



PROUDLY  
MADE IN ITALY

**M.A.A.D.**

MANDIBULAR  
ADVANCER  
DEVICE  
SERIES

***Leone***<sup>®</sup>*America*

# SWEET DREAMS

## IDEAL DEVICES IN PATIENTS WHO ARE RONCOPATIC OR HAVE MILD-MODERATE OSA SYNDROME

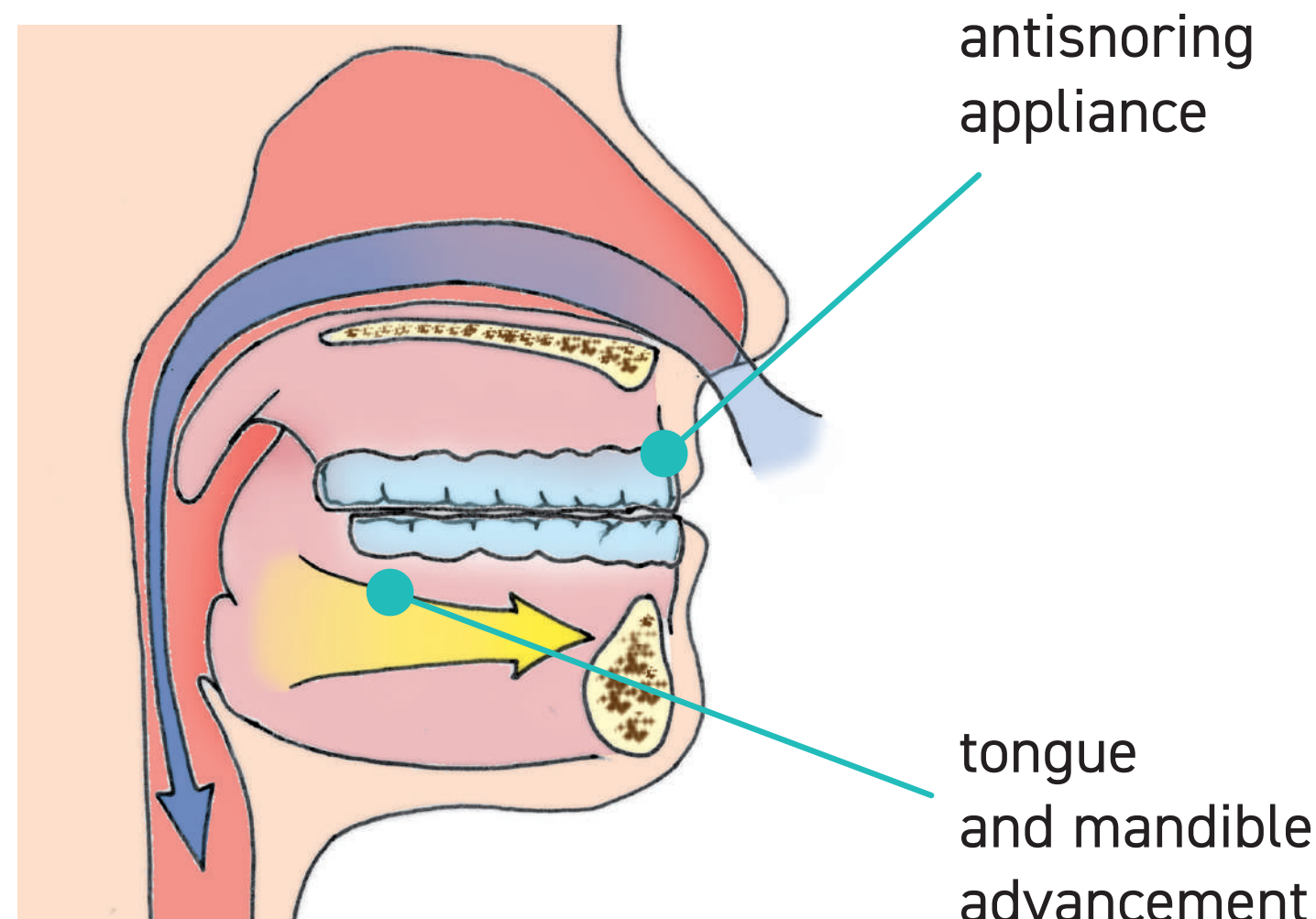
These intraoral nighttime appliances can treat snoring acting directly on the mechanism which is the main cause of it, pushing the lower jaw in a forward position.

