



# BEGO Guide System

Manual for the clinician

# Guided surgery, quick and easy – BEGO Guide Surgical Guides

BEGO Guide surgical guides are individual custom fabrications for one patient that are manufactured from a photopolymer using a 3D printing process based on 3D implant planning. They are equipped with special guide sleeves in order to bring the drill specifically to the planned position in the jaw and in this way enable precise preparation of the implant bed.

They are a suitable supplement to the BEGO Semados® implant system. Whether simply for a pilot drill hole or fully guided, whether tooth or mucosa supported, whether transgingival or not.

This manual contains basic information about the BEGO Guide System and about BEGO Guide surgical guides and does not replace the corresponding instructions for use.



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# The workflow

## Step by step

### Diagnostics

### Preparation of a CT/CBCT image

### BEGO Guide order portal

### Implant placement

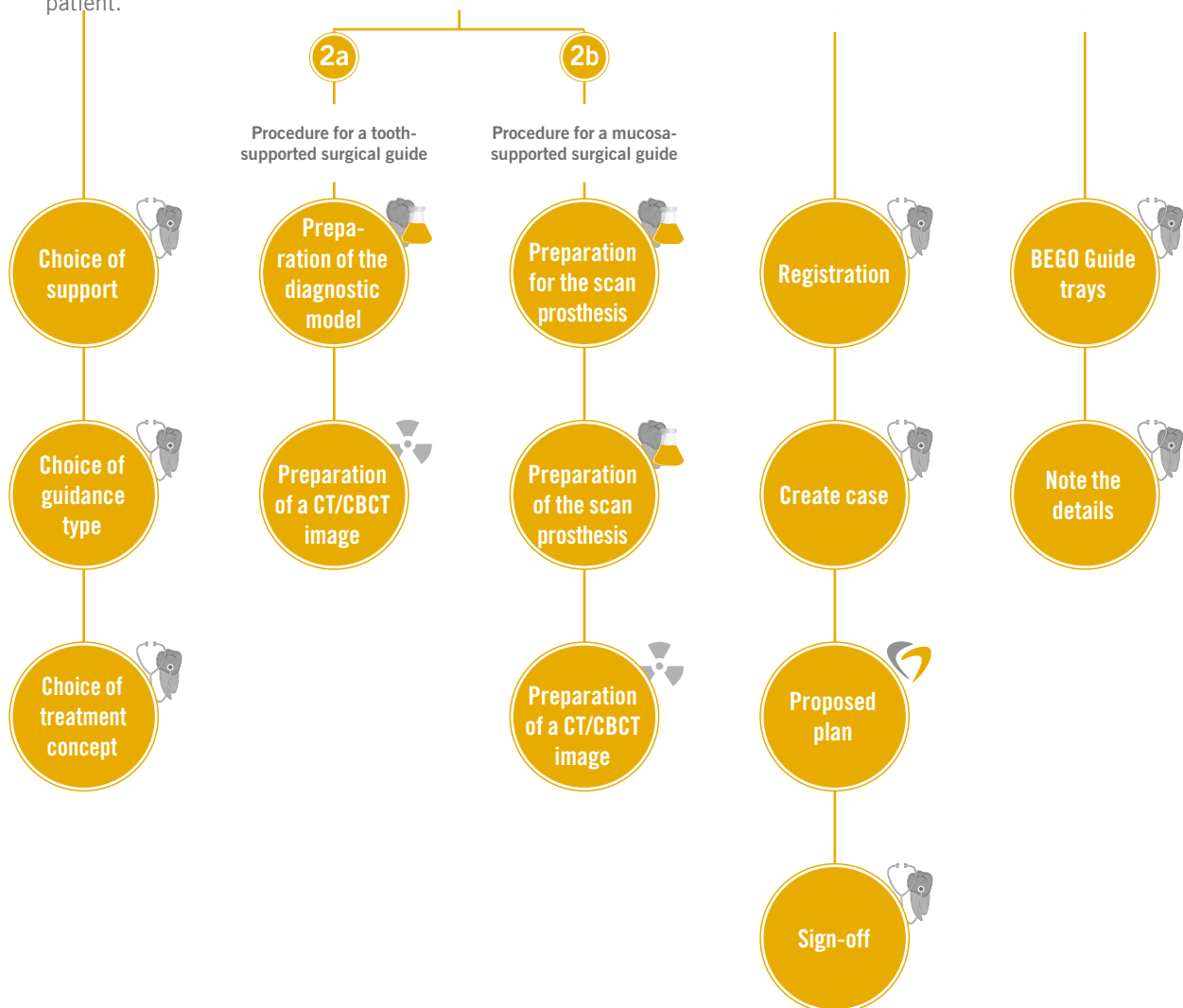


Based on the diagnosis and the patient's requests, the therapeutic concept is prepared for the particular patient.

To prepare a BEGO Guide surgical guide, a CT or CBCT image with specific requirements is necessary. Depending on the therapeutic concept, different approaches are required:

In the order portal, case documentation and all communication can be accessed independently.

Preparation of the implant bed with reference to the supplied BEGO Guide treatment protocol.



Dentist



Clinic/  
Technical laboratory



Radiology



BEGO

## Diagnostics / Therapeutic concept

### Choice of the type of surgical guide

#### Tooth supported

The support for the guide is provided by the residual dentition of the patient. This means that the guide fits precisely.

