

# LMActivator

oSer



Silicone activator and aligner

LM

feel the  
difference

# LMActivator

LM-Activator aligns teeth, activates mandibular growth and expands the arch perimeter in mixed dentition.

## Advantages

- Aligns and corrects sagittal and vertical relationships simultaneously.
- Anatomically designed slots for aligning individual teeth.
- Possibility to treat in mixed dentition:
  - Intercept interferences and early signs of malocclusions when the roots and ligaments are still developing
  - Support healthy growth and development of the face and jaw

## Patient friendly

- Made of comfortable and flexible medical grade silicone.
- Biocompatible (ISO 10993 permanent contact). No coloring agents, PVC, phthalates, softeners, latex, bisphenol-A or fragrance agents.
- Simultaneous alignment, leveling and anteroposterior correction instead of separate stages.
- Myofunctional research show a correlation between malocclusions and orofacial dysfunctions.

NEW!



Instructions



## OVERJET\*



Before



After 1 year

## DEEP BITE WITH PALATAL IMPINGEMENT\*



Before



After 1 year

## SINGLE TOOTH ANTERIOR CROSSBITE\*\*



Before



After 15 days

## CROWDING\*\*\*



Before



After 10 months

\* Clinical pictures courtesy of Dr Rita Myrlund and Dr Mari Dubland, University of Tromso, Norway. \*\* Pellegrino Gioacchino, Management of eruption problems with preformed silicone orthodontic devices Poster presented at: 21. Jahrestagung der Deutsche Gesellschaft für Kinderzahnheilkunde 25.09 - 27.09 2014; Freiburg, Germany \*\*\* Pellegrino Gioacchino, Deep bite correction with a preformed appliance, Poster with oral presentation presented at: 12th Congress of European Academy of Paediatric Dentistry; 5th - 8th June 2014; Sopot, Poland

## INDICATIONS

		Deciduous dentition	Early mixed dentition	Late mixed dentition	Early permanent dentition
	Recommended Can be considered				
Overjet, overbite	Severe				
	Moderate				
	Mild				
Anterior crowding (incisors and canines)	Severe				
	Moderate				
	Mild				
Dentoalveolar anterior crossbite of 1-2 teeth	Severe				
	Moderate				
	Mild				
Rotated anterior teeth	Severe				
	Moderate				
	Mild				
Class II	Severe				
	Moderate				
	Mild				
Scissorsbite / Complete mandibular posterior lingual crossbite (i.e. mandibular posterior teeth completely on the lingual side of the maxillary posterior teeth)	Severe				
	Moderate				
	Mild				
Gummy Smile (Treatment start before the eruption of permanent maxillary central incisors)	Severe				
	Moderate				
	Mild				
Open bite (High-model of LM-Activator)	Severe				
	Moderate				
	Mild				

### Contraindications:

- Skeletal Class III
- Midline discrepancy > 3mm\*
- Very narrow upper arch\*
- Palatally impacted teeth\*
- Fully erupted anterior teeth that require torqueing\*
- Teeth requiring intrusion

\* May be treated with combination treatment (LM-Activator together with other appliances such as quad helix)



"Our results showed distinct improvements in overjet, overbite, sagittal molar relationship, and crowding in the treated subjects."

Myrlund, Rita, et al. "One year treatment effects of the eruption guidance appliance in 7-to 8-year-old children: a randomized clinical trial." The European Journal of Orthodontics (2014): cju014. <http://dx.doi.org/10.1093/ejo/cju014>

"An advantage of the eruption guidance appliance is that it not only guides the eruption of the teeth but also simultaneously acts on the transversal, sagittal, and vertical relationships of both dental arches."

Keski-Nisula, Katri, et al. "Orthodontic intervention in the early mixed dentition: A prospective, controlled study on the effects of the eruption guidance appliance." American Journal of Orthodontics and Dentofacial Orthopedics 133.2 (2008): 254-260. <http://dx.doi.org/10.1016/j.ajodo.2006.05.039>

## LMActivator 2

New features: Incisal reinforcement for deep bite | Narrow and wide versions for different arch forms | Highest surface quality (A-1, SPI AR-106)

Reinforcement with hard incisal surfaces.



**NEW!**



LM-Activator 2 Low Short

Model with a shorter molar section for patients whose second molars have not yet erupted. Delivered in a yellow box.