Mandibular repositioning pushes forward also the tongue and the epiglottis, spacing them from the uvula, thus to solve soft tissues vibration during the airflow, that is what produce the snore sound.

MAD appliances can be used for the treatment of sleep apnea (OSA) since they can solve the rear airways obstruction by restoring breathing capacity during sleeping time. The American Academy of Dental Sleep Medicine claims that the most efficient appliances are bi-maxillary type, custom-made by a dental lab and, furthermore, they must allow an additional advancement over the construction bite position, about 4-5 mm.

There are all over the world, many different type of MAD appliances to treat snoring syndrome and sleep apnea: we have decided to accomplish, and improve, the elements for the realization of the most widely used appliances according even with the clinical and scientific proven efficiency.

This is our proposal based on the requirements of any clinical specialist: **appliance efficiency, high safety standards and stability and comfort for the patient.**



# M.A.D. SERIES LEONE

Antisnoring bimaxillary Dorsal type appliances



**FORWARD!**\*



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

Telescopic advancer plugs and tube appliances



**TELESCOPIC  
ADVANCER\***



# FORWARD!

## ANTISNORING KIT

**A5300-07** 1 appliance in box

**A5300-17** 10 appliances in bag

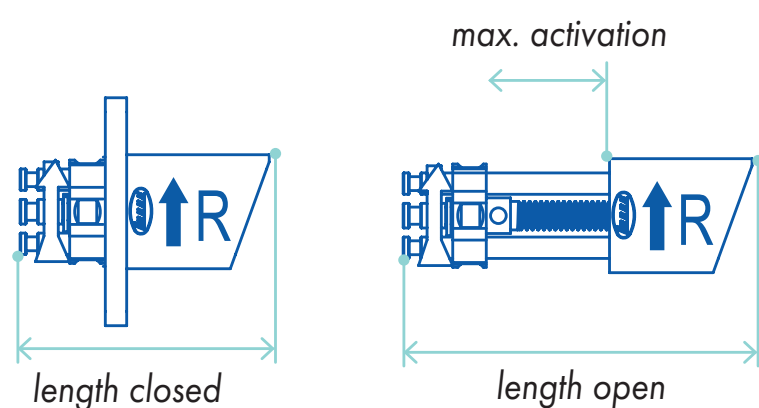
The first hardware kit specifically engineered for the antisnoring bimaxillary dorsal type appliance.



