





Pre diagnostic planning plays an increasingly important role in the implantology. Planning software with 3D-views into the implant region facilitate the surgical work noticeably. The entire surgical procedure for each desired indication can be planned, examined virtually and corrected if necessary already in advance. The thickness and density of the jawbone can be determined likewise the position of the nerve. The implant planning is further improved, through the appropriate implant and abutment libraries.

Titanium single sleeves are used in the pre implantologic radiology (dental-CT or OPG) as planning sleeves. Subsequently, a surgical template with one-piece **titanium sleeves** (5 or 10 mm) or **titanium double sleeves** (length inner sleeve 6 or 10 mm, outer sleeve 5 or 6 mm) can serve as a guidance assistance during the pilot drilling.

The single- or inner sleeves are co-ordinated with their diameters from 2.0 to 2.8 mm with the common pilot drills. The internal diameter of the outer sleeve offers a good guidance with 3.5 mm also for the following drilling procedure.

A simple radiographical planning can be achieved also with titanium reference balls (diameter 5.0 mm). It offers however only the possibility of the estimation of the mucous membrane thickness.

Titanium guided sleeves are used for laboratory manufactured drill templates for full guided surgery.

Attention:

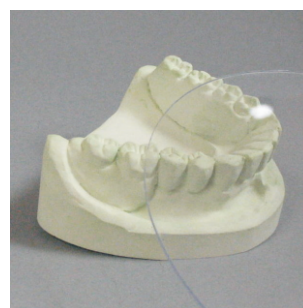
Exclusively distributed sleeves by other companies can deviate from the dimension data specified above (page 62).



1. Production of the planning model



2. Wax up



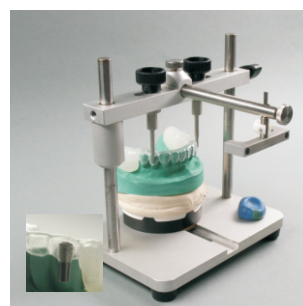
3. Duplicate model with thermoforming blank



4. Pressure moulded planning template



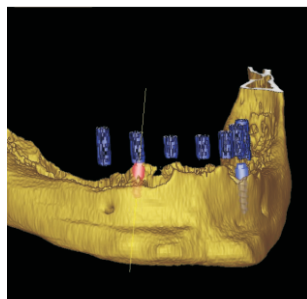
5. Fill x-ray opaque material into pressure moulded template



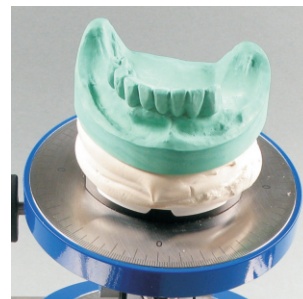
6. Attaching bearing sleeves - for example with the modelpositioner



7. Bearing sleeves
Alternative: Planning sleeves at each possible implant position (small picture)



8. 3D planning with software on the basis of diagnostic imaging procedures (CT, DVT, etc.)



9. Conversion of planned position to the model (for example coOrdinator®)



10. Insert sleeves into drilling template


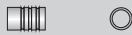


11. Put sleeves into drilling template

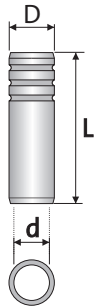


Single sleeves
Inside- \varnothing 2.35 mm
Double sleeves
Inside- \varnothing 2.0 - 3.5 mm

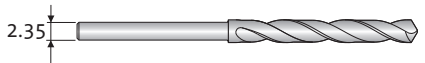

Titanium single sleeves D 3.00 mm

Product number	Dimensions	Fig. 1:1
M.27.01.D235	d 2.35 mm, L 10 mm	
M.27.01.D235L5	d 2.35 mm, L 5 mm	



D = Outer diameter
 d = Inner diameter
 L = Length

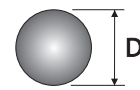


Template drill and impression tool

Product number	Description	Fig.
M.27.01.B300	Template drill for titanium single sleeves	
M.27.01.E235	Impression tool for titanium single sleeves	

Titanium reference ball

Product number	Dimensions	Fig. 1:1
M.27.09.D250	D 2.50 mm	
M.27.09.D500	D 5.00 mm	



D = Outer diameter

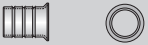

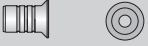







The titanium sleeves are sold in 10 pieces per packaging unit.
 The titanium reference balls are sold in 10 pieces (ø 5.00 mm) and 3 pieces (ø 2.50 mm) per packaging unit.
 Other ball diameters are available on request.

We advise you gladly!

Denture duplicator

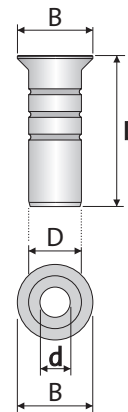
Product number	Description	Fig. (minimised)
O.27.00.O389	For simple production of planning templates. Doubles the existing prosthesis.	

