

## OrthoAnchor

Orthodontic implants



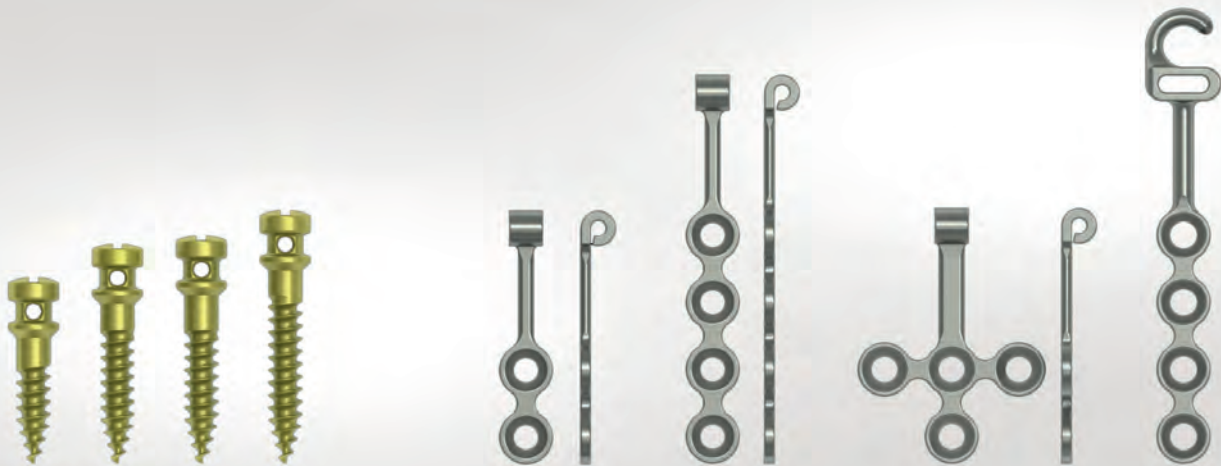
Oral and maxillofacial surgery is our passion! It is our policy to continue enhancing this field in collaboration with our customers. Day in, day out, we work to develop innovative products and services that satisfy the highest quality demands and contribute to the patient's well-being.

## OrthoAnchor

In addition to esthetic problems, malocclusions of individual teeth or parts of the jaw primarily affect the patient's ability to bite, speak and chew. Dental hygiene may also be affected by such a malposition, and this in turn can lead to inflammation of the mucosa or even diseases such as caries or periodontitis. Traditional orthodontics has relied on vectors within the dental arch or external braces to restore occlusion to symmetry.

KLS Martin has been a pioneer in bone anchorage for many years and has since offered a comprehensive portfolio of options ranging from proven screw solutions to adaptable and highly stable plates.

## Feature, Function and Benefit



The OrthoAnchor system comprises three product categories to provide appropriate solutions for patient-specific anatomies. In addition to the individual OrthoAnchor screws, two types of plates which can be attached both laterally to the maxilla and palatally to the vestibulum are also available.

The OrthoAnchor system is used in applications where maximum stable anchorage is required. To this end, the plates and screws are placed in such a manner that the hook (working end) protrudes from the soft tissue and allows fixation of the wire/rubber connected to the actual tooth to the hook.

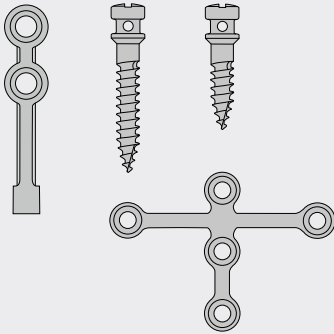
In addition to closing gaps more quickly, these devices can also be used to bridge greater distances. Furthermore, owing to firm fixation to the bone, the directional vectors remain identical throughout the entire procedure.