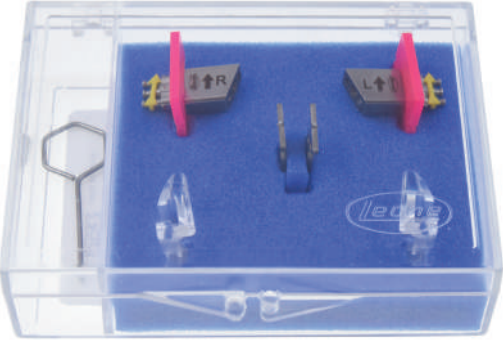
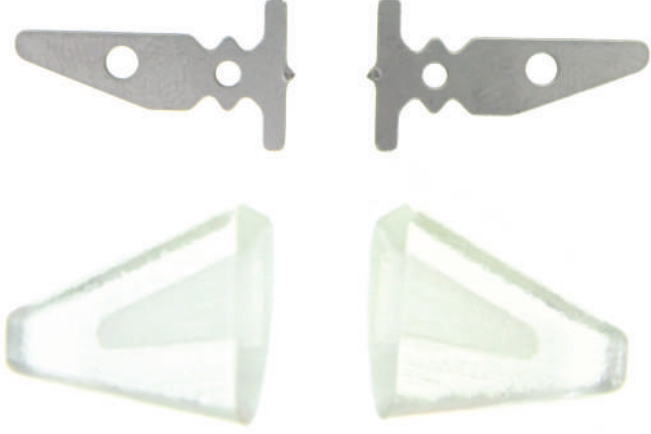
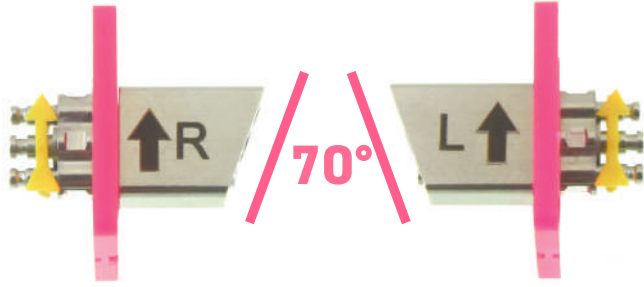
This time-saving Kit includes all the necessary components for an easier and more precise construction of the appliance.

The kit for the assembly of 1 appliance is composed of:

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

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



FORWARD! * ANTISNORING KIT	CODE	length closed	length open		
				max. activation	4 activations
	<b>A5300-07</b>	18 mm	25 mm	7mm	0,4 mm
REFILLS FOR FORWARD! ANTISNORING KIT					
Lower wings with inner steel frame 	<b>A5301-00</b>	Pack of: - 1 left lower wing with steel frame - 1 right lower wing with steel frame			
Screw 70° angulated body 	<b>A5302-00</b>	Pack of: - 1 upper right screw - 1 upper left screw			

# FORWARD! MAX RETENTION

## ANTISNORING KIT

NEW

**A5310-07** 1 appliance in box

**A5310-17** 10 appliances in bag

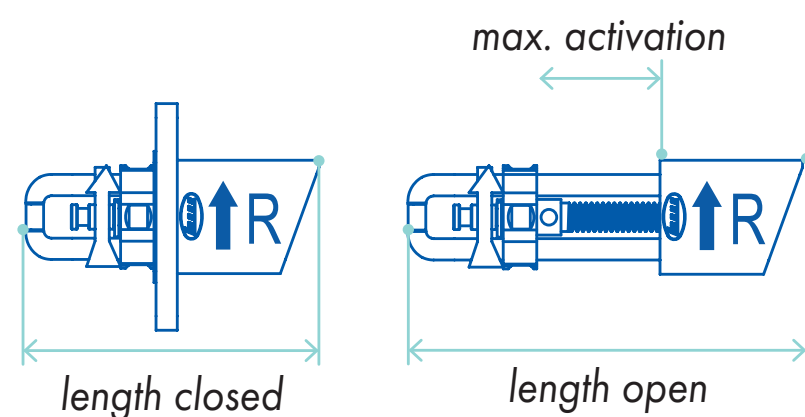
This kit is specially engineered for the realization of an antisnoring bimaxillary Dorsal type appliance and this version is featured by a higher retention capacity of the upper screws in the acrylic splint thanks to the distal "U" bent guide.



