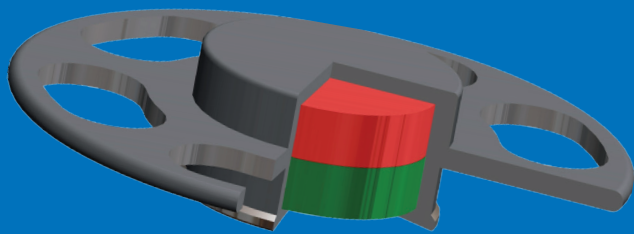




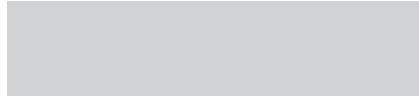
Product catalog extra oral

Titanmagnetics® for maxillo-facial prosthetics



Online catalog and manual 07.2024

Your customer number:



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Hjalmar Stemmann
Graduate Economist and
Certified Dental Technician



Dear customers,

Welcome to Steco! We would like to present our company and our products.

Our family-run business, steco-system-technik GmbH & Co. KG, was founded in 1996 by my father master dental technician Hartmut Stemmann and me. However, our dental roots go back over 100 years to when my great-grandfather came back to Hamburg (Germany) as a lay barber after his journeyman years following completion of his barber apprenticeship. In the late nineteenth century prostheses made from the new material, caoutchouc, gave dentistry and maxillofacial prosthetics and also the facial prosthetics a new direction. For the first time, it was possible to achieve aesthetically acceptable results with an exogenous substance (not from the body). The development of methyl methacrylate in the 1930s was the next big step. My mother, also a master dental technician, has made (hard) prostheses in the 1970s. Using today silicones and magnets facial prosthetics has once again made a great leap.

The development of application-oriented products has been at the heart of our work since its inventive beginnings. Since the early 1980s, we have been offering magnetic anchoring for the facial prosthetics. We have been working on implant planning since the mid-1990s. Together with users, we have been continuously developing our products. Even tried and tested products can be improved. This means that our products are known worldwide for their outstanding quality and have received multiple awards.

As a responsible medical device manufacturer, an actively practised quality management system is a matter of course for us. With the ambition: „Quality is the fulfilment of requirements“, we develop, design, produce and distribute our products, produce and distribute our products. Our quality management system is certified according to the standard EN ISO13485:2016 certified. Feedback from our customers is particularly important to us. We can only make our products even better with information from our users. If you have any reason to complain about our products, please let us know. We are also happy to receive your suggestions.

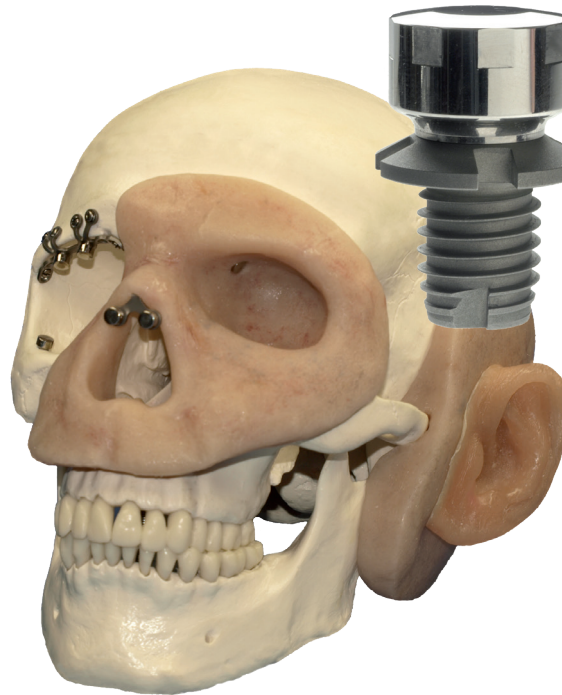
We are delighted that you are interested in our products.



Hjalmar Stemmann
Managing Director, Owner



Wir machen mit!



Which prosthetic treatment is to be made?



Prosthesis on implants



Obturator



Which implant system?

- Ahead (BioComp Industries)
- External Hex (e.g. Southern Implants)
- Epitec Grid (Stryker-Leibinger)
- EO (Straumann)
- Ti-Epiplating (Medicon)
- Vistafix 3 (Cochlear)

Which defect?

- Maxilla
- Palate
- Nasal septum



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Titanmagnetics®

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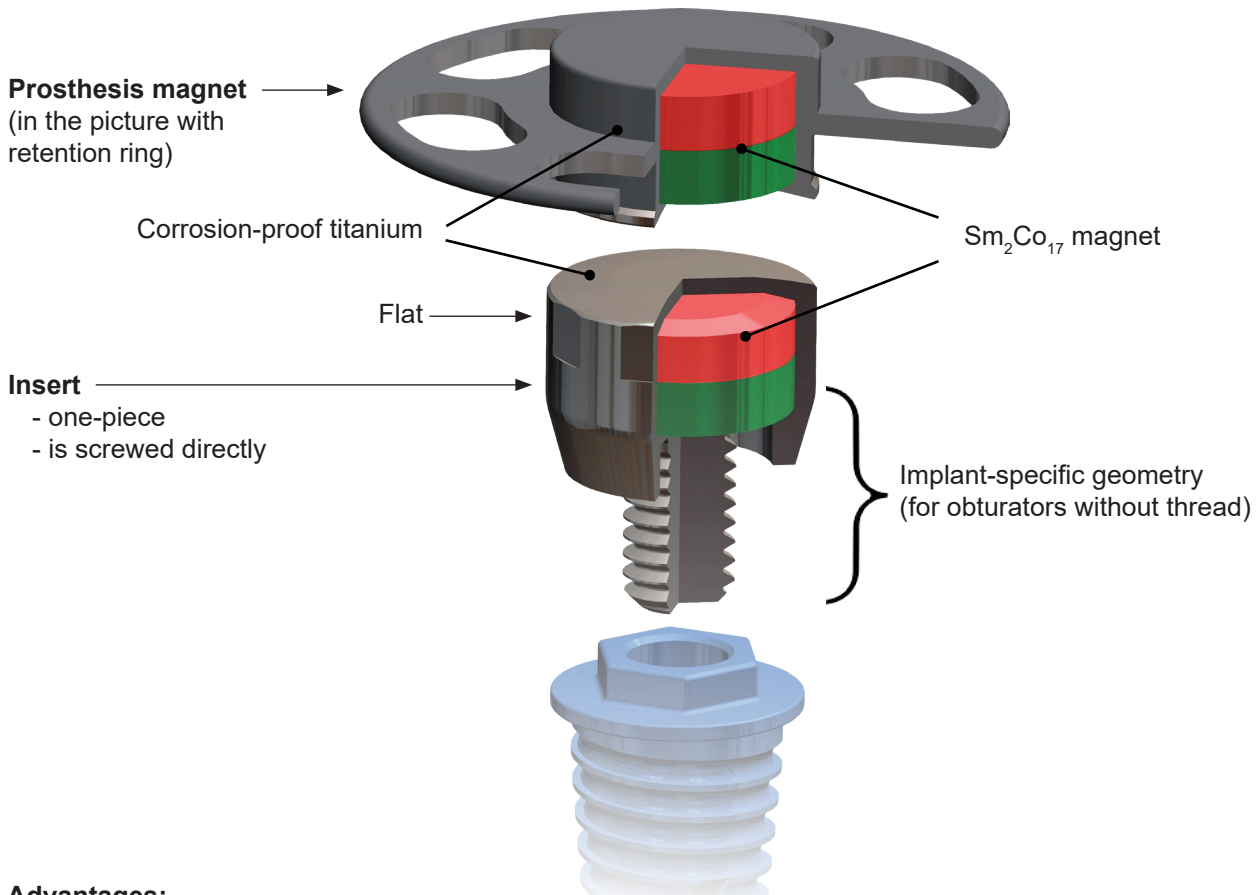
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All marked in the catalog with *) asterisk product numbers refer to the products that are sold exclusively through selected implant manufacturers. For the correctness of the foreign numbers we take no responsibility. The implant names mentioned on this and the following pages are trademarks of their respective manufacturers.