Indication:

- Partially edentulous jaw
- Residual dentition  $\geq$  2–3 stable teeth



Situation for a tooth-supported surgical guide

#### Mucosa supported

The support for the guide is provided by the patient's gingiva.

Indication:

- Edentulous jaw
- Residual dentition  $\leq$  2
- High degree of mobility of the residual dentition



Situation for a mucosa-supported surgical guide

#### Fully guided surgery

##### BEGO GUIDE Full (F)

If you want to carry out fully guided surgery, you will receive a surgical guide for the placement of BEGO Semados® S, SC/SCX, and RS/R SX implants that is fitted with BEGO Guide master sleeves. Reduction sleeves (BEGO Guide spoons) are inserted into the master sleeves and enable guided drilling using any drill in the BEGO Guide trays. A defined depth stop is given.

BEGO Guide Full (F) enables guided preparation of the implant bed for implants in the BEGO Semados® S-Line  $\varnothing$  3.25–4.5 and the RS/R SX-Line  $\varnothing$  3.0–4.5 with the corresponding BEGO Guide tray.



BEGO Guide Master Sleeves

#### Guided pilot drill hole

##### BEGO GUIDE Pilot (P)

If you want a guided pilot drill hole, you will receive a surgical guide with sleeves with a diameter of 2 mm. This surgical guide is compatible with all implant systems for which a pilot drill hole with a diameter of 2 mm can be used.



BEGO Guide DS (pilot sleeve)

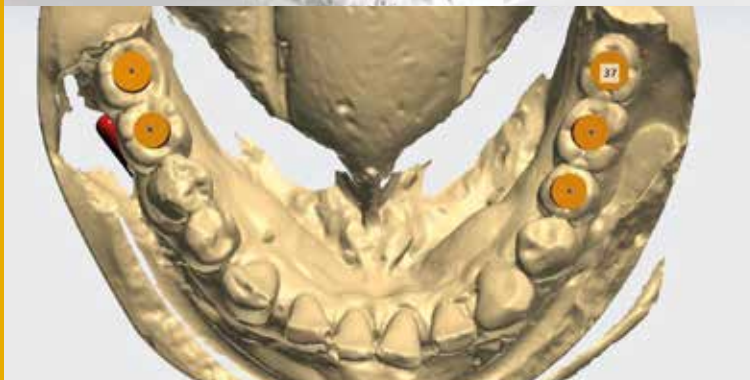
Planning without wax-up



Wax-up on a model



Planning with integrated wax-up



## Precise implant restoration using backward planning

To ensure that the implant is positioned in accordance with esthetic and prosthetic specifications, the ideal tooth position and the corresponding restoration are determined beforehand for the patient and incorporated into the implant planning.

Two models are required for backward planning:

- Current situation without wax-up (tooth position must correspond to the CBCT image)
- Model with wax-up or model of a pick-up impression of the current prosthetic restoration (relationship between the planned prosthesis and the planned implants must be identifiable)

This procedure works only as long as at least 3 remaining teeth are present that are visible on the CBCT image (see page 7) as well as on the plaster model without differences.

2

2a

Preparation of the diagnostic model

## Preparation of a CT/CBCT image

### Procedure for a tooth-supported surgical guide

#### What does a suitable diagnostic model look like?

A tooth-supported surgical guide requires a diagnostic model of the jaw being implanted. The correct fit of the surgical guide depends on the timeliness, quality, and shipping protection of the diagnostic model.

<b>Timeliness</b>	is essential for a precise fit of the surgical guide.
<b>Quality</b>	must be high (no bubble formation, trimmed). Silicones or polyethers (e.g., Impregum™) are suitable as impression materials. Alginates must be avoided.  The model must reflect the situation at the time of surgery. For immediate implant placement, the affected teeth must not be erased from the model; these are instead digitally removed by the BEGO Guide team. Stone models with a pedestal cannot be used.
<b>Shipping protection</b>	must be adequate to protect the model against damage (tooth breakage).



### What must be noted when preparing a CT/CBCT image?

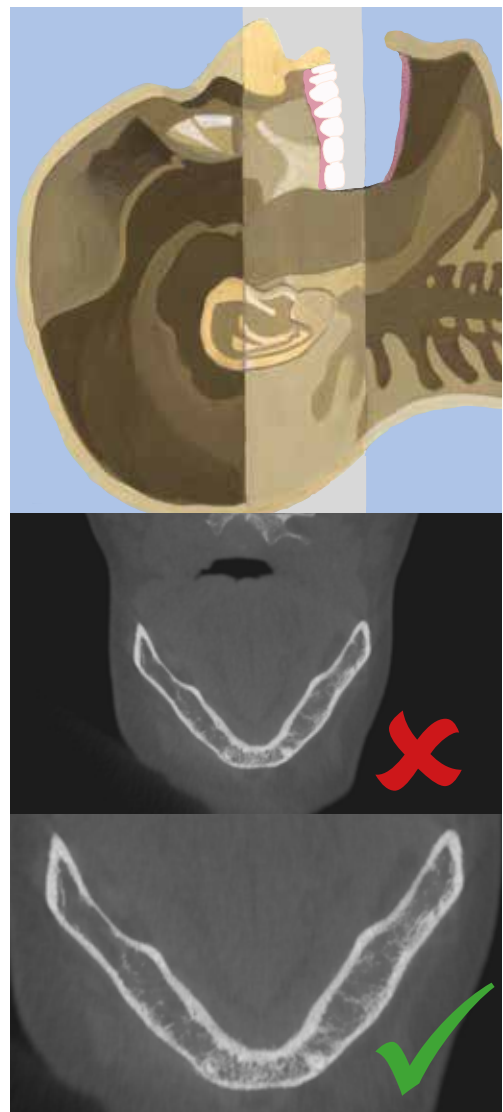
- DICOM files (multifile, uncompressed, slice thickness of maximum 1 mm)
- Open bite if possible by 10 mm