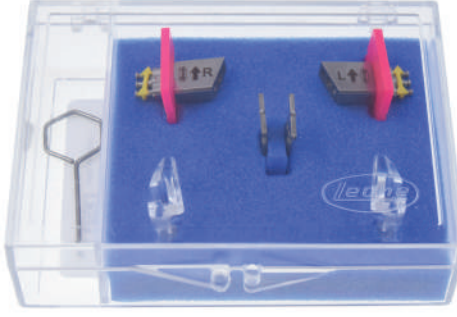
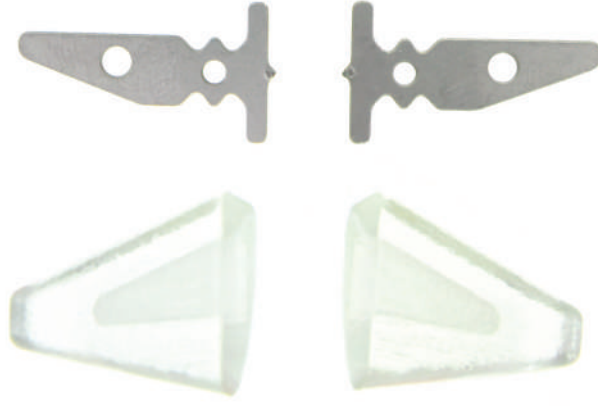
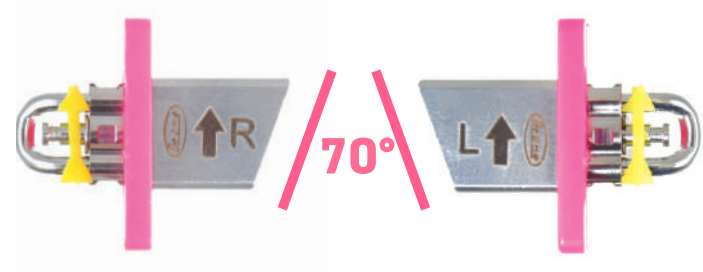
It contains all the necessary components for a fast and precise construction of the appliance.

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

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

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



FORWARD! ANTISNORING KIT	CODE	length closed	length open		
				max. activation	4 activations
	<b>A5310-07</b>	20 mm	27 mm	7 mm	0,4 mm
REFILLS FOR FORWARD! MAX RETENTION					
Lower wings with inner steel frame 	<b>A5301-00</b>	Pack of: - 1 left lower wing with steel frame - 1 right lower wing with steel frame			
Max Retention 70° angulated screw and "U" bent guide 	<b>A5312-00</b>	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 inclined at 70°**, while the back portion has extensive retention capacity for the acrylic to avoid breakage. 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 errors. Each directional activation generates 0.1 mm advancement.



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



# TELESCOPIC ADVANCER

## ANTISNORING KIT

**A5100-07** 1 **MEDIUM** appliance

**A5200-07** 1 **LONG** appliance

**A5100-17** 10 **MEDIUM** appliances

**A5200-17** 10 **LONG** appliances

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

1 kit for the assembly of 1 appliance is composed 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.



	CODE	length closed	length open	stroke max.	max.activation	4 activations
	<b>A5100-07 MEDIUM</b>	26 mm	43 mm	10 mm	7mm	0,4 mm
	<b>A5200-07 LONG</b>	31 mm	53 mm	15 mm	7mm	0,4 mm

REFILLS FOR TELESCOPIC ADVANCER KIT			
Housing screws and wrench for activation		<b>A5101-00</b>	<b>Pack content:</b> - 4 housing screws - 1 wrench for activation
Housings with screws and wrench for activation		<b>A5101-01</b>	<b>Pack content:</b> - 4 housings for acrylic - 4 housing screws - 1 wrench for activation
MEDIUM Telescopic Arms		<b>A5101-02</b>	<b>Pack content:</b> - 1 Telescopic Arm MEDIUM right - 1 Telescopic Arm MEDIUM left
LONG Telescopic Arms		<b>A5201-00</b>	<b>Pack content:</b> - 1 Telescopic Arm LONG right - 1 Telescopic Arm LONG left

