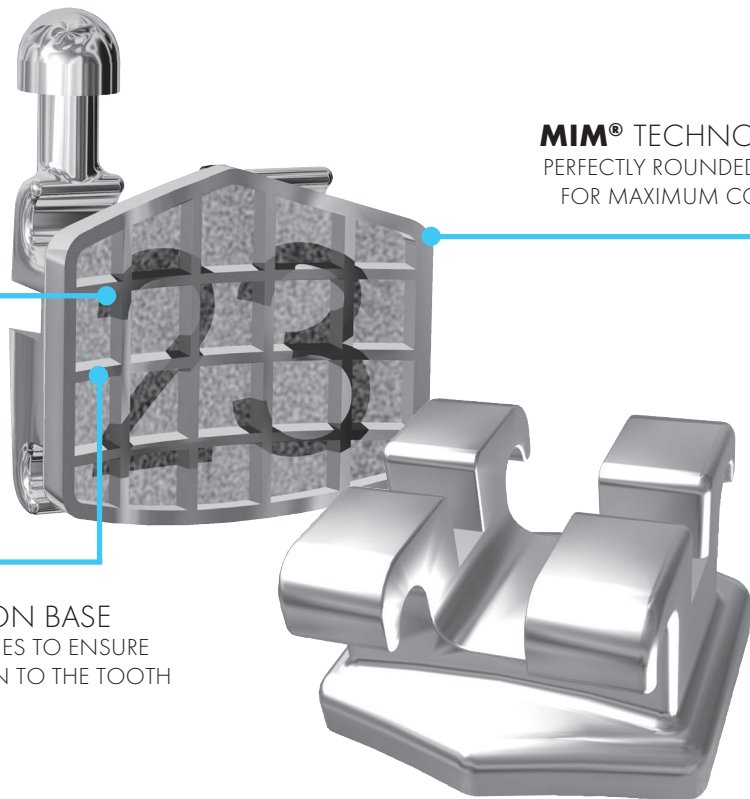
- PRECISION
- CONSTANT QUALITY
- NO SOLDERING POINTS
- COMPUTER DESIGNED ANATOMICAL BOND BASES
- EXCELLENT BOND STRENGTH
- BIOCOMPATIBILITY
- PATIENT COMFORT

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



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

MIM[®] TECHNOLOGY
PERFECTLY ROUNDED EDGES
FOR MAXIMUM COMFORT



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"
		3.6	0°	$\frac{1}{1}$	F9081-11	F9021-11	
		3	0°	$\frac{2}{2}$	F9081-12	F9021-12	
		3.3	0°	$\frac{3}{3}$	F9088-14	F9028-14	
		3.3	0°	$\frac{4}{4}$	F9088-14	F9028-14	
		3.3	0°	$\frac{5}{5}$	F9088-14	F9028-14	
		2.6	0°	$\frac{1}{1}$	F9080-15	F9020-15	
		2.6	0°	$\frac{2}{2}$	F9080-15	F9020-15	
		3.3	0°	$\frac{3}{3}$	F9088-14	F9028-14	
		3.3	0°	$\frac{4}{4}$	F9088-14	F9028-14	
		3.3	0°	$\frac{5}{5}$	F9088-14	F9028-14	

Pack of 10



**EXTREMO
ROTH SYSTEM
WITH FDI IDENTIFICATION**

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

Pack of 10

EXTREMO EDGEWISE STANDARD SYSTEM

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

EXTREMO ROTH SYSTEM WITH FDI IDENTIFICATION

.018"		F9270-91	F9271-91	F9273-91	F9275-91
.022"		F9210-91	F9211-91	F9213-91	F9215-91



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:



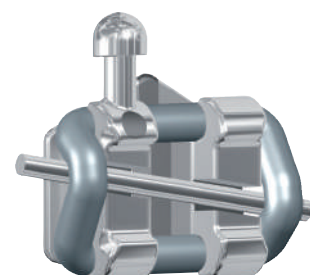
1 Apply **SLIDE** ligature in the open position and arch wire inside the slot



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

Pack of 10

LOGIC LINE ROTH SYSTEM

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

Z0110-17
EMPTY TRAY
FOR BRACKET STORAGE

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



Z0100-01
EMPTY KIT BOX
FOR BRACKET
AND BAND STORAGE

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



See pages 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.

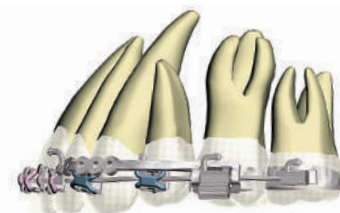
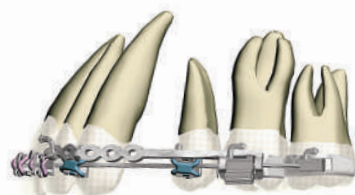
Logical management of friction is always possible with the use of the **SLIDE** low friction ligatures and/or alternatively, with the conventional ligatures only

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.

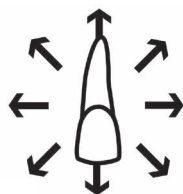
Brackets with vertical slot for cuspid and bicuspid, with the same in-out values, allow the use of springs and auxiliaries for greater biomechanical and anchorage control.

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



*Patent No. US 6,811,397 B2



ALIGNMENT AND LEVELING

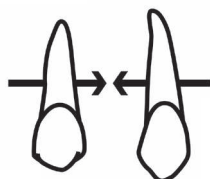
Nickel-titanium **MEMORIA**® super elastic arch wires deliver constant and light forces. The use with **SLIDE** ligatures is recommended.

FULL EXPRESSION OF THE BRACKET TIP VALUE

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

TORQUE CONTROL

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



SPACE CLOSURE

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

FINISHING

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



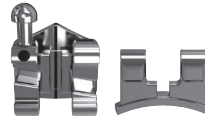
**STEP SYSTEM 2.0
STANDARD**

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

Pack of 10

**STEP SYSTEM 2.0
STANDARD**

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



**STEP SYSTEM 2.0
WITH VERTICAL SLOT**

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

Pack of 10



Brackets not available into kits

**STEP SYSTEM 2.0
WITH VERTICAL SLOT**

	20 brackets - 1 case	200 brackets - 10 cases
.022"	F6120-92	F6121-92

ARCHWIRE SEQUENCE

ALIGNMENT AND LEVELING

		∅				
		inch	upper	lower	pkg.	
	MEMORIA ® nickel-titanium medium	.012	C5910-12	C5950-12	10	
	MEMORIA ® nickel-titanium medium	.014	C5910-14	C5950-14		
	MEMORIA ® nickel-titanium medium	.016	C5910-16	C5950-16		

FULL EXPRESSION OF TIP VALUE

		∅			
		inch	upper	lower	pkg.
	Australian special plus	.016	C2010-16	C2050-16	10
	Australian special plus	.020	C2010-20	C2050-20	

TORQUE CONTROL

		∇				
		inch	upper	lower	pkg.	
	MEMORIA ® nickel-titanium medium	.021x.025	C5915-21	C5955-21	10	

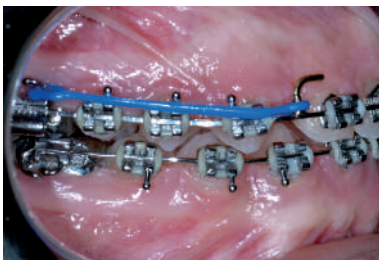
SPACE CLOSURE

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

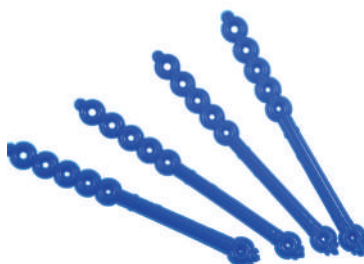
*Distance between archwire hooks

FINISHING

		∇				
		inch	upper	lower	pkg.	
	Beta MEMORIA ®	.021x.027	C7112-21	C7115-21	10	



Courtesy of Dr. A. Fortini











**K6461-01
TIE-BACK**

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

Pack of 10

MIM® TUBES

							
		torque	rotat.	round tube diam.	rect. tube diam.	weldable tubes	WEB band with tube
convertible   	<u>6 6</u>	-14°	+10°	.045" occl.	.022"	R G8424-32	E8920-00
						L G8424-33	E8930-00
	<u>6 6</u>	-20°	+8°		.022"	R G8421-16	E8960-00
						L G8421-17	E8970-00
	<u>6 6</u>	-20°	+8°	.045" ging.	.022"	R G8424-16	E8961-00
						L G8424-17	E8971-00
							
		torque	rotat.		rect. tube diam.	weldable tubes	welded and brazed on MAXI base
	<u>76 67</u>	-14°	+8°		.022"	R G8321-12	F8321M12
						L G8321-13	F8321M13
	<u>76 67</u>	-20°	+8°		.022"	R G8321-16	F8321M16
						L G8321-17	F8321M17

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

Logic
Line

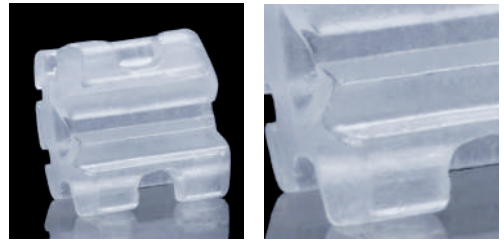
PURE AESTHETICS AND
LOGIC MANAGEMENT
OF FRICTION

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.

- MICRO-FILLED COPOLYMER
MAKES THE BRACKET MIMETIC
WITH ANY TOOTH COLOUR SHADE

- CERAMICS
TRANSLUCENCE AND RESISTANCE
SMOOTH EDGES, LOW PROFILE,
SUPERIOR IN COMFORT



HOUSING IN THE WINGS
INTEGRATED IN THE BRACKET PROFILE
FOR EASY PLACEMENT OF **SLIDE** LIGATURES



MICRO-CELL PAD DESIGN
THE SPECIAL DESIGN ENSURES A WIDER CONTACT
AREA WITH THE ADHESIVE FOR A BETTER CLINICAL
EFFICIENCY

BASE WITH SPECIAL
MECHANICAL RETENTION
NO SPECIFIC PRIMERS ARE REQUIRED

*PATENTED



Courtesy of Dr. A. Fortini

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

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

Pack of 10



STEP SYSTEM 2.0 IN COPOLYMER

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

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

STEP SYSTEM 2.0 IN COPOLYMER

	20 brackets 1 case	200 brackets 10 cases
.022"	F5410-92	F5411-92



D.B. AESTHETIC TUBES WITHOUT HOOK

Pack of 10

				slot	
		torque	rotat.	slot	
$\frac{7}{6} \frac{6}{7}$		-14°	+8°		R F8721-02 L F8721-03
$\frac{7}{6} \frac{6}{7}$		-20°	+8°	.022"	R F8721-06 L F8721-07



Courtesy of Dr. A. Fortini
























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



STEP SYSTEM 2.0 IN CERAMICS

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



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

						
		torque	rotat.	slot		
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



**ROTH SYSTEM LOGIC LINE
IN CERAMICS**

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

**ROTH SYSTEM LOGIC LINE
IN CERAMICS**

	6 brackets	10 brackets
	3 2 1 1 2 3	5 4 3 2 1 1 2 3 4 5
.022"	F5906-21	F5910-21

	12 brackets	20 brackets
	3 2 1 1 2 3 3 2 1 1 2 3	5 4 3 2 1 1 2 3 4 5 5 4 3 2 1 1 2 3 4 5
.022"	F5912-21	F5920-21

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

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

Pack of 10



**ROTH SYSTEM LOGIC LINE
IN COPOLYMER**

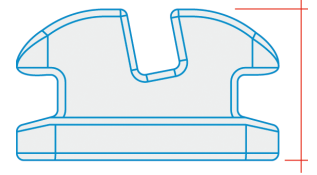
		torque	ang.	.022"x.030"		
		3.6	+12°	+5°	$\frac{1}{1}$	F5421-32 F5421-33
		3	+8°	+9°	$\frac{2}{2}$	F5422-32 F5422-33
		3.3	-2°	+13°	$\frac{3}{3}$	F5413-32 F5413-33
		3.3	-7°	0°	$\frac{4}{4}$	F5419-12 F5419-13
		3.3	-7°	0°	$\frac{5}{5}$	F5419-12 F5419-13
		2.8	0°		$\frac{1}{1}$	F5420-05
		2.8	0°		$\frac{2}{2}$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

**ROTH SYSTEM LOGIC LINE
IN COPOLYMER**

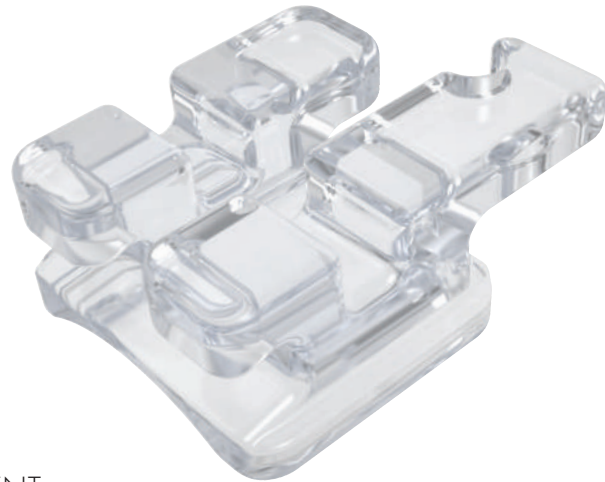
	20 brackets 1 case	200 brackets 10 cases
.022"	F5410-94	F5411-94



MAXIMUM COMFORT
GUARANTEED BY EXTREMELY
REDUCED PROFILE AND
BEVELLED BRACKET EDGES



MECHANICAL RETENTION
INDUCED BY THE ENFORCEMENT
OF ZIRCONIA MICRO BALL BEADS
OVER THE 2/3 OF THE SURFACE



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.



D.B. AESTHETIC BRACKETS

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

Pack of 1



GHIACCIO ROTH SYSTEM

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

GHIACCIO MBT* SYSTEM

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

GHIACCIO ROTH SYSTEM

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

GHIACCIO MBT* SYSTEM

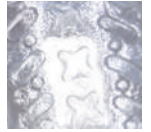
	6 brackets	10 brackets	12 brackets	20 brackets
	3 2 1 1 2 3	5 4 3 2 1 1 2 3 4 5	3 2 1 1 2 3 3 2 1 1 2 3	5 4 3 2 1 1 2 3 4 5 5 4 3 2 1 1 2 3 4 5
.022"	F5506-21	F5510-21	F5512-21	F5520-20

*MBT is a Trademark of 3M Unitek.

