

Product catalog dental





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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 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 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. Today, implants and full ceramic restorations are standard practice.

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 our dental implants. 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 manufacturer of medical devices, we obviously use a quality management system. "Quality is the fulfillment of requirements" - this is our motto for developing, designing, producing and distributing our products. Our quality management system is EN ISO13485: 9001 2003 + AC 2009 and EN ISO 9001:2008 certified.

We are very keen to receive feedback from our customers. Only through the information provided by our users, can we make our products even better. If you have any complaints about our products, please let us know. We welcome your suggestions.

We are delighted that you are interested in our products.

Hjalmar Stemmann Managing Director, Owner









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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.



Magnet attachments for full dentures

This implant-supported solution is for patients aged 80+ with gout or rheumatism, and especially for geriatric dentistry. Titanmagnetics[®] can also be used with short implants.

The mini magnets can be used for over 60 different implant connections.

Advantages:

- easy to useeasy to clean
- \rightarrow the denture is easy to put in and take out
- → polished surfaces, no undercuts
 → no changing of matrix required
- value for money →
 universal →
 - → multiple product lines for all major implant systems





Dual magnet system

Two open magnetic fields exert a force of attraction over a longer distance than mono-magnet systems.





Spherical magnets

- slightly curved surface
- self-centering
- exert lowest lateral force into the implant
- especially suited for short implants -
- the number at the end of the REF number indicates the height, eg. I.01.02.X325 = 3.25 mm



Conical magnets

- conical 10° form

Head diameter

- absorbs lateral forces
- stabilises the denture to prevent sideways movement
- the recommended minimum length of the implant is 12 mm
- the number at the end of the REF number indicates the height, eg. I.01.02.K150 = 1.50 mm



Equipment



Torque wrench adapter

- suitable for all common torque wrenches
- safe handling thanks to coupling
- safe handling by coupling
- wrench flats for perfect hold

For all compatible ratchets, see page 22.



Positioning cuff / resilience ring

The positioning cuff ensures the denture magnet is polymerised in the right place. The resilience distance prevents the two magnetics coming together.

- protects the implant and tissue
- ideal for chairside use
- resilience distance on the X-Line and Z-Line using the positioning cuff (= 0.3 mm)
- resilience distance on the K-Line using the resilience ring (= 0.3 mm)







Equipment for the laboratory

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



Impression post

Laboratory replicas

- magnetic impression without screws
- lock magnetically to the insert
- the external geometry ensures the impression material is securely fixed

- the original implant does not have to be used on the insert

- for the K-Line, the denture magnet is used

- for making models quickly and hygienically

- there is no need for time-consuming cleaning

X-Line







X-Line



with magnet, coated with titanum



magnetic stainless



K-Line



without magnet, steel

Chairside Direct supply











Titanmagnetics are screwed with a torque of 20 Ncm. There are Torque wrench adapters available for numerous implant-specific torque wrenches.



Put on the resilience rings, positioning cuffs and denture magnet (for example, on the K-Line).



Fill the polished denture base with curing acrylic, insert the dentures and let the acrylic cure.



Basal finishing work on the denture (finished lower denture).



X-Line





New dentures step-by-step





Screw in Titanmagnetics[®] intraorally with 20 Ncm



Never screw in or out with forceps!



Functional impression with impression posts



Jaw relation template fixed by Titanmagnetics®



Wax-up on magnet retained template



Model cast on the doubled model



Magnets fixed in model casted framework



Finished denture



Insert and denture magnet



alphatech [Henry Schein]

Draduat line		Ø 3.4		Ø 3.8		Ø 4.3		Ø 5.0	
FIO	duct inte	н	REF	н	REF	н	REF	н	REF
Ţ	X-Line (ø 4.8)	3.5	886280*	3.5	886281*	3.5	886282*	3.5	886283*

* Orders can be made via the company Henry Schein.

Ankylos C/X [Dentsply Implants]

Dro	duct line	Ø 4.1					
Product line		н	GH	REF			
	X-Line (ø 4.8)	4.4 5.9	1.5 3.0	I.03.04.X440 I.03.04.X590			
	K-Line (ø 5.2)	2.95 4.45	1.3 2.4	I.03.04.K295 I.03.04.K445			
	Z-Line (ø 5.8)	4.4	1.2	I.03.04.Z440			

BoneLevel [Straumann]

Product line		١	IC Ø 3.3	RC Ø 4,1		
		H REF		Н	REF	
	X-Line	3.5	I.01.04.X350	3.5	I.01.05.X350	
	(ø 4.8)	5.0	I.01.04.X500	5.0	I.01.05.X500	
	K-Line	3.0	I.01.04.K300	3.0	I.01.05.K300	
	(ø 5.2)	4.5	I.01.04.K450	4.5	I.01.05.K450	

Brånemark [Nobel Biocare]