The construction principle

The Titanmagnetics system consists of magnetic implant abutments (inserts) and corresponding counter magnets (prosthesis or denture magnets). The inserts are available in several abutment heights for most implant systems. There are also different product lines that differ in shape, strength and lateral guidance.

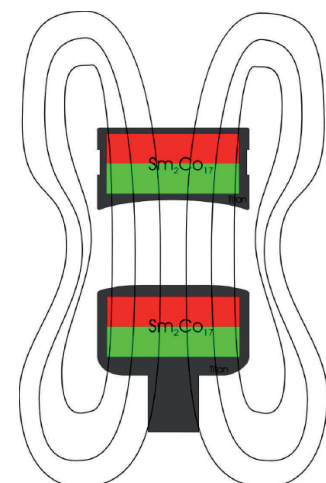


Advantages:

- easy to use → the prosthesis is easy to apply and detach
- easy to clean → polished surfaces, no undercuts
- value for money → no changing of matrix required
- universal → multiple product lines for all major implant systems

Two magnets – Longer effective distance

The use of two active magnets (bi-magnet system) is unique to the Titanmagnetics system. With the resulting open magnetic field, the distance of the withdrawal force is longer than in systems with only one active magnet (mono-magnet system).

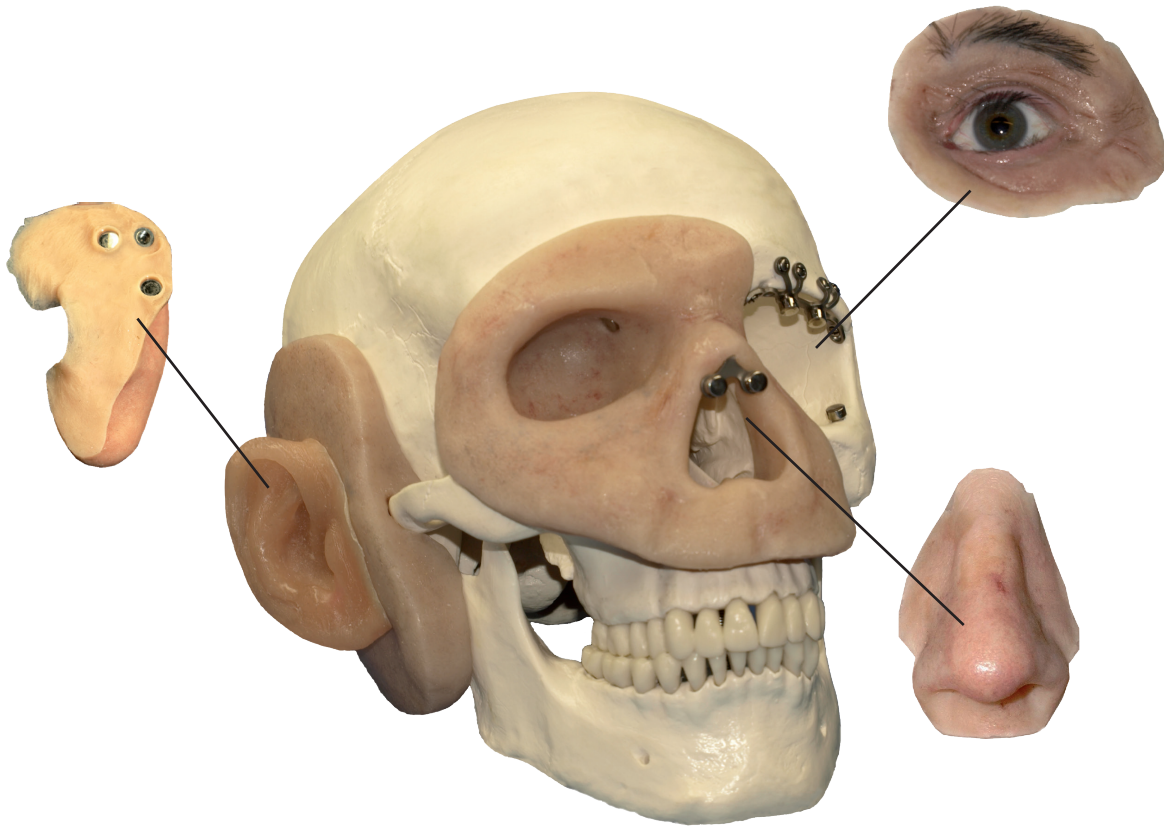


Autoclavable und corrosion-proof

We use samarium-cobalt magnets because they can be sterilized in an autoclave. Our magnets are welded corrosion-proof in titanium.










Magnetic retention for facial prostheses

Prostheses are usually designed to be removable. In addition to adhesives or glasses, mainly small implants are used to attach prostheses. Magnets, bars or snaps are attached to these implants. Due to their hygienic surface and the tension-free fit, Titanmagnetics have many advantages over other holding elements. The self-centering positioning of magnetically held prostheses makes handling easier for the patient.



Which product line is suitable for which defect?

Four different product lines are offered for facial prosthetics, which are explained in more detail on the following pages. X- and Z-Line are suitable for almost all applications in facial prosthetics because they can be used regardless of the direction of insertion (exception for prosthesis magnets with a collar). The T-Line was specially developed for auricular prostheses. Its telescopic shape enables the prosthesis to be lifted by the masticatory muscles. But T-Line magnets can also be used for nasal prostheses. The K-Line is suitable for all indications in which lateral stabilization of the prosthesis is important and the direction of insertion does not play a significant role.