## OrthoAnchor

### Feature

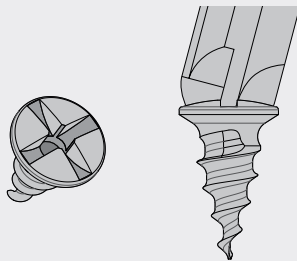
- Small but complete portfolio



### Benefit

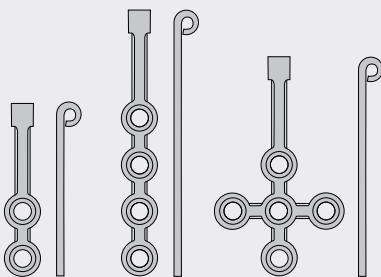
- Includes various accessories and hooks
- Comprises plates (incl. hook designs) and stand-alone OrthoAnchor screws
- Inexpensive, fast and virtually atraumatic treatment under local anesthesia, as well as easy removal

- Monocortical fixation



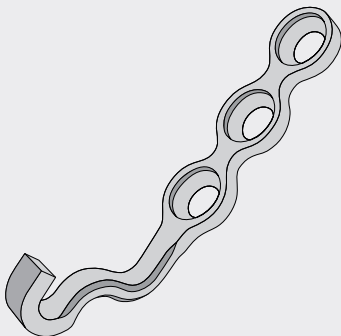
- Drill-free screws can be used for fixation
- No pre-drilling required
- Shortens the duration of surgery

- Various plate designs



- Creates various options for plate fixation
- Maintains normal dental hygiene

- Anatomically pre-shaped 3D plate



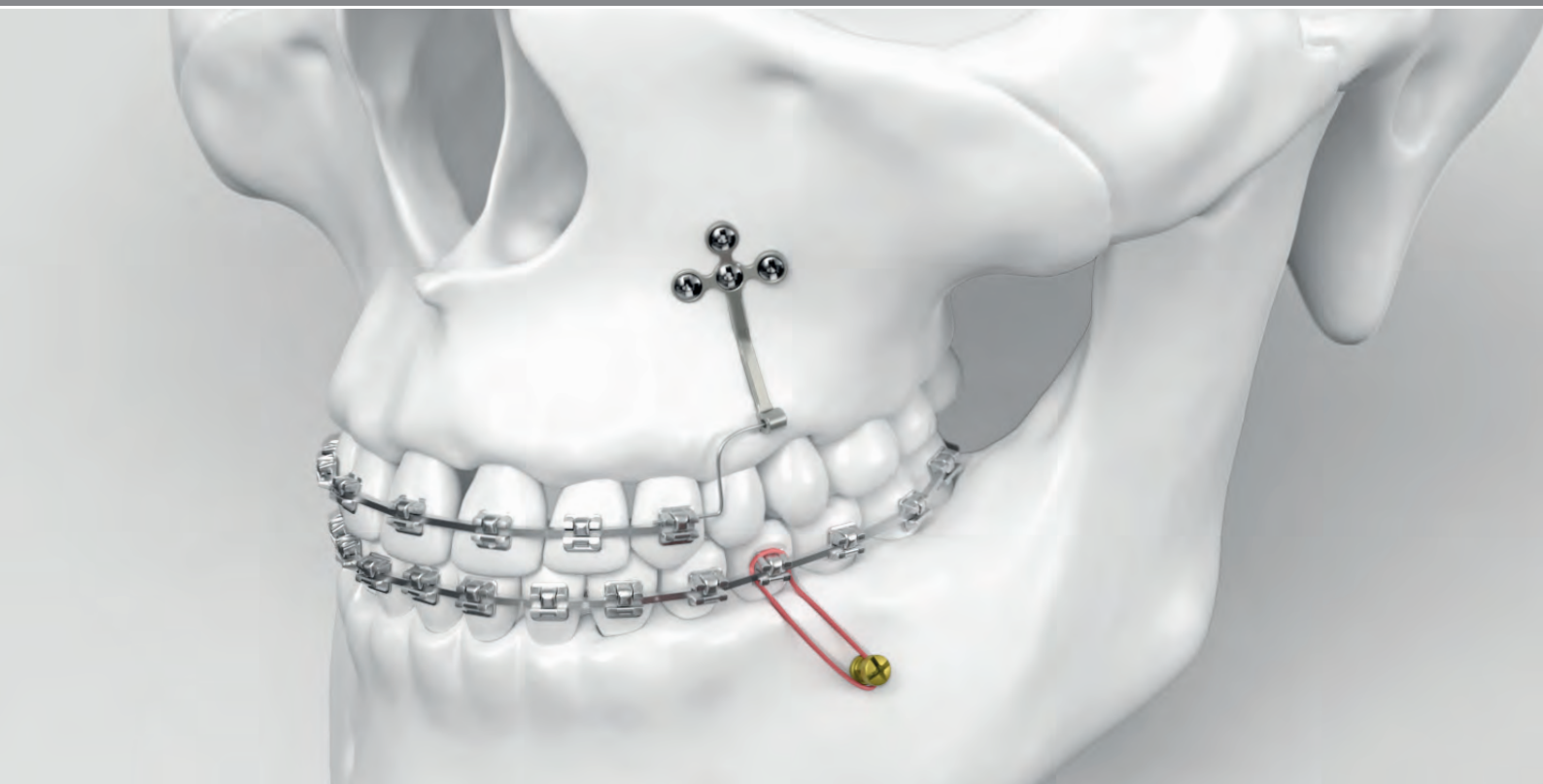
- The plate design protects the soft tissue
- No damaging or tilting of teeth or tooth roots

