



LOMAS / MONDEFIT

The most innovative anchorage method for tooth correction

- Controlled and reliable tooth movement
- Completion of tooth correction without gaps
- For the young and young at heart

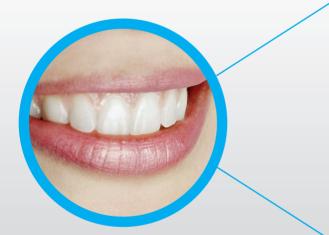


ORTHODONTICS



The most innovative anchorage method for tooth correction

The MONDEFIT system was developed based on the LOMAS system. Due to the compatibility of both systems by using the same instruments, this combination covers many orthodontic indications with amazing results.



MONDEFIT / ORTHODONTICS

The MONDEFIT system can be used for a variety of applications in the maxilla because of the screw design and the abutments available. The molar anchorage, the distal extension of the dental arch as well as the mesialization of molars can be named as important indications.

LOMAS / ORTHODONTICS

The usage of Mini-Anchor-Screws has become a standard for orthodontic treatment. The self-drilling LOMAS screws offer many advantages such as high stability, immediate screw loadability as well as reliable and secure fixation. There are additional applications by combining the LOMAS system with the innovative MONDEFIT system.



Indications and Advantages



- Mesialization / Distalization of molars
- Molar uprighting
- Maximum anchorage (Front anchorage / Molar anchorage)
- Temporary dentures
- Maxillary expansion
- Opening gaps in case of retention
- Symmetrical alignment of asymmetries
- Displaced teeth

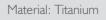


- Immediate loading is possible
- Minimally invasive insertion protocol
- Orthodontists can insert by themselves
- Easy to use
- Easy to combine with applications of the orthodontic accessories
- Reduced treatment time

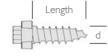


MONDEFIT - Screws

(Packaging I/ea.)









MONDEFIT Screw, \emptyset 1.5 mm self-drilling

Art. No.	Diameter (d) x Length
A33-M4A-1507	I.5 x 7 mm
A33-M4A-1509	1.5 x 9 mm

MONDEFIT Screw, \emptyset 1.5 mm self-drilling, **sterile**

Art. No.	Diameter (d) x Length
ST-A33-M4A-1507	l.5 x 7 mm
ST-A33-M4A-1509	1.5 x 9 mm

$\begin{array}{l} \text{MONDEFIT Screw,} \oslash \text{ 2.0 mm} \\ \text{self-drilling} \end{array}$

Art. No.	Diameter (d) x Length
A33-M4A-2007	2.0 x 7 mm
A33-M4A-2009	2.0 x 9 mm
A33-M4A-2011	2.0 x 11 mm
•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••

MONDEFIT Screw, \varnothing 2.0 mm self-drilling, **sterile**

Art. No.	Diameter (d) x Length
ST-A33-M4A-2007	2.0 x 7 mm
ST-A33-M4A-2009	2.0 x 9 mm
ST-A33-M4A-2011	2.0 x 11 mm



MONDEFIT Emerg. Screw, \varnothing 2.3 mm self-drilling

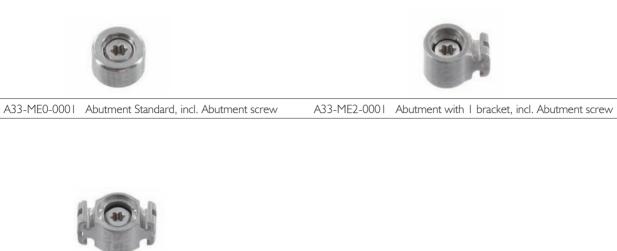
Art. No.	Diameter (d) x Length
A33-M4A-2309	2.3 x 9 mm