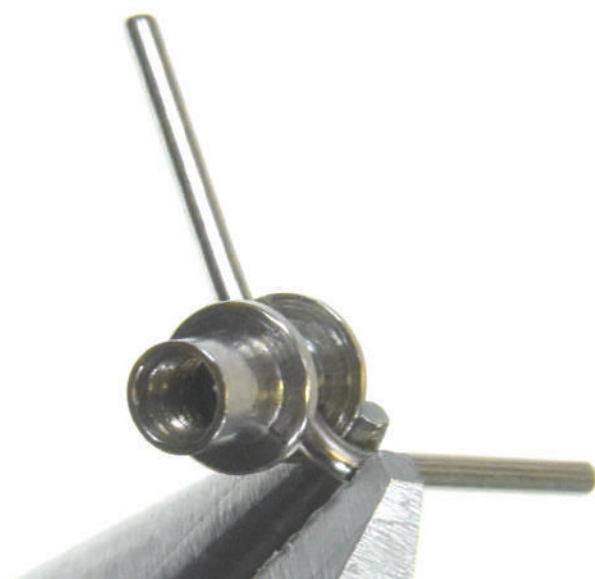


## P1515-00 FAN-TYPE WRENCH

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



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 mouth wide-open 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 7mm on both sides.**



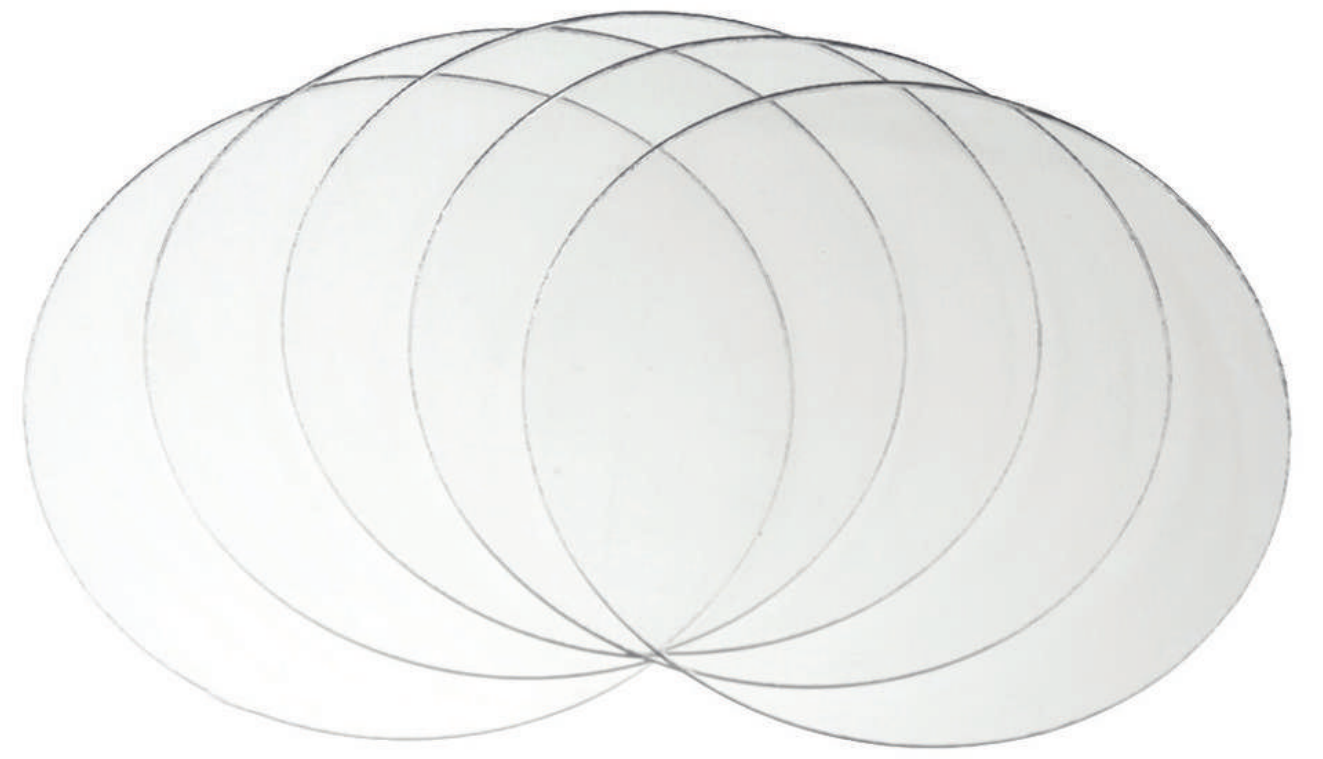
A ruler is laser etched on the wrench handle to check the activation length throughout treatment.