## Step by Step to Optimal Care

### Fields of Use

The OrthoAnchor system can be used in cases where maximum stable anchorage is required. The OrthoAnchor system can only be used under conditions where retention in the cortex can be achieved.

- The C-palatal plate is designed for en masse retraction of the anterior teeth without loss of anchorage.
- The C-Tube plates are designed for en masse retraction of the anterior teeth of the maxilla or mandible, placed bilaterally.



## Surgical Techniques

### **OrthoAnchor orthodontic plate**

Lateral C-plate

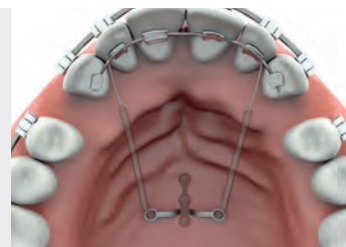
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### **OrthoAnchor orthodontic plate**

Palatal C-plate

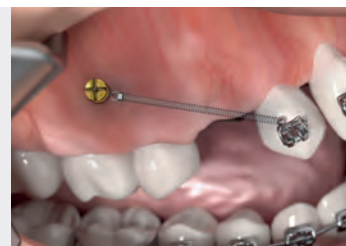
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### **OrthoAnchor orthodontic screws**

OrthoAnchor screw

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**Option 1 (lateral C-plate)**

After a vestibular incision, the periosteum is lifted locally.



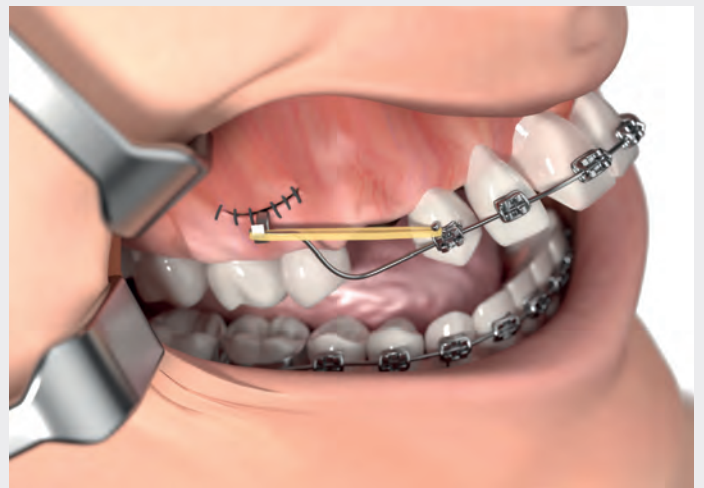
**Fixation of the plate**

The plate is fixed with Drill-free screws  $\varnothing$  1.5 mm.