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

AQUA SL

Ceramic Brackets Self-Ligating



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 facili-
tating 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 detail-
ing fill completely the slot by going into active
contact with the clip: that permits to take
advantage of metal superelastic properties
and gets the smallest movements for finishing
of treatment



**D.B. AQUA SL
SELF LIGATING BRACKETS**

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

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

Pack of 1

**AQUA SL SELF LIGATING
ROTH SYSTEM**

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

Lower bicuspidis in stainless steel

**AQUA SL SELF LIGATING
MBT* SYSTEM**

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

Lower bicuspidis in stainless steel



**AQUA SL SELF LIGATING
ROTH SYSTEM**

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

**AQUA SL SELF LIGATING
MBT* SYSTEM**

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

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
















**D.B. AQUA
CERAMIC BRACKETS**


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

Pack of 1

































**AQUA
ROTH SYSTEM**

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


**AQUA
ROTH SYSTEM**

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

**AQUA
RICKETTS SYSTEM**

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


**AQUA
RICKETTS SYSTEM**

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




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

D.B. MIM® TUBES



	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°		.051" ging.	.018"	R	G8085-02	F8085-22	on request	on request	on request	on request
					L	G8085-03	F8085-23				
				.022"	R	G8025-02	F8025-22	E1420-00	E1425-00	on request	on request
					L	G8025-03	F8025-23	E1430-00	E1435-00		
0°		.051" ging.	.018"	R	G8085-03	F8085-23	on request	on request	on request	on request	
				L	G8085-02	F8085-22					
			.022"	R	G8025-03	F8025-23	E1460-00	E1465-00	on request	on request	
				L	G8025-02	F8025-22	E1470-00	E1475-00			

D.B. CONVERTIBLE MIM® TUBES

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

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

BRACKETS

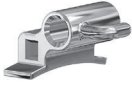
	torque	rotat.	slot		weldable brackets	direct bonding brackets	
	0°			.018"	R	G2086-14	F2086-14
					L		
				.022"	R	G2026-14	F2026-14
					L		
	0°			.018"	R	G2080-44	F2081-01
					L		
				.022"	R	G2020-44	F2021-01
					L		

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


Pack of 10

 Pack of 100 on request

D.B. MIM® TUBES

	torque	rotat.	round tube diam.	rect. tube slot		weldable tubes	direct bonding tubes	molar band with tube			
								CALIBRA® pack of 10	CALIBRA® pack of 5	WEB pack of 10	WEB pack of 5
	-10°	+8°	.051" ging.	.018"	R	G8385-02	F8385-02	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	
			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
				L	G8485-03	F8485-03	
				.022"	R	G8425-02	F8425-02
	L	G8425-03	F8425-03				
-25°	+8°	.051" ging.	.018"	R	G8485-06	F8485-06	
			L	G8485-07	F8485-07		
			.022"	R	G8425-06	F8425-06	
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

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

*Extremo No-nickel

CONVERTIBILE MIM® TUBES

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

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

			rect. tube torque	rect. tube rot.	round tube diam.	direct bonding tubes	
						rect. tube .018"x.025"	rect. tube .022"x.028"
	$\frac{\delta}{\delta}$	double		0°	.051" ging.	R F8085-22 L F8085-23	F8025-22 F8025-23
	$\frac{\delta}{\delta}$	double		-10° +8°	.051" ging.	R F8385-02 L F8385-03	F8325-02 F8325-03
	$\frac{\delta}{\delta}$	double		-25° +8°	.051" ging.	R F8385-06 L F8385-07	F8325-06 F8325-07
	$\frac{\delta}{\delta}$	double		0°	.045" occl.	R F8084-32 L F8084-33	F8024-32 F8024-33
	$\frac{\delta}{\delta}$	double		0°	.051" occl.	R F8085-42 L F8085-43	F8025-42 F8025-43
	$\frac{\delta}{\delta}$	double		-10° +8°	.045" occl.	R F8384-32 L F8384-33	F8324-32 F8324-33
	$\frac{\delta}{\delta}$	double		-10° +8°	.051" occl.	R F8385-22 L F8385-23	F8325-22 F8325-23
	$\frac{\delta}{\delta}$	triple		0°	.045" ging.	R F8084-12 L F8084-13	F8024-12 F8024-13
	$\frac{\delta}{\delta}$	triple		-10° +8°	.045" ging.	R F8384-12 L F8384-13	F8324-12 F8324-13
	$\frac{\delta}{\delta}$	triple		0°	.045" occl.	R F8084-22 L F8084-23	F8024-22 F8024-23
	$\frac{\delta}{\delta}$	triple		0°	.051" occl.	R F8085-32 L F8085-33	F8025-32 F8025-33
	$\frac{\delta}{\delta}$	triple		-10° +8°	.045" occl.	R F8384-22 L F8384-23	F8324-22 F8324-23
	$\frac{\delta}{\delta}$	triple		-10° +8°	.051" occl.	R F8385-12 L F8385-13	F8325-12 F8325-13
	$\frac{\delta}{\delta}$	rectangular double with ball hook		-14° +8°		R F8070-02 L F8070-03	F8010-02 F8010-03
	$\frac{\delta}{\delta}$	rectangular double with ball hook		-25° +8°		R F8070-06 L F8070-07	F8010-06 F8010-07
	$\frac{7}{7}$	partially erupted		-15° 0°		R F7980-01 L F7980-01	F7920-01

Pack of 10

 Pack of 100 on request

D.B. MIM® TUBES EXTREMO NO-NICKEL

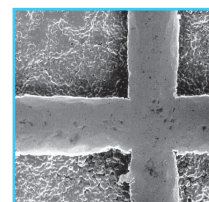
Single piece tubes manufactured with **MIM®** technology in a biocompatible nickel free* alloy.

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
	$\frac{7}{6} \frac{6}{7}$ $\frac{7}{6} \frac{6}{7}$				0°	.018"	R F8581-12 L F8581-13
						.022"	R F8521-12 L F8521-13
						.018"	R F8681-12 L F8681-13
						.022"	R F8621-22 L F8621-23
	$\frac{7}{6} \frac{6}{7}$				-10°	+8°	R F8681-12 L F8681-13
						.022"	R F8621-22 L F8621-23
						.022"	R F8621-32 L F8621-33
						.022"	R F8621-26 L F8621-27
	$\frac{7}{6} \frac{6}{7}$				-14°	+8°	R F8621-32 L F8621-33
						.022"	R F8621-26 L F8621-27
						.018"	R F8681-16 L F8681-17
						.022"	R F8621-36 L F8621-37
	$\frac{6}{6} \frac{6}{6}$				0°	.018"	R F8570-02 L F8570-03
						.022"	R F8510-02 L F8510-03
						.018"	R F8570-02 L F8570-03
						.022"	R F8510-02 L F8510-03

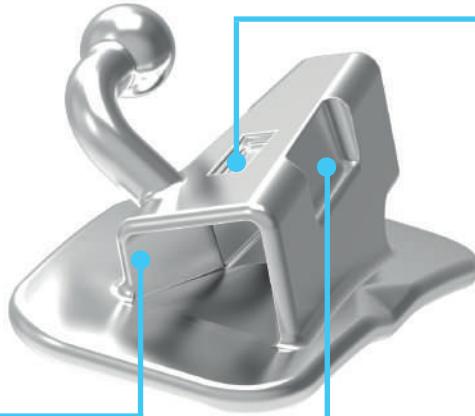
*Nickel trace elements of ≤ 0,1% are due to the process of manufacturing

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

OCCLUSO-GINGIVAL PARALLEL PLANES
PROVIDE A SECURE GRIP WITH TWEEZERS

MESIAL FUNNELED
ENTRY WAY
FACILITATES THE INSERTION
OF THE ARCHWIRE



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 F8311-16
					.022"	L F8311-26
7 6 6 7			-20°	+8°	.022"	R F8311-46
					.022"	L F8311-36

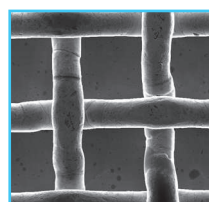


F2800-00
D.B. MAXI MESH PAD

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.

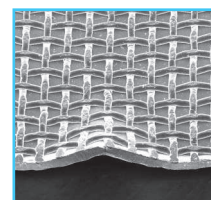
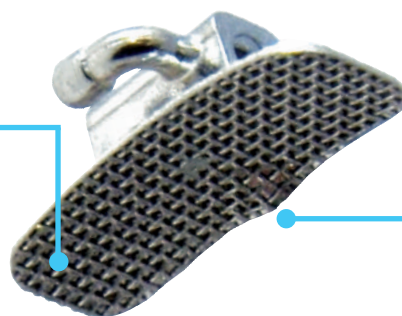
Hygiene and health of the soft tissues are improved, besides, the positioning of the tube will be more precise.

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



1ST 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).

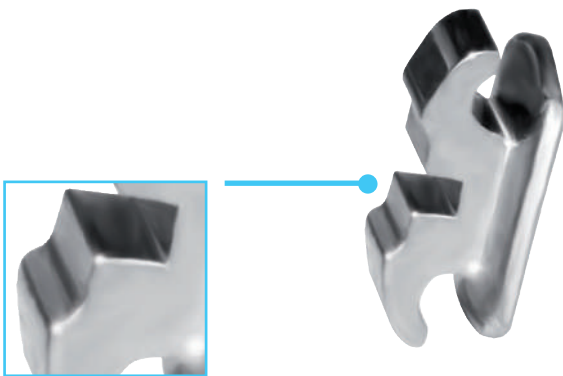
Minimum quantity per order: pack of 10.

High quality free soldering service made with an industrial process.

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

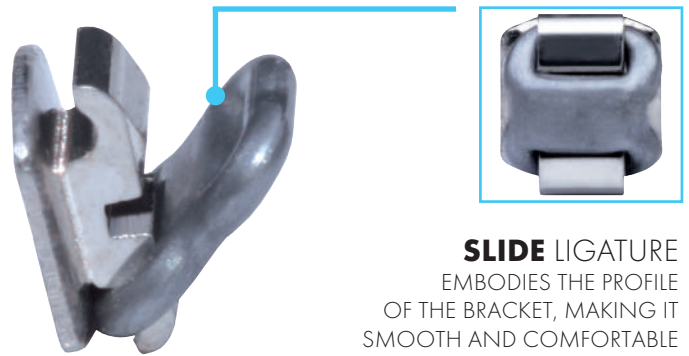


IDEA-L lingual brackets feature small mesio-distal sizes, 1,4 mm depth and a special bracket design which make the application of Slide ligatures easy. In most cases, the use of a round wire **MEMORIA®** .012 is sufficient to get the solution of overcrowding and the aesthetical improvement of smile. 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 TREATMEN



SLIDE LIGATURE
EMBODIES THE PROFILE
OF THE BRACKET, MAKING IT
SMOOTH AND COMFORTABLE

SPECIAL PLASTIC JIG



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



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



3 Position in the mouth and polymerization of the adhesive



4 Removal of the jig with a rotary movement



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



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

IDEA-L SYSTEM

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

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

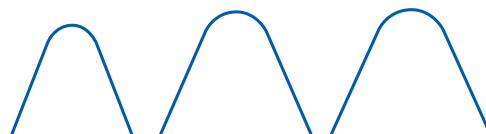


Courtesy of Dr. F. Giuntoli

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	C4950-12	C4951-12	C4952-12
.014	C4950-14	C4951-14	C4952-14

BETA MEMORIA® LINGUAL ARCHWIRES

.016	C4970-16	C4971-16	C4972-16
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JIGS - REFILL Pack of 20

F4900-01	size 1	F4900-04	size 4
F4900-02	size 2	F4900-05	size 5
F4900-03	size 3	F4900-06	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



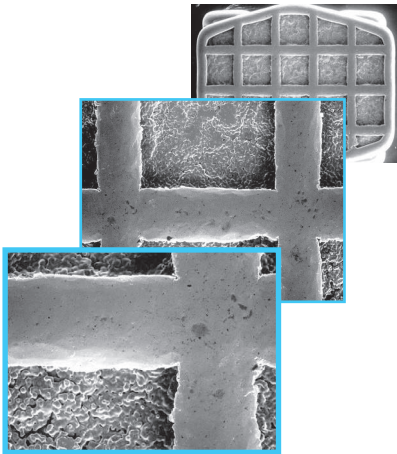
F2820-00
Gull winged
cleat



F2822-00
Cleat
low profile



F2824-00
Low profile
cleat for molar



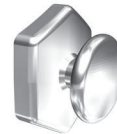
D.B. BUTTONS EXTREMO NO-NICKEL

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



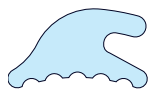
F9070-00
Deep curved



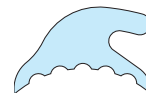
D.B. NATURA® HOOKS

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

Pack of 10



F5060-00
Flat



F5060-01
Curved

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



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

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

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

Pack content:

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

REFILLS

Activator	F3141-01	14 g
Adhesive in 3 syringes	F3142-01	3x5 g
Etching gel	F3143-01	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	F3171-01	7 g
Adhesive in 4 syringes	F3172-01	4x5 g
Etching gel	F3143-01	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	F3812-04	10
6	F3812-06	
9	F3812-09	



**UPPER RETAINER
LATERAL TO LATERAL**

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



mm		pkg.
14	F3822-14	10
16	F3822-16	
18	F3822-18	
20	F3822-20	



**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	F3836-29	2
31	F3836-31	
33	F3836-33	
35	F3836-35	
37	F3836-37	



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

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

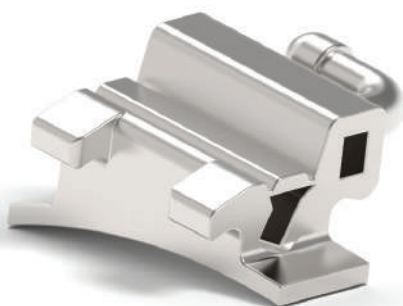


**F3940-95
DIASTEMA KIT**
Pack content: 20 tubes and 10 springs

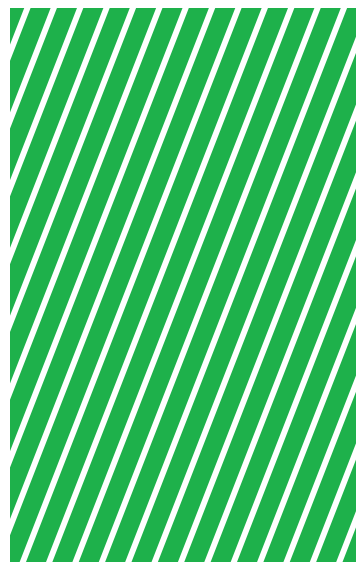
REFILLS
F3941-00 Springs
F3942-00 Tubes

| Pack of 10

TUBES AND BRACKETS



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.

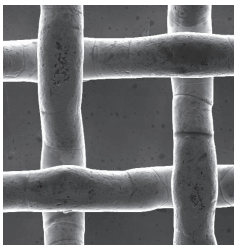
All the Leone brackets may be welded on either **CALIBRA**® ou **WEB** bands with a free prewelding service.



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
<p>auxiliary tube .018"x.025"</p>	6/6 6/6		0°		.045" occl.	.018"	R G8084-22 L G8084-23	
						.022"	R G8024-22 L G8024-23	
	6/6		0°		.051" occl.	.018"	R G8085-12 L G8085-13	
						.022"	R G8025-12 L G8025-13	
	6/6		-10°	+8°	.045" occl.	.018"	R G8384-22 L G8384-23	
						.022"	R G8324-22 L G8324-23	
	6/6		-10°	+8°	.051" occl.	.018"	R G8385-12 L G8385-13	
						.022"	R G8325-12 L G8325-13	
<p>auxiliary tube .018"x.025"</p>	6/6 6/6		0°		.045" ging.	.018"	R G8084-12 L G8084-13	
						.022"	R G8024-12 L G8024-13	
	6/6		-10°	+8°	.045" ging.	.018"	R G8384-12 L G8384-13	
						.022"	R G8324-12 L G8324-13	
<p>auxiliary tube .018"x.025"</p>	6/6 6/6		0°			.018"	R G8070-16 L G8070-17	
						.022"	R G8010-16 L G8010-17	
	6/6		-14°	+8°			.018"	R G8070-02 L G8070-03
							.022"	R G8010-02 L G8010-03
	6/6		-25°	+8°			.018"	R G8070-06 L G8070-07
							.022"	R G8010-06 L G8010-07

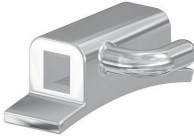















MIM® BUCCAL TUBES

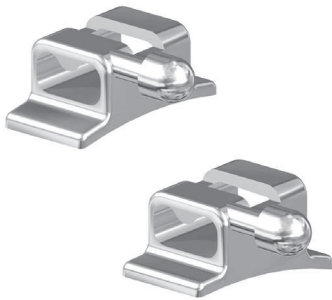
Pack of 10



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

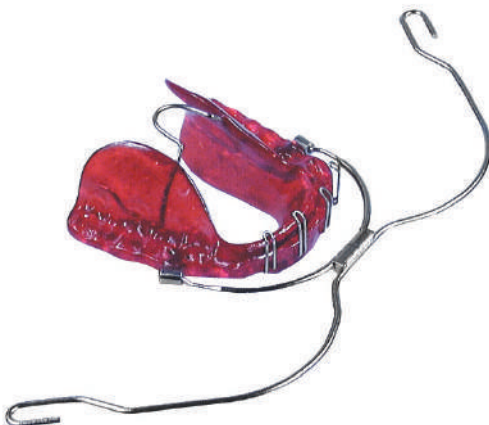
					torque	rect. tube rot.	round tube diam.	ret. tube slot	weldable tubes
	7 6 6 7 7 6 6 7	  	0°				.018"	R G8081-02 L G8081-03	
							.022"	R G8021-02 L G8021-03	
	7 6 6 7	  	-10° +8°					.018"	R G8381-02 L G8381-03
								.022"	R G8321-02 L G8321-03
								.022"	R G8321-12 L G8321-13
									R G8321-16 L G8321-17
	7 6 6 7	  	-14° +8°						R G8321-12 L G8321-13
									R G8321-16 L G8321-17
		  	-20° +8°						R G8321-16 L G8321-17
									R G8321-16 L G8321-17
		  	-25° +8°						R G8381-06 L G8381-07
									R G8321-06 L G8321-07



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** ∅ .045"
- A0761-51** ∅ .051"

CONVERTIBLE MIM® BUCCAL TUBES











The laser welded convertible cap prevents from any detachment and it is easy removable with the special Leone instrument P1090-00. Every tube is available: in the D.B. version, prewelded to either **CALIBRA®** o **WEB** bands or solder-brazed on the D.B. anatomical mesh pad **MAXI F2800-00** (free services see pages 89, 138).