#### Special factors when preparing CT images:

- Scanning axis = occlusal axis
- Only axial images, no reconstructions
- Matrix  $512 \times 512$
- Gantry  $0^\circ$
- Bone or high resolution algorithm

#### Image section (FOV)

The image section must be selected so that the relevant jaw, including the scan prosthesis (if available), is shown in full and the incisal edges of the residual dentition are in the FOV. Stitched and partial volumes are not supported.



Ensure that the FOV is not too large

2

2b

## Preparation of a CT/CBCT image

### Procedure for a mucosa-supported surgical guide

To prepare a mucosa-supported surgical guide, the dual-scan procedure must be used when preparing the CT/CBCT image. This requires a non-radiopaque scan prosthesis with suitable radiopaque markers (dual-scan markers).

Preparation  
for the scan  
prosthesis

#### Patient's prosthesis is not free of metal

A duplicate of the patient's current prosthesis is prepared from transparent non-radiopaque acrylic and provided with suitable markers.

#### Patient's prosthesis is free of metal

If the patient's current prosthesis is free of metal, the prosthesis can be provided with suitable markers and used as the scan prosthesis.

Preparation  
of the scan  
prosthesis

#### Preparation of a scan prosthesis for the dual-scan procedure

A total of 6–8 dual-scan markers are inserted into the prosthesis. Alternatively, gutta percha can be used.

The markers are distributed evenly over the surface of the prosthesis. Avoid placing markers on the basal side; possible locations include:

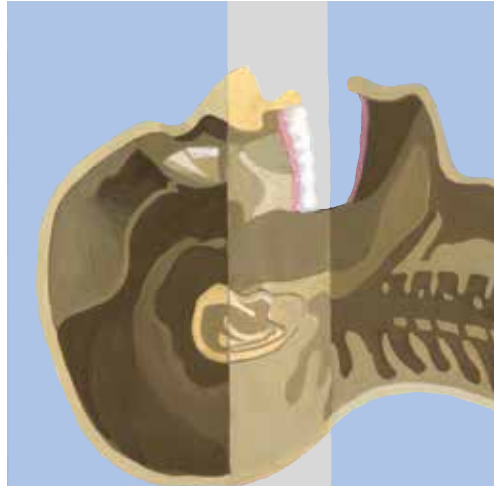
- 1 marker vestibular intraincisor
- 1 marker vestibular near each of the premolars
- 1 marker distal of the each of the last positioned teeth
- 1 marker lingual/palatal near each of the canines





## Dual scan procedure

Two CT/CBCT images are prepared. During the first image, the patient wears the metal-free scan prosthesis. For the second image the scan prosthesis alone is imaged. Both scans are then matched in the BEGO planning center to obtain the mucosal situation in the edentulous jaw of the patient.



1st image:  
Patient with scan prosthesis



2nd image:  
Scan prosthesis alone



Positioning the scan prosthesis in the CBCT machine on the holder for the test specimen for constancy testing

## Fixation of the scan prosthesis in the CT/CBCT machine

To position the scan prosthesis in the CBCT machine, the holders supplied with many CBCT machines for the test specimens for constancy testing are suitable.

Positioning the scan prosthesis with the basal side facing upward has become established procedure. To align the scan prosthesis, a piece of sponge, foam, or dental roll can be used. For machines without such a holder, a piece of sponge on the bite aid is used for positioning. The prosthesis must not make contact with radiopaque objects.

The prosthesis must be visible in full in the image section and marginal shadows must be avoided. Select the "Child mode" setting or the lowest possible dose for the CT/CBCT image of the scan prosthesis. Contact the manufacturer of your machine regarding the precise settings.

Preparation  
of a CT/CBCT  
image

3

Registration

## BEGO Guide Order Portal

### All details available

#### Register

The BEGO Guide order portal can be found at [guide.bego.com](http://guide.bego.com). Users must register once to access the portal.



Create case

#### Creating the patient case

To create a patient case, click on “Create new case”. The individual planning requirements can then be selected:

##### Neuen Fall anlegen

Welches Produkt möchten Sie bestellen?

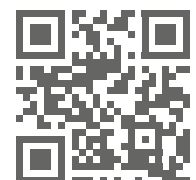


- “Case planning and guides”: Complete planning with custom BEGO Guide surgical guides based on the required specifications.
- “Case planning only”: Based on the required specifications, a planning file only is prepared and made available.
- “Guide only”: A BEGO Guide surgical guide is fabricated based on an (unencrypted) .stl file that is provided.

After querying the product, the support, the sleeve system, the patient ID, the implant positions and system, and the date of surgery, additional comments about the case can then be entered.