Defect					
	X-Line	Z-Line	T-Line	K-Line	W-Line
 Nose	X	X	X	X	
 Auricle	X	X	X	X	
 Orbita	X	X			
 Nasal septum					X

Spherical magnets (X-Line/ Z-Line)

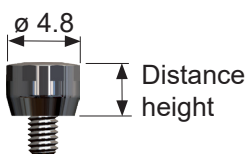
The slightly curved surface of the spherical Titanmagnetics is self-centering and has a lowest lateral force introduction into the implant. X-Line and Z-Line are therefore particularly suitable for short implants. Due to the absence of the lateral steering they are also applicable on highly divergent implants.

Eight (X-Line) or ten (Z-Line) small wrench surfaces on the circular casing of the inserts are used for the form-fitting connection to an insertion instrument (torque wrench adapters, see page 12). Prosthesis magnets with retention rings are available especially for attachment in silicone. For additional retention, the X-Line and Z-Line prosthesis magnets are also available with collar.

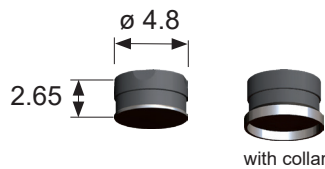
With a pull-off force of 3.0 N (300 g), the Z-Line has almost twice as much force as the X-Line with 1.6 N (163 g), but its dimensions are also larger. With the Z-Line the head diameter is 5.8 mm, with the X-Line 4.8 mm. The build-up height of the inserts differs depending on the implant system.

X-Line

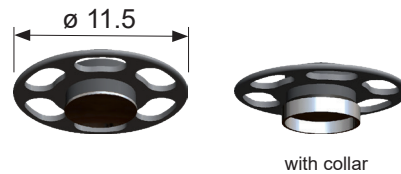
Insert



Prosthesis magnet



For acrylic

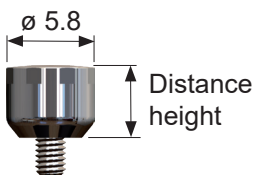


For silicone

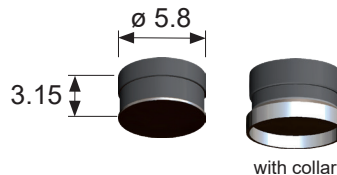


Z-Line

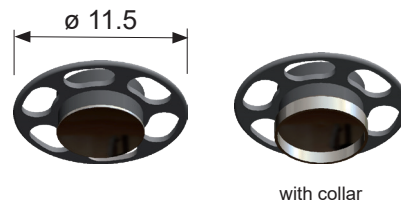
Insert



Prosthesis magnet



For acrylic



For silicone



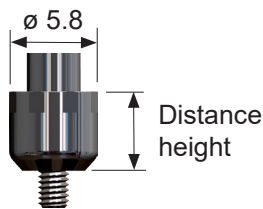


Teleskopik magnets (T-Line)

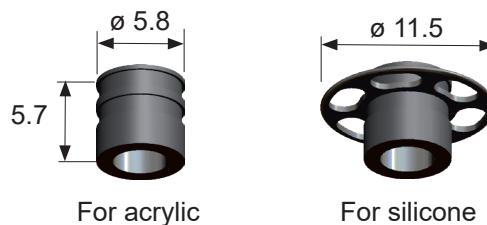
The T-Line was developed specifically for the use in auricular prostheses. Their telescoping form allows guided lifting by the muscles of mastication. T-Line magnets can be used for nasal prostheses, too. The telescopic bearing of 2.5 mm allows the facial prosthesis secure fixation on the tissue. At the same time it allows a certain rotation and axial movement without losing the withdrawal force. The T-Line is not allowed for dental use!

The withdrawal force is 1.4 N (143 g). The head diameter is 5.8 mm and is therefore the same as the Z-Line. With two exceptions, the T-Line inserts are only available in one abutment height for the specific implant. Ten small wrench surfaces on the circular sheathing of the inserts are used for the positive connection to an insertion instrument (torque wrench adapters, see page 12), which can also be used for Z-Line inserts.

Insert



Prosthesis magnet

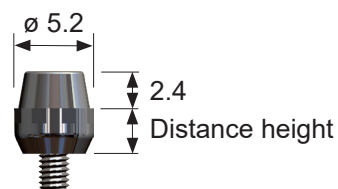


Conical magnets (K-Line)

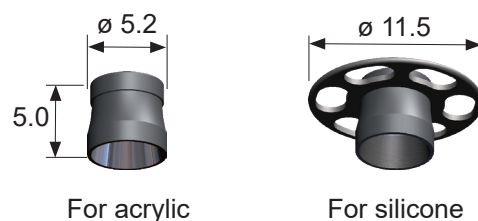


The Titanmagnetics K-Line has a conical shape (10° cone angle), which stabilizes prostheses against lateral displacement. The K-Line is suitable for all indications, which require a lateral stability of the prosthesis and the insertion direction is irrelevant. The withdrawal force is 1.6 N (163 g). The head diameter is 5.2 mm. Depending on the implant system, inserts are available with up to four abutment heights. Ten small wrench surfaces on the circular sheathing of the inserts are used for the form-fitting connection to an insertion instrument (torque wrench adapters, see page 12).

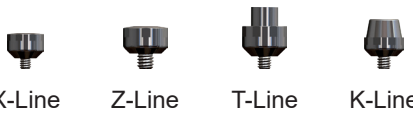
Insert




Prosthesis magnet



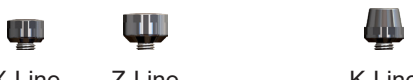
Implant system / Insert	Product line	Height	REF
-------------------------	--------------	--------	-----


Ahead (BioComp Industries)			
 X-Line Z-Line T-Line K-Line	X-Line, \varnothing 4.80 mm	2.75 mm	EO-2514-48SX27*
	Z-Line, \varnothing 5.80 mm	3.25 mm	EO-2514-58SZ32*
	T-Line, \varnothing 5.80 mm	3.00 mm	EO-2514-48ST30*
	K-Line, \varnothing 5.20 mm	1.75 mm	EO-2514-52SK17*

* Orders to be made via the company BioComp Industries.


External Hex (Southern Implants IE , Brånemark, Ponto u.a.)			
 X-Line Z-Line T-Line K-Line	X-Line, \varnothing 4.80 mm	3.50 mm	I.02.01.X350
		5.00 mm	I.02.01.X500
		6.50 mm	I.02.01.X650
		8.00 mm	I.02.01.X800
	Z-Line, \varnothing 5.80 mm	4.75 mm	I.02.01.Z475
		6.00 mm	I.02.01.Z600
		7.00 mm	I.02.01.Z700
		8.00 mm	I.02.01.Z800
	T-Line, \varnothing 5.80 mm	5.20 mm	I.02.01.T520
		7.20 mm	I.02.01.T720
	K-Line, \varnothing 5.20 mm	3.00 mm	I.02.01.K300
		4.50 mm	I.02.01.K450
		6.00 mm	I.02.01.K600


The Titanmagnetics inserts for Epitec are no longer available as standard.
If required, please contact us.