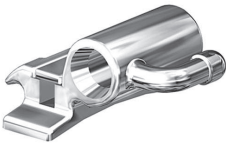
Pack of 10



Pack of 100 on request

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

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



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 2								
			0°	2,5	R	G2080-14	G2020-14	
			0°	3,3	R	G2080-34	G2020-34	
1 1								
			0°	3,5	R	G2086-14	G2026-14	
			0°	4,4	R	G2080-44	G2020-44	
			+10°	+5°	3,3		G2421-02	G2421-03
			+22°	0°	3,3	G2480-04		
2 2								
			0°	2,7	R	G2080-24	G2020-24	
			+5°	+10°	2,7		G2422-02	G2422-03
			+14°	+8°	2,7	G2482-02	G2482-03	
3 3								
			0°	2,5	R	G2080-14	G2020-14	
			0°	2,7	R	G2088-04	G2028-04	
			0°	3,3	R	G2088-14	G2028-14	
			+7°	+5°	3,3	G2483-08	G2483-00	
			-10°	+10°	3,3		G2423-02	G2423-03
			-10°	+15°	3,3		G2423-12	G2423-13
5 4 4 5								
			0°	2,7	R	G2088-04	G2028-04	
			0°	3,3	R	G2088-34	G2028-34	
			-7°	0°	3,3		G2484-05	
			-15°	0°	3,3		G2485-05	
			0°	2,0	R	G2089-14	G2029-14	
			0°	3,3	R	G2084-01	G2024-01	
			-17°	0°	3,3		G2489-15	G2429-15
			-22°	0°	3,3		G2489-05	G2429-25
6 6								
			0°	3,5	R	G2086-14	G2026-14	
			0°	4,4	R	G2080-44	G2020-44	



LOWER

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

suggested for Andrews system
 suggested for Ricketts system

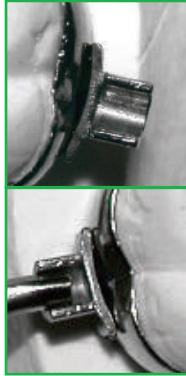
CONNECTORS FOR LASER WELDING

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	G0533-36
.045" 5,5	G0532-45 10
.045" 9,5	G0535-45

ROUND TUBING



mm	pkg.
.036"	G0525-36 1 pc
.045"	G0525-45 30 cm long

TWIN ARCH SYSTEM TUBES

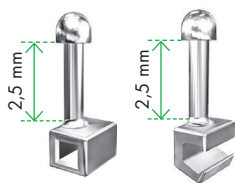
Pack of 10



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



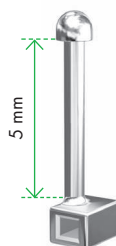
G0533-36
For soldering.
Inner diameter .036".



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	G9620-18	G9620-22	10
2,0 open	G9650-18	G9650-22	



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**

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



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"



ELASTIC LUGS

Pack of 100

G2893-00
Curved for posteriors

G2890-00
Flat for anteriors



LINGUAL CLEATS LOW PROFILE

Pack of 100

G2824-00
For molars

G2822-00
For cuspids and bicuspid



G2810-00 EYELET

Pack of 100



G2820-00 LINGUAL CLEATS HIGH PROFILE

Pack of 100



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



MINI MODULES LIGATURES



WIRES FOR METAL LIGATURES



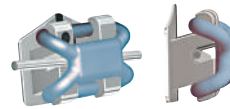
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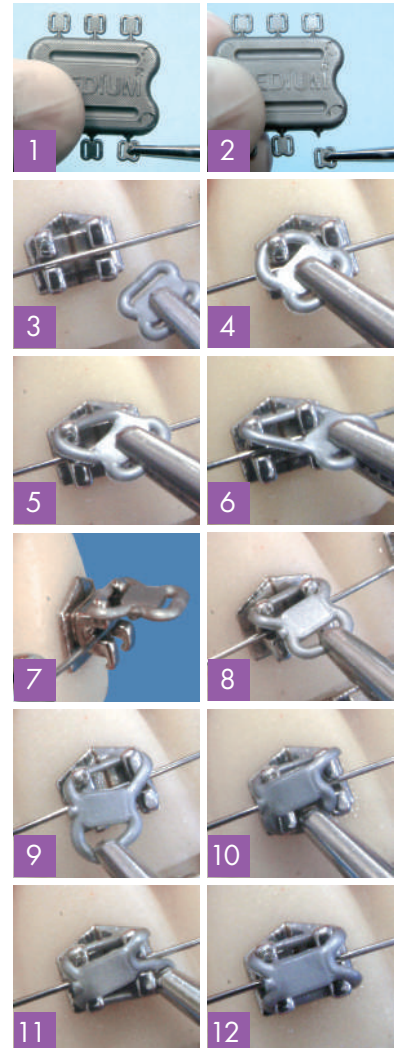
SLIDE
LOW FRICTION LIGATURES

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

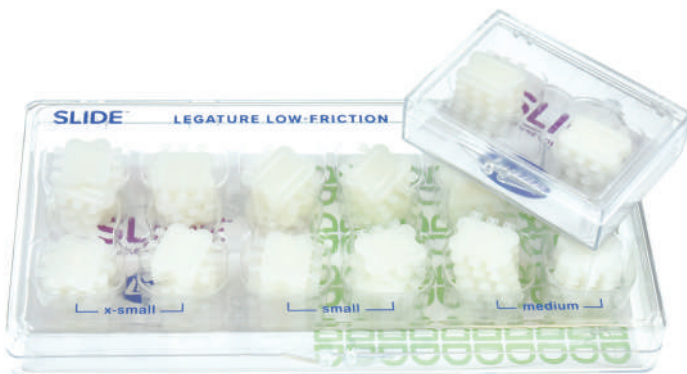
Thanks to an innovative manufacturing process, the new **SLIDE** low friction ligatures **AQUA** are not subject to corrosion by oral liquids and are now even more resistant to discoloration (a recurring issue with transparent elastomers). Changing ligatures frequently is no longer necessary and perfect 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

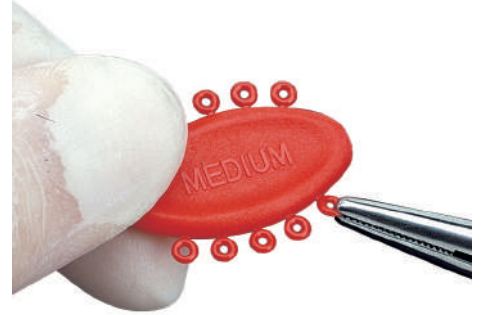


**K6210-93
SLIDE AQUA LIGATURE KIT**

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



inner		grey	transparent	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

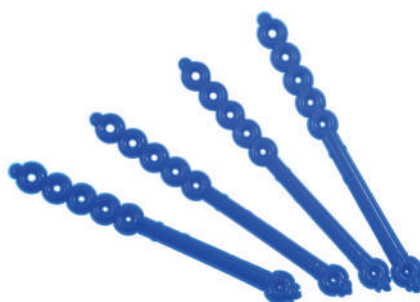
NEW



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.

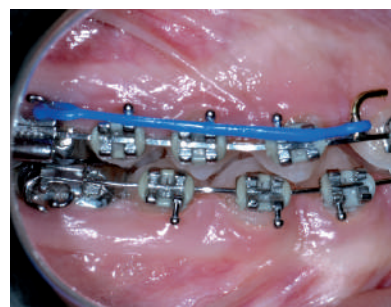
Pack of 1000



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

∅	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	

ELASTIC WIRE FOR LIGATURES AND TRACTIONS

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

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

Pack of 30 modules, 20 rings each



ELASTIC LIGATURES

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

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.

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

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	K4051-23	spools of 500 g approx.
	K4050-25	0,25	.010	K4051-25	
	K4050-28	0,28	.011	K4051-28	
	K4050-30	0,30	.012	K4051-30	
	K4050-36	0,36	.014	K4051-36	



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.

∅		Diagram		pkg.
mm	inch			
0,30	.012	K4610-30		100
0,36	.014	K4610-36		



K4680-36 NATURA® PREFORMED KOBAYASHI LIGATURES

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



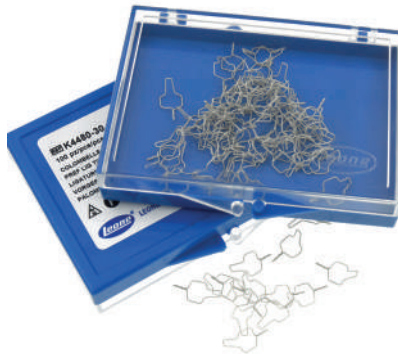
K4280-30 NATURA® PREFORMED LIGATURE WIRE

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

∅		Diagram		pkg.
mm	inch			
0,23	.009	K4210-23		1000
0,25	.010	K4210-25		
0,28	.011	K4210-28		
0,30	.012	K4210-30		

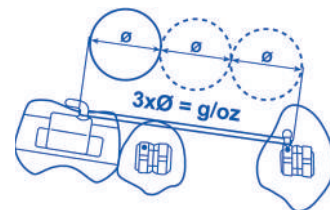


INTRAORAL ELASTICS

Cut from pure surgical latex tubing. All packages indicate the diameter size and the elastic pull which comes into force when the elastic is stretched three times its diameter. On each bag a colored image is printed, for an immediate identification from young patients.

Pack of 10 bags, 100 elastics approx. each bag

	inner					
		brown	green	red	blue	orange
		1/8" - 3,2 mm	3/16" - 4,8 mm	1/4" - 6,4 mm	5/16" - 7,9 mm	3/8" - 9,5 mm
light 2,5 oz - 70 g		K0901-02	K0902-02	K0903-02	K0904-02	K0905-02
medium 4,5 oz - 126 g		K0906-04	K0907-04	K0908-04	K0909-04	K0910-04
heavy 6,5 oz - 182 g		K0915-06	K0911-06	K0912-06	K0913-06	K0914-06



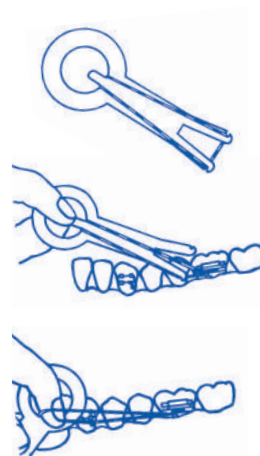
EXTRAORAL ELASTICS

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

K0950-00 APPLICATOR FOR INTRAORAL ELASTICS

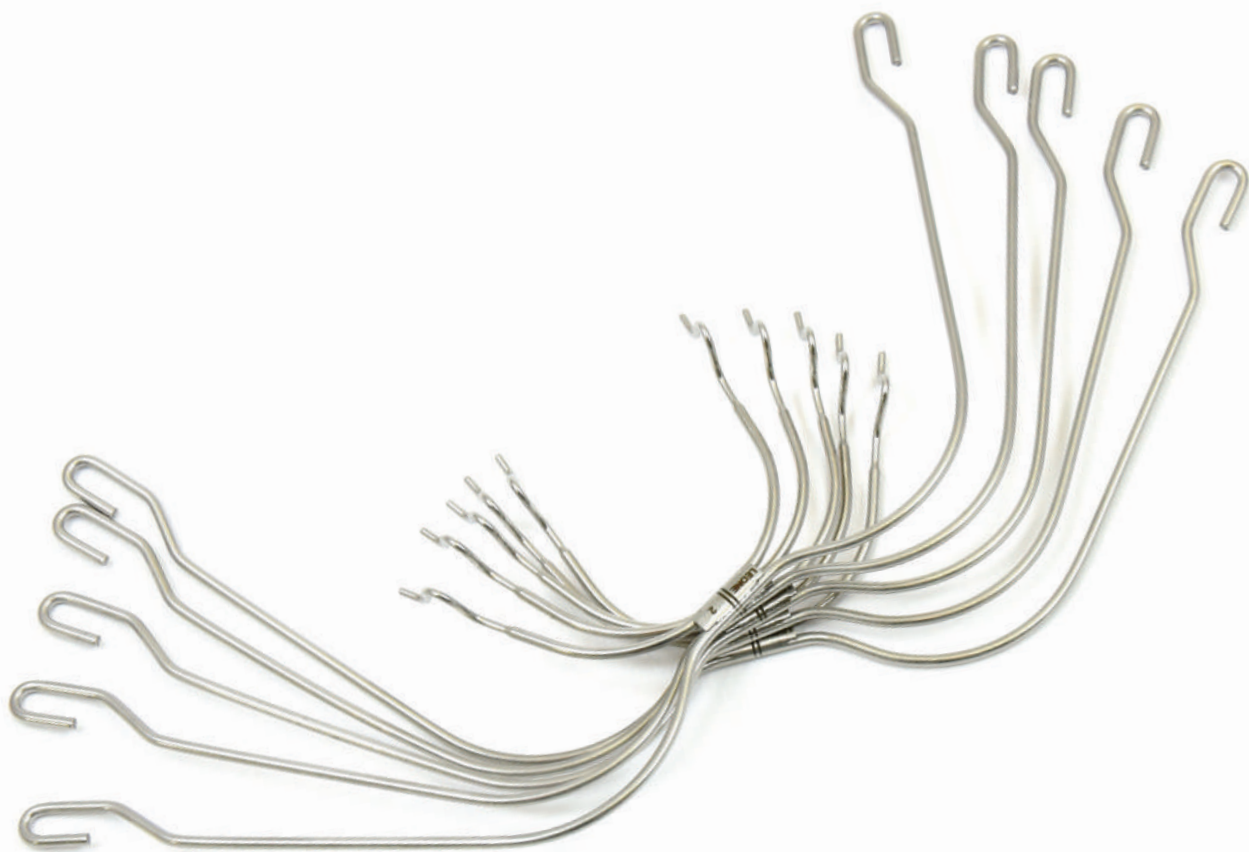
Pack of 100

	inner					
		3/16" - 4,8 mm	1/4" - 6,4 mm	5/16" - 7,9 mm	3/8" - 9,5 mm	1/2" - 12,7 mm
strong 8 oz - 224 g		K0932-08	K0933-08	K0934-08	K0935-08	K0936-08

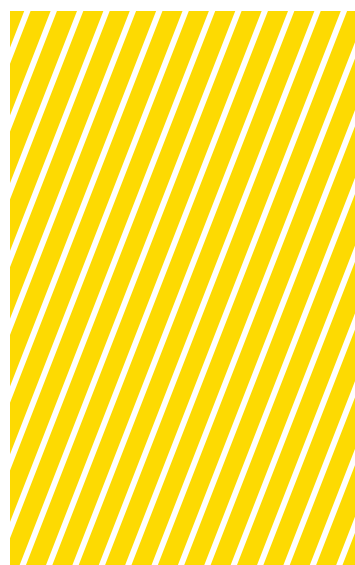


Caution: these products contain natural rubber latex that may cause allergic reactions

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.

