

# BORN TO BE MARPE



**CAD-CAM**  
Anatomical Expander



**CAD-CAM**  
Telescopic Expander

The MARPE (Miniscrew-Assisted Rapid Palatal Expander) palatal expansion is currently one of the most advanced orthodontic techniques for achieving predictable and stable skeletal results, especially in adult patients.

The **A0630** and **A0640** Leone expanders are the result of entirely Italian know-how, combining **precision engineering, high-performance materials and CAD-CAM digital workflow** to offer clinicians a device that guarantees **maximum efficiency, biomechanical control and comfort for the patient.**

**CAD-CAM Telescopic Expander**  
with hybrid anchorage



**CAD-CAM Telescopic Expander**  
with fully skeletal anchorage



**CAD-CAM Anatomical Expander**  
with hybrid anchorage



**CAD-CAM Anatomical Expander**  
with fully skeletal anchorage



# Mechanical precision to be integrated in digital workflow

The **A0630** and **A0640** expanders are designed to maximize the potential of the **CAD-CAM** Workflow. The dedicated software **3DLeone Designer** allows you to precisely plan the positioning of the expanders, adapting the appliance to the specific anatomy of the patient and ensuring optimal biomechanical management.

The software automatically generates the expander housing of the frameworks to be coupled with the expander connectors, which results in an easier laser welding phase, and in an overall more reliable appliance. Every stage, from the virtual design to the manufacturing, is optimized to ensure predictable results and consistent quality.



# Series **A0640**

CAD-CAM Telescopic Expander



# Maximum expansion, minimum size

The telescopic geometry of the body ensures optimal balance between expansion capacity, and volume, maximizing efficiency and reducing intraoral bulk.

Available with maximum expansion of **10 mm, 14 mm and 18 mm.**

Thanks to the squared geometry of the expander central part, the amount of activation per turn is the same as a traditional expander, allowing a more precise treatment protocol.

## Swivel key

The innovative swivel key, supplied with each expander, allows intraoral activation with a **single movement, simplifying the procedure** compared to other products on the market.



**Swivel Key  
in Action**

# Series **A0630**

CAD-CAM Anatomical Expander



# Compact and versatile

The compact design of this expander allows for precise positioning between TADs, ensuring optimal force distribution and controlled orthopaedic expansion.



Available with maximum expansion of **8 mm, 10 mm and 12 mm**

Ideal for narrow palates or when reduced space and maximum stability are required.



The body of the CAD-CAM anatomical expander features innovative square-section slots designed to ensure perfect coupling with the customised sintered structure in place of the arms. Thanks to their geometry, patented by Leone, they allow full transmission of the expansive force to the teeth and/or to TADs.



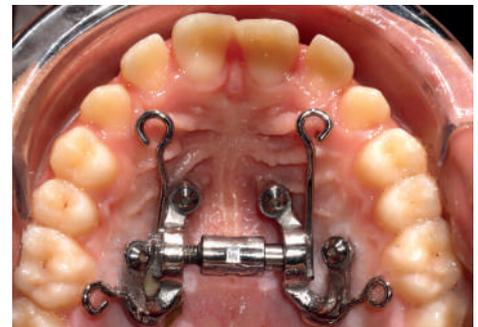
## Enhanced key

The intraoral activation key, designed specifically for this expander and included in the package, is reinforced and guarantees full transmission of the expansion force.