Broduct line		RP			WP	NP	
Pro	Product line		REF	н	REF	Н	REF
	X-Line (ø 4.8)	3.5 5.0 6.5	I.02.01.X350 I.02.01.X500 I.02.01.X650	4.35 5.4 6.5	I.02.03.X435 I.02.03.X540 I.02.03.X650	3.5 5.0 6.5	I.02.04.X350 I.02.04.X500 I.02.04.X650
	K-Line (ø 5.2)	3.0 4.5	I.02.01.K300 I.02.01.K450				
ų	Z-Line (ø 5.8)	4.75 6.0	I.02.01.Z475 I.02.01.Z600	4.75 6.0	I.02.03.Z475 I.02.03.Z600		



Bredent Sky [Bredent Medical]

Bro	duct line	Ø 4.0			
FIU	auctime	н	REF		
	K-Line (ø 5.2)	2.0	I.64.01.K200		

BTI [BTI]

Product line			Tiny	Interna		
		Н	REF	Н	REF	
Ŵ	X-Line (ø 4.8)	3.8	TIXL-4838IT*	3.5	TIXL-4835IU*	

* Orders can be made via the company BTI.

Camlog [Camlog]

Draduat lina		Ø 3.3		Ø 3.8		Ø 4.3		Ø 5.0	
Pro	auct ine	н	REF	н	REF	н	REF	н	REF
	X-Line	3.0	I.33.01.X300	3.0	I.33.02.X300	3.0	I.33.03.X300	3.0	I.33.04.X300
	(ø 4.8)	4.5	I.33.01.X450	4.5	I.33.02.X450	4.5	I.33.03.X450	4.5	I.33.04.X450
	K-Line	2.0	I.33.01.K200	2.0	I.33.02.K200	2.0	I.33.03.K200	2.0	I.33.04.K200
	(ø 5.2)	3.5	I.33.01.K350	3.5	I.33.02.K350	3.5	I.33.03.K350	3.5	I.33.04.K350

Conelog [Camlog]

Dre	duct line	Ø 3.8 + 4.3			
Pro	auctline	Н	REF		
	X-Line (ø 4.8)	3.5 5.0	I.58.01.X350 I.58.01.X500		
	K-Line (ø 5.2)	2.5 4.0	I.58.01.K250 I.58.01.K400		
	Z-Line (ø 5.8)	4.0	I.58.01.Z400		

Compress [IGfZ]

Dre		Ø 3.9			
Product line		н	REF		
	X-Line (ø 4.8)	4.50	I.29.01.X450		



Endopore Internal hex [Sybron Implant Solutions]

Product line			Ø 4.1	Ø 5.0		
		н	REF	н	REF	
	X-Line (ø 4.8)	2.75	I.51.01.X275	2.75	I.51.02.X275	
	K-Line (ø 5.2)		I.51.01.K200	2.0	I.51.02.K200	

FairImplant [FairImplant]

Pro	duct line	Fa H	airTwo S REF
	K-Line	3.0	40 35 81*
	(ø 5.2)	4.5	40 35 82*

* Orders can be made via the company FairImplant.

Impladent [Lasak]

Bro	duct line		Ø 3.7
FIU		Н	REF
	X-Line	3.0	I.50.01.X300*
	(ø 4.8)	4.5	I.50.01.X450*
	K-Line	2.25	I.50.01.K225*
	(ø 5.2)	3.5	I.50.01.K350*

* Orders can be made via the company Lasak.

IMZ [Dentsply Implants]

Product line			Ø 3.3	Ø 4.0			
		н	REF	н	REF		
	X-Line (ø 4.8)	3.5 5.0	I.05.01.X350 I.05.01.X500	3.5 5.0	1.05.02.X350 1.05.02.X500		
	K-Line (ø 5.2)	2.25	I.05.01.K225	2.25	I.05.02.K225		
	Z-Line (ø 5.8)	4.0	I.05.01.Z400	4.0 6.5	1.05.02.Z400 1.05.02.Z650		



Neoss [Neoss]

Pro	duct line	*			
		н	REF		
	X-Line	2.75	I.48.01.X275		
	(ø 4.8)	4.25	I.48.01.X425		
	K-Line	2.0	I.48.01.K200		
	(ø 5.2)	3.5	I.48.01.K350		

* Platform for all implant diameters

Nobel Replace Trilobe internal connection [Nobel Biocare]

Product line		Ø 3.5			Ø 4.3	Ø 5.0		
		н	REF	H REF		н	REF	
	X-Line	3.0	I.38.01.X300	3.0	I.38.02.X300	3.0	I.38.03.X300	
	(ø 4.8)	4.5	I.38.01.X450	4.5	I.38.02.X450	4.5	I.38.03.X450	
	K-Line	2.25	I.38.01.K225	2.25	I.38.02.K225	2.25	I.38.03.K225	
	(ø 5.2)	3.75	I.38.01.K375	3.75	I.38.02.K375	3.75	I.38.03.K375	

OT-F¹ [OT Medical], **Pitt-Easy** [ehemals Implant Direct]