EXTRA-SHORT



SHORT



LONG



1:1

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



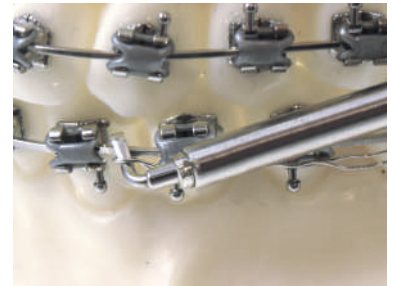
To avoid breakage, the device should not be mounted at full compression: once in the mouth in habitual occlusion, a portion of the plunger coming out of the tube for at least **2 mm** should be visible.



*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



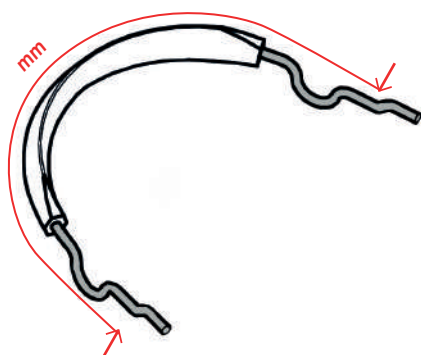
M3050-00 without loops

M3051-00 with loops

LIP BUMPER
WITH LOOPS
AND BAYONET STOPS



size	mm	pkg.	
1	76	M3051-01	M3051-011
2	80	M3051-02	M3051-012
3	84	M3051-03	M3051-013
4	88	M3051-04	M3051-014
5	92	M3051-05	M3051-015



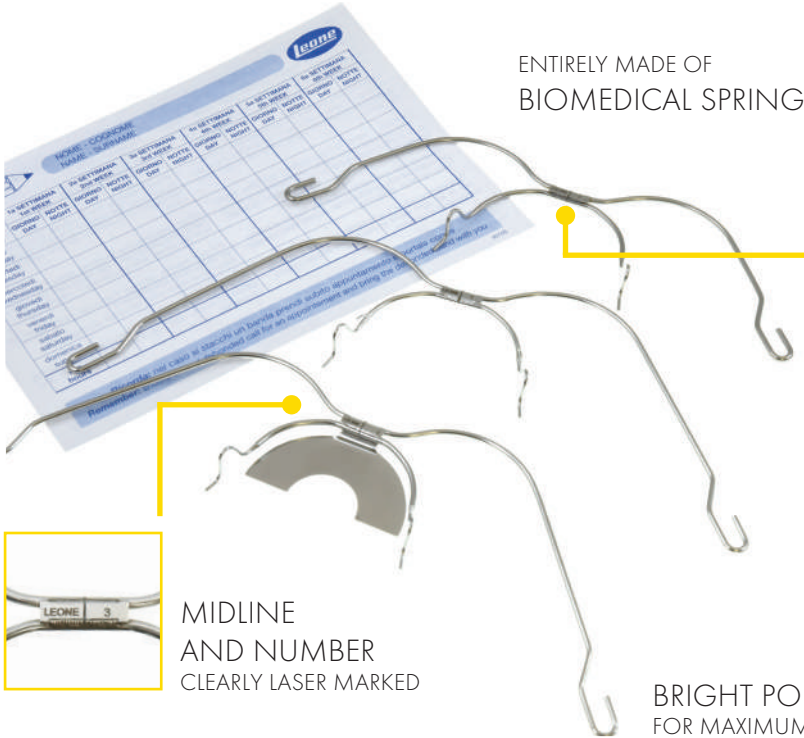
ENTIRELY MADE OF
BIOMEDICAL SPRING STAINLESS STEEL WIRE

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)

BRIGHT POLISHED
FOR MAXIMUM HYGIENE



MIDLINE
AND NUMBER
CLEARLY LASER MARKED

AVAILABLE VERSIONS:

- STANDARD
- WITH PRE-FORMED LOOPS
- WITH BITES OR DOUBLE BITES

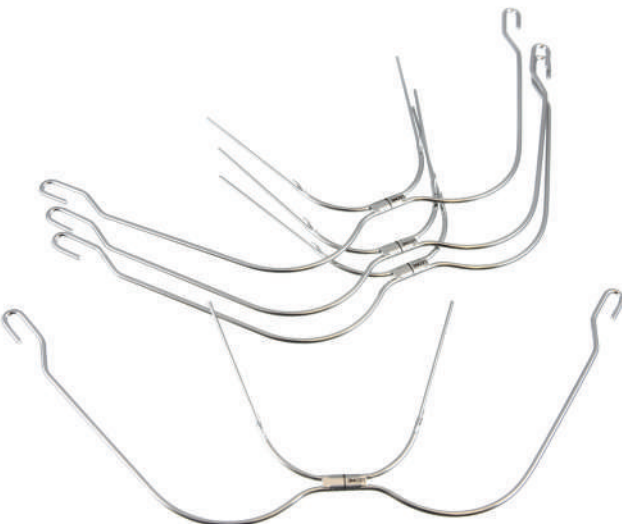
ALL WITH THE OPTION OF HOOKS FOR ELASTICS

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

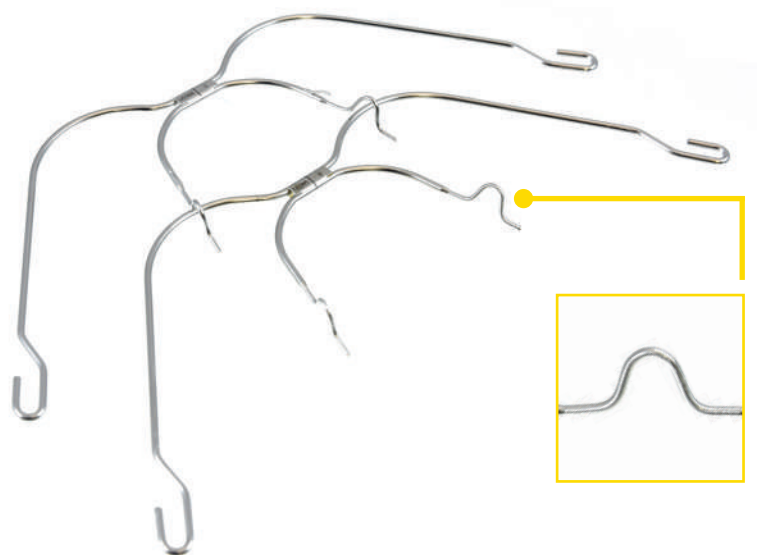


	outer arch diameter		inner arch diameter		standard facebow		standard facebow with hooks for elastics	
	mm	mm	mm	inch	pkg.	pkg.	pkg.	pkg.
outer arch EXTRALONG	1,80	1,14	.045		M4840-00 1	M4840-001 10		
outer arch LONG	1,80	1,14	.045		M4800-00 1	M4800-001 10	M4801-00 1	M4801-001 10
outer arch SHORT	1,80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

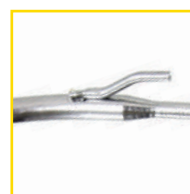


WITH PREFORMED LOOPS

d = intermolar width from loop to loop in millimeter	size	long outer bow		short outer bow		
		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
	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	size	long outer bow	pkg.
	83	M4806-01	1
	90	M4806-02	
	97	M4806-03	
	104	M4806-04	
	111	M4806-05	



WITH PREFORMED LOOPS AND BITE

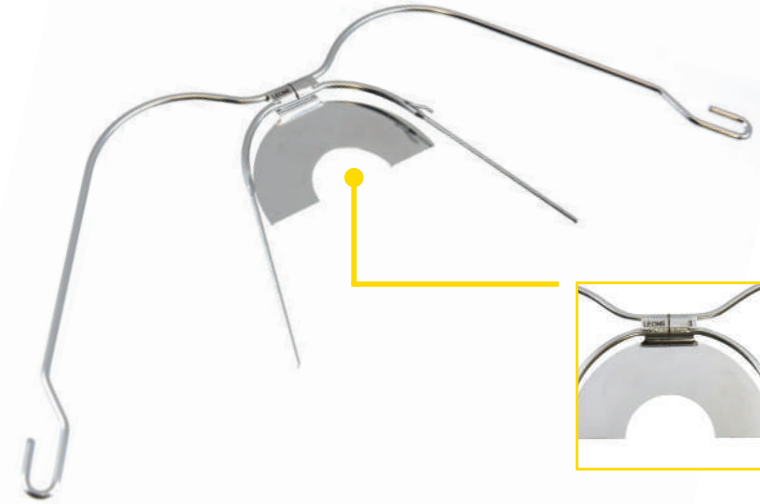
d = intermolar width from loop to loop in millimeter	size	with bite plane hard stainless steel	pkg.
	83	M4808-01	1
	90	M4808-02	
	97	M4808-03	
	104	M4808-04	
	111	M4808-05	



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

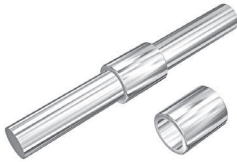


	standard		with hooks for elastics	with hooks and elastic retractor	
					pkg.
hard stainless steel bite plane	M4808-00	M4824-00	M4809-00	M4807-00	1
soft stainless steel bite plane	M4808-10	M4824-10	M4809-10	M4807-10	



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	M0805-00
medium	M0805-10
large	M0805-20

pink	
small	M0805-00S
medium	M0805-10S
large	M0805-20S



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



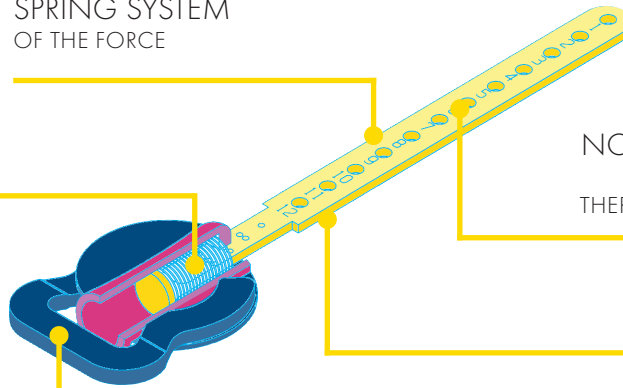
For use with the suitable headgear or neck pads only. Safety clasps disengage the spring strap when tension force exceeds 2 Kg each side. This system avoids dangerous slingshot rebound injuries of the facebow in case of disconnection from headgear tubes. Coil springs are incorporated into the modules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

Pack of 10

	colour	
light	white	M0810-01
medium	yellow	M0810-02
heavy	blue	M0810-03

SAFETY RELEASE
SPRING SYSTEM
OF THE FORCE

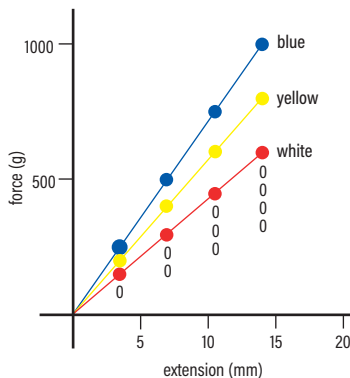
STAINLESS STEEL
SPRINGS
RELEASE PERMANENT FORCES



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

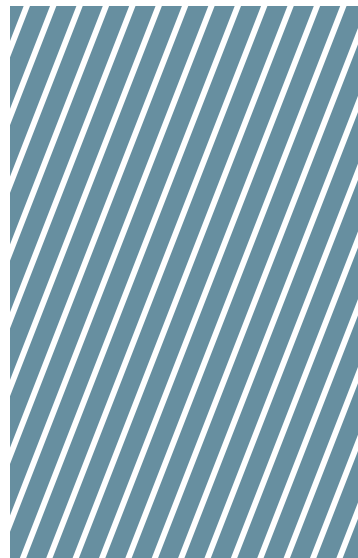
TEMPORARY

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



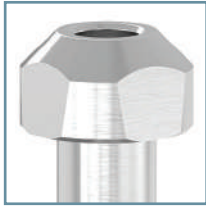
STERILE PACKAGE
VIAL CAP WITH TITANIUM
SUPPORT FOR TAD



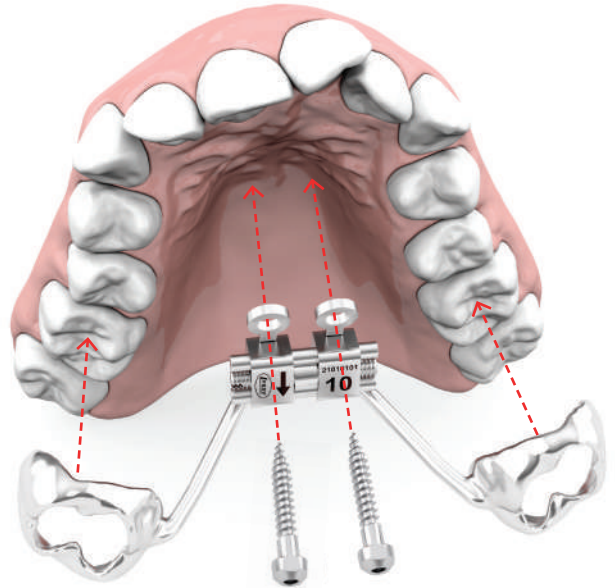
SELF-DRILLING THREAD
ENSURES A SIMPLE SURGICAL PROCEDURE
AND HIGH PRIMARY STABILITY



TAD PA INTEGRAL



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



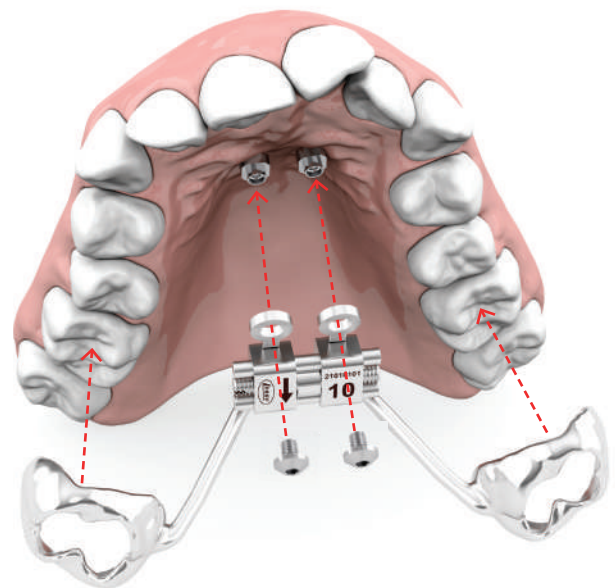
TAD PA BIPHASIC



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




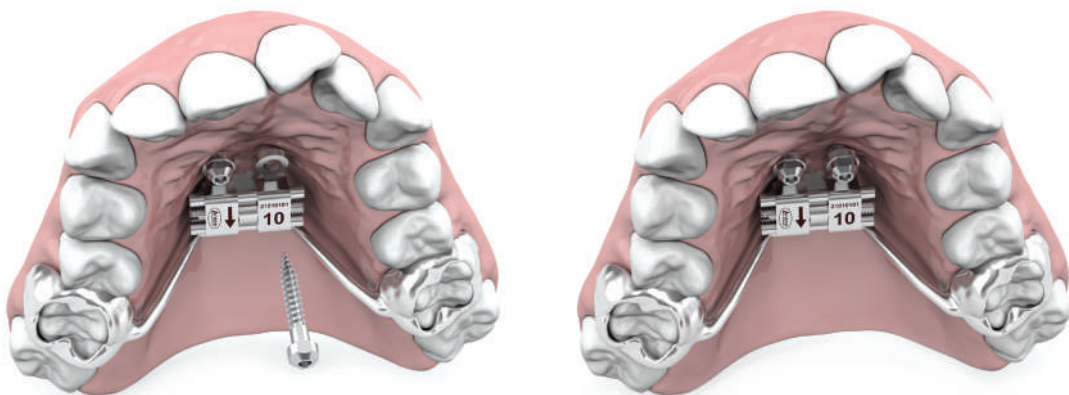
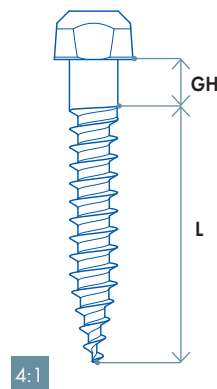
TAD PA INTEGRAL