A video with instructions for the BEGO Guide order portal can be found at <http://guide.bego.com> that explains the portal step by step.

All communication and documentation for the case can be accessed in the BEGO Guide order portal. A notification is sent by e-mail whenever an entry is made or the status changes.



## Provision of the model and/or the data

To transfer the data and diagnostic model of the jaw required depending on the treatment concept, three options are available:

### Upload to the portal

A zip folder of the DICOM data must be prepared for direct uploading. This folder is uploaded under "File management".

### Sending a data CD

The DICOM data can be burned onto a CD and sent together with the diagnostic model to the following address:

BEGO Implant Systems GmbH & Co. KG  
**BEGO Guide**  
Wilhelm-Herbst-Str. 1  
28359 Bremen, Germany

### Use of the collection service

A driver organized by BEGO Implant Systems collects the package personally. The day of collection can be selected in the order portal.

If collection is organized on a business day, the package can be collected on the next day. The package is usually delivered in Bremen the next business day after collection.

**The collection service costs €15.**



Proposed plan

## Preparation of the proposed plan

A proposed plan is prepared based on the information provided in the order portal and the specifications from the CT/CBCT data and, where applicable, the model and made available for expert review and sign-off in the BEGO Guide order portal. Requests for changes can be made in the portal or discussed in an online session.

Sign-off

## Sign-off and provision of the treatment protocol

After sign-off in the portal, the guide is produced and delivered. The individual treatment protocol is provided for viewing or downloading in the BEGO Guide order portal. A printout is provided with the guide delivery.

When the surgical guide is shipped, you will receive a tracking number in the BEGO Guide order portal so that you can track the location of your guide at all times.

## Implant placement

### Guided surgery in detail

#### From the initial drill hole to insertion of the implant

The BEGO Guide trays enable fully guided placement of BEGO Semados® implants (S/SC/SCX 3.25–4.5 and RS/R SX 3.0–4.5). To use the trays, a surgical guide that is fabricated based on three-dimensional virtual implant planning and that is fitted with the BEGO Guide master sleeves is required. You can obtain such a surgical guide through the BEGO Guide planning center [bego.guide.com](http://bego.guide.com).

#### BEGO Guide Trays

#### Structure of the trays

The BEGO Guide trays are impressive thanks to their clear layout and easy handling. All instruments can be quickly and intuitively organized because the BEGO Guide trays are divided clearly into two sections (A and B). Depending on what implant diameter has been planned or which master sleeves are in the surgical guide, the instruments from either the upper (A) or the lower (B) section of the tray are used—only the depth drills are located between sections A and B on the tray. The color coding of the BEGO Semados® implants is also carried over to the preparation instruments. All instruments are arranged in the order of their use (from left to right) and are labeled accordingly. This provides additional security and greater comfort for the user during implant placement.



BEGO Guide trays

A and B:  
Components coordinated  
with the master sleeve

X, Y, Z:  
Lengths of the components  
tailored to the particular  
sleeve positions

1 to 6:  
Components coordinated  
with the individual  
(implant) diameter

## Do you have your own planning software?

Your planning software is generally compatible with the BEGO Guide System. A list of systems that can be used is available at:



<https://www.bego.com/de/implantologie-loesungen/navigierte-chirurgie/kompatible-planungssysteme/>

To create a surgical guide, please contact the particular software company or a dental laboratory that can fabricate the surgical guide according to the software concept.

**Caution:** A prerequisite for fabricating a BEGO Guide surgical guide in accordance with a plan created by you is that the plan is available as an unencrypted .stl file.

If you work with a laboratory-supported planning system, you can order the BEGO Guide master sleeves directly from us.

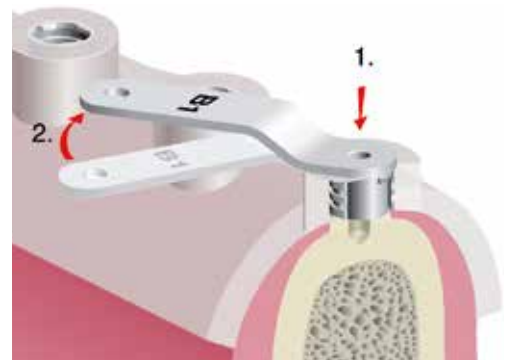
## Open approach of the system

The BEGO Guide trays are compatible with all available implant planning systems (see box above). If the geometries of the drills cannot be found in the software used, BEGO Implant Systems will happily implement this.

Note the details

## Self-locking spoons

Two hands instead of three: With the self-locking BEGO Guide spoons, an extra hand is not needed to hold the reduction sleeve (BEGO Guide spoons). The spoons are inserted into the master sleeve (A or B) and locked using a slight twist. The spoons are now fixed firmly in the surgical guide. To release them, all that is needed is a small movement in the opposite direction, enabling the user to comfortably change tools.



Variable depth stop ring on the BEGO Guide connector

## Implant placement with the BEGO Guide connector

Will implants with or without a depth stop be inserted through the master sleeve? The BEGO Guide trays offer both options. The BEGO Guide connector was developed for guided surgery and has a variable depth stop ring, enabling the depth stop to be set freely. For implant placement with a true depth stop, the ring can be locked at the desired position. If you would prefer to be flexible during insertion through the guide, the ring can be locked in the uppermost position. Clear laser markings on the connectors are provided to determine the correct depth (see pages 15 and 23).