Epitec Grid, directly (Stryker-Leibinger)			
 X-Line Z-Line K-Line	X-Line, \varnothing 4.80 mm	3.00 mm	I.11.01.X300
		4.50 mm	I.11.01.X450
		6.00 mm	I.11.01.X600
		8.00 mm	I.11.01.X800
	Z-Line, \varnothing 5.80 mm	3.80 mm	I.11.01.Z380
	K-Line, \varnothing 5.20 mm	2.00 mm	I.11.01.K200

Epitec Grid, Implant post (Stryker Leibinger)			
 X-Line T-Line	X-Line, \varnothing 4.80 mm	4.20 mm	I.11.02.X420
	T-Line, \varnothing 5.80 mm	4.50 mm	I.11.02.T450


Implant system / Insert	Product line	Height	REF
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EO (Straumann)			
 X-Line Z-Line T-Line K-Line	X-Line, \varnothing 4.80 mm	3.25 mm	I.36.01.X325
		5.50 mm	I.36.01.X550
		7.25 mm	I.36.01.X725
		9.00 mm	I.36.01.X900
	Z-Line, \varnothing 5.80 mm	3.75 mm	I.36.01.Z375
		6.50 mm	I.36.01.Z650
		8.00 mm	I.36.01.Z800
	T-Line, \varnothing 5.80 mm	5.50 mm	I.36.01.T550
	K-Line, \varnothing 5.20 mm	3.00 mm	I.36.01.K300

Ti-Epiplating, Prostheses plates (Medicon)			
 X-Line Z-Line T-Line K-Line	X-Line, \varnothing 4.80 mm	2.60 mm	68.80.68*
		4.50 mm	I.34.01.X450
		6.00 mm	I.34.01.X600
		8.00 mm	I.34.01.X800
	Z-Line, \varnothing 5.80 mm	4.50 mm	I.34.01.Z450
	T-Line, \varnothing 5.80 mm	4.00 mm	I.34.01.T400
	K-Line, \varnothing 5.20 mm	2.50 mm	I.34.01.K250
		4.50 mm	I.34.01.K450

Ti-Epiplating, Base post (Medicon)			
 X-Line Z-Line T-Line K-Line	X-Line, \varnothing 4.80 mm	2.60 mm	68.80.69*
	Z-Line, \varnothing 5.80 mm	3.30 mm	I.34.02.Z330
	T-Line, \varnothing 5.80 mm	3.00 mm	I.34.02.T300
	K-Line, \varnothing 5.20 mm	2.00 mm	I.34.02.K200

* Orders to be made via the company Medicon.

Vistafix 3 (Cochlear)			
 X-Line Z-Line T-Line	X-Line, \varnothing 4.80 mm	2.75 mm	I.66.02.X275
		4.50 mm	I.66.02.X450
	Z-Line, \varnothing 5.80 mm	4.00 mm	I.66.02.Z400
		5.50 mm	I.66.02.Z550
	T-Line, \varnothing 5.80 mm	3.50 mm	I.66.02.T350
		5.00 mm	I.66.02.T500

Impression

To make a new prosthesis, each product line has its own compatible impression post and laboratory replica.

Impression post

- magnetic impression without screws
- locks magnetically to the insert
- the external geometry ensures the impression material is securely fixed
- for the K-Line, the prosthesis magnet is used



Laboratory replica






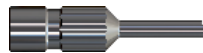






- for making models quickly and hygienically
- the original implant does not have to be used on the insert
- there is no need for time-consuming cleaning

Torque wrench adapter

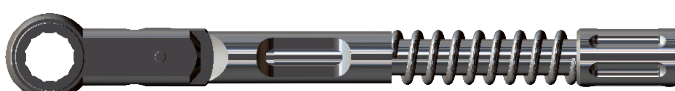
An insert is screwed directly into the implant. For this purpose the appropriate torque wrench adapter is used. The insert is tightened with 20 Ncm. Torque wrench adapters are available for all product lines and the various torque wrenches. Due to the same head diameter, the torque wrench adapter for the T-Line can also be used for the Z-Line.



























- Positive-locking socket spanner principle for screwing in the insert
- Suitable for all standard torque wrenches
- Safe handling thanks to magnetic coupling



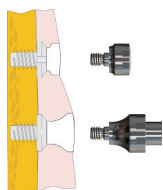
Fit to this torque wrench:		X-Line	T-Line/ Z-Line	K-Line
Square connection (US-Pat.) fit to Dynatorq, Dentsply (old), Screw-Vent, Steri-Oss				
	REF	H.00.04.X1	H.00.04.T1	H.00.04.K1
ISO 204 (contra angle)				
	REF	H.00.04.X2	H.00.04.T2	H.00.04.K2
Hexagonal connection fit to Bredent, Camlog, IMZ, prowital				
	REF	H.00.04.X3	H.00.04.T3	H.00.04.K3
Straumann				
	REF	H.00.04.X4	H.00.04.T4	H.00.04.K4

Torque wrench hexagonal connection

Fit to:		Universal
Hexagonal connection H.00.04.X3 H.00.04.T3 H.00.04.K3		
	REF	O.00.01.DMR20

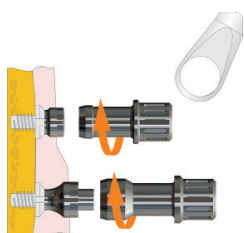
Inserts (Examples)	Impression post	Labora replica	Prosthesis magnets
<p>X-Line</p>  <p>Page 10/11</p>	<p>A.00.02.X695 Auricle / Nose</p>  <p>A.00.01.X555 Orbita</p> 	<p>M.00.01.X900</p>  <p>M.00.01.X1600</p> 	<p>U.00.01.X265R</p>  <p>U.00.02.X265</p>  <p>U.00.01.X265K with collar</p>  <p>U.00.02.X265K with collar</p> 
<p>Z-Line</p>  <p>Page 10/11</p>	<p>A.00.02.Z695</p> 	<p>M.00.01.Z1000</p> 	<p>U.00.01.Z315</p>  <p>U.00.02.Z315</p>  <p>U.00.01.Z315K with collar</p>  <p>U.00.02.Z315K with collar</p> 
<p>T-Line</p>  <p>Page 10/11</p>	<p>A.00.02.T750</p> 	<p>M.00.01.T1050</p> 	<p>U.00.01.T570</p>  <p>U.00.02.T570</p> 
<p>K-Line</p>  <p>Page 10/11</p>	<p>U.00.01.K500</p> 	<p>M.00.01.K750</p> 	<p>U.00.01.K500</p>  <p>U.00.02.K500</p> 

Using the example of an auricular prosthesis with Straumann implants EO



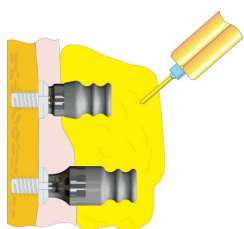
STEP 1 - Selection of the right insert

Select the appropriate product line according to the space limitations. Then choose the construction height according to the soft tissue height. The insert should be ~ 1 mm higher than the soft tissue.