Titanium double sleeves

Product number	Dimensions	Fig. 1:1
Titanium outer sleeve D 4.00 mm		
M.27.02.D350	d 3.50 mm, L 6 mm	
M.27.02.D350L5	d 3.50 mm, L 5 mm	
Titanium inner sleeve D 3.50 mm		
M.27.03.D160L6	d 1.60 mm, L 6 mm	
M.27.03.D200	d 2.00 mm, L 10 mm	
M.27.03.D200L6	d 2.00 mm, L 6 mm	
M.27.03.D220L6	d 2.20 mm, L 6 mm	
M.27.03.D235	d 2.35 mm, L 10 mm	
M.27.03.D235L6	d 2.35 mm, L 6 mm	
M.27.03.D250L6	d 2.50 mm, L 6 mm	
M.27.03.D280L6	d 2.80 mm, L 6 mm	



tube in tube



L = Length

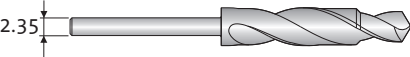
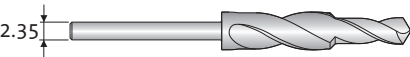
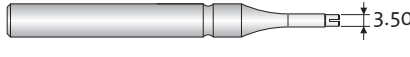


D = Outer diameter

d = Inner diameter

B = Collar diameter
ø 5.00 mm (not applicable with single sleeves)

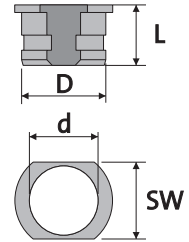
The titanium sleeves are sold in 10 pieces per packaging unit. Other sleeves are available on request.

Template drill and impression tools

Product number	Description	Fig.
M.27.02.B400	Template drill for titanium outer sleeves	
M.27.03.B350	Template drill for titanium inner sleeves	
M.27.02.E350	Impression tool for titanium outer sleeves	
M.27.03.E200	Impression tool for titanium inner sleeves d 2.00	
M.27.03.E235	Impression tool for titanium inner sleeves d 2.35	

Titanium guide sleeves

Product number	System	Dimensions			
		d	D	L	SW
M.27.15.D410	NB NP	ø 4.10 mm	4.70 mm	3.50 mm	4.30 mm
M.27.15.D500	NB RP	ø 5.00 mm	6.00 mm	3.50 mm	5.60 mm
M.27.15.D620	NB WP	ø 6.20 mm	7.00 mm	3.50 mm	6.60 mm
M.27.15.D450	Camlog	ø 4.50 mm	5.50 mm	4.00 mm	5.10 mm
M.27.15.D448	Xive + Ankylos ND	ø 4.48 mm	5.50 mm	4.00 mm	5.10 mm
M.27.15.D520	Xive WD	ø 5.20 mm	6.00 mm	4.00 mm	5.60 mm
M.27.15.D490	Ankylos WD	ø 4.90 mm	5.60 mm	4.00 mm	5.20 mm
1650532*	*Only available at Astra Tech	ø 4.70 mm	5.50 mm	4.00 mm	5.10 mm
1650533*		ø 5.70 mm	6.50 mm	4.00 mm	6.10 mm



L = Length

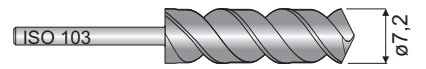
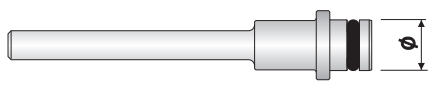
d = Inner diameter

D = Diameter

SW = Wrench size

The titanium sleeves are sold in 10 pieces and 5 pieces per packaging unit. Other sleeves are available on request.

Template drill and sleeve holder

Product number	Description	Fig.
M.27.15.B720	Template drill for titanium guide sleeves	
M.27.15.H410	Sleeve holder for titanium guide sleeves for D410	
M.27.15.H500	Sleeve holder for titanium guide sleeves for D500	
M.27.15.H620	Sleeve holder for titanium guide sleeves for D620	
M.27.15.H450	Sleeve holder for titanium guide sleeves for D450	
M.27.15.H520	Sleeve holder for titanium guide sleeves for D520	
M.27.15.H448	Sleeve holder for titanium guide sleeves for D448	
M.27.15.H490	Sleeve holder for titanium guide sleeves for D490	














The following sleeves can be ordered exclusively with our respective sales partners:



Titanium sleeves of C.Hafner

Double sleeves

Telephone: +49 (0)7231-920-381

Outer- ϕ (D) 4.5 mm Inner- ϕ (d) Order number with C.Hafner

 L5		1.60 mm	7516*
		2.00 mm	7518*
		2.20 mm	7519*
		2.35 mm	7520*
		2.40 mm	7522*
		2.50 mm	7523*
		2.80 mm	7524*
		3.00 mm	7525*
		3.20 mm	7526*
		3.30 mm	7527*
		3.40 mm	7528*
		3.50 mm	7529*
	3.80 mm	7687*	

Outer- ϕ (D) 5.2 mm	Inner- ϕ (d)		
 L5		4.50 mm	7517*

Sleeve test set

consists of 1 outer sleeve and 11 inner sleeves of inner- ϕ from 2.00 mm to 3.50 mm (altogether 12 sleeves)

7558*





Titanium sleeves of Bego

Double sleeve

Telephone: +49 (0)421-20 28-248

Double sleeves





Telephone: +49 (0)421-20 28-248

Outer- ϕ (D) 2.5 mm	Inner- ϕ (d)	Order number with Bego
 L10		1.60 mm 55512*
Outer- ϕ (D) 3.5 mm	Inner- ϕ (d)	Order number with Bego
 L6		2.54 mm 55513*

Titanium sleeves of Dentaurum

Inner sleeves

Telephone: +49 (0)7231-803 210

Outer- ϕ (D) 3.5 mm	Inner- ϕ (d)	Order number with Dentaurum
 L6		2.00 mm 381-422-00*
 L10		2.00 mm 381-420-00*

Titanium sleeves of Astra Tech

Telephone: +49 (0)6431-9869-0

Titanium sleeves of siCAT

Telephone: +49 (0)6251-16-1616

Please ask Astra Tech or sicat for possible diameters and supported implant systems.

All product numbers marked with an asterisk *) refer to products which are distributed exclusively by implant manufacturers. For the correctness of the product numbers of the exclusive distributed products we assume no liability. Please contact the respective distributor.