# BEGO Guide Documents

## BEGO Guide Full (fully guided surgical guide)

### BEGO Guide Treatment Protocol

A treatment protocol provided for the particular surgical guide also supports the choice of instrument to be used. All preparation steps follow in detail from the protocol. All components are clearly labeled and can be located quickly on the tray using the protocol.

The individual treatment protocol is included with the delivery of the BEGO Guide surgical guide.



### BEGO GUIDE TREATMENT PROTOCOL

for BEGO Guide Full (full guided surgical template)

Patient **Patient, Patrick**

Dentist **Dr Danny Dentist**

Laboratory **BEGO**

Lower jaw       Upper jaw

Case number **NAU0001125**

Implant information						
Position	15	16	17	26		
Implant type	SC	SC	SC	SC		
Length*	10	10	11.5	11.5		
Diameter*	3.75	4.5	3.75	4.1		
Color code	blue	red	blue	gray		

\* Value in mm

Drill information						
Sleeve platform	A	B	A	B		
Depth drill	Y	X	Y	X		
Final depth drill / countersink / screw taper	4	6	4	5		
Connector depth marking	4	2	3	3		

Additional comments

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 Tel. +49 421 2028-488 · Fax +49 421 2028-265 · E-Mail info@bego-implantology.com · www.bego.com

**Sample protocol:**

For the final drilling of the BEGO Semados® SC 4.5 L10 in position 16, you require spoon B6 and, e.g., drill X6 according to the protocol. This means that you use the BEGO Guide spoon for the BEGO Guide master sleeve with the diameter of “6” (SC4.5). The BEGO Guide depth drill thus also has the diameter of “6” and in this case the length X (18 mm).

REF 8443902 · D4M16137 · © by BEGO 2016-08

## BEGO Guide Spoons (Spoon Platform)

Values “A” and “B” are possible. These indicate which diameter the BEGO Guide master sleeve has. “A” corresponds to an internal diameter of 4.2 mm (for S/SC/SCX 3.25–3.75 and RS/R SX 3.0–3.75) and “B” corresponds to 4.7 mm (for S/SC/SCX 4.1–4.5 and RS/R SX 4.1–4.5).

Select the appropriate half of the tray (“top” or “bottom”) based on this information.

## BEGO Guide Depth Drill

The information “X”, “Y”, or “Z” refers to the length of the preparation instruments. The length depends on the sleeve position in the guide and does not have a direct relationship to the length of the selected implant.

X: 18 mm, Y: 23.5 mm, Z: 29 mm

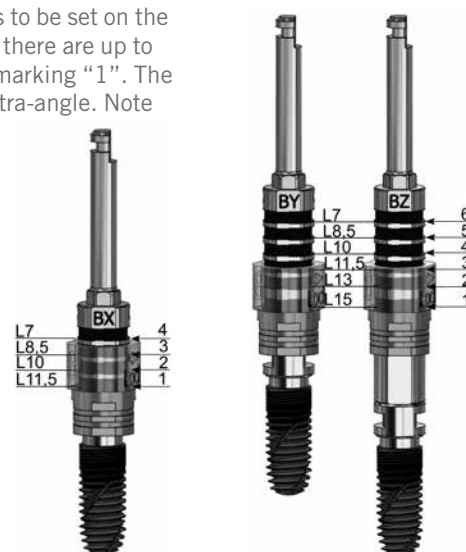
## BEGO Guide Final Depth Drill / Countersink / Screw Tapper

This information describes up to which diameter you have to prepare. You will use all drills of the required length until you have reached the instrument with the value indicated. The BEGO Guide countersink that is then required as well as the BEGO Guide screw tapper have the same value.

## BEGO Guide Connector (Connector Depth Marking)

This information indicates the depth marking that has to be set on the BEGO Guide connector. Depending on the connector, there are up to six markings. The bottommost marking is always the marking “1”. The markings are numbered in ascending order to the contra-angle. Note that the correct height is set by the depth stop ring (see point 5 on page 23) and is measured from the bottom edge of the marking.

The depth stop ring is locked at the position stated in the protocol and covers the particular marking. Example: BEGO Guide connector BX and implant L11.5: The connector is locked at position 1 and covers marking 1 completely. For implant L10, the connector is locked in position 2 and covers this marking with marking 1 visible.



Position of depth stop ring 1–4 depending on implant length L11.5–L7

Position of depth stop ring 1–6 depending on implant length L15–L7


# BEGO Guide Documents

## BEGO Guide Treatment Protocol

### BEGO Guide Treatment Protocol

A treatment protocol provided for the particular surgical guide gives information about the implant used in the particular position as well as details of the sleeves and drills.

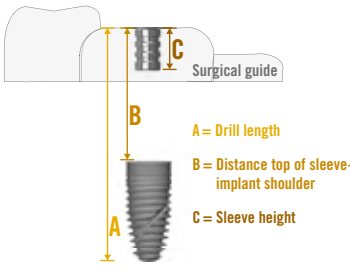
The individual treatment protocol is included with the delivery of the BEGO Guide surgical guide.