**Suture/closure of the mucosa**

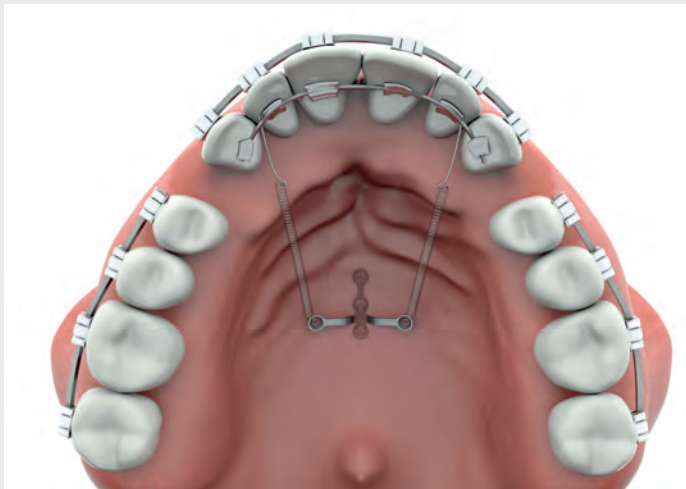
The hook (work end) of the plate remains visible in the vestibulum.



**Connection to bracket**

The work end, for example, serves as anchoring point for the rubber bands.





### Option 2 (palatal C-plate)

Similar to option 1, the palatal C-plate is accessed through a sagittal incision on the vestibulum. The plate is also screw-retained in the three medial screw holes using Drill-free screws  $\varnothing$  1.5 mm.

The two lateral holes must not be screw-retained. They remain in the oral vestibule and serve as anchor points.

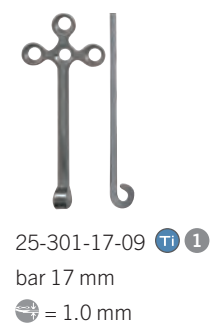
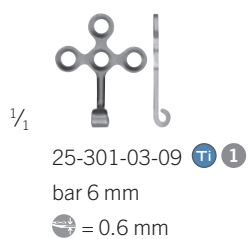
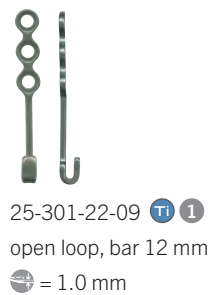
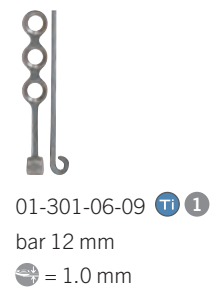
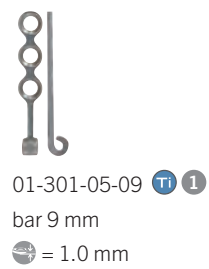
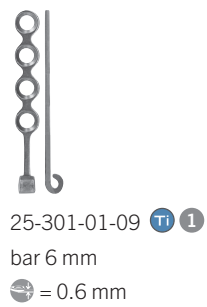
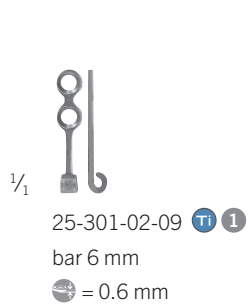


### Option 3 (OrthoAnchor screws)

Depending on the anatomy, the selected OrthoAnchor screws  $\varnothing$  1.5 mm or  $\varnothing$  2.0 mm are screw-retained transmucosally using the corresponding screwdriver. Pre-drilling is not necessary due to the self-tapping design of the screw.




The screw must be screwed in completely so that only the soft tissue collar remains visible intraorally.