MONDEFIT Emerg. Screw, \varnothing 2.3 mm self-drilling, **sterile**

Art. No.	Diameter (d) x Length
ST-A33-M4A-2309	2.3 x 9 mm



Material: Implant steel



0

A33-ME2-0002 Abutment with 2 brackets, incl. Abutment screw

A33-ME1-0002 Abutment with wire 1.1 mm (Length: 120 mm), incl. Abutment screw

 MONDEFIT - Impression
 Material: Steel

 Impression Cap Metal
 A33-VX1-0002
 Laboratory Analog



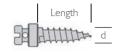
MONDEPI	LATES		Material: Implant steel
	\square		
33-MR0-0001	MONDEPLATE connection plate 1.2 mm, long (17.50 mm), incl. fixation screws		MONDEPLATE connection plate 1.2 mn short (12.50 mm), incl. fixation screws
		0	
33-MPI-1211	MONDEPLATE connection plate, 1.2 mm, st	nort, with 1.1 mm wire (Length: 120 mm), incl. fixation screws
33-MRI-1211	MONDEPLATE connection plate, 1.2 mm, lo	ong, with 1.1 mm wire (l	ength: 120 mm), incl. fixation screws
	a. 3		8 2
	Jun St		
433-MB0-0001	Spare fixation screws (2/ea.)	A33-MB0-0002	Spare fixation screws (2/ea.)
A33-MB0-0001	Spare fixation screws (2/ea.) T - Accessories	A33-MB0-0002	Spare fixation screws (2/ea.)
		A33-MB0-0002	Spare fixation screws (2/ea.)
		A33-MB0-0002	Spare fixation screws (2/ea.)
Mondefi	T - Accessories	A33-MB0-0002	
MONDEFI	T - Accessories		
MONDEFI	T - Accessories		
	T - Accessories		
MONDEFI 433-MZ2-0007	T - Accessories Hook lock (1/ea.)	A33-MZ2-0008	Mobilizer for wires (1/ea.)
MONDEFI 433-MZ2-0007	T - Accessories Hook lock (1/ea.) Hook lock extended (1/ea.)	A33-MZ2-0008	Mobilizer for wires, extended (1/ea.)



LOMAS / MONDEFIT

LOMAS Screws

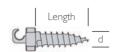
(Packaging I/ea.)





STANDARD Screw, \oslash 1.5 mm self-drilling

Art. No.	Diameter (d) x Length
A33-11507	1.5 x 7 mm
A33-11509	1.5 x 9 mm
A33-11511	I.5 x II mm





HOOK Screw, \varnothing 1.5 mm self-drilling

Art. No.	Diameter (d) x Length
A33-21507	l.5x 7mm
A33-21509	1.5 x 9 mm
A33-21511	I.5 x II mm



STANDARD Screw, \varnothing 2.0 mm self-drilling

Art. No.	Diameter (d) x Length
A33-12207	2.0 x 7 mm
A33-12209	2.0 x 9 mm
A33-12211	2.0 x I I mm

STANDARD Emerg. Screw, \varnothing 2.3 mm self-drilling

Art. No.	Diameter (d) x Length
A33-12309	2.3 x 9 mm



HOOK Screw, \varnothing 2.0 mm self-drilling

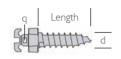
Art. No.	Diameter (d) x Length
A33-22007	2.0 x 7 mm
A33-22009	2.0 x 9 mm
A33-22011	2.0 x I I mm

HOOK Emerg. Screw, \varnothing 2.3 mm self-drilling

Art. No.	Diameter (d) x Length
A33-22109	2.3 x 9 mm



LOMAS Screws (Packaging I/ea.)







QUAD Screw H, Ø 1.5 mm

Art. No.

A33-31807

A33-31809

A33-31811

 $q = 0.018 \times 0.025$ ", self-drilling

1.5 x 7 mm

1.5 x 9 mm

1.5 x 11 mm

Diameter (d) x Length



QUAD Screw H, \oslash 1.5 mm q = 0.022 x 0.028", self-drilling

Art	t. No.	Diameter (d) x Length
A3	3-32207	1.5 x 7 mm
A3	3-32209	1.5 x 9 mm
A3	3-32211	I.5 x II mm



QUAD Screw H, \oslash 2.0 mm q = 0.018 x 0.025", self-drilling

Art. No.	Diameter (d) x Length
A33-41807	2.0 x 7 mm
A33-41809	2.0 x 9 mm
A33-41811	2.0 x I I mm

QUAD Emerg. Screw H, \emptyset 2.3 mm q = 0.018 x 0.025", self-drilling

Art. No.	Diameter (d) x Length
A33-41909	2.3 x 9 mm



QUAD Screw H, \emptyset 2.0 mm q = 0.022 x 0.028", self-drilling

Art. No.	Diameter (d) x Length
A33-42207	2.0 x 7 mm
A33-42209	2.0 x 9 mm
A33-42211	2.0 x 11 mm

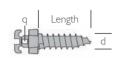
QUAD Emerg. Screw H, \emptyset 2.3 mm q = 0.022 x 0.028", self-drilling

Art. No.	Diameter (d) x Length
A33-42309	2.3 x 9 mm



LOMAS / MONDEFIT

LOMAS Screws (Packaging I/ea.)