# BIOCOMPATIBLE THERMOFORMING MATERIAL

Discs and square plates made out of PET G (Polyethylene Terephthalate modified with Glycol), a material ideal for thermoforming 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 DI- SCS Ø 120 mm	CODE	thickness	pkg.
	<b>R7001-05</b>	0,5 mm	25 pcs
	<b>R7001-08</b>	0,8 mm	25 pcs
	<b>R7001-10</b>	1,0 mm	25 pcs
	<b>R7001-15</b>	1,5 mm	15 pcs
	<b>R7001-20</b>	2,0 mm	10 pcs

THERMOFORMABLE DI- SCS Ø 125 mm	CODE	thickness	pkg.
	<b>R7002-05</b>	0,5 mm	25 pcs
	<b>R7002-08</b>	0,8 mm	25 pcs
	<b>R7002-10</b>	1,0 mm	25 pcs
	<b>R7002-15</b>	1,5 mm	15 pcs
	<b>R7002-20</b>	2,0 mm	10 pcs

THERMOFORMABLE PLA- TES 125 x 125 mm	CODE	thickness	pkg.
	<b>R7013-05</b>	0,5 mm	25 pcs
	<b>R7013-08</b>	0,8 mm	25 pcs
	<b>R7013-10</b>	1,0 mm	25 pcs
	<b>R7013-15</b>	1,5 mm	15 pcs
	<b>R7013-20</b>	2,0 mm	10 pcs

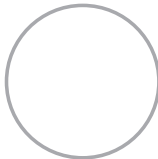


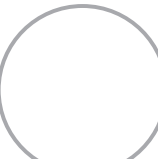
# BIOCOMPATIBLE THERMOFORMING MATERIAL HARD/SOFT


NEW

Discs and square plates featuring one soft and one hard side. The soft side is made of EVA (Ethylene Vinyl Acetate) and the hard side is made of PET-G (Polyethylene Terephthalate modified with Glycol). Acrylic resin is perfectly combined with the hard side of the thermo-formable material, making it suitable for the fabrication of splints for people suffering from bruxism or as a retentive base in the construction of complex acrylic appliances, such as anti-snoring devices. Once thermoformed, the material will get a high breakage resistance.



HARD/SOFT DISCS Ø 120 mm	CODE	thickness	pkg.
	<b>R7101-02</b>	2 mm	10 pcs
	<b>R7101-03</b>	3 mm	10 pcs

HARD/SOFT DISCS Ø 120 mm	CODE	thickness	pkg.
	<b>R7101-02</b>	2 mm	10 pcs
	<b>R7101-03</b>	3 mm	10 pcs

HARD/SOFT PLATES 125x125 mm	CODE	thickness	pkg.
	<b>R7113-02</b>	2 mm	10 pcs
	<b>R7113-03</b>	3 mm	10 pcs





**LeoneAmerica Dental Products, Inc.** is located in Oxnard, California and is the US orthodontic division of Leone Orthodontics and Implantology of Florence, Italy.

Leone was established in 1934 and is now one of the few **quality manufacturers producing** a full range of orthodontic products.

Since 1992, Leone has been a **member of the OMA** (Orthodontic Manufacturers Association), an organization featuring the nine leading orthodontic manufacturers worldwide.

LeoneAmerica Dental Products, Inc. distributes exclusively the Leone Orthodontic range in USA, Canada, and Puerto Rico.



LeoneAmerica Dental Products, Inc., Distribution site in Oxnard, CA, USA



Leone, S.P.A., Headquarters and manufacturing site in Florence, Italy



Florence, Italy





***Leone***<sup>®</sup>***America***

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