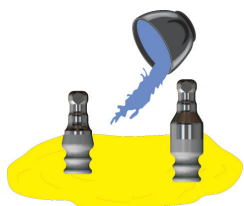
STEP 2 - Screw in the selected inserts

Use a torque wrench to screw in the selected insert at a torque of 20 Ncm. Never screw in the insert with pliers or manually to avoid damages on inserts or implant or loose fit!



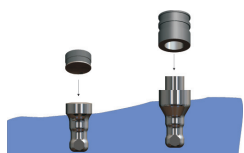
STEP 3 - Impression

For impression use the specific impression post offered for each product line. For K-Line, use the corresponding prosthesis magnet.



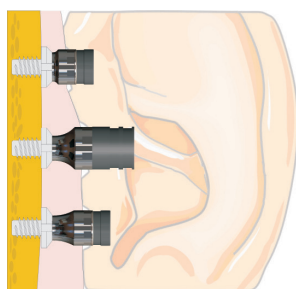
STEP 4 - Model preparation

Place laboratory replica into the impression post. It will be magnetically positioned and held in place. The model should be made of an edge-stable dental plaster stone or model acrylic (in implant positions).



STEP 5 - Fabrication of the prosthesis

A prosthesis can be made of acrylics or silicone using different methods. Prosthesis magnets for acrylic or with additional retention ring for silicone are available for all product lines. For correct positioning of prosthesis magnets an acrylic base to block the position is recommended. It can be referred by means of bonding agents into silicone as well.



STEP 6 - Finalization

Make sure not to damage the titanium housing or to overheat the magnets during polymerization or vulcanization. The magnetic core is permanently temperature resistant up to 250° C. For stable fixation the retention notches or retention ring of the prosthesis magnets have to be filled with prosthetic material.

Patient pass extraorally

The patient pass is a useful tool in patient communication. Fully completed, it provides the appropriate data for each examination or in case of an exchange. It also contains important information on the handling of the magnet, which should be respected by patients, clinicians and radiologists.

REF K.00.68.EN02

<p>Notes for the patient:</p> <p>Please note the following information of your prosthesis and give these instructions to the clinician in charge. Always carry the passport with you wherever possible.</p> <ul style="list-style-type: none"> Please avoid direct contact of data carriers or credit cards (e.g.) because the data contained on it can be damaged or lost. The magnetic field can interfere with mobile devices in individual cases (for example near the ear). Loose Titanmagnetics® inserts must be retightened immediately. Loose screws could result in a fracture of the component. In case of any damage, please contact your clinician and send the defective part to our respective national dealer, stating the lot number (LOT). Please return to the clinician at least every six months for check-up. 	<p>Notes for the patient:</p> <ul style="list-style-type: none"> When dealing with magnetic tools or objects (hairdressing scissors, razor, etc.) please take care, as the magnetic implants could attract these objects. Non-magnetizable tools should be used to avoid injury. Staying in rooms with magnetizable dust (e.g. iron) should be avoided. These are difficult to remove from Titanmagnetics and can cause skin irritation. The magnetic field generated by the Titanmagnetics® isn't that strong to risk any danger to pacemakers. The small Titanmagnetics® are usually not detected by metal detectors, however metallic implants may trigger metal detectors. Patients should use the patient passports as proof that they are the recipient of a metallic medical device. 	<p>Notes for the patient:</p> <ul style="list-style-type: none"> Please avoid strong electromagnetic field (e.g. substations) as they might damage the magnets. Magnet abutments and the facial prostheses with magnets must be removed before performing MRI diagnoses (Magnetic Resonance Imaging). This is too prevent any damage to the magnet and possible injury (superficial burns) and/or discomfort to the user (vibration sensation). X-ray examinations or CT scans aren't associated with any risk.
<p>Patient passport extraorally </p> <p>The person presenting this document wears a facial prosthesis with magnetic components (Titanmagnetics®) </p> <p>Le propriétaire du passeport de ce patient porte une prothèse faciale avec des composants magnétiques.</p> <p>El titular de pasaporte de este paciente tiene una prótesis facial con componentes magnéticos.</p> <p>Der Eigentümer dieses Patientenpasses trägt eine Epithese mit magnetischen Komponenten.</p>		
<p>Patient</p> <p>Name:</p>		
<p></p> <p>The function of the products may be affected. Do not exceed 300 mT (3000 gauss)</p>		
<p>Manufacturer: steco-system-technik GmbH & Co. KG Germany • Tel. +49 (0)40 55 77 81-0 E-Mail info@steco.de • www.steco.de</p>		

<p>Patient information</p> <p>Name:</p> <p>First name:</p> <p>Birthday: (DD.MM.YYYY)</p> <p>Address:</p> <p>Clinic:</p> <p>Doctor:</p> <p>Facial prosthetic institute:</p> <p>Date: Signature Doctor or Anaplastologist</p>	<p>Notes for the operator / Anaplastologist</p> <p>Titanmagnetics® inserts and prosthesis magnets are intended for single use only. Reuse is not allowed. Patients should return to the practice for a six months recall in order to check the magnets for screw loosening, wear of the titanium housings and the correct seating of the prosthesis. The necessity of a reline should be observed. Loose inserts have to be fixed immediately by using the appropriate torque wrench and lightened to the appropriate torque value.</p> <p>In case of a damaged titanium housing, the parts should be replaced as soon as possible. Damaged titanium housing leads to corrosion of the magnetic alloy (Sm,Co₂) and could result in further damaging of the housing. Patients could experience further skin irritations caused by the corrosion of products.</p> <p>Under the above conditions, we guarantee the product for 5 years against wear caused by abrasion.</p> <p>In the event of this happening, please send the defective part as well as a copy of this warranty booklet (and LOT number) to: steco-system-technik GmbH & Co. KG Kollastr. 6, 22529 Hamburg, Germany</p>	<p>IMPORTANT for traceability!</p> <p>Used Titanmagnetics components</p> <table border="1"> <thead> <tr> <th>Position</th> <th>REF</th> <th>LOT</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>Used implants (additional Information)</p> <table border="1"> <thead> <tr> <th>Position</th> <th>Manufacturer</th> <th>REF</th> <th>LOT</th> <th>Description</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Position	REF	LOT																															Position	Manufacturer	REF	LOT	Description																																																		
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Patient pass intraoral

The patient pass for intraoral prostheses is suitable for obturator patients, as the position of the implants can be marked here in the tooth diagram.