Product line		Ø 3.25			Ø 3.75		Ø 4.0		Ø 4.9	
		Н	REF	Н	REF	Н	REF	н	REF	
	X-Line (ø 4.8)	3.5 5.0 6.5	I.16.01.X350 I.16.01.X500 I.16.01.X650	3.5 5.0 6.5	I.16.02.X350 I.16.02.X500 I.16.02.X650	3.5 5.0 6.5	I.16.03.X350 I.16.03.X500 I.16.03.X650			
	K-Line (ø 5.2)	2.25	I.16.01.K225	2.25	I.16.02.K225	2.25	I.16.03.K225			
	Z-Line (ø 5.8)							3.25	I.16.04.Z325	

OT-F² + OT-F³[OT medical]

Product line		Ø 3.4 F2		I	Ø 3.8 F2 + F3	Ø 4.1 F2 + F3		
		н	REF	Н	REF	Н	REF	
	X-Line (ø 4.8)	3.25	I.56.03.X325	3.25	I.56.01.X325	3.25	I.56.02.X325	
	K-Line (ø 5.2)	2.5	I.56.03.K250	2.5	I.56.01.K250	2.5	I.56.02.K250	



Oktagon TL RP [Dental Ratio/ Meisinger]

Bro	duct line	Ø 4.8				
FIU	uuct iille	Н	REF			
	X-Line (ø 4.8)	3.3	I.55.01.X330			

OsseoSpeed TX [Astra Tech / Dentsply Implants]

Dro	ductling	Ø 3.5 + 4.0			
Pro	auctime	н	REF		
V	X-Line (ø 4.8)	3.5 5.0	I.65.01.X350 I.65.01.X500		

prowital [Prowital]

Droduct line		Ø 3.5 (yellow)		Ø	4.3 (red)	Ø 5.0 (blue)		
PIO	auct inte	н	REF	н	REF	Н	REF	
	X-Line (ø 4.8)	3.0 4.5	I.47.01.X300 I.47.01.X450	3.0 4.5	I.47.02.X300 I.47.02.X450			
	K-Line (ø 5.2)			2.0 3.5	I.47.02.K200 I.47.02.K350	2.0 3.5	I.47.03.K200 I.47.03.K350	

Replace external hex [Nobel Biocare]

Due	Broduct line		Ø 3.5		Ø 4.3		Ø 5.0		Ø 6.0	
Product line		н	REF	н	REF	н	REF	н	REF	
	X-Line (ø 4.8)	4.5	I.31.04.X450	4.5	I.31.01.X450	4.5	I.31.02.X450			
	K-Line (ø 5.2)	3.5	I.31.04.K350	3.5	I.31.01.K350					
	Z-Line (ø 5.8)	5.0	I.31.04.Z500					5.0	I.31.03.Z500	

Screw-Vent [Zimmer Dental / Zimmer Biomet]

Dreduct line			Ø 3.5	Ø 4.5		
Product line		н	REF	н	REF	
	X-Line (ø 4.8)	3.0 4.5	I.13.01.X300 I.13.01.X450	3.0 4.5	I.13.02.X300 I.13.02.X450	
	K-Line (ø 5.2)	2.5	I.13.01.K250	2.5	I.13.02.K250	

The inserts for **SIC** are compatible with Screw-Vent ø 3.5



Semados [Bego Implant Systems]

Due	durat line	Ø 3.25 - 4.5				
Pro	auct line	н	REF			
	X-Line (ø 4.8)	4.0 5.5	I.08.01.X400 I.08.01.X550			
	K-Line (ø 5.2)	2.5	I.08.01.K250			
	Z-Line (ø 5.8)	3.0 5.0	I.08.01.Z300 I.08.01.Z500			

Straumann [Straumann]

Dro	ductling	Regular Neck (RN)			
Pro	auct line	Н	REF		
	X-Line (ø 4.8)	3.25 4.75 6.25	I.01.02.X325 I.01.02.X475 I.01.02.X625		
	K-Line (ø 5.2)	1.5 3.0	I.01.02.K150 I.01.02.K300		
Ŵ	Z-Line (ø 5.8)	3.75	I.01.02.Z375		

TG Osseotite [Biomet 3i / Zimmer Biomet]

Dro	ductling	Ø 4.8			
Pro	auctime	н	REF		
	X-Line (ø 4.8)	3.25	I.32.01.X325		
	K-Line (ø 5.2)	1.5 3.0	I.32.01.K150 I.32.01.K300		

Thommen [Thommen Medical]

Droduct line			Ø 4.5	Ø 5.0		
Product line		H REF		н	REF	
	X-Line (ø 4.8)	3.25	I.04.03.X325	3.25 4.75	1.04.04.X325 1.04.04.X475	
	K-Line (ø 5.2)	1.75 3.25	I.04.03.K175 I.04.03.K325	1.75	I.04.04.K175	



tioLogic [Dentaurum implants]

Broduct line		S-Serie		I	M-Serie	L-Serie		
FIU	uuctime	Н	REF	Н	REF	Н	REF	
	X-Line (ø 4.8)	3.0 4.5	I.30.01.X300 I.30.01.X450	3.0 4.5	I.30.02.X300 I.30.02.X450	3.0 4.5	I.30.03.X300 I.30.03.X450	