## Clinical case with full skeletal anchorage **CAD-CAM Telescopic Expander**

Courtesy of:  
Prof. Vincenzo D'Anto', Dr. Cristiano Segnini, Dr. Gabriella Coppola



## Clinical case with hybrid anchorage **CAD-CAM Anatomical Expander**

Courtesy of:  
Dr. Giuseppe Perinetti and Prof. Jasmine Primožic



## Series **A0640** CAD-CAM Telescopic Expander

 6 mm	 6 mm		 body			activation turns
						maximum expansion capacity
		<b>A0640-10D</b>	11 mm	10 mm	1,0 mm	40
		<b>A0640-14D</b>	13 mm	14 mm	1,0 mm	55
		<b>A0640-18D</b>	15 mm	18 mm	1,0 mm	70

## Series **A0630** CAD-CAM Anatomical Expander

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

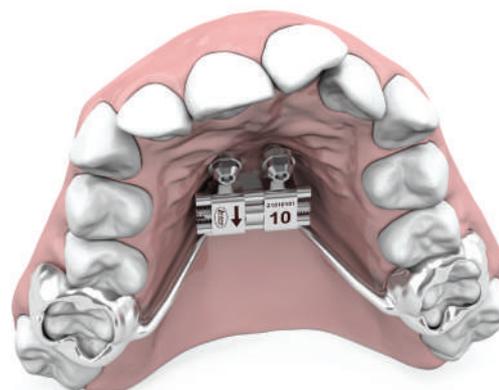
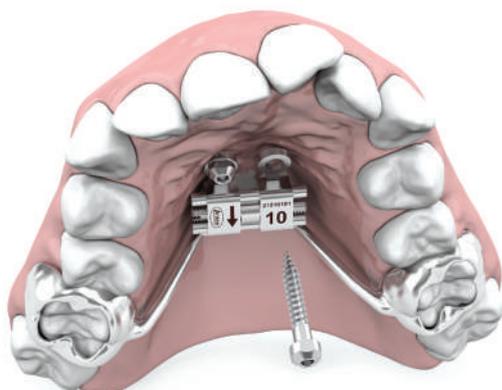
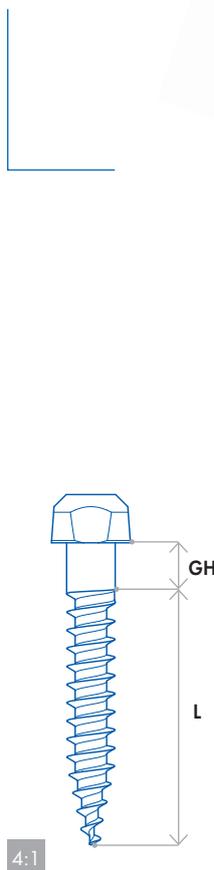
# TAD PA Integral

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



	Ø	L		pkg.
	mm	mm		
	<b>GH</b> 2,5 mm	8	<b>004-2008-10</b>	1
			<b>004-2008-20</b>	2
	<b>GH</b> 2,5 mm	10	<b>004-2010-10</b>	1
			<b>004-2010-20</b>	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



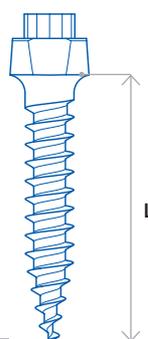
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2:1

Fixing screw



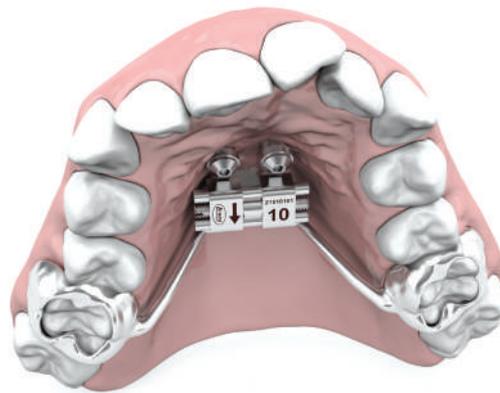
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2:1

Cylinder and fixing screw



Check the TADs section of the Leone Orthodontic Catalogue

Orthodontics since 1934

TRADITION MEETS  
THE *FUTURE*

**Leone**<sup>®</sup>

**Leone S.p.a.**  
Via P. a Quaracchi 50, 50019  
Sesto Fiorentino | Florence | Italy

**Export Dept.:**  
Phone +39 055.3044620  
export@leone.it | [www.leone.it](http://www.leone.it)