QUAD Screw V, \emptyset 2.0 mm q = 0.018 x 0.025", self-drilling

Art. No.	Diameter (d) x Length
A33-51807	2.0 x 7 mm
A33-51809	2.0 x 9 mm
A33-51811	2.0 x I I mm



QUAD Screw V, \emptyset 2.0 mm q = 0.022 x 0.028", self-drilling

Art. No.	Diameter (d) x Length
A33-52207	2.0 x 7 mm
A33-52209	2.0 x 9 mm
A33-52211	2.0 x II mm

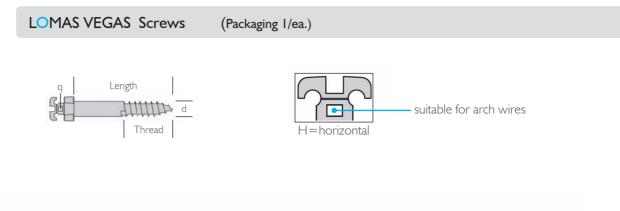
QUAD Emerg. Screw V, \oslash 2.3 mm q = 0.018 x 0.025", self-drilling

Art. No.	Diameter (d) x Length
A33-51909	2.3 x 9 mm

QUAD Emerg. Screw V, \emptyset 2.3 mm q = 0.022 x 0.028", self-drilling

Art. No.	Diameter (d) x Length	
A33-52309	2.3 x 9 mm	







VEGAS Screw H, \oslash 2.0 mm q = 0.022 x 0.028", self-drilling, sterile

Art. No.	Diameter (d) x Length x Thread
ST-A33-53209	2.0 x 9 mm x 7 mm
ST-A33-53211	2.0 x 11 mm x 7.5 mm
ST-A33-53213	2.0 x 13 mm x 8 mm
ST-A33-53215	2.0 x 15 mm x 8.5 mm
ST-A33-53217	2.0 x 17 mm x 9 mm
ST-A33-53220	2.0 x 20 mm x 9.5 mm
ST-A33-53225	2.0 x 25 mm x 10 mm
ST-A33-53230	2.0 x 30 mm x 10.5 mm
ST-A33-53235	2.0 x 35 mm x 11 mm
ST-A33-53240	2.0 x 40 mm x 11.5 mm

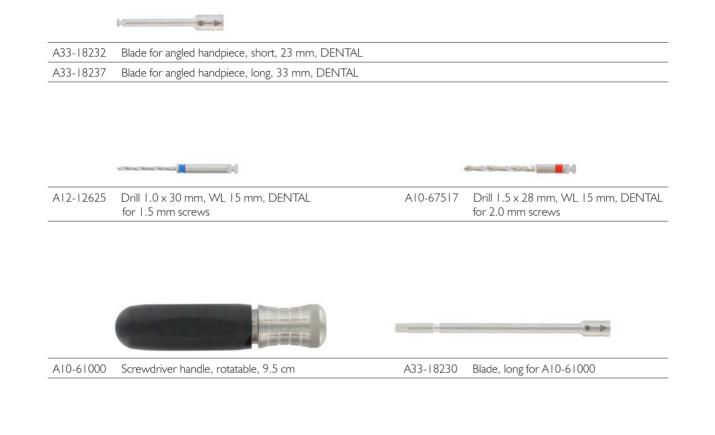


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Instruments

Μ	

For MONDEFIT, LOMAS and LOMAS VEGAS:





A33-SS4-1100 Screwdriver, fixed



Instrument	S	
Eor MO	NDEFIT only:	
	NDEFTT ONLY.	
\84-SK0-2000	MCD blade, 20 mm, DENTAL, self-retaining, for angled handpiece	For fixation of:
		Fixation screws
		Abutments
		For activating:
		• Mobilizer
A33-SS0-1000	Handle with blade	
99-003-04	Screwdriver handle, short, 6 cm (for laboratory use only)	
499-003-05	MCD blade, self-retaining (for laboratory use only)	
477-003-03		
For LON	1AS VEGAS only:	
-		
485-VA2-1500	Drill 1.5 x 60 mm, WL 15 mm, DENTAL	
	for LOMAS VEGAS-Screws	



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Container

ML For MONDEFIT and LOMAS:







A75-TC3-0677-7	Length clip 7 mm
A75-TC3-0677-9	Length clip 9 mm
A75-TC3-0677-11	Length clip 11 mm



MONDEFIT - Models

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Ordering information



A95-13012 Model Mesialization / Distalization



A95-13007 Model Front anchorage



A95-13010 Model Maxillary expansion



A95-13002 Model Molar anchorage



Clinical case: Maximum anchorage



Maximum anchorage of the molars



Bilateral mesial space closure achieved by indirect anchorage

Clinical case: Distalization I



Initial situation



Bilateral tooth movement distally



Treatment outcome



Clinical case: Distalization 2





















The distalization based on skeletal anchorage is evenly spreaded since the bicuspids (dentes premolares) move distal with the molars through the traction of the interdental ligaments. As a result, there are no large gaps.



Clinical case: Distalization 3

















Clinical case: Mesialization





















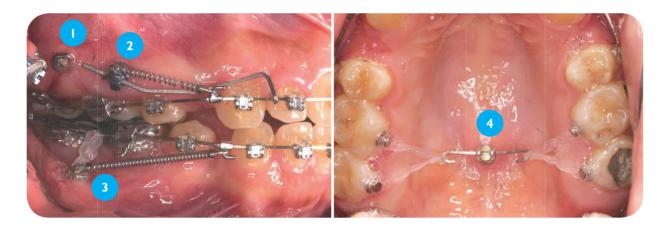


Mesialization of the upper molars through unilateral protraction palatinal.





Top 4 Areas of Application





Instruction for insertion of the screw









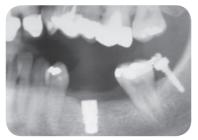




Clinical case: Molar uprighting and distalization



Insert LOMAS STANDARD screw as skeletal anchorage incident to the tooth using 2 NiTi coil springs



Position of the screw parallel to the tooth axis



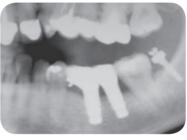
Advanced uprighting and distalization



Completed uprighting and distalization



Placing the second dental implant



Placing the cap on the dental implants. After the screw has been removed, the orthodontiv treatment is successfully completed.

Clinical case: Protraction of molars



Insertion of the LOMAS HOOK screw between the first and the second molar (interdental)



Transmission through rubber band



Transmission through NiTi coil spring

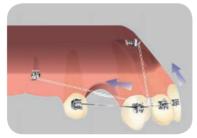
Progress of protraction



Clinical case: Skeletal Gummy Smile Correction



Patient with Gummy Smile, overbite and tooth gap (diastema)



Positioning and function of the LOMAS QUAD screws



Transmission through rubber band as a tool for the correction of the overbite and for gap closure



Transmission through rubber band as a tool for the correction of the Gummy Smile



Transmission through rubber band as a tool for gap closure



Finished and activated appliance



Advanced correction front view



Advanced correction profile



Completed orthodontic treatment outcome



LOMAS VEGAS

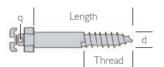
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Features

LOMAS VEGAS Screw H, \emptyset 2.0 mm q = 0.022 x 0.028", self-drilling, sterile

Diameter (d) x Length x Thread
2.0 x 9 mm x 7 mm
2.0 x 11 mm x 7.5 mm
2.0 x 13 mm x 8 mm
2.0 x 15 mm x 8.5 mm
2.0 x 17 mm x 9 mm
2.0 x 20 mm x 9.5 mm
2.0 x 25 mm x 10 mm
2.0 x 30 mm x 10.5 mm
2.0 x 35 mm x 11 mm
2.0 x 40 mm x 11.5 mm