### BEGO GUIDE TREATMENT PROTOCOL

for BEGO Guide Pilot (Pilot surgical template)

Patient <b>Patient, Patrick</b>
Dentist <b>Dr Danny Dentist</b>
Laboratory <b>BEGO</b>
<input type="radio"/> Lower jaw <input checked="" type="radio"/> Upper jaw
Case number <b>NAU00001125</b>



A = Drill length  
B = Distance top of sleeve-implant shoulder  
C = Sleeve height

Implant information					
Position	13				
Implant manufacturer	BEGO				
Implant type	SC				
Length*	10				
Diameter*	4.1				
Color code	gray				

Sleeve information					
Sleeve diameter*	20				
Distance top of sleeve-implant shoulder*	7				

Drill information					
Drill length*	22				

\* Value in mm

Additional comments

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 Tel. +49 421 2028-488 · Fax +49 421 2028-265 · E-Mail info@bego-implantology.com · www.bego.com

**Sample protocol:**

Please use a pilot drill with a diameter of 2.0 mm and prepare up to the stated drill length.

In this example that would be 22 mm.

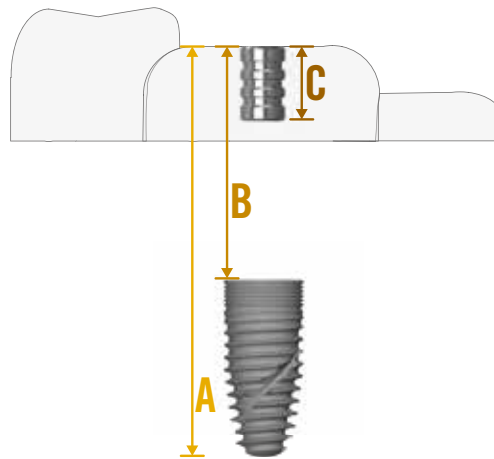
84448/01 - D4M16071/WU - © 2015-03



## BEGO Guide information at a glance

- Precise implementation of your three-dimensional plan
- High degree of safety due to the depth control
- Precise guiding of the pilot drill
- Minimally invasive implant placement possible
- Can be used with BEGO Semados® S/SC/SCX and RS/RSX implants (S/SC/SCX 3.25–4.5 and RS/RSX 3.0–4.5)
- Supports all implant lengths

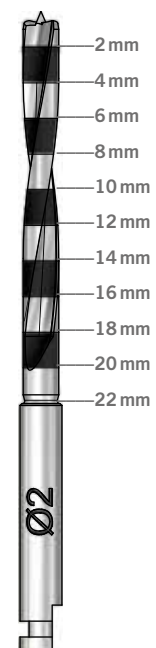
The treatment protocol includes details about the implant used at the particular position, the distance between the upper edge of the sleeve and the implant shoulder (B), and the drill length to be used (A).



A = drill length  
B = distance between upper edge of sleeve and implant shoulder  
C = height of the drill sleeve

## BEGO Guide Pilot Drill

For all pilot guides, the sleeve diameter is 2.0 mm. Therefore, a pilot drill with a corresponding diameter (2.0 mm) must be used to prepare up to the stated drill extension. The use of the BEGO Guide pilot drill short (article no. 57400) or long (article no. 57401) is recommended and the markings on the drills identify 2 mm in each case.



# BEGO Guide Tray Overview

## BEGO GUIDE S-Line Tray

### BEGO Guide Spoons (A1–A4, B1–B6)

The innovative BEGO Guide spoons are the most important components of the BEGO Guide trays. They reduce the diameter of the BEGO Guide master sleeves to the particular drill diameter. So that the spoons are fixed during drilling, they have a locking mechanism, similar to that of a bayonet closure.

### BEGO Guide Tissue Punch (A and B)

The mucosal punch is used without a spoon directly through the master sleeve.

Rotational speed: 200 rpm

### BEGO Guide Center Drill (A and B)

The center drill is used without a spoon directly through the master sleeve. The non-cutting guiding shaft of the center drill, which is tailored precisely to the master sleeve, achieves a very high degree of precision. It is used to punch out the cortical part of the bone and thus provides an initial guide for the remaining drill.

Rotational speed: 800 rpm

### BEGO Guide Pilot and Depth Drill (X1–X6, Y1–Y6, Z1–Z6)

The pilot drill is always used with spoon A1 or B1. Unlike other pilot drills, you prepare the cavity with the BEGO Guide pilot drill down to the final length.

The depth drills are used together with the corresponding BEGO Guide spoon. The protocol provided with the surgical guide indicates the corresponding drill and spoon. The name (numbering) of the drill must always correspond to the number on the spoon.

Rotational speed: 800 rpm



The tray overview for the BEGO Guide S-Line (article no. 84482) is available at [www.bego.com](http://www.bego.com)





**BEGO Guide Ratchet Adapter  
(only BEGO Guide S-Line Tray)**

With the ratchet adapter you can use the BEGO Guide connector manually with the ratchet instead of with the contra-angle. An optional place for the ratchet is located in the base of the tray.

**Add-on**

Additional tools can be positioned in the spaces available.

**BEGO Guide Screw Tapper (3–6)**

Using the screw tapper, you prepare a thread in the implant bed for subsequent implant placement. The screw tapper is attached to the connector for this purpose. Select the correct instrument according to your protocol.