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



	∅	L		pkg.
	mm	mm		
	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




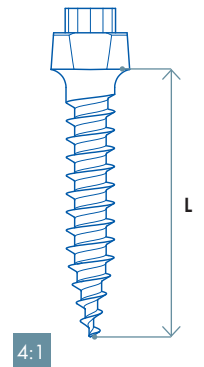
**TAD PA
BIPHASIC**



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

	∅	L		
	mm	mm		pkg.
	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

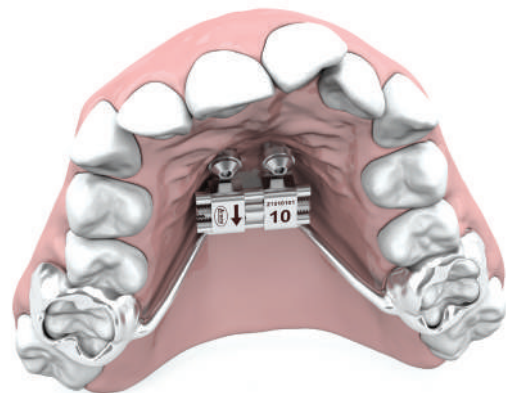
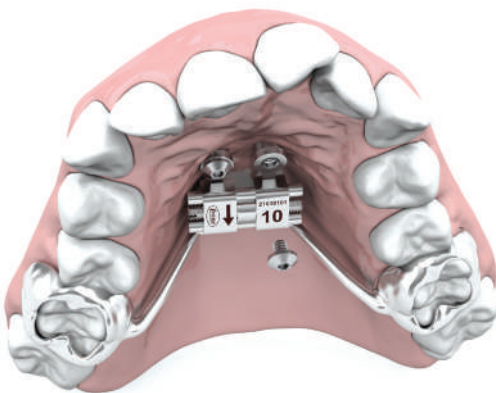
FIXING SCREW



033-3203-20

2:1

**CYLINDER
AND FIXING SCREW**



1:1



Ø
L

Ø	1,1 mm
L	9 mm

**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



1:1

**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



1:1



**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

1:1



**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

1:1



**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

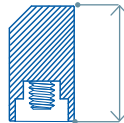


2:1

**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

L 12,5 mm



L 20 mm



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.



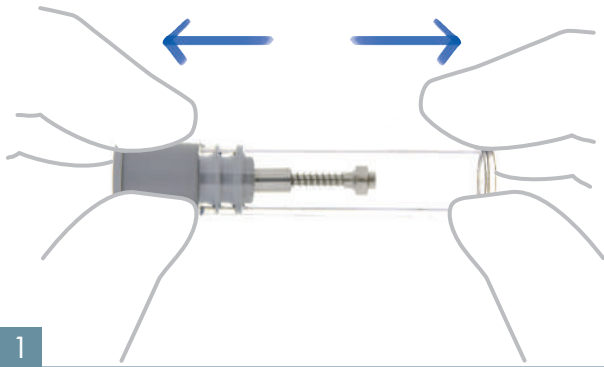
070-0000-00

EMPTY KIT

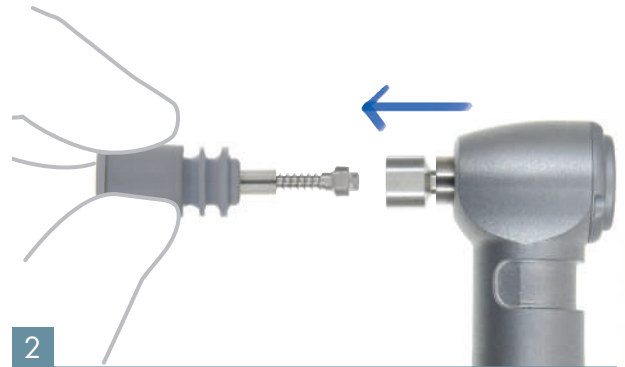


SURGICAL PROCEDURE

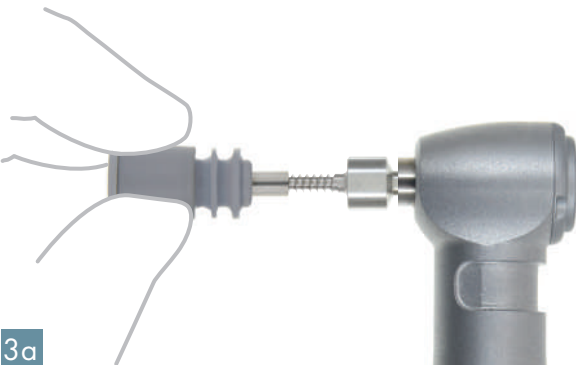
The design of the orthodontic appliance with bone anchorage requires accurate therapy planning by the clinician, who will take all factors that can emerge from a series of preoperative exams into consideration, such as patient history, objective, radiographic and laboratory exams. Once the implant site 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.



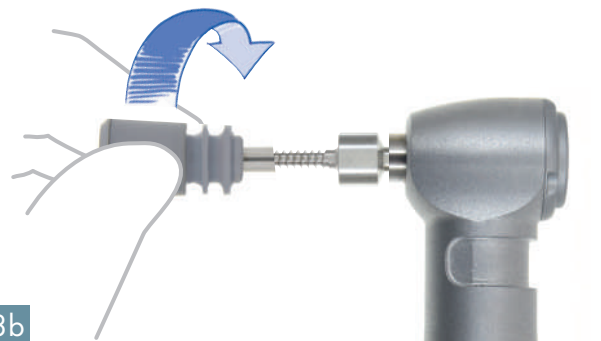
1
Exert a gentle traction on the vial cap, remove the TAD PA from the sterile vial.



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

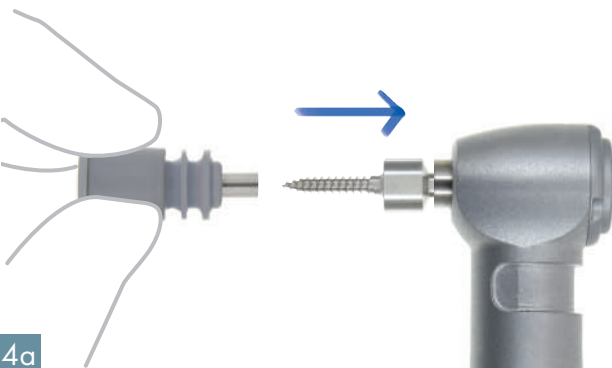


3a

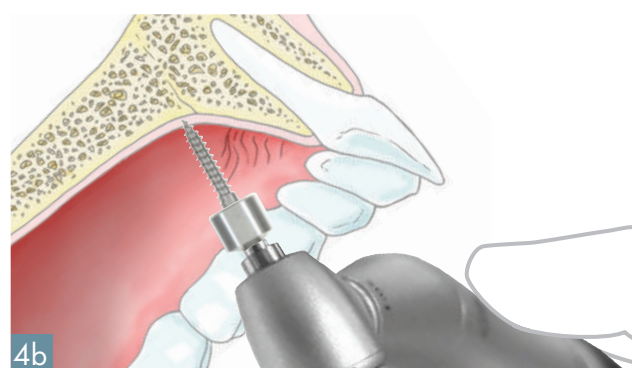


3b

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



4a



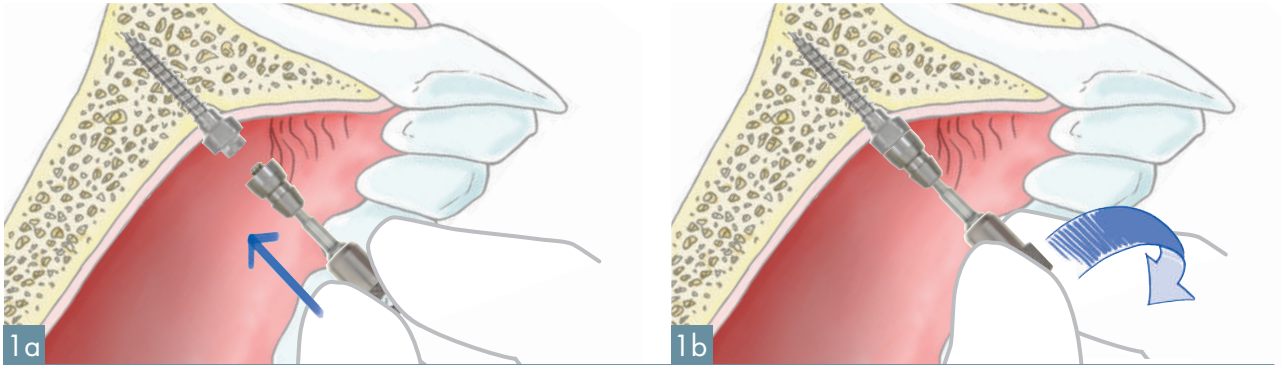
4b

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.



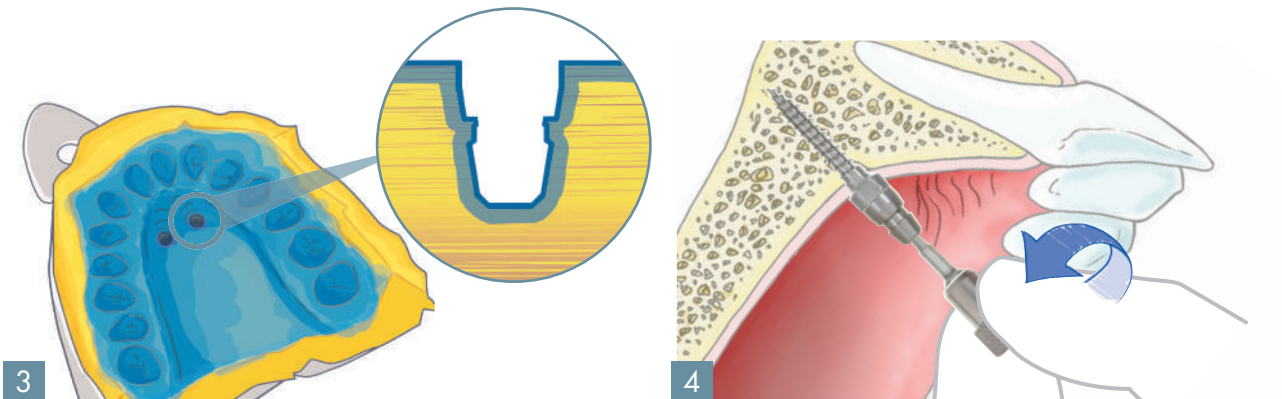
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CONVENTIONAL IMPRESSION TAKING



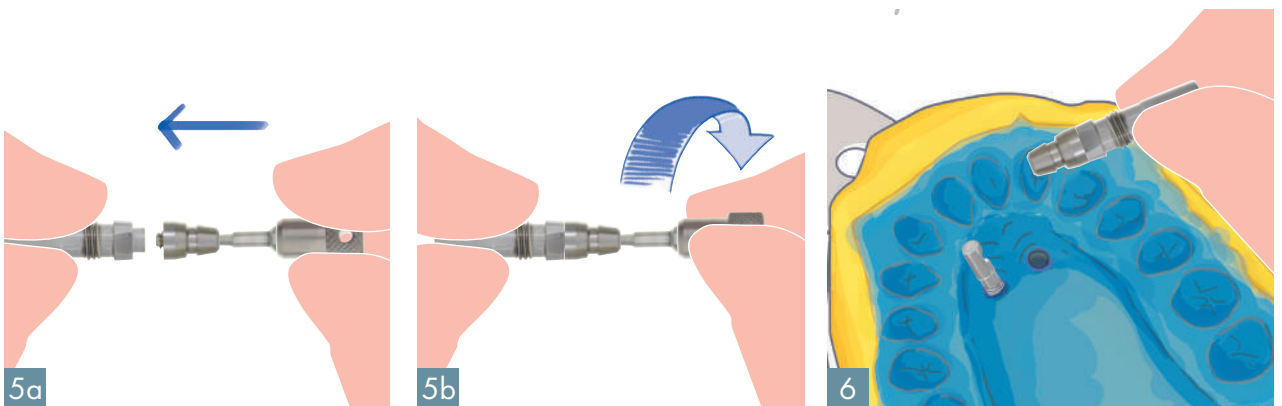
Screw the transfer in the emerging portion of the TAD PA Biphasic using the dedicated screwdriver for fixing screw.

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.

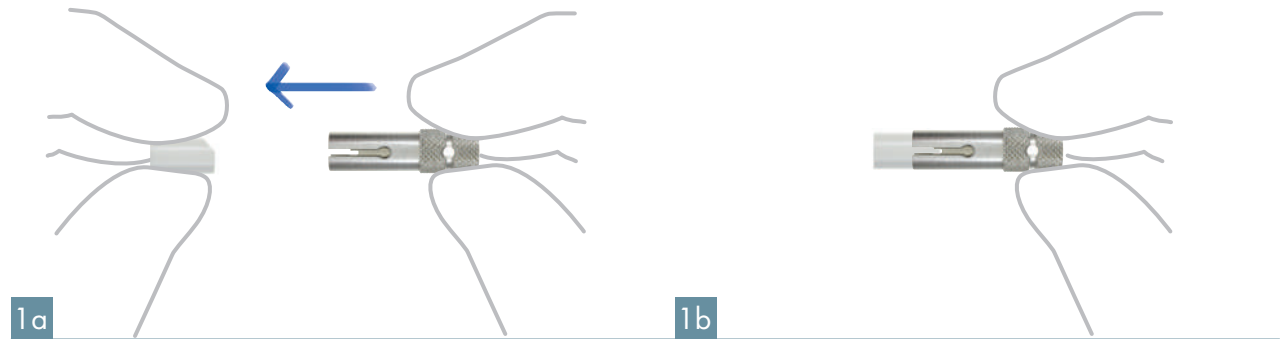
Unscrew the transfer using the screwdriver for fixing screw.



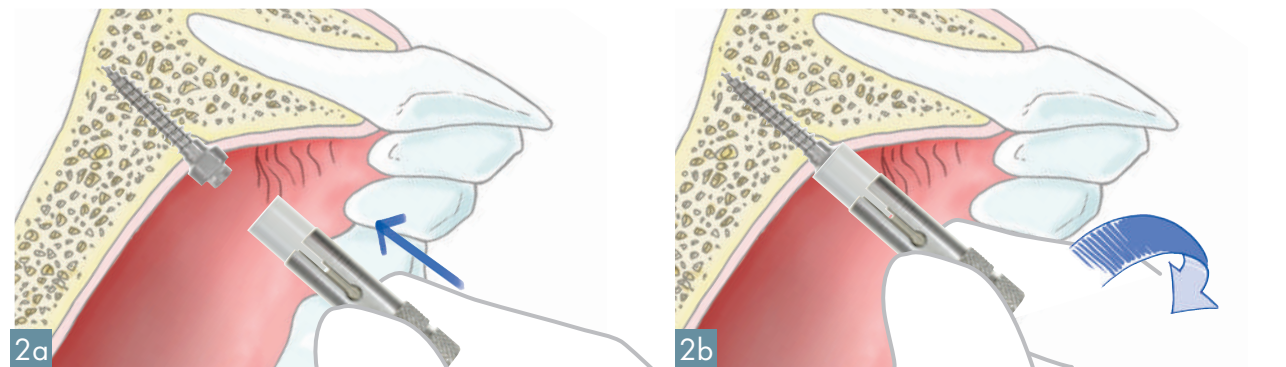
After sterilization, screw the transfer on the analogs for TAD PA Biphasic.