Unihex [Intra-Look]

Dro	duct line	Ø 4.0			
Pro	duct line	н	REF		
	X-Line (ø 4.8)	3.5	I.63.01.X350		
	K-Line (ø 5.2)	2.5	I.63.01.K250		

XIVE / Frialit-2 [Dentsply Implants]

Pro	duct line	uct line Ø 3.4 Ø 3.8 Ø 4.5		Ø 4.5	Ø 5.5		Ø 6.0				
		н	REF	н	REF	н	REF	н	REF	н	REF
	X-Line (ø 4.8)	3.0 4.5	I.06.05.X300 I.06.05.X450	3.0 4.5 6.0	I.06.01.X300 I.06.01.X450 I.06.01.X600	3.0 4.5 6.0	I.06.02.X300 I.06.02.X450 I.06.02.X600	3.0 4.5 6.0	I.06.03.X300 I.06.03.X450 I.06.03.X600		
	K-Line (ø 5.2)	2.0 3.5	I.06.05.K200 I.06.05.K350	2.0 3.5	I.06.01.K200 I.06.01.K350	2.0 3.5	I.06.02.K200 I.06.02.K350				
	Z-Line (ø 5.8)			3.5	I.06.01.Z350	3.5	I.06.02.Z350	3.5 5.0	I.06.03.Z350 I.06.03.Z500	3.5 5.0	I.06.04.Z350 I.06.04.Z500

Equipment



		Denture magnet	Positioning cuff	Resilience ring	Impression post	Laboratory replica
			supragingival			magnetic
	Height	2.65 mm	0.3 mm**		6.95 mm	9.0 mm
	REF	U.00.01.X265R	P.00.01.X1		A.00.02.X695	M.00.01.X900
X-Line						
X-LINC			äquigingival			magnetic
	Height	1.8 mm	0.3 mm**			16.0 mm
	REF	U.00.04.X180*	P.00.01.X2			M.00.01.X1600
						Ţ
						Stainless steel
	Height					9.0 mm
	REF					M.00.05.X900
			supragingival			magnetic
	Height	5.0 mm	0.0 mm**	0.3 mm**	For the impres-	9.9 mm
K-Line	REF	U.00.01.K500	P.00.01.K1	P.00.05.K1	sion please	M.00.01.K750
			87. EO 00 00 00 00		magnet!	
			äquigingival			
	Height		0.0 mm**			
	REF		P.00.01.K2			
					-	Ť
Z-Line			supragingival			magnetic
	Height	3.15 mm	0.3 mm**		6.95 mm	10.0 mm
	REF	U.00.01.Z315	P.00.03.Z1		A.00.02.Z695	M.00.01.Z1000

* limited retention force 1.4 N **Resilience height

Torque wrench adapters



Fit to this torque wrench:		X-Line	K-Line	Z-Line
Vierkant (US-Pat.) fit to Dynatorq, Dentsply (old),				
Screw-Vent, Steri-Oss	REF	H.00.04.X1	H.00.04.K1	H.00.04.Z1
ISO 204 (Contra angle)				
	REF	H.00.04.X2	H.00.04.K2	H.00.04.Z2
Sechskant fit to Bredent,				
Camlog, IMZ, prowital	REF	H.00.04.X3	H.00.04.K3	H.00.04.Z3
Straumann, Neoss				
	REF	H.00.04.X4	H.00.04.K4	H.00.04.Z4
Impla [Schütz Dental]				
	REF	635087*	635099*	
Pitt-Easy				
	REF	H.16.01.X1	H.16.01.K1	
SIC [SIC invent]				
[REF		935099*	
Semados				
	REF	H.08.01.X1	H.08.01.K1	H.08.01.Z1

Torque wrench

Fit to:		Universal
Hexagonal connection H.00.04.X3 H.00.04.K3 H.00.04.Z3	REF	0.00.01.DMR20



Demo models are an important tool in patient communication. We offer various demo parts, with which you can make your own models. Our one-piece demo implants combine the functional surface of Titanmagnetics[®] with an implant. They can be quickly and easily incorporated into a demonstration model.

Figure	Description	REF
	Demo implant X-Line incl. denture magnet	DI.00.35.X1500
	Demo implant K-Line incl. denture magnet	DI.00.35.K1600



We can provide you with more printed information for your patients as flyers, as well as our practical patient pass.





Root cap magnets



Magnets for cast root caps

Using Titanmagnetics[®] for root caps, residual root material can be quickly and easily incorporated into the denture as additional retaining elements.

Method

The root cap is modeled using the usual method, with the help of a castable sleeve and casted into the desired alloy. The corrosion-proof titanium-encapsulated magnet is glued with an orally compatible adhesive into the polished (sand-blasted on the inside) root cap.

Once the root cap has been cemented into the patient's mouth, the denture magnet can be glued using the special positioning cuff to the prepared denture right in the dentist's chair. The denture magnets can also be fixed on to the model in the laboratory.