Rotational speed: 15 rpm

**BEGO Guide Countersink (3–6)**

Using the countersink, you expand the cortical bone for easier insertion of the implant. The countersink is attached to the connector for this purpose. Select the correct instrument according to your protocol.

Rotational speed: 800 rpm

**BEGO Guide Connector  
(AX, AY, AZ, BX, BY, BZ)**

The BEGO Guide connector forms the interface to the countersinks and screw tappers as well as later to the insertion post of the implant.

# BEGO Guide Tray Overview

## BEGO GUIDE RS / RSX-Line Tray

### BEGO Guide Spoons (A1–A4, B1–B6)

The innovative BEGO Guide spoons are the most important components of the BEGO Guide trays. They reduce the diameter of the BEGO Guide master sleeves to the particular drill diameter. So that the spoons are fixed during drilling, they have a locking mechanism, similar to that of a bayonet closure.

### BEGO Guide Tissue Punch (A and B)

The mucosal punch is used without a spoon directly through the master sleeve.

Rotational speed: 200 rpm

### BEGO Guide Center Drill (A and B)

The center drill is used without a spoon directly through the master sleeve. The non-cutting guiding shaft of the center drill, which is tailored precisely to the master sleeve, achieves a very high degree of precision. It is used to punch out the cortical part of the bone and thus provides an initial guide for the remaining drill.

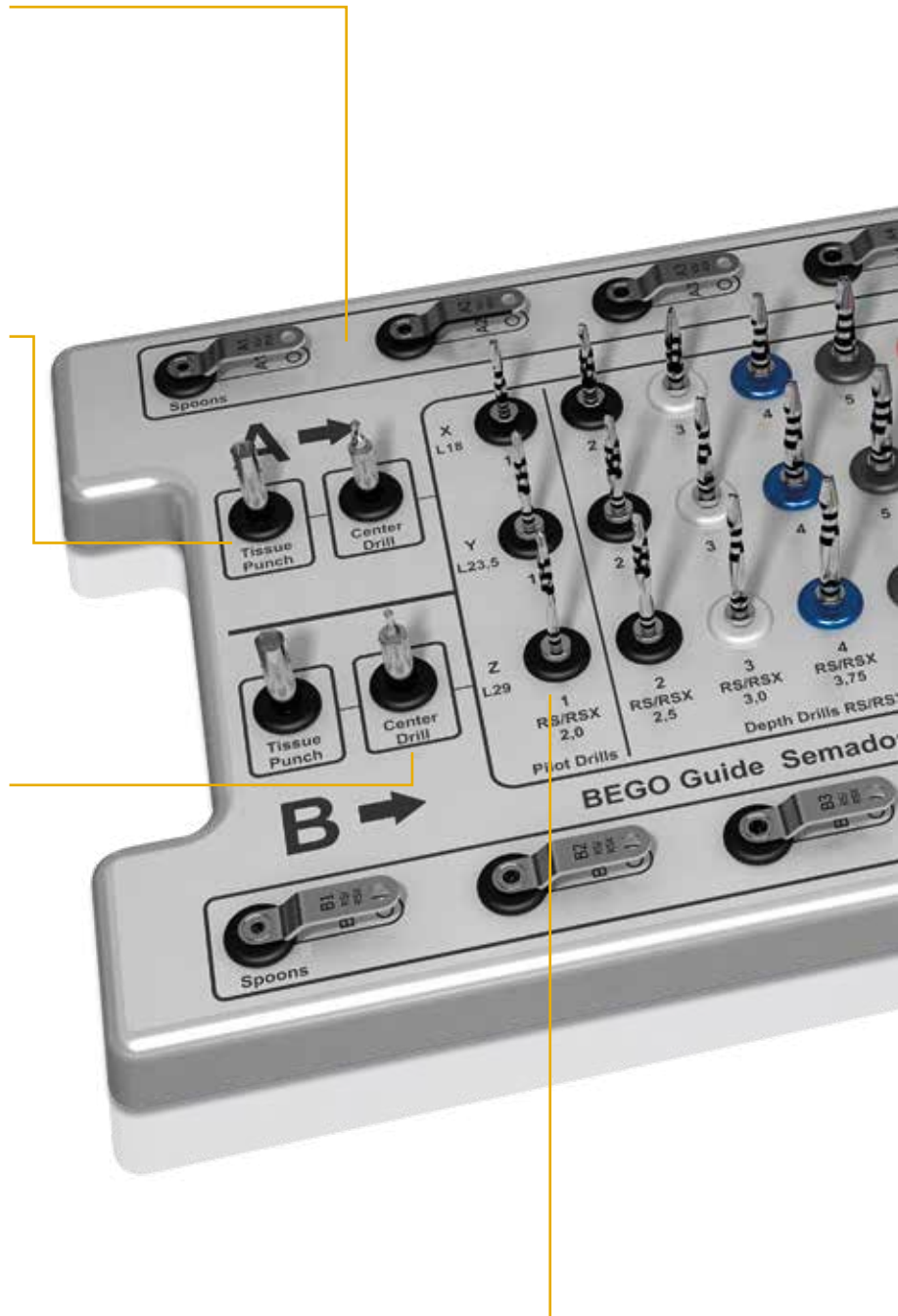
Rotational speed: 800 rpm

### BEGO Guide Pilot and Depth Drill (X1–X6, Y1–Y6, Z1–Z6)

The pilot drill is always used with spoon A1 or B1. Unlike other pilot drills, you prepare the cavity with the BEGO Guide pilot drill down to the final length.