## OrthoAnchor Plates










Explanation of icons




-  Titanium
-  Plate profile
-  Packaging unit


$\frac{1}{1}$







25-301-31-09    
 Hook left, bar 6 mm  
 = 0.6 mm






25-301-32-09    
 Hook right, bar 6 mm  
 = 0.6 mm







25-301-33-09    
 Hook left, bar 6 mm  
 = 1.0 mm







25-301-34-09    
 Hook right, bar 6 mm  
 = 1.0 mm

$\frac{1}{1}$







25-301-35-09    
 Hook left, T-shape, bar 6 mm  
 = 1.0 mm







25-301-36-09    
 Hook right, T-shape, bar 6 mm  
 = 1.0 mm

$\frac{1}{1}$

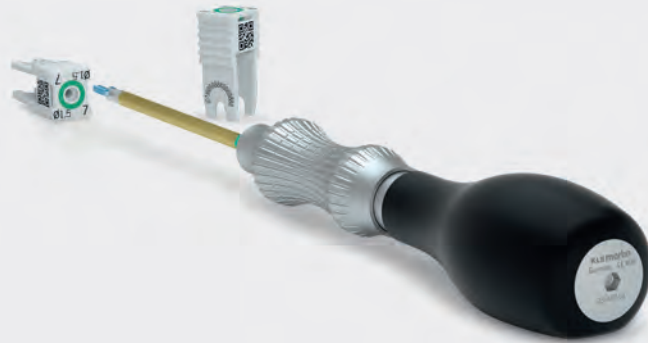


25-301-05-09    
 = 0.6 mm













25-301-23-09    
 = 0.8 mm

## OrthoAnchor Screws







### OrthoAnchor screws

1.5 mm "soft tissue collar"		 1 
	<b>Ø x length</b> 	<b>maxDrive®</b>
	1.5 x 6 mm	50-334-08-61
	1.5 x 8 mm	50-334-10-61
	1.5 x 10 mm	50-334-11-61
	<b>Ø x length</b> 	<b>maxDrive®</b>
	2.0 x 6 mm	50-335-11-61
2.0 x 8 mm	50-335-13-61	
2.0 x 10 mm	50-335-15-61	

2.0 mm "soft tissue collar"		 1 
	<b>Ø x length</b> 	<b>maxDrive®</b>
	1.5 x 8 mm	50-334-12-61
	<b>Ø x length</b> 	<b>maxDrive®</b>
	2.0 x 8 mm	50-335-14-61

### maxDrive® screws for OrthoAnchor plates

Drill-free screws 1.5 mm self-retaining, self-drilling					  
	Ø x L (mm)	Non-sterile 1	STERILE [R] 1	STERILE [R] 5	
	1.5 x 3.5 mm	25-878-03-61	25-878-03-71	25-878-03-75	
1.5 x 4 mm	25-878-04-61	25-878-04-71	25-878-04-75		
1.5 x 5 mm	25-878-05-61	25-878-05-71	25-878-05-75		
1.5 x 6 mm	25-878-06-61	25-878-06-71	25-878-06-75		
1.5 x 7 mm	25-878-07-61	25-878-07-71	25-878-07-75		






Explanation of icons

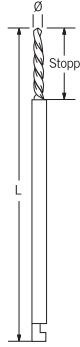
- Titanium alloy
- maxDrive®
- Screw diameter 1.5 mm
- Screw diameter 2.0 mm
- J-notch attachment
- Dental attachment
- Packaging unit

**STERILE R** Sterile packaged implants

## Screwdrivers and blades

Screwdrivers and blades		
		
<b>Blades to fit</b>	25-402-99-07*	
	<b>Drill-free screws</b>	<b>Blade length</b>
	25-489-97-07   1.5 mm	80 mm
	25-491-97-07   2.0/2.3 mm	80 mm
	<b>OrthoAnchor screws</b>	<b>Blade length</b>
	25-489-97-07   1.5 mm	80 mm
	25-491-97-07   2.0/2.3 mm	80 mm

## Twist drills

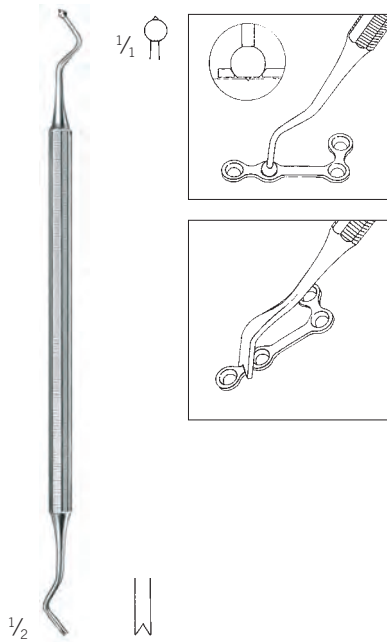
Twist drills			
	<b>J-notch attachment</b>		
	<b>Ø x L (mm)</b>	<b>Stop (mm)</b>	
	1.1 x 50 mm	5	25-452-05-91
	1.1 x 50 mm	7	25-452-07-91
	<b>Dental attachment</b>		
	<b>Ø x L (mm)</b>	<b>Stop (mm)</b>	
	1.1 x 30 mm	17	50-920-00-07
	1.1 x 20 mm	7	50-920-07-07