Obturators

The root cap magnets can also be used for coupling obturators. For silicon, the obturator magnets come with a retention ring.





Titanmagnetics[®] for root cap with equipment

		Root cap magnet	Denture magnet	Positioning cuff	Modelling sleeves	Modelling tool
						32.55 mm
						M.00.04.X103
X-Lino				Keroo	8	(ø 2.35 mm)
X-Line	Height	2.5 mm	2.65 mm	0.3 mm*	2.05 mm	B
	REF	V.00.01.X250	U.00.01.X265R	P.00.04.X1	M.00.03.X205	32.55 mm
					(PU = 2 pieces)	M.00.04.X123
						(ø 3.0 mm)
Z-Line	Height	3.0 mm V.00.01.7300	3.15 mm U.00.01.7315			

*ResilienzHeight

Denture magnet for cast root caps with a flat surface

		Denture magnet
X-Line	Height	2.6 mm
	REF	V.00.03.X260

Obturator magnets

		Obturator magnet for acrylic	Obturator magnet for silicon	Counter magnet for acrylic	Counter magnet for silicone
X-Line	Height	2.5 mm	2.5 mm	2.65 mm	2.65 mm
	REF	V.00.01.X250	V.00.02.X250	U.00.01.X265R	U.00.02.X265
7-l ine					
2-21116	Height	3.0 mm		3.15 mm	3.15 mm
	REF	V.00.01.Z300		U.00.01.Z315	U.00.02.Z315

		Obturator magnet for acrylic	Obturator magnet for silicon
W-Line			
magnets)	Height	2.65 mm	2.65 mm
	REF	V.00.07.W265	V.00.06.W265





Fractured tooth?

Magnetic force moves root and gingiva

A corrosion-proof magnet encapsulated in titanium is fixed to the root. A second magnet is fixed to a splint or a temporary denture a small distance away. The magnetic attraction between the two magnets pulls the root out of the alveolus slowly until both magnets meet. Depending on the tooth, the process can take from several weeks up to a few months. The bone tissue below the root is built up. The soft tissue follows the root along the corona.

The maximum force between the magnets in contact with each other is about 1 N (100 g). With two positioning aids, the initial distance can be set at 1 mm (0.33 N) or 2 mm (0.13 N).



Crown instead of extraction

Is the root too deeply fractured to attach a crown? With magnetic extrusion, the root can be pulled out of the alveolus so a crown can be placed over it.

Bone growth before implantation

With the help of magnetic extrusion, the patient's own bone and gingival tissue can be pulled upwards. The implant can be inserted more effectively into the body's own bone tissue, ensuring the gums look more aesthetically pleasing.

Extrusionmagnet individually or as a set



Figure	Description	REF
	Extrusion set contains: 1 Magnet for splint/ crown 1 Magnet for root 1 Positioning aid H 1.00 mm (0,33 N) 1 Positioning aid H 2.00 mm (0,13 N)	S.62.01.Y1
	Extrusion magnet for the root	V.62.01.Y245.C
	Extrusionsmagnet for the splint/crown	V.62.01.Y245.R
	Positioning aid, Distance height 1.0 mm	P.62.01.Y100
	Positioning aid, Distance height 2.0 mm	P.62.01.Y200



In the treatment of patients with maxillofacial prostheses, Titanmagnetics[®] play an important role. We offer an extensive range of Titanmagnetics[®] specifically for extra-oral use. Special implant and plate systems are used.

Our Titanmagnetics[®] T-Line has been developed exclusively for extra-oral use. Special universal components such as prosthesis magnets with silicone retention or an additional lateral guide have been specially designed for use in maxillofacial prostheses.







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.

- planning
- pilot drilling
- multiple drilling stages
- fully guided



Which sleeves for which software?

The geometry data of Steco sleeves are stored in many implant planning programs. 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.



The following planning programs contain the StecoGuide sleeves.





Radiodiagnostic planning

For radiographic diagnosis, the titanium single sleeves are suitable. They help to determine whether the planned implant position is surgically feasible. They can be used for pilot drill as well.

Titanium single sleeves

- particularly well suitable for use in planning templates
- easy to measure in X-ray images (titanium)
- universal diameter (ø2.35 mm standard drill shank)
- simple surgical guide



REF	D [mm]	d [mm]	L [mm]	PU
M.27.01.D200L5	3.0	2.0	5.0	10
M.27.01.D235	3.0	2.35	10.0	10
M.27.01.D235L5	3.0	2.35	5.0	10

Titanium collar sleeves

- ecially good for use in pilot holes
- Collar against slipping through

ø 4.0	REF	D [mm]	d [mm]	L [mm]	PU
2.0	M.27.31.D200L5	3.0	2.0	5.0	10
	M.27.31.D220L5	3.0	2.2	5.0	10
D	M.27.31.D235L5	3.0	2.35	5.0	10

Equipment

The drill produces a hole that is compatible with the sleeve diameter into which the sleeve has to be pressed. The impression tool makes it easier to push in the sleeve.