Size	Narrow	Narrow Reinforced	Wide	Wide Reinforced
35	94235LSN	94235LSNR	94235LSW	94235LSWR
40	94240LSN	94240LSNR	94240LSW	94240LSWR
45	94245LSN	94245LSNR	94245LSW	94245LSWR
50	94250LSN	94250LSNR	94250LSW	94250LSWR
55	94255LSN	94255LSNR	94255LSW	94255LSWR
60	94260LSN	94260LSNR	94260LSW	94260LSWR
65	94265LSN	94265LSNR	94265LSW	94265LSWR
70	94270LSN	94270LSNR	94270LSW	94270LSWR

**NEW!**



LM-Activator 2 Low Long

Model with a longer molar section for patients whose second molars have erupted. Delivered in a blue box.

Size	Narrow	Narrow Reinforced	Wide	Wide Reinforced
35	94235LLN	94235LLNR	94235LLW	94235LLWR
40	94240LLN	94240LLNR	94240LLW	94240LLWR
45	94245LLN	94245LLNR	94245LLW	94245LLWR
50	94250LLN	94250LLNR	94250LLW	94250LLWR
55	94255LLN	94255LLNR	94255LLW	94255LLWR
60	94260LLN	94260LLNR	94260LLW	94260LLWR
65	94265LLN	94265LLNR	94265LLW	94265LLWR
70	94270LLN	94270LLNR	94270LLW	94270LLWR

**NEW!**



LM-Activator 2 High Short

Model with a shorter molar section for patients whose second molars have not yet erupted. Delivered in an orange box.

The High-model of LM-Activator is thicker in the region of second premolars and molars. It is specifically designed for treating skeletal and dentoalveolar open bite cases.

Size	Narrow	Narrow Reinforced	Wide	Wide Reinforced
35	94235HSN	94235HSNR	94235HSW	94235HSWR
40	94240HSN	94240HSNR	94240HSW	94240HSWR
45	94245HSN	94245HSNR	94245HSW	94245HSWR
50	94250HSN	94250HSNR	94250HSW	94250HSWR
55	94255HSN	94255HSNR	94255HSW	94255HSWR
60	94260HSN	94260HSNR	94260HSW	94260HSWR
65	94265HSN	94265HSNR	94265HSW	94265HSWR
70	94270HSN	94270HSNR	94270HSW	94270HSWR

**NEW!**



LM-Activator 2 High Long

Model with a longer molar section for patients whose second molars have erupted. Delivered in a green box.

The High-model of LM-Activator is thicker in the region of second premolars and molars. It is specifically designed for treating skeletal and dentoalveolar open bite cases.

Size	Narrow	Narrow Reinforced	Wide	Wide Reinforced
35	94235HLN	94235HLNR	94235HLW	94235HLWR
40	94240HLN	94240HLNR	94240HLW	94240HLWR
45	94245HLN	94245HLNR	94245HLW	94245HLWR
50	94250HLN	94250HLNR	94250HLW	94250HLWR
55	94255HLN	94255HLNR	94255HLW	94255HLWR
60	94260HLN	94260HLNR	94260HLW	94260HLWR
65	94265HLN	94265HLNR	94265HLW	94265HLWR
70	94270HLN	94270HLNR	94270HLW	94270HLWR

## LMActivator

Used by hundreds of thousands of patients around the world | Clinically and scientifically proven | Evidence from cohort controlled and RCT research results



LM-Activator Low Short

Model with a shorter molar section for patients whose second molars have not yet erupted. Delivered in a yellow box.

Size	Narrow
10	94010LS
15	94015LS
20	94020LS
25	94025LS
30	94030LS
35	94035LS
40	94040LS
45	94045LS
50	94050LS
55	94055LS
60	94060LS
65	94065LS
70	94070LS



LM-Activator Low Long

Model with a longer molar section for patients whose second molars have erupted. Delivered in a blue box.

Size	Narrow
40	94040L
45	94045L
50	94050L
55	94055L
60	94060L
65	94065L
70	94070L



LM-Activator High Short

Model with a shorter molar section for patients whose second molars have not yet erupted. Delivered in an orange box. The High-model of LM-Activator is thicker in the region of second premolars and molars. It is specifically designed for treating skeletal and dentoalveolar open bite cases.

Size	Narrow
20	94020HS
25	94025HS
30	94030HS
35	94035HS
40	94040HS
45	94045HS
50	94050HS
55	94055HS
60	94060HS
65	94065HS
70	94070HS



LM-Activator High Long

Model with a longer molar section for patients whose second molars have erupted. Delivered in a green box. The High-model of LM-Activator is thicker in the region of second premolars and molars. It is specifically designed for treating skeletal and dentoalveolar open bite cases.

Size	Narrow
45	94045H
50	94050H
55	94055H
60	94060H
65	94065H
70	94070H

## LM-ACTIVATOR STARTER KITS

The Starter Kit contains everything necessary to get started with LM-Activator. All Starter Kits include LM-Activator in different sizes.