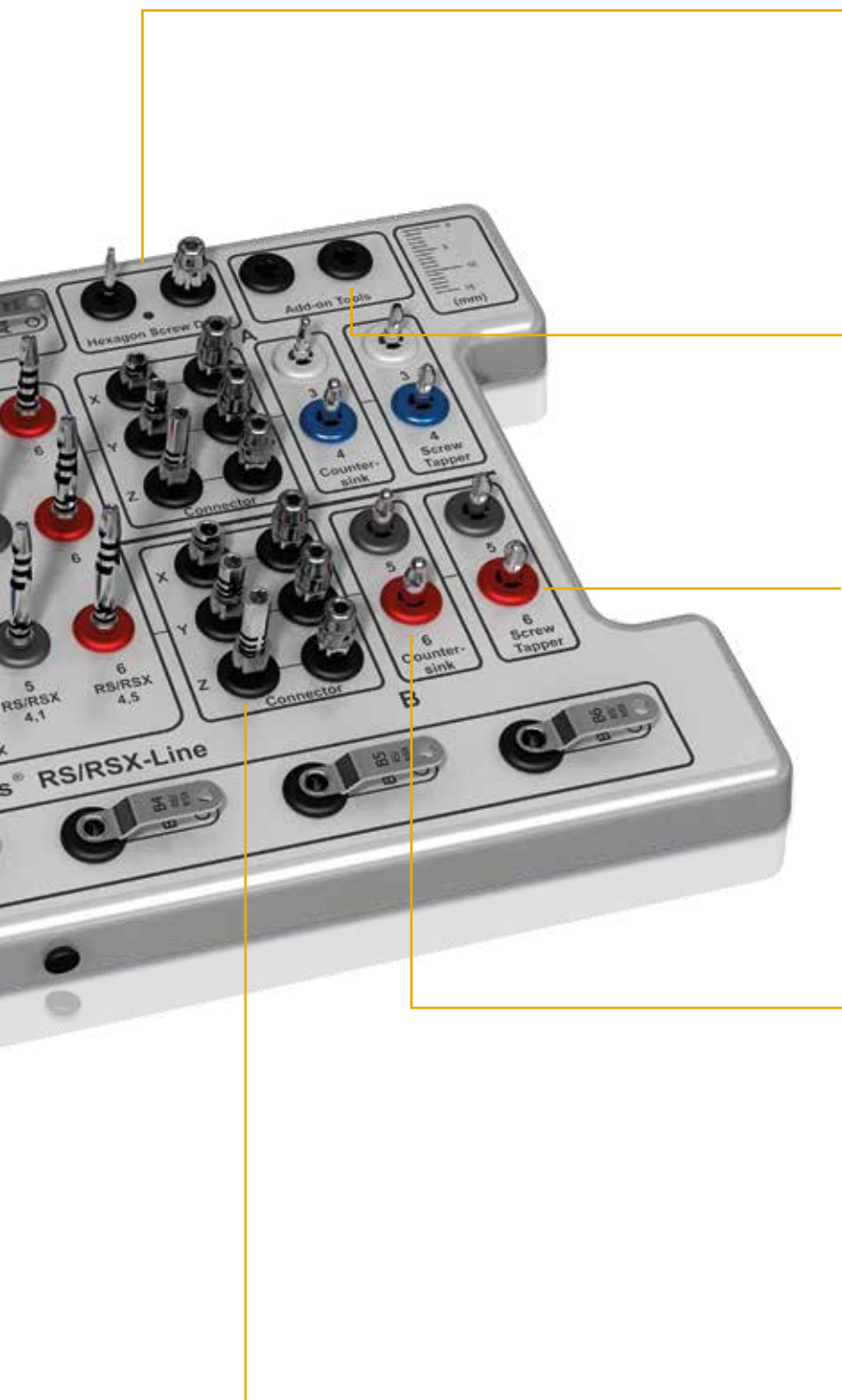
The depth drills are used together with the corresponding BEGO Guide spoon. The protocol provided with the surgical guide indicates the corresponding drill and spoon. The name (numbering) of the drill must always correspond to the number on the spoon.

Rotational speed: 800 rpm



The tray overview for the BEGO Guide RS/RSX-Line (article no. 84483) is available at [www.bego.com](http://www.bego.com)





### Hexagon Screwdriver

For loosening or tightening the cover screw.

### Add-on

Additional tools can be positioned in the spaces available.

### BEGO Guide Screw Tapper (3–6)

Using the screw tapper, you prepare a thread in the implant bed for subsequent implant placement. The screw tapper is attached to the connector for this purpose. Select the correct instrument according to your protocol.

Rotational speed: 15 rpm

### BEGO Guide Countersink (3–6)

Using the countersink, you expand the cortical bone for easier insertion of the implant. The countersink is attached to the connector for this purpose. Select the correct instrument according to your protocol.

Rotational speed: 800 rpm

### BEGO Guide Connector (AX, AY, AZ, BX, BY, BZ)

The BEGO Guide connector forms the interface to the countersinks and screw tappers as well as later to the insertion post of the implant.

# Standard Operating Procedure