Titanium outer sleeves

In the outer sleeves (inner ø 3.50 mm), the inner sleeves (outer ø 3.50 mm) can be inserted into each other accurately. With this double sleeve principle (tube-in-tube) the outer sleeves sits securely in the template. The inner sleeves can be changed with the different drill diameters. The outer sleeves can be used individually, as well as the inner sleeves.



RI	EF	D [mm]	d [mm]	L [mm]	PU
M.27.02	.D350	4.0	3.5	6.0	10
M.27.02	.D350L5	4.0	3.5	5.0	10



Cross-section

Open outer sleeves

This special outer sleeve is suitable for limited spaces because the drill swiveled over entire sleeve length. Swivel the inner sleeve upwards, guide it down and prevent it from tilting.

REF	D [mm]	d [mm]	L [mm]	PU
M.27.18.D350	5.0	3.5	6.0	5



Equipment for outer sleeve

The template drill produces a hole in the template that fits the external diameter. Than the sleeve just has to be pressed in (e.g. with the impression tool). The sleeve holder is used to position the outer sleeve when polymerising or gluing.



Titanium double sleeves

With the tube in tube principle, several drill diameters can be guided in one template. The system is universally applicable and covers many popular drill diameters. It is particularly suitable for guiding the first drilling steps when the final drilling is to be carried out under visual control.

- Guide different drill diameters with one template
- Outer sleeve sits firmly in the template
- Inner sleeves are exchanged / changed





Titanium inner sleeves

They fit exactly into the outer sleeves, but can also be fixed directly to the template. They are offered with many different drill diameters (inner- ϕ) - from 1.5 mm to 2.8 mm.



REF	D [mm]	d [mm]	L [mm]	PU
M.27.03.D150L6	3.5	1.5	6.0	10
M.27.03.D150	3.5	1.5	10.0	10
M.27.03.D160L6	3.5	1.6	6.0	10
M.27.03.D200	3.5	2.0	10.0	10
M.27.03.D200L6	3.5	2.0	6.0	10
M.27.03.D220L6	3.5	2.2	6.0	10
M.27.03.D235	3.5	2.35	10.0	10
M.27.03.D235L6	3.5	2.35	6.0	10
M.27.03.D250L6	3.5	2.5	6.0	10
M.27.03.D280L6	3.5	2.8	6.0	10

Titanium inner sleeves with depth stop

They are suitable for drills with small depth stop and they are many different diameters - from 1.16 mm to 2.35 mm. A detailed description can be found on page 31.



REF	D [mm]	d [mm]	L [mm]	PU
M.27.24.D116L5	3.5	1.16	5.0	10
M.27.24.D130L5	3.5	1.3	5.0	10
M.27.24.D200L5	3.5	2.0	5.0	10
M.27.24.D220L5	3.5	2.2	5.0	10
M.27.24.D235L5	3.5	2.35	5.0	10

Equipment for inner sleeves

The template drill is used when the inner sleeve is to be pressed directly in the template.



Depth stop for double sleeves



Depth stop for double sleeves

The system of StecoGuide titanium double sleeves indicates titanium sleeves for axial guiding of cylindrical drills in surgical templates or surgical guides. Under certain conditions they might be used together with depth controlled surgical instruments within 3D implant planning tools.

Therefore the exact drill diameter and the length between drill tip to depth stop have to be known. The distance between implant shoulder and the drill sleeve is specified by the free drill length, the sleeve length and the implant length.



To use double sleeves with depth stop drills the diameter of the depth stop has to be at least 5.0 mm. Otherwise it would stop inside the sleeves funnel. For drills with small depth stop the titanium inner sleeves with depth stop (M.27.24.D ...) can be used. It has to be made sure that the drill fits the sleeve correctly in advance. Please refer to instruction for use for further information. Conical shaped drills cannot be guided in a cylindrical sleeve.



Requirements

- Which drill shall be used? Does the drill fit the sleeve? (check in advance!)
- Which sleeve should be used? (innersleeve or inner- and outer sleeve)
- Distance between drill tip and depth stop is larger than implant plus sleeve length.
- · Does the drill have a depth stop
- > 5.0 mm \rightarrow Titanium sleeve possible with funnel
- < 5.0 mm \rightarrow Inner sleeve with depth stop

The sleeves upper collar has a height of 0.2 mm. By choosing the sleeve diameter within the software it has to be considerated, that the inner sleeve sits 0.34 mm on the outer sleeve. Depending on the usage of inner sleeve and/or outer sleeve this distance has to be considerate within planning. All provided measures may vary due to production tolerances.

Digital drilling template production

If the drilling templates are milled or printed, the software can already schedule the necessary fit for the sleeve. Therefore, the distance of the sleeve to the implant, the bit length and the distances of the additional nested sleeves must be considered.

Conventional production in the laboratory

By using the template drill for inner or outer sleeve a hole is made with the exact shape of the sleeves outer surface. The sleeve just has to be pressed in.