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.

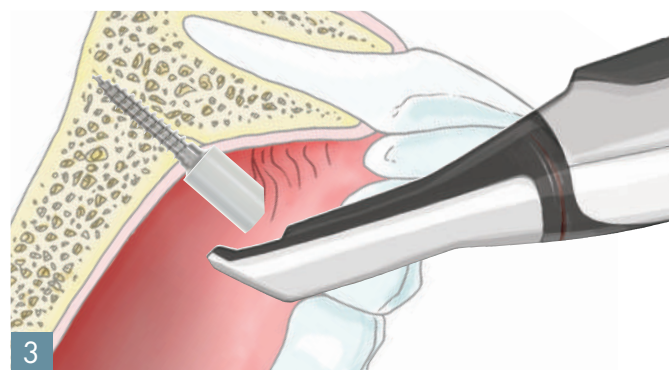
DIGITAL IMPRESSION TAKING



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

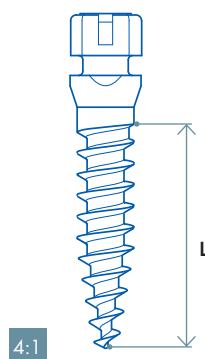


TAD VL WITH DOUBLE SLOT

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	
		8	005-2008-13
	2		
		8	005-2008-14



DUAL CROSS SLOT



NEW

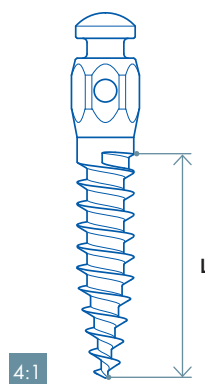


TAD VL WITH BUTTON HEAD

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	
		8	005-2008-11
	2		
		8	005-2008-12



BUTTON AND THROUGH-HOLE



090-1134-00 090-1334-00

1:1



∅	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 creation. 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 double 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

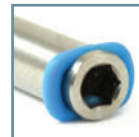


1:2

080-1000-00
SCREWDRIVER
FOR ADAPTERS

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

Pack of 1

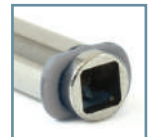


1:1

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

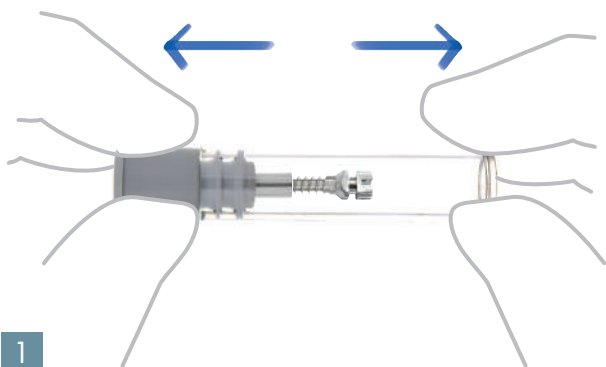
070-0001-00
EMPTY KIT



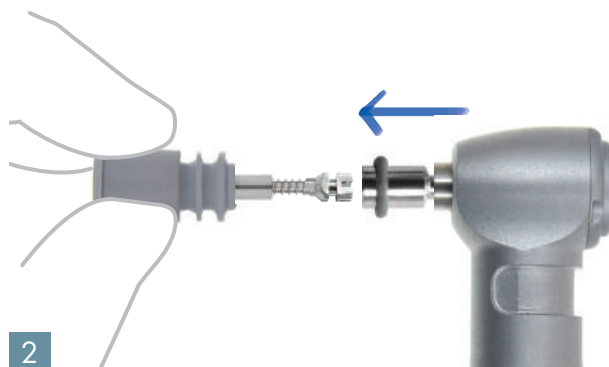
SURGICAL PROCEDURE

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.

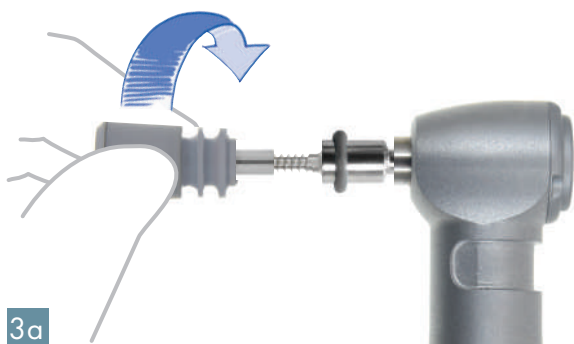
Once the surgical site and the more appropriate TAD VL have been determined, anesthetize the anatomical site. TADs VL are self-drilling, however in case of high bone density or thickness, it is suggested to pre-drill the cortical bone with one of the two drills available for mini implants (REF 090-1134-00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



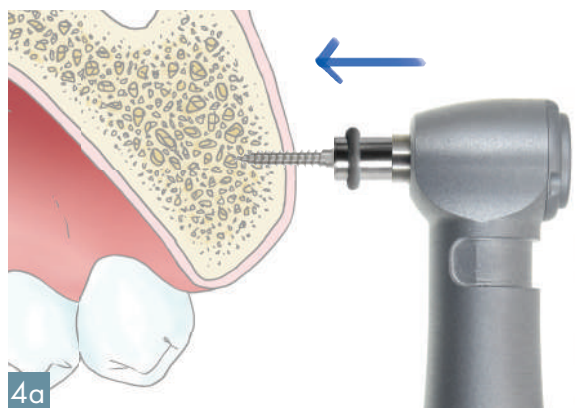
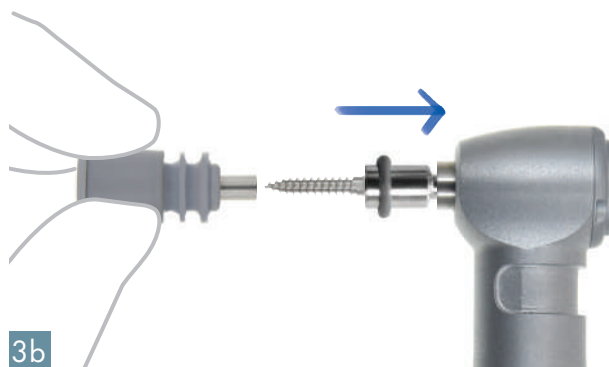
1
Exert a gentle traction on the vial cap, remove the TAD VL from the sterile vial.



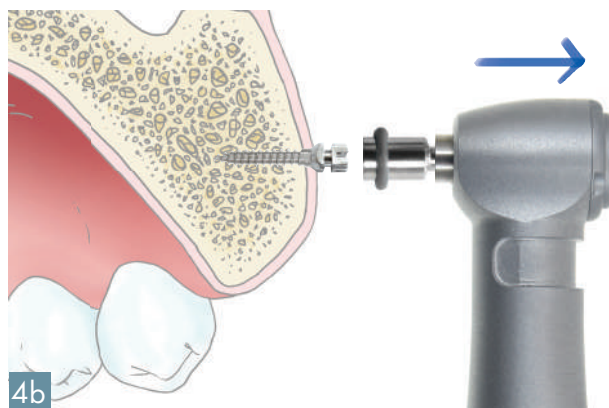
2
Connect the dedicated handpiece adapter to the TAD VL head.



3a
Once positioned the TAD VL into the instrument, remove the implant cap with a gentle counterclockwise rotary movement.



4a
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.

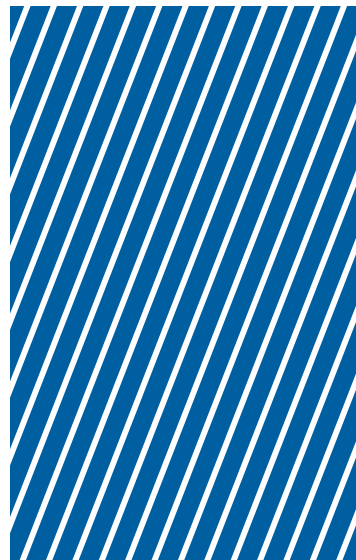


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PLIERS AND INSTRUMENTS



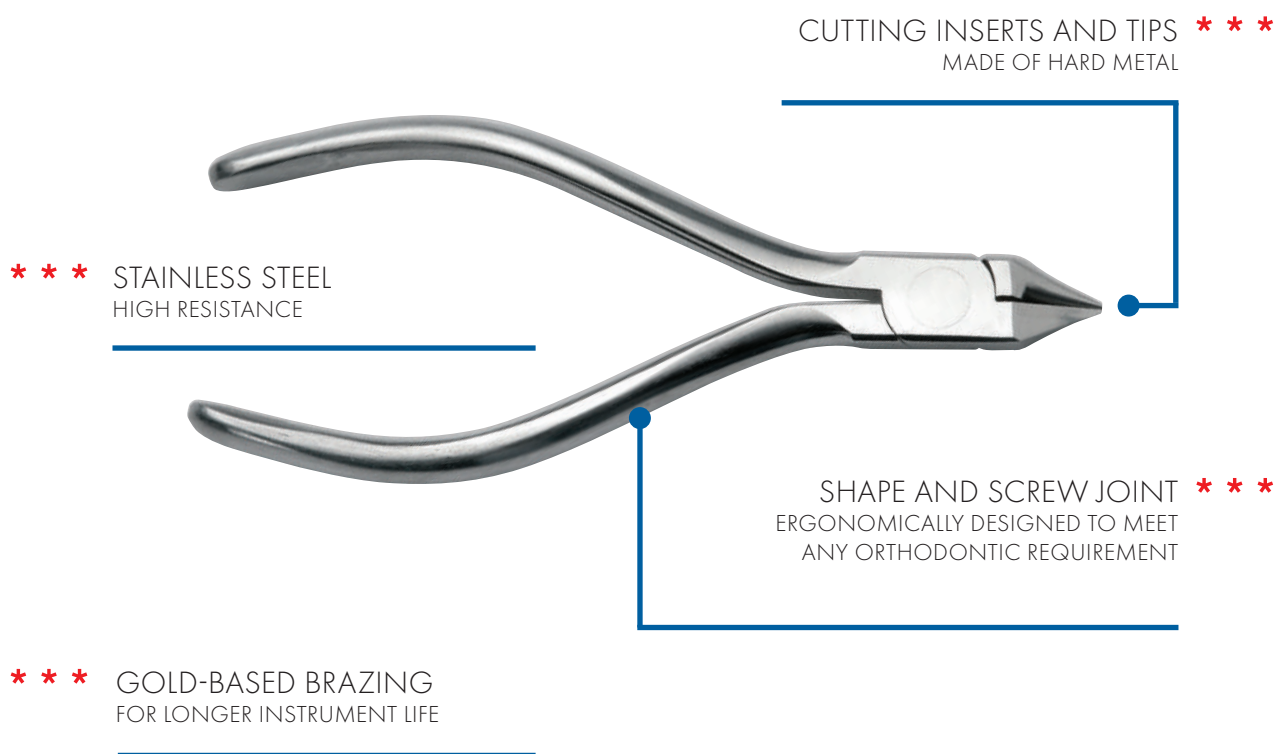
P



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**

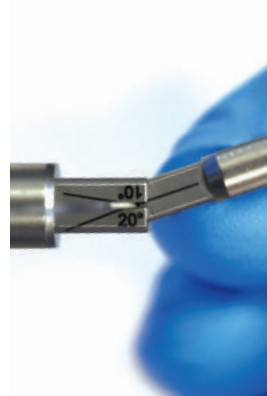
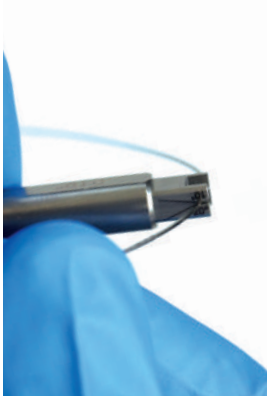
For use with square or rectangular wires. The blades are designed to be parallel at .020" (0,51 mm) pliers opening. Working edges are carefully bevelled with a diamond hone to prevent wire scoring.

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.



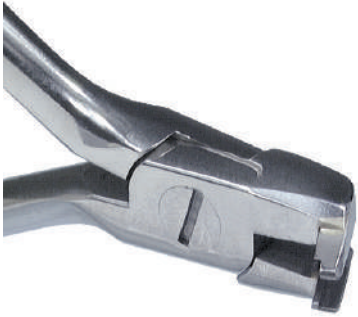
P1912-00 * * *
ARCH FORMING AND CONTOURING PLIERS

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.

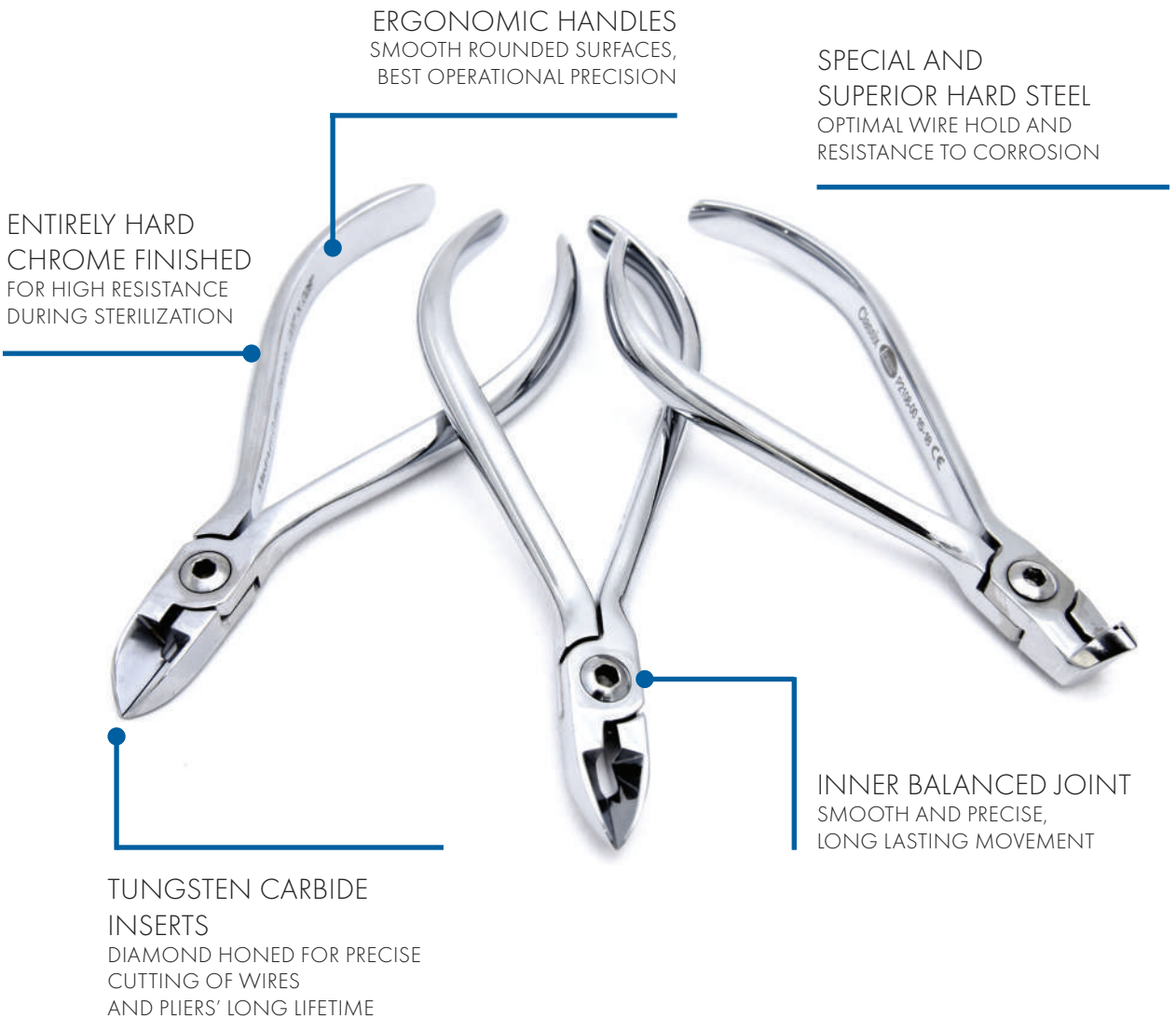
Classix pliers and cutters are manufactured with a special and superior hard steel to afford an optimal wire hold and resistance to corrosion of tips.