REF K.00.43.EN02

<p>Notes for the operator</p> <p>StecoTitanmagnetics® inserts and denture magnets are intended for single use only. Reuse is not allowed. Patients should return to the practice for a six months recall in order to check the magnets for screw loosening, wear of the titanium housings and the correct seating of the denture.</p> <p>The necessity of an reline should be observed. Loose inserts have to be fixed immediately by using an appropriate torque wrench insert with appropriate tightening torque.</p> <p>In case of a damaged titanium housing, the affected parts have to be exchanged as soon as possible. Damaged titanium housing leads to corrosion of the magnet alloy (Sm,Co₂) and with this to progressive damaging of the housing. Skin irritations caused by corrosion products can not be excluded.</p> <p>In compliance with the warnings, we guarantee at least 5 years of durability without abrasion.</p> <p>In the case of damage, please send the defective part as well as a copy of this warranty booklet to: steco-system-technik GmbH & Co. KG Kollastr. 6, 22529 Hamburg.</p>	<p>Notes for the patient</p> <ul style="list-style-type: none"> Please clean the prosthesis thoroughly twice a day as well as the magnet superstructures. Use only normal tooth or prosthesis brushes for cleaning. Do not use metal or sharp edged objects. Please make sure that there are no food leftovers under the prosthesis. Please return to the dentist at least every six months for check-up. Let all your check-ups confirm in this booklet. There is no risk for cardiac pacemaker caused by magnets. <p>Warnings </p> <ul style="list-style-type: none"> Loose screws have to be retightened immediately to prevent their breakage. Please contact your dentist immediately. If the titanium housing is damaged (perforation), parts must be exchanged by your dentist immediately! Otherwise the intra-orally unstable magnet alloy (Sm,Co₂) could be released. This would lead to corrosion thus reducing the magnet field and leading to further destruction. Please avoid strong elektromagnetic fields (e.g. substations), because these might damage the magnets. 	<ul style="list-style-type: none"> Magnet abutments and denture magnets must be removed before performing MRI diagnoses (Magnetic Resonance Imaging). Otherwise the magnet can be damaged. Your doctor has appropriate instruments. The strong magnetic field in MRI can destroy the magnetic cells of the implant. Metallic implants can in extreme cases, cause local burns and vibrations. X-ray examinations or CT scans are unproblematic. <p></p> <p>Check-up appointments</p> <p>Date:</p> <p><input type="checkbox"/> Did check-up within 14 days after check-up?</p> <p><input type="checkbox"/> Screw check</p> <p><input type="checkbox"/> Relining</p> <p style="text-align: center; font-size: 2em; font-weight: bold;">1</p> <p style="text-align: center;">Dentist stamp and signature</p>																																																									
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What are obturators?

Obturators are used to close, cover or to fill large defects. In case of difficult geometries or for easier supply or removal of larger obturators it is helpful to built segmented obturators. The single parts can be coupled with magnets. Our special obturator magnets are available in different strengths for acrylic or with additional retention ring for silicone. Split obturators can be closed with a prosthetic base. In the case of extensive midfacial defects, a multi-part coupling with an orbital and / or nasal prosthesis is also possible.



Step-by-step to the obturator

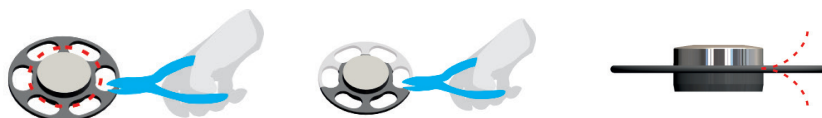
Fabrication of the model

The fabrication of the model depends on the extent of the defect and the planned rehabilitation. For regional defects, a conventional stone model might be adequate. For extended defects, multi-partial models might be required. Sometimes, it is necessary to fabricate models for interim stages.



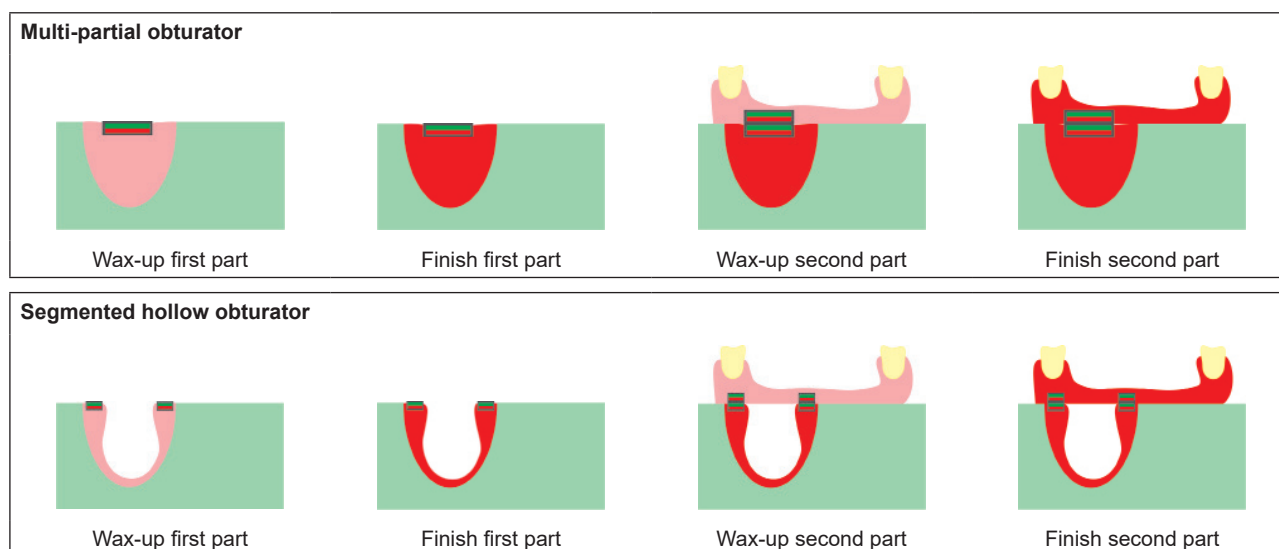
Selection of the suitable magnet

Select the suitable size and strength (product line) of the obturator magnets from the product line range. Combine components of the same product line only! For better retention in silicone, use corresponding obturator or prosthesis Titanmagnetics with retention ring. The retention ring can be cut and bend to adjust to space conditions. Please make sure not to damage the magnet capsule!



Fabrication

Depending on the construction of the multi-partial obturators, different fabrication steps might be required. Usually, there are multiple steps to fabricate a segmented obturator. Please make sure to combine parts only from the same product line (X-Line, Z-Line, W-Line)! The selection of the product line is dependent on the size of the defect and the required retention force. Following examples shorty illustrate the procedure of the fabrication of a multi-partial obturator.





What is a nasal septum prosthesis?

Nasal septum prostheses can close these defects if the nasal septum is completely perforated. The septal defect is usually in the area of the cartilaginous nasal septum. A septal perforation can lead to stressful functional disorders of the nose. Nasal breathing and air conditioning are affected. A forced perforation can also lead to control of the nasal shape.