CeHa Drilling sleeves

These drilling sleeves are like the previously known double sleeves, but 1.0 mm larger. This makes it possible to use even larger drills.

CeHa Drilling sleeve [outer]

REF	D [mm]	d [mm]	L [mm]	PU
M.27.05.D450	5.0	4.5	5.0	10



CeHa Drilling sleeves [inner]

REF	D [mm]	d [mm]	L [mm]	PU
M.27.06.D160	4.5	1.6	5.0	10
M.27.06.D200	4.5	2.0	5.0	10
M.27.06.D210	4.5	2.1	5.0	10
M.27.06.D220	4.5	2.2	5.0	10
M.27.06.D235	4.5	2.35	5.0	10
M.27.06.D240	4.5	2.4	5.0	10
M.27.06.D250	4.5	2.5	5.0	10
M.27.06.D280	4.5	2.8	5.0	10
M.27.06.D300	4.5	3.0	5.0	10
M.27.06.D320	4.5	3.2	5.0	10
M.27.06.D330	4.5	3.3	5.0	10
M.27.06.D340	4.5	3.4	5.0	10
M.27.06.D350	4.5	3.5	5.0	10
M.27.06.D380	4.5	3.8	5.0	10



Equipment

The template drill creates a hole in the template that is matched to the outside diameter, so that the sleeve only needs to be pressed in.



Template drill for CeHa dr	illing sleeve [outer] M.27.05.B520

Template drill for CeHa drilling sleeve [inner] M.27.06.B450



Titanium fully guided sleeves

For fully guided surgery special surgical instruments are used, which are guided in guide sleeves (or master sleeves). The instruments have cylindrical guide surfaces and a depth stop or are guided in suitable inserts (tray/keys)

- for "full-guided" surgical kits
- diameter and length adjusted to the guide sleeves of established surgical kits
- alternative sleeves for open planning systems
- uses less space than circular sleeves





Guided sleeve for:	REF	D [mm]	d [mm]	L [mm]	PU
Ankylos ND	M.27.15.D448	5.5	4.48	4.0	5
Ankylos WD	M.27.15.D490	5.6	4.9	4.0	5
Astra EV "ND"	M.27.15.D460	5.6	4.6	4.0	5
Astra EV "WD"	M.27.15.D520	6.0	5.2	4.0	5
Astra TX "small"	M.27.15.D470	5.7	4.7	4.0	5
Astra TX "large"	M.27.15.D570	6.7	5.7	4.0	5
BioHorizons Yellow	M.27.15.D432	5.3	4.3	6.0	5
BioHorizons Green	M.27.15.D510	6.0	5.1	6.0	5
BioHorizons Blue	M.27.15.D630	7.0	6.3	6.0	5
Camlog für ø 3.3 mm	M.27.15.D350	4.5	3.5	3.0	5
Camlog für ø 3.8/4.3 mm	M.27.15.D450L3	5.5	4.5	3.0	5
Camlog für ø 3.8/4.3 mm	M.27.15.D450	5.5	4.5	4.0	5
Camlog PL für ø 3.3 mm	M.27.15.D360L3	4.7	3.6	3.0	5
Camlog PL für ø 3.8/4.3 mm	M.27.15.D460L3	5.7	4.6	3.0	5
Camlog PL für ø 5.0 mm	M.27.15.D560L3	6.7	5.6	3.0	5
MIS narrow	M.27.15.D400	4.6	4.0	4.0	5
MIS	M.27.15.D550	6.5	5.5	4.0	5
Nobel Biocare NP	M.27.15.D410	4.7	4.1	3.5	5
Nobel Biocare RP	M.27.15.D500	6.0	5.0	3.5	5
Nobel Biocare WP	M.27.15.D620	7.0	6.2	3.5	5
Simplant universal RP	M.27.33.D420L4	5.0	4.2	4.0	5
Simplant universal WP	M.27.33.D520L4	6.0	5.2	4.0	5
Straumann Guided Pilot	M.27.26.D220L6	3.8	2.2	6.0	5
Straumann ø 2.8	M.27.15.D280	3.8	2.8	6.0	5
Straumann ø 5.0	M.27.15.D500L5	6.0	5.0	5.0	5
Sweden & Martina ø 4,25 mm	M.27.15.D425	5.0	4.25	5.0	5
Sweden & Martina ø 5,5 mm	M.27.15.D555	6.3	5.55	5.0	5
XIVE ND	M.27.15.D448	5.5	4.48	4.0	5
XIVE WD	M.27.15.D520	6.0	5.2	4.0	5
Zimmer (Adapter A)	M.27.15.D420	5.2	4,2	4.0	5
Zimmer (Adapter B)	M.27.15.D530	6.3	5.3	4.0	5



Titanium sleeves for anchor pins

Anchor pins are used for stabilising drilling templates in jaws with no or few teeth. Several anchor pins are placed in the template through corresponding sleeves.