- Extended application areas: chin-menton, mandibular, (infra)zygomatic, interdental, palatinal
- Alternative for existing orthodontic mini-plate-systems
- Fast healing around the long thread-free shank of the screw
- Opportunity of a stable anchorage in the mandible
- Sterile packaging



Developed in cooperation with: Dr. Villegas • specialist for Orthodontics and OMF surgeon • Colombia



Areas of Application



Zygomatic



Infrazygomatic



Interdental



Mandibular



Chin-menton



Clinical case: Class III patient



Original image



Class III, 11 years old patient



Original image



X-Ray view



Drilling in the maxilla



Placement of 2 LOMAS VEGAS screws (length 35 mm) in the zygomatic bone through 1 cm incision



Drilling in the mandible



Flapless placement of 2 LOMAS VEGAS screws (length 30 mm) in the mandibular simphysis



Soft tissue healing around the screws in the mandible



Class III elastics for intraoral class III orthopedic treatment



Placed screws for the orthopedic treatment

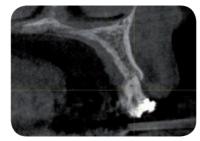
Attachment of an auxiliary wire with a hook in the rectangular slot to facilitate the placement of the elastics on the screws in the zygoma



Clinical case: Temporary dentures



Patient with missing upper permanent lateral incisors and canines



Tomography cut showing bone availability and rooth resorption of the upper right deciduos canine



LOMAS VEGAS screw (length 20 mm) was placed flapless



LOMAS VEGAS in place



Composite was added to the head to serve as an abutment



Temporary prosthesis in place



Tomographic image of the screw



Notice the great soft tissue healing around the LOMAS VEGAS with the new temporary prosthesis after 10 months



Clinical case: Comparison LOMAS VEGAS vs. 3D-VESTIPLATE



Pre-surgical occlusion and profile of a class III skeletal patient



Surgery first approach was performed placing a 3D-VESTIPLATE with 2 mini screws on the right side ...



... leaving increased overbite ...



... and a long LOMAS VEGAS screw (length 40 mm) on the left zygoma to be used as skeletal anchorage during post-surgical orthodontic treatment



Placing 2 LOMAS VEGAS screws (length 20 mm) in the mandibular bucal bilaterally in order to have anchorage to distalize the lower dental arch



NiTi coil springs used to distalize (right side)



NiTi coil springs used to distalize (left side)



Soft tissue healing around the screws and 3D-VESTIPLATE after 5 months of treatment: Maxilla right



Soft tissue healing around the screws and 3D-VESTIPLATE after 5 months of treatment: Maxilla left



Soft tissue healing around the screws and 3D-VESTIPLATE after 5 months of treatment: Mandible right



Soft tissue healing around the screws and 3D-VESTIPLATE after 5 months of treatment: Mandible left



Final occlusion 13 months after surgery



Instruction: Handling of sterile screws



Sterile version of the MONDEFIT, LOMAS and LOMAS VEGAS Screws



Pushing in the cardboard packaging above the preforation



Opening of the cardboard packaging and removing of the sterile double blister packaging



Sterile double blister packaging



Opening of the first blister and removing of the second sterile blister



Second sterile blister



Opening of the second sterile blister



Attention: Before folding back the blister to expose the screw head, make sure the screw head is not pulled out since especially in case of using the short screws (7-9 mm) it could happen that they fall out of the tube. Therefore: Do not put yout thumb over the screw head.

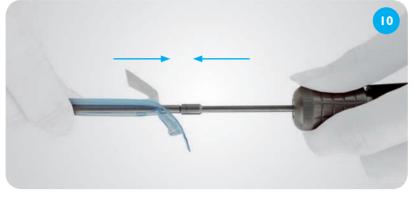


Folding back the blister to expose the screw head





Instruction: Handling of sterile screws



Receiving the screw with the screwdriver / the blade (horizontal and with little pressure)



The screw stucks in the blade. Control: Only 1-2 tenths of the screw head platform should be seen.

Applicable for these products:

- MONDEFIT
- LOMAS
- LOMAS VEGAS





Notes	





Notes



Orthodontics by AFM

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