Nasal septum prostheses are used where the surgical closure of the open septal defect is no longer possible or only with sufficient access. If the nasal septum prosthesis is made in two or more parts, magnets are a good choice for coupling. Nasal septum prostheses can be made of silicone, acrylic or a combination of both materials.



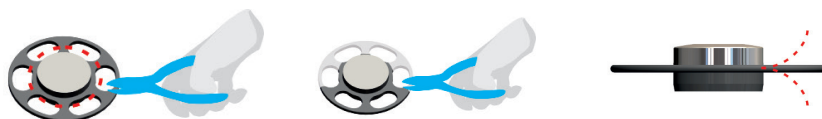
Step-by-step to a nasal septum prosthesis

Impression and fabrication

Taking impression from septal perforations is very difficult and is sometimes done with anesthesia under medical supervision. The fabrication of the model can be done based on conventional impression method in plaster or model plastic. Data from computer-aided imaging processes are also increasingly used for additive model production in 3D printing.

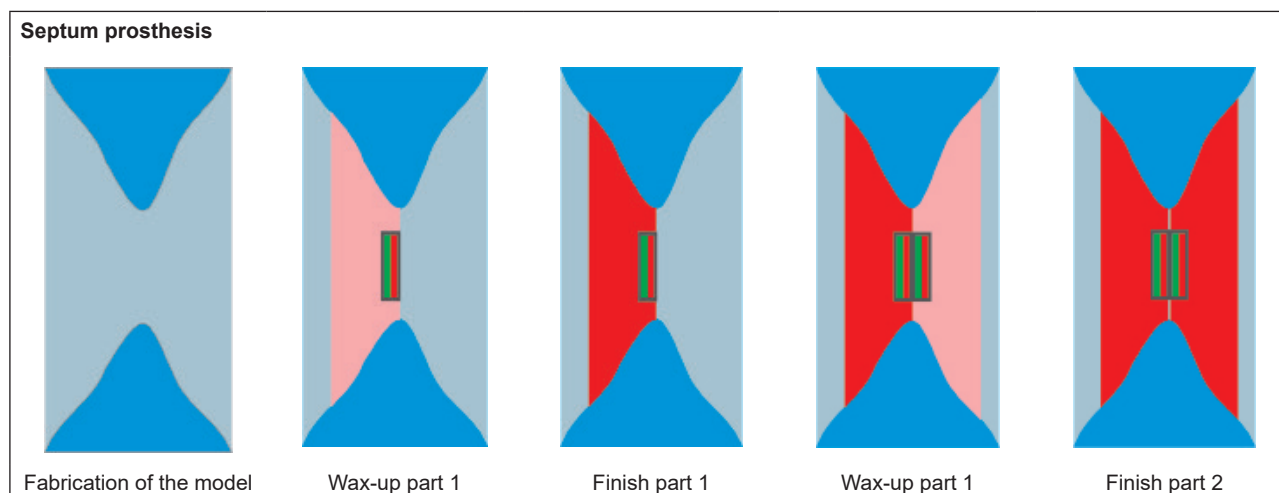
Selection of the suitable magnet

Select the suitable size and strength (product line X-Line, Z-Line, W-Line) of the obturator magnets from the product line range. Combine components of the same product line only! For better retention in silicone, use corresponding obturator or denture Titanmagnetics with a retention ring. The retention ring can be cut and bend to adjust to space conditions. Please make sure not to damage the magnet capsule!



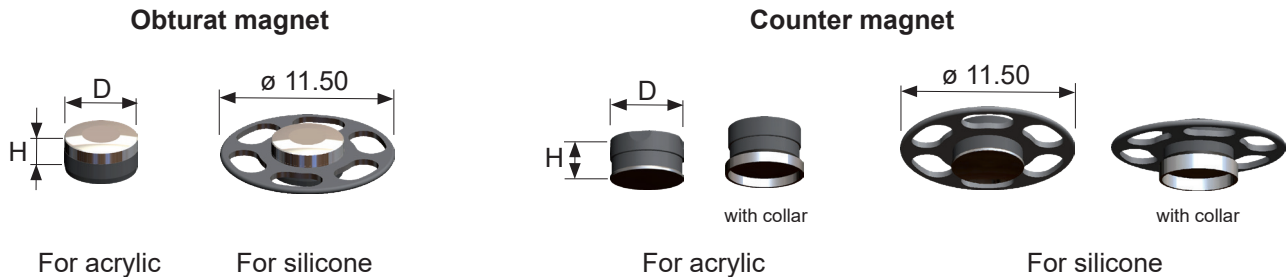
Fabrication

Depending on the construction of the two-part nasal septum prosthesis, different fabrication steps might be required. Usually, there are multiple steps to fabricate a two-part nasal septum prosthesis. Please make sure to combine parts only from the same product line (X-Line, Z-Line, W-Line)! The selection of the product line depends on the size of the defect and the required retention force. Following examples shortly illustrate the procedure of the fabrication of a two-part nasal septum prosthesis.



Spherical magnets (X-Line/ Z-Line)

Our special obturator magnets are available in two different strengths for acrylic and with an additional retention ring for silicone. The diameter of the X-Line (4.8 mm) is 1 mm smaller than the diameter of the Z-Line (5.8 mm). The withdrawal force of the X-Line is 1.6 Ncm (163 g) and of the Z-Line 3.0 Ncm (300 g).



Height (H):
 X-Line: 2.50 mm
 Z-Line: 3.00 mm

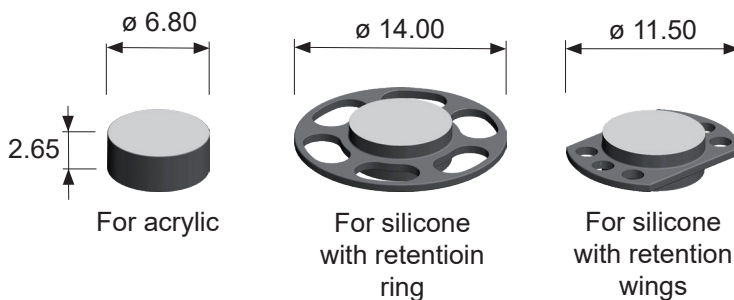
Diameter (D):
 X-Line: 2.65 mm
 Z-Line: 3.15 mm

Height (H):
 X-Line: 2.65 mm
 Z-Line: 3.15 mm

Diameter (D):
 X-Line: 2.65 mm
 Z-Line: 3.15 mm

Plane magnets (W-Line)

With a 10% higher withdrawal force (3.3 Ncm) like the Z-Line, they are only as high as the counter magnets of the X-Line. We achieve this with a larger diameter, which at 6,8 mm is exactly 1 mm more than with the Z-Line. Their advantage is that they attract over a much greater distance than the titanium magnetics of the X- or Z-Line. At a distance of 5 mm there is still an attractive force of 0.7 Ncm (compared to 0.1 Ncm for T-Line). This makes larger or less accessible obturators possible. The contact surfaces are flat and can be used from both sides.