- for 1.5 mm anchor pin drills and anchor pins
- for stabilisation of drilling templates



Anchor pin sleeves for NobelGuide pins

REF	D [mm]	d [mm]	L [mm]	PU
M.27.20.D150L10	3.5	1.5	10.0	10

Thommen Medical Titanium double sleeves

The double sleeve system was developed especially for the drill instruments of Thommen Medical. Tube-in-tube-principle. Not compatible with the universal titanium double sleeves!

- inner sleeves for VECTOdrill[™] pilot drill ø 2.0 and twist drill ø 2.8 mm
- outer sleeves for VECTOdrill[™] twist drill ø 3.5 mm



Thommen Medical Titanium inner sleeves

REF	D [mm]	d [mm]	L [mm]	PU
M.27.25.D200L6	3.55	2.02	6.0	10
M.27.25.D280L6	3.55	2.88	6.0	10





Thommen Medical Titanium outer sleeve

L	REF	D [mm]	d [mm]	L [mm]	PU
_	M.27.25.D350L6	4.4	3.55	6.0	5

Radiodiagnostic planning

For radiographic diagnosis, the titanium reference balls are suitable. They help to determine whether the planned implant position is surgically feasible. There are less artifacts in the X-ray image than steel balls.

Titanium reference balls

- ø 5.0 mm simple planning tool, eg. for mucosal thickness
- ø 2.5 mm position marker

D	REF	D [mm]	PU
	M.27.09.D500	5.0	10
	M.27.09.D250	2.5	3





A preparation of obliterated root canals can be difficult because it cannot be controlled. With a 3D planning software the drilling canel is defined (e.g. with coDiagnostiXTM or other systems).

Drill- and sleeve geometry can be integrated in the software and can be inserted into a milled or printed surgical template. The ATEC twist drill is precisely guided by the StecoGuide Endo-Sleeve.

StecoGuide Endo-Sleeve for ATEC twist drill



REF M.27.28.D100L5

ATEC Twist drill 1.0 mm





REF	D [mm]	d [mm]	L [mm]	PU
M.27.28.D100L5	3.5	1.0	5.0	10
O.27.28.B044.051			35.0	1
O.27.28.B044.052			42.0	1

System expansion:

Further drilling steps through StecoGuide outer and inner sleeves in different diameters are possible. With the tube-in-tube principle, several drills with different diameters can be guided in a template. We offer numerous sleeves with diameters from 1.16 mm to 3.50 mm. The endo-sleeve is compatible with our double sleeve system (outer sleeve ø 3.5 mm)

REF 0.27.28.B044.051

REF 0.27.28.B044.052



Grinders for ${\rm ZrO}_{\rm 2}$ attachments and telescopes

Conical or telescopic crowns and bridges made of zirconium dioxide or other high-performance ceramics need perfectly polished surfaces. Diamond grinders can be used to polish zirconium dioxide with a water-cooled turbine (without additional pastes). StecoGrind diamond grinders produce a polished surface in five increasingly finer steps (80, 40, 15, 8, 4 μ m). The finest level has diamonds 4 μ m in size, creating a glaze-like surface. No dry polishing is needed.





The grinders fit into any turbine handpiece with FG fitting (1.6 mm) and are available in 2 $^\circ$ and 0 $^\circ$ (ø 1.2 and 1.7 mm).

Shapes	
Fig. A (2°, ø 2.5)	
Fig. B (0°, ø 1.79)	
Fig. C (0°, ø 1.2)	



Grind starter set The set includes all three figures ($2^{\circ} + 0^{\circ}$ thick und 0° thin) in all 5 grain sizes (80 µm bis 4 µm).



REF	
S.44.01.S15	

Grind diamond tools Single order

Figure	Shape	Grain size	REF	Colour	Recommended speed
	А	80 µm	O.44.01.A80	0	300.000 rpm
	А	40 µm	O.44.01.A40	0	250.000 rpm
	А	15 µm	O.44.01.A15	0	200.000 rpm
	А	08 µm	O.44.01.A08	0	150.000 rpm
	А	04 µm	O.44.01.A04	0	120.000 rpm
	В	80 µm	O.44.01.B80	0	300.000 rpm
	В	40 µm	O.44.01.B40	0	250.000 rpm
	В	15 µm	O.44.01.B15	0	200.000 rpm
	В	08 µm	O.44.01.B08	0	150.000 rpm
	В	04 µm	O.44.01.B04	0	120.000 rpm
	С	80 µm	O.44.01.C80	0	300.000 rpm
	С	40 µm	O.44.01.C40	0	250.000 rpm
	С	15 µm	O.44.01.C15	0	200.000 rpm
	С	08 µm	O.44.01.C08	0	150.000 rpm
	С	04 µm	O.44.01.C04	0	120.000 rpm

Equipment C.M. turbine

Description	REF
Rotor with ceramic bearings	R.44.06.K-ROT01
Grease 6er refill	O.44.06.Nachfüllfett
Grease cartridge	O.44.06.FETT
Cleaning needle	O.44.06.N01



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Safety, liability and warranty

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