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.



P2102-00
OMEGA LOOP FORMING
PLIERS TWEED STYLE

Concave beak is contoured for making more uniform omega loops with ease. The round beak has three sections: .045" (1,14 mm), .060" (1,52 mm), .075" (1,90 mm) and made of a hard electro etched alloy to prevent wire slippage. Tip can be easily replaced with the use of the allen wrench.

P2000-01
REPLACEMENT TIPS
FOR P2102-00

Pack of 2 tips and 1 wrench



P2103-00
THREE-JAW
PLIERS

The central beak is precision aligned and when the pliers is closed, it fits over the level of the two lateral beaks to form bends more acute than 90°.

The tips are slightly tapered and diamond honed to prevent wire scoring. For round wires up to .036" (0,9 mm). It allows the activation of quad helix, palatal bars etc. in the oral cavity as well.



P2104-00
UTILITY PLIERS
WEINGART STYLE

The tips are shaped to firmly hold wires and devices and perfectly angled to enhance the visibility of the operative field. The two beaks are diamond honed to make it lip safe.



P2105-00
BAND REMOVING
PLIERS

When the pliers is closed, the non-padded remover tip does not get in contact with the acetablic resin pad: this allows it to make lever on the tube or the accessory, or on the edge of the band facilitating the safe removal from the mouth.

P2000-02
REPLACEMENT PAD 3/16"
(4,8 MM) FOR P2105-00



P2106-00
D.B. BRACKET
REMOVING PLIERS

The tapered tips wedge between both edges of the base of the bracket and the tooth surface: by slightly lifting off, the bracket is easily removed without any damage to the enamel. Useful also for removal of ceramic brackets.



P2107-00
RECTANGULAR ARCH
FORMING PLIERS
TWEED STYLE

For handling square or rectangular wires, torquing and forming precision bends. The beaks are designed to be parallel at .020" (0,51 mm) pliers opening and diamond honed to prevent wire scoring.



P2108-00
DISTAL END CUTTER
WITH SAFETY HOLD

Designed for cutting the excess of distal wire and holding the loose archwire safely. The special design and the accurate sharpening of the cutting edges make it to be functional with either thin or coaxial wires.

Caution: maximum cutting capacity: round wires .020" (0,51mm) rectangular wires .022"x.028" (0,56x0,71 mm).



P2109-00
HARD WIRE
CUTTER

The hard construction and the quality of sharpening of the cutting edges allow for use with any section of wire for fixed orthodontics. At maximal closure, the sharpening ends only touch at the tip to ensure precise action with any archwire section.

Caution: maximum cutting capacity: round wires .020" (0,51mm) rectangular wires .022"x.028" (0,56x0,71 mm).



P2110-00
LIGATURE
CUTTER

The tips are 15° angled for better field vision near the bracket's tie wings.

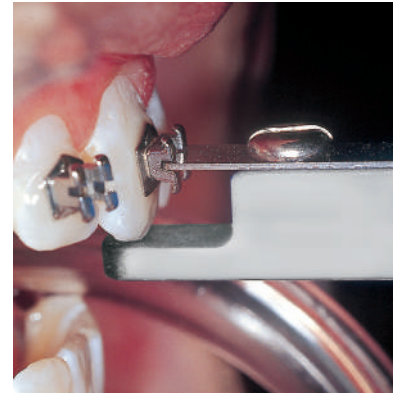
The cutting inserts have wide backing ledges to guarantee the maximum anchorage to the body of the instrument.

Caution: maximum cutting capacity: round wires .015" (0,38 mm)



P1403-00
WRENCH
FOR CLASSIX PLIERS

For pliers joint.

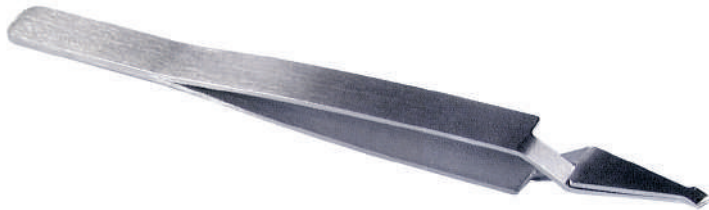


UNIVERSAL BRACKET POSITIONING GAUGES

Made of aluminium and stainless steel. Autoclavable.
Used with either .018" or .022" slot brackets.
Colour coded for immediate identification.

colour		size
green	P1601-00	2 - 2,5 mm
red	P1602-00	3 - 3,5 mm
blue	P1603-00	4 - 4,5 mm
purple	P1604-00	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

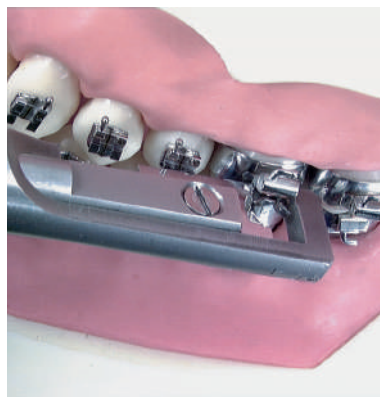
High precision gauge for measuring tensile and compression forces exerted by springs and elastics for a maximum range of 16 oz (0,4536 Kg). It is calibrated with 1 oz. single line and 4 oz double line increments.



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

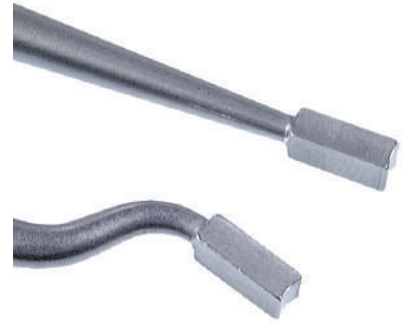




P1001-01
BAND DRIVER OFFSET TIP

* * *

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.



P1002-01
REFILL TIP
FOR P1001-01

P1000-01
BAND DRIVER STRAIGHT TIP

* * *

Exactly the same as P1001-01 but with straight tip.

P1003-01
REFILL TIP
FOR P1000-01



P1077-00
MERSHON BAND ADAPTER



P1092-00
BAND
ADAPTER

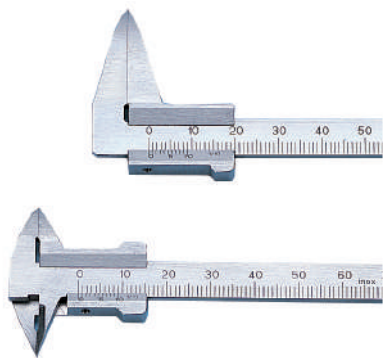
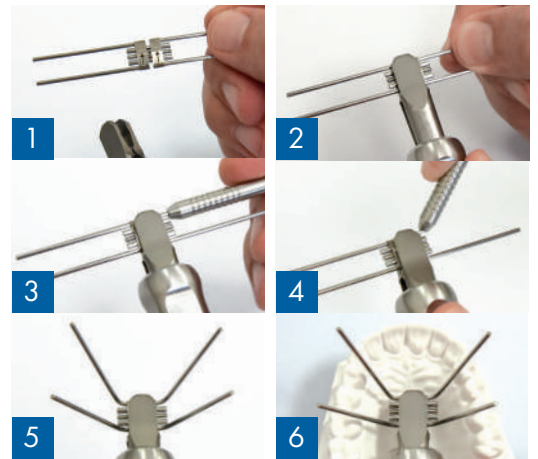
Simple, user-friendly and practical.
It allows the band to be adapted to tooth anatomy, without nicking or damaging it.



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.

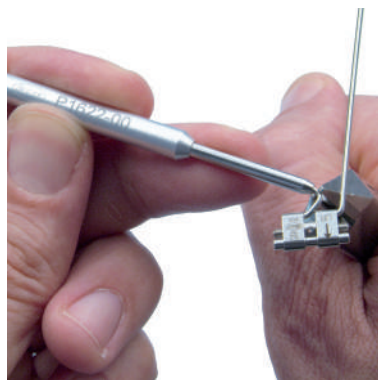
for expanders		
	P0620-00	A0620-08/09/11/13/15 A2620-07/10/12
	P0630-00	A0631-08/10/12
	P0621-00	A0621-08/11 A1621-08/11/13
	P0625-09	A0625-09
	P0625-07	A0625-07



DENTAL VERNIERS

P1078-15 Long tips

P1560-15 Double tips
Specific for inner and outer measurement



P1622-00
ARM BENDING INSTRUMENT FOR FAST BACK

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



P1620-02
ARM BENDING INSTRUMENT FOR EXPANDERS

Ideal to bend the expander's arms with ease and precision. Also for expanders with long arms.

*PATENTED



**TURRET
FOR FORMING RECTANGULAR
OR ROUND ARCHWIRES**

For forming arch wires with or without torque adjustment.
Available in six different versions and colour codes.
The wire slotted body is made of stainless steel.



**P1167-00
TURRET
BLUE CODE**

For forming rectangular arch wires
.016" up to .0215".



**P1266-00
TURRET
BLACK CODE**

For forming rectangular arch wires with
torque adjustments: 0° - 10° - 16° - 23°.
For use only with wire: .016"x.022".



**P1168-00
TURRET
GOLD CODE**

For forming rectangular arch wires with
torque adjustments: 0° - 7° - 10° - 13° - 16°.
For use only with wire: .018".



**P1267-00
TURRET
PURPLE CODE**

For forming rectangular arch wires with
torque adjustments: 0° - 10° - 16° - 23°.
For use only with wire: .016"x.016".



**P1170-00
TURRET
SILVER CODE**

For forming rectangular arch wires with
torque adjustments: 0° - 7° - 10° - 13° - 16°.
For use only with wire: .022".



**P1169-00
TURRET
GREEN CODE**

For forming round arch wires:
.014" - .016" - .018" - .020".

**P1139-00
LIGATURE TUCKER**

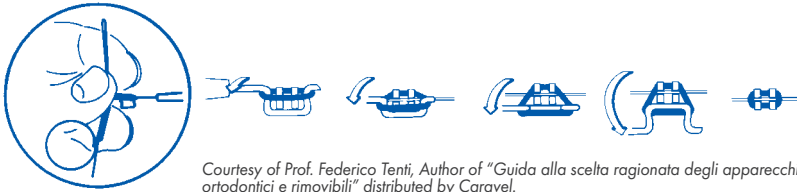
Double ended for placement or removal of elastics. Necessary for tucking metal ligatures.

**P1500-00
ELASTIC LIGATURE
THREADER**

It facilitates placement of elastic ligatures under bracket tie wings.

**P1576-00
LIGATURE AND ARCHWIRE
TUCKER**

Useful for insertion of the arch wire into bracket slot. It is also used to tuck metal ligatures and to apply elastic chains.



P1505-01 * * *
**TWISTER FOR PREFORMED
LIGATURE TIES K4430-25
AND K4480-30**

Fully made of stainless steel. Push the back button to insert the preformed ligature tie. It makes position and final legation easy.



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

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



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

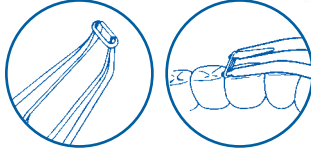
Made of two components, it is useful to customize and adapt the attachments for TADs palatal expanders to every anatomical and treatment need. Both components are made of stainless steel and laser marked.



**LIGATURE TYING PLIER
MATHIEU STYLE**

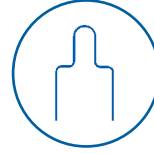
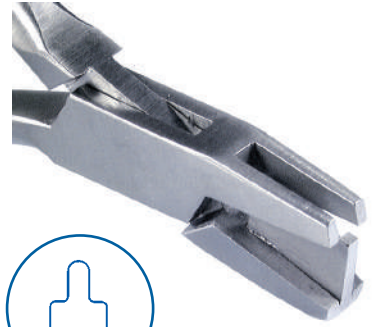
P1160-00 Tips of 2,5 mm

P1161-00 Tips of 1,5 mm



**P1141-00
SEPARATOR PLACING
PLIERS**

For use with radio opaque separators
K6378-03.



**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

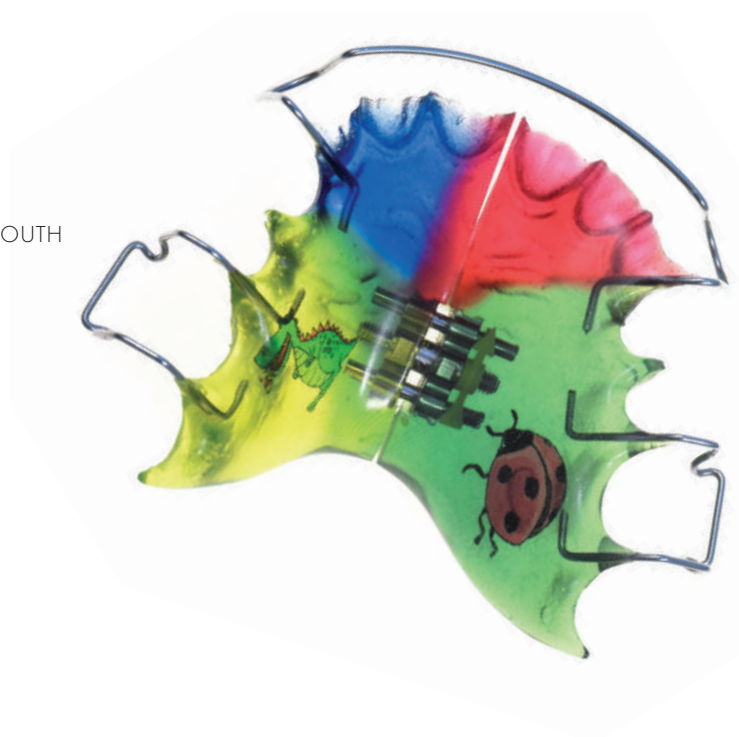


R



Our **LEOCRYL® Arcobaleno** range of products is composed of an outbreak of colours to be mixed each other, fluorescent additive and glitters, accessories and a series of coloured motifs to be inserted in the appliance which will make the little patients more motivated.

- **LOW RESIDUAL OF FREE MONOMER**
TO GET BUBBLE FREE POLYMERIZED ACRYLIC PLATES
- **EASY MIXING**
DIVERSIFIED PARTICLE SIZE OF THE POWDER
- **PROLONGED PROCESSING TIME**
ACCURATE FIT OF THE PROSTHESIS INTO THE MOUTH
- **VERY LOW SHRINKAGE**
OF THE TWO COMPONENTS
ACCURATE FIT OF THE PROSTHESIS
INTO THE MOUTH
- **EXTREMELY HIGH PRECISIO**
EXCELLENT FRICTION OF THE EXPANSION
SCREWS IS GUARANTEED
- **SPECIAL HARDNESS**
FOR EASY POLISHED SURFACES





LEOCRIL® 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

LEOCRIL® ARCOBALENO - LIQUID



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



LEOCRIL® 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



LEOCRIL® POWDER POLYMER

Clear colour.