Obturator- / Septum-magnets	Impression post	Laboratory replica	Modelling tool	Counter magnets
-----------------------------	-----------------	--------------------	----------------	-----------------

X-Line

V.00.01.X250



V.00.02.X250



A.00.02.X695
Auricle / Nose



A.00.01.X555
Orbita



M.00.01.X900



M.00.01.X1600



M.00.04.X103
or
M.00.04.X123



U.00.01.X265R



U.00.02.X265



U.00.01.X265K
with collar



U.00.02.X265K
with collar



Z-Line

V.00.01.Z300



A.00.02.Z695



M.00.01.Z1000



U.00.01.Z315



U.00.02.Z315



U.00.01.Z315K
with collar



U.00.02.Z315K
with collar



W-Line

V.00.07.W265



V.00.06.W265

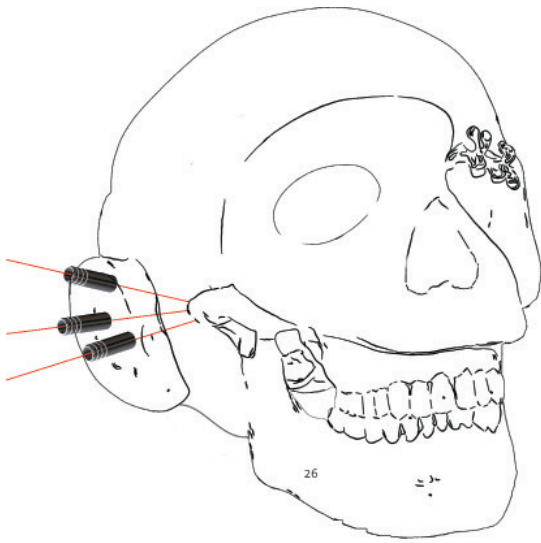


V.00.08.W265



No further equipment is available for the W-Line.

Drill sleeves for every case



Digital planning

3D planning is more and more used in treatment of facial defects. Surgical treatment and implantations become better and more foreseeable.



Drilling sleeves for implant planning and surgery

From simple diagnostic planning to a full digital implant process chain, a range of different sleeves can be used. StecoGuide offers different types of drill sleeves for planning and drilling templates.

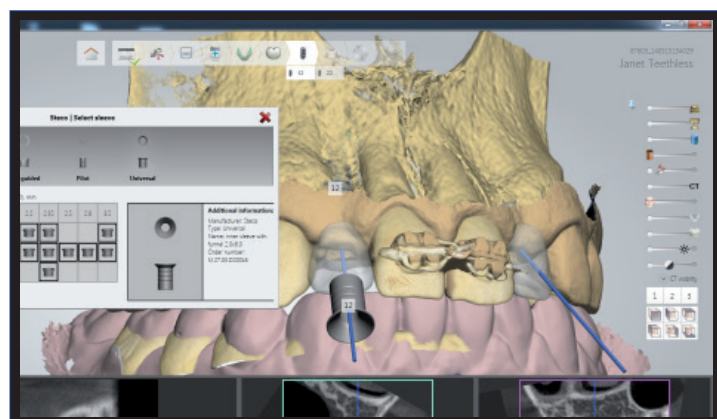
Which drill sleeve for what?

The drill sleeve to be chosen depends on the planned type of drilling template. For simple planning templates, different sleeves are required from those used for surgical templates, with which guide drills and the implant have to be guided. In addition, drilling accuracy requirements will determine choice of sleeve diameter.



Software integration

The geometry data of Steco sleeves is stored in many implant planning programs. For example: Dentalwings coDiagnostiX, 3Shape Implant Studio, Swissmeda SMOP, med3D, Sicat and other. In some programs, the sleeves have different names. Example: for 3Shape Implant Studio, the titanium single sleeve is called a pilot sleeve and the titanium double sleeves are called universal sleeves.



Ask for our sleeve overview or browse the download area of our website!
www.steco.de/en/download/

We are here for you

Monday to Friday
8:30 a.m. to 5:00 p.m.

Telephone: **+49 (0)40 - 55 77 81-0**
WhatsApp: **+49 (0)173 - 497 25 72**
Skype: **steco.beratung2**

Out of our business times you can give your order by mailbox/voice,
by telefax **+49 40 55 77 81-99**
or by email **info@steco.de!**

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Spain: KUSS Dental, Madrid
Poland: HT Dental, Germany

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monday to friday till 3:00 p.m.

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Germany are different. Please contact us!

You tell us, where to deliver!

We send you the invoice, the delivery goes to the address you wish.

Law of return

- during 14 days
- pre-announcement by telephone or e-mail
- only in undamaged packaging
- please fill in the slip of return
- please take absolute a padded envelope or a box/carton
- no acceptance of unfrree shipments
- in case of losing products due to uncorrect packaging,

Safety, liability and warranty

Advice is given verbally, in writing, via electronic media or through demonstrations by our trained medical device consultant. Nevertheless, this does not exempt the user from the obligation of personally testing the product to ensure that it is suitable for the intended purposes/procedures. The user is also obliged to keep up to date with Steco® products (e.g. via visiting our website at www.steco.de) and find out information relating to product application. This applies especially for techniques that have not been expressly recommended. In cases of doubt, users should contact steco-system-technik GmbH & Co. KG.

The user is solely responsible for product processing and application as this is beyond our control. We assume no liability for any damage arising during processing and application. In the case of intra-oral application, our products must generally be safeguarded against aspiration. We guarantee the perfect quality of our products within the framework of our general terms and conditions. Information relating to the existence of patents, trade names or other intangible asset legislation are legally non-binding.

Steco® products must be used only with original components and instruments supplied by the steco-system-technik GmbH & Co. KG. Please comply with the instructions for use and the product data sheet. We assume no liability for warranty or product performance if other components manufactured by a third party are used, as product function can be compromised. The technical advice supplied in relation to the use of our products is based on state-of-the-art science and technology valid at the time of product launch.

Please note

We urgently recommend that you receive instruction in the handling of our products from an experienced user. Steco® products should only be used by doctors, dentists, surgeons, dental technicians and anaplastologists who are familiar with the system.

Validity

The publication of the 07.2024 catalog invalidates all previous information.

Sale, availability

Our products are sold only to dentists, doctors, surgeons, clinicians, dental laboratories and anaplastologists or to persons acting on their behalf. Not all components are universally available. Other trademarks, especially in conjunction with the names of implants, are used regardless of their unconditional availability. The specified product names are the trademarks of the respective manufacturers. Titanmagnetics®, Steco®, StecoForm®, coOrdination® und IMAGO® are listed trademarks of steco-system-technik GmbH & Co. KG.

Packaging unit

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