\* For storage in the LevelOne® modules



## OrthoAnchor Instruments and Storage

Optional



Lindorf  
25-435-15-07  
18 cm / 6 1/4"  
Plate-holding instrument

St 1



25-486-13-07  
13 cm / 5"  
Modeling pliers

St 1 TC GOLD



50-990-00-07  
Angulus 2 angled screwdriver complete,  
with hand drive and screw holding  
device

St Sic 1



For more information on  
the Angulus 2 angled  
screwdriver, please refer  
to the separately  
available brochure

Explanation of icons



Steel



Silicone



Packaging unit

**TC GOLD** Carbide

### Office Fixation Kit

55-961-28-04	Storage module complete, without content, consisting of:
55-962-07-04	Insert module
55-964-53-04	Insert 1
55-964-54-04	Insert 2
55-963-44-04	Lid



55-961-28-04

Office Fixation Kit, storage module complete,  
without content

## KLS Martin Group

### **KLS Martin Australia Pty Ltd.**

Sydney · Australia  
Tel. +61 2 9439 5316  
australia@klsmartin.com

### **KLS Martin do Brasil Ltda.**

São Paulo · Brazil  
Tel. +55 11 3554 2299  
brazil@klsmartin.com

### **KLS Martin Medical (Shanghai) International Trading Co., Ltd**

Shanghai · China  
Tel. +86 21 5820 6251  
info@klsmartin.com

### **KLS Martin India Pvt Ltd.**

Chennai · India  
Tel. +91 44 66 442 300  
india@klsmartin.com

### **KLS Martin Italia S.r.l.**

Milan · Italy  
Tel. +39 039 605 67 31  
info@klsmartin.com

### **KLS Martin Japan K.K.**

Tokyo · Japan  
Tel. +81 3 3814 1431  
info@klsmartin.com

### **KLS Martin SE Asia Sdn. Bhd.**

Penang · Malaysia  
Tel. +604 261 7060  
malaysia@klsmartin.com

### **KLS Martin de México, S.A. de C.V.**

Mexico City · Mexico  
Tel. +52 55 7572 0944  
mexico@klsmartin.com

### **KLS Martin Nederland B.V.**

Huizen · Netherlands  
Tel. +31 35 523 45 38  
infonl@klsmartin.com

### **KLS Martin SE & Co. KG**

Moscow · Russia  
Tel. +7 499 792 76 19  
russia@klsmartin.com

### **KLS Martin Taiwan Ltd.**

Taipei · Taiwan  
Tel. +886 2 2325 3169  
taiwan@klsmartin.com

### **KLS Martin SE & Co. KG**

Dubai · United Arab Emirates  
Tel. +971 4 454 16 55  
middleeast@klsmartin.com

### **KLS Martin UK Ltd.**

Reading · United Kingdom  
Tel. +44 118 467 1500  
info.uk@klsmartin.com

### **KLS Martin LP**

Jacksonville · Florida, USA  
Tel. +1 904 641 77 46  
usa@klsmartin.com

### **KLS Martin SE Asia Sdn. Bhd.**

Hanoi · Vietnam  
Tel. +49 7461 706-0  
vietnam@klsmartin.com



### **KLS Martin SE & Co. KG**

#### **A company of the KLS Martin Group**

KLS Martin Platz 1 · 78532 Tuttlingen · Germany  
PO Box 60 · 78501 Tuttlingen · Germany  
Tel. +49 7461 706-0 · Fax +49 7461 706-193  
info@klsmartin.com · www.klsmartin.com