### LM-Activator 2 Starter Kit

- Low Short Narrow  
94500LSNR

### LM-Activator 2 Starter Kit

- Low Short Wide  
94500LSWR

### LM-Activator 2 Starter Kit

- Low Long Narrow  
94500LLNR

### LM-Activator 2 Starter Kit

- Low Long Wide  
94500LLWR

### LM-Activator 2 Starter Kit

- High Short Narrow  
94500HSNR

### LM-Activator 2 Starter Kit

- High Short Wide  
94500HSWR

### LM-Activator 2 Starter Kit

- High Long Narrow  
94500HLNR

### LM-Activator 2 Starter Kit

- High Long Wide  
94500HLWR

## LM-ACTIVATOR MOTIVATIONAL MATERIAL

Patient compliance is essential for successful treatment. The first month is crucial in adopting the habit to use the appliance (because creating a habit in general requires 3-4 weeks of regularity). To motivate the patient and his/her family, age appropriate material is available for both preadolescents and adolescents. It is important to make sure the patient and his/her family understands that irregular use may be equivalent with no treatment at all.

Instructions for patients in English

LM 94533 30 pcs



Reward cards

LM 94511 Skateboard 65 pcs

LM 94512 Football/Soccer 65 pcs

LM 94513 Bicycle 65 pcs

LM 94514 Horse and rider 65 pcs



Patient motivational material

LM 94531 poster & stickers 15 pcs

- A wall poster for tracking daytime and night-time use. It features a game-like progress path on which stickers are placed daily as recognition of successful use.

## LM-ORTHO SIZER

LM-OrthoSizer is a measure for aiding the selection of the appropriate size. It measures the distance across the upper incisors (from the distal surface of the left lateral incisor to the distal surface of the right lateral incisor) and indicates the corresponding size. It can be used with or without its handle.



Orthosizer is also compatible with mirror handles:  
- LM 25 ES  
- LM 25 XSI  
- LM 25 SI  
- LM 28 ES  
- LM 28 XSI

## LM-OrthoSizer

LM 942526 LM-OrthoSizer with Handle (simple stem)

LM 942826 LM-OrthoSizer with Handle (cone socket)

LM 9400 LM-OrthoSizer without handle

## LMTrainer



LM-Trainer Medium

LM 94100T

- Slots for incisors and canines
- Lip bumper



LM-Trainer Small

LM 94100S

- Slots for incisors, lip bumper
- Smaller and softer than LM-Trainer Medium



LM-Trainer Braces

LM 94100TB

- Used in conjunction with brackets and wires
- Brings the mandible forward for Class II correction
- Prevents irritation and wounding of soft tissue
- Lip bumper

NEW!



LM-Trainer 2 M

LM 94100T2

NEW!



LM-Trainer Braces 2 M

94100TB2M

NEW!



LM-Trainer Braces 2 S

94100TB2S

## ORTHODONTIC HAND INSTRUMENTS



The explorer-like end of the instrument can be used for both application and removal of ligatures. Ligatures can be lined up on the lower shank. The forked end is particularly suitable for guiding a ligature ring over e.g. the fourth wing of a bracket.



Bending the end of an arch wire can be problematic. Working space is limited and the wire rigid. Double-ended LM-Arch Wire Tucker facilitates the bending. The flattened ball-ends have 1 millimeter holes, where the wire can easily be placed and turned. The blade is long and fits well even in tight places.



### Mirror Handle, ortho

<b>LM</b> ErgoSense	LM 25-26 ES
<b>LM</b> ErgoMax	LM 25-26 XSI
<b>LM</b> ErgoSense	LM 28-26 ES
<b>LM</b> ErgoMax	LM 28-26 XSI

- For measuring overjet and overbite
- Millimeter scale, total length 25 mm

### Ligature On-Off SL

<b>LM</b> ErgoSense	LM 414-17CL ES
<b>LM</b> ErgoMax	LM 414-17CL XSI

### Plastic Ligature Applicator

<b>LM</b> ErgoSense	LM 416-417 ES
<b>LM</b> ErgoMax	LM 416-417 XSI
<b>LM</b> ErgoNorm	LM 416-417 SI

### Arch Wire Tucker

<b>LM</b> ErgoSense	LM 412-413 ES
<b>LM</b> ErgoMax	LM 412-413 XSI
<b>LM</b> ErgoNorm	LM 412-413 SI

### Ligature Tucker

<b>LM</b> ErgoSense	LM 414-415 ES
<b>LM</b> ErgoMax	LM 414-415 XSI

### Ligature Tucker - Scaler U15

<b>LM</b> ErgoSense	LM 414-150 ES
<b>LM</b> ErgoMax	LM 414-150 XSI
<b>LM</b> ErgoNorm	LM 414-150 SI

# LM Dental

LM-Instruments Oy

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