- R6032-00**
Pack of 1 Kg
- R6042-00**
Pack of 10 Kg



R6000-00 LEOCRIL® ARCOBALENO COLOUR GUIDE

Colours illustrated are only indicative. Colours may slightly change compared to those obtained with **LEOCRIL®** 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



R4401-01



R4401-02



R4401-03



R4401-04



R4401-05



R4401-06



R4401-07



R4401-08



R4401-09



R4401-10



R4401-11



R4401-12



R4401-13



R4401-14



R4401-15



R4401-16



R4401-17



R4401-18



R4401-19



R4401-20



R4401-21



R4401-22



R4401-23



R4401-24



R4401-25



R4401-26



R4401-27



R4401-28



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/cm²) are obtained.
Easy to polish with R4520-00.
Ideal for making study models and plaster casts for collection.

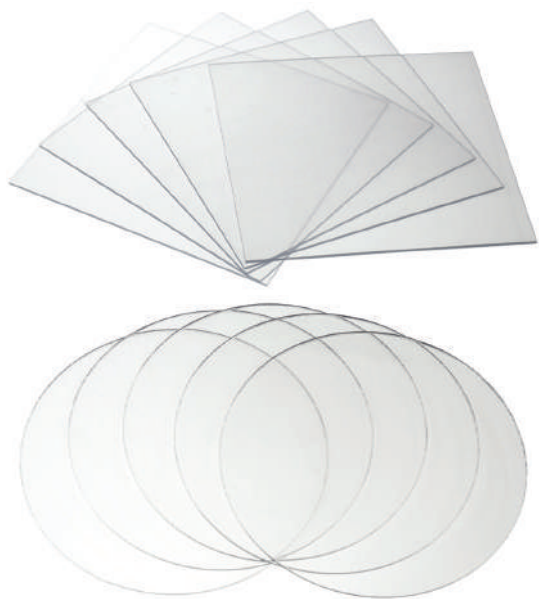


**GLOSS
FOR PLASTER MODELS**

R4520-00
Pack of 0,5 L

 **R4530-00**
Pack of 5 L

It is necessary to use a good ortho plaster but also a good final model gloss to obtain a well-made study model. This model gloss provides polish surfaces with fine details and protects them over the time.



BIOCOMPATIBLE THERMOFORMING MATERIAL

Discs and square plates made out of PET-G (Polyethylene Terephthalate modified with Glycol), a thermoforming material ideal to manufacture dental aligners and post-treatment aesthetic retainers. The material conforms to ISO 10993-1, and once formed, it features excellent optical transparency, with highly efficient biomechanical properties.



○ THERMOFORMABLE DISCS Ø 120 mm

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



○ THERMOFORMABLE DISCS Ø 125 mm

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

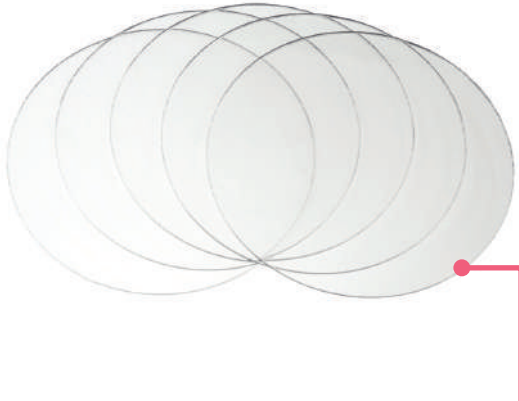


□ THERMOFORMABLE PLATES 125 x 125 mm

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



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
R7111-02	2 mm	10 pcs
R7111-03	3 mm	10 pcs

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

□ HARD/SOFT PLATES 125x125 mm		
	thickness	package
R7123-02	2 mm	10 pcs
R7123-03	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.**



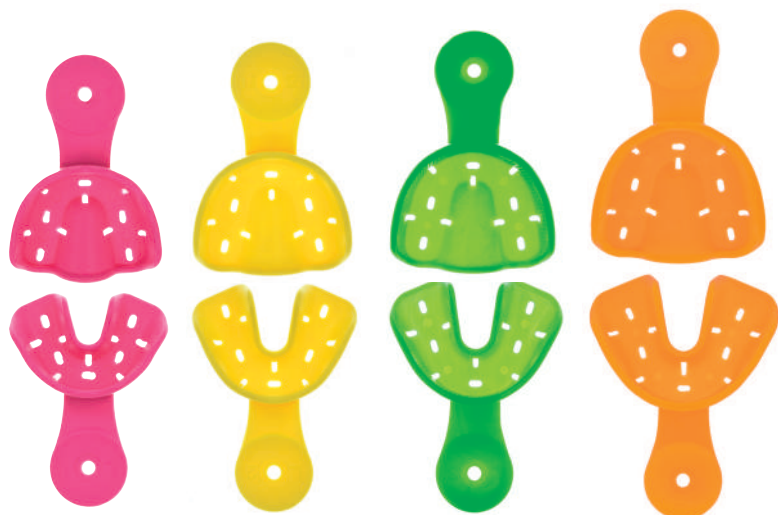
**R0226-00
FLUX**

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**



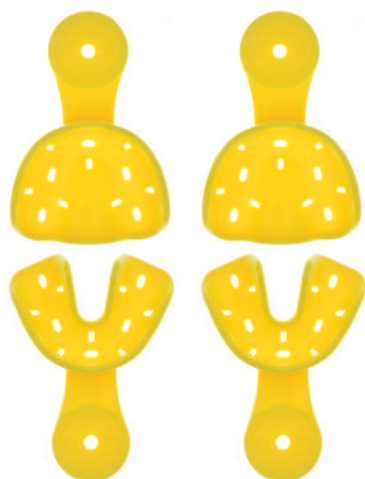
R2300-95
IMPRESSION TRAYS
KIT

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.



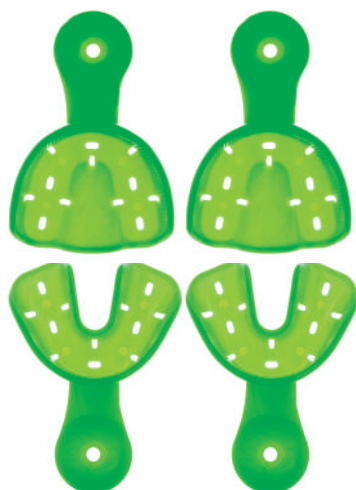
R2300-01
IMPRESSION TRAY
PINK - SIZE 1

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



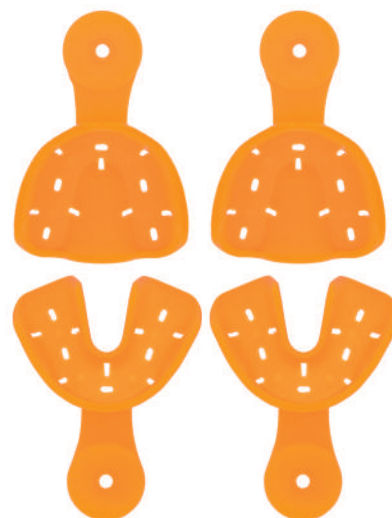
R2300-02
IMPRESSION TRAY
YELLOW - SIZE 2

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



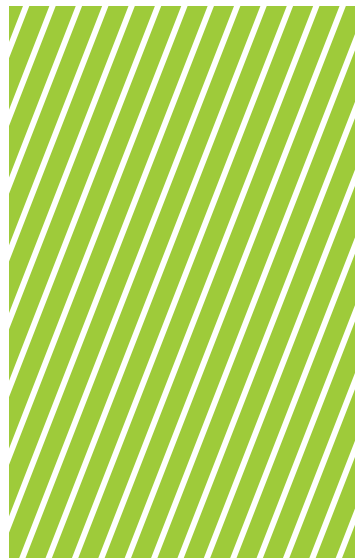
R2300-04
IMPRESSION TRAY
ORANGE - SIZE 4

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



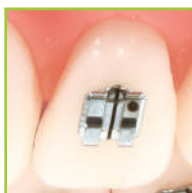
DEMONSTRATION MODELS FOR FIXED ORTHODONTICS

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.

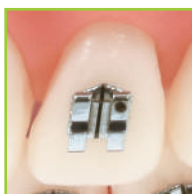
Pack of 1



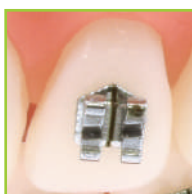
T3472-00
DEMONSTRATION MODEL - MINI DIAGONALI®



T3442-00
DEMONSTRATION MODEL - MIDI DIAGONALI



T3461-00
DEMONSTRATION MODEL - STEP SYSTEM 2.0





T3457-00
DEMONSTRATION MODEL - AQUA SL



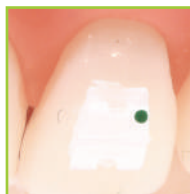
T3411-00
DEMONSTRATION MODEL - INTERACTIVE SL



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

T2300-00	Hydroflask lid
T2301-00	Rubber seal for lid
T2302-00	Air valve
T2303-00	Thermometer for T1315-00
T2304-00	Pressure gauge



T1311-00 PRESS FOR HYDROFLASK

Convenient press for hydroflasks T1310-00 and T1315-00, made of pressure cast aluminium. Extremely easy to use.

TRAYS FOR MODEL BASES

T3360-00	Blue
T3361-00	Red

Two drawers for storing six model bases each box.

Outer sizes: 250 x 200 x 80 mm.

Pack of 16 boxes

TRAYS FOR STUDY MODELS

T3350-00	Blue
T3351-00	Red

Two drawers for storing eight models each box.

Outer sizes: 285 x 190 x 55 mm.

Pack of 24 boxes





T3603-00
ACETATE SHEETS FOR
CEPHALOMETRIC TRACING

Sheets with double matt and polish surface. Sizes: 203 x 254 mm.
Pack of 100 sheets



T3608-00
MARKING
PENCIL WHITE

For marking arch wires, bite planes, etc.
Pack of 1



T3612-01
CEPHALOMETRIC
PROTRACTOR

The angular measurement is facilitated by the ruler; the cut-out tooth symbols of incisors, molars and circular holes assist in the anatomical tracing over the x-ray film.
Pack of 1



T1565-00
SAW



BLADES FOR SAW
T1565-00

T1566-00 12 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



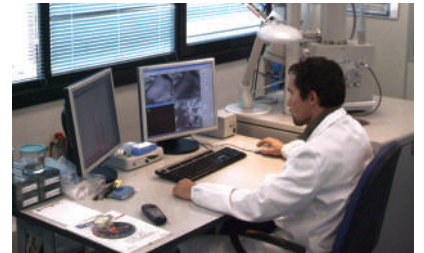
T1203-00
PLIER RACK



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 and fill in the registration form.



Heavy duty cutter	200-202	P	Screwdrivers for TADs	181-182-190					
Hooks for elastics	154		Self-ligating brackets	95..97-129-130					
Hydroflasks	228		Separators, radiopaque	160					
I	Impression trays	222	Silicon mounted polishers	217					
	Instrument adapter	180-189-190	Sleeves for face masks, facebows	171-173					
	Instrument for endoral activation	35-197	Software - 3DLeone Designer	46					
	Instruments for TADs	180..182-189..191	Solder powder	221					
	Insulator liquid for resin	217	Solders	221					
	J	Jigs for lingual brackets	139	Special porpouse expansion screws	14..17				
		K	Keys for expansion screws with safety ring leash	35	Standard expansion screws	11..13			
L			Labial arches	74	Step system 2.0	118..125			
			Leaf Expander®	28-29	Straight wire, round and rect.	61			
			Leocryl® - orthodontic acrylic	215	Super micro sectional screw	13			
			Ligature and archwire tucker	211	Surgical hooks, MIM®	154			
			Ligature cutter	200-205	Swivel key with activation counter	31			
			Ligature cutter, distal	199-200-205	T	TADs	175..192		
			Ligature cutter, offset	200		TADs PA	176..186		
			Ligature low friction - Slide	156-158		TADs VL	187..192		
	Ligature tucker	211-212	Teeth for Typodont	227					
	Lingual cleats	154	Thermo insulator paste	221					
Lingual seating lugs	154	Three-directional	15						
Lip bumpers	168	Tie-back	120-160						
Lip retractor	212	Tooth Borne	40..45						
M	M.A.D. Mandib. Advancer Device Leone	48..55	Torquing instrument for wire	197					
	Marking pencil	229	Trays for bands and brackets	88					
	Micro expanders	22-23	Trays for model base formers and study models	228					
	Micro expansion screws	12-13	Tube MIM® for activators extraoral facebows	35-149					
	Micro sectional screws	13	Tubes MIM®, convertible	150-151					
	Micro spring expansion screws	32	Tubes, weldable	153					
	Micro spring screws	32	Turrets	210					
	Model bases	226-227	Twin Arch tubes	153					
	Modelbox	227	Twist wire	63					
	Modelling spatula, Le Cron style	207	Twister	211					
Mosquito forceps	212	U	Utility instrument	207					
Motifs for plates	216		V	Veltri screws	30				
Mucotome for TADs VL	189			Vertical model occluder	226				
Multifunctional	30			W	Wax bases for Typodont	227			
N	Neck pad for safety modules				173	Waxes	220-221		
	O				One-tooth screws	32	Weldable accessories	153-154	
					P	Palatal bars	73	Weldable lingual buttons	154
						Palatal expanders for TADs	26-27	Weldable round tubings	153
						Phosphorescent additive	216	Weldable tubes	73-149
						Plaster	217	Wire Beta Memoria®	69
		Plastic model bases				226	Wire for retainer	144	
Plate holders		56	Wire Memoria®			70			
Plier racks			Wrench for Classix pliers			205			
Pliers:		230							
and removers		201-204							
Adams clasp forming Nance style	202								
Adams style	202								
Aderer, three jaws	197								
arch forming and contouring	198								
Bird beak - Angle style	195								
D.B. bracket removing	201-205								
D.B. bracket tweezers	206								
Hollow chop	196								
How, straight and offset	198								
ligature tying-Mathieu style	212								
ligature wire forming	212								
light wire bending	196								
loop forming - Tweed style	195								
Nance style, loop closing	196								
optical - Merrifield style	195								
optical style	196								
separators placing plier	212								
surgical hook and stop crimping	200								
three jaw	202-204								
Tweed, flat-tapered	195								
Tweed, omega loop forming	204								
Tweed, rect. arch forming	197								
Young style	195								
universal purpose	202								
utility - Weingart style	198								
POP® screws	6..10								
POP® screws, micro sectional	9..10								
Positioning gauges for brackets and instruments	206								
Positioning screws	32								
Preformed ligature ties	163								
Preformed ligature wires	163								
Press for hydroflasks	228								
Prewelding service	89								
Primers	142-143								
Protective elastomeric tubing	162								
Protective tab for Haas-style palatal expander	19								
R	Rapid expanders	18..32							
	Reamer	35							
	Replacement pad for pliers	201-204							
	Replacement tips for pliers	195-204							
	Safety modules	174							
S	Screwdriver	35-207							

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 ²	=	145,14 p.s.i.
1 p.s.i.	=	0,00689 N/mm ²

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

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

REGISTERED TRADEMARKS



Leone America





































BIOSTEEL®
CALIBRA®
LEOCRYL®
LEOLOY®
LEOWIRE®
MEMORIA®

MIM®
MINI DIAGONALI®
NATURA®
POP®
THERMOMEMORIA®
ALTEO®



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
date	 (*)	model number	 (*)	
orthodontics	 (*)	implantology	 (*)	 (01) 08033707080893 (10) 21012701 (91) 216C000001 (240) 002-1708-01 (17) 260127

* Unless otherwise indicated, the LOT number explains the date of manufacture with the key YYMMDDNN (YY year, MM month, DD day, NN Leone progressive internal number of the lot). For example 19021502 indicates the lot no. 02 of February 15, 2019



**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

www.leone.it/info-general-prodotti
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.

All rights reserved. No part of this catalogue may be reproduced in any form. Due to continuing product improvements, Leone s.p.a. reserves the right to discontinue products or change the design and materials of products without notice. All Leone products are designed and manufactured for single use and once removed from the patient's mouth, must be disposed of properly. Leone s.p.a. disclaims any liability for the spread of disease or personal injury caused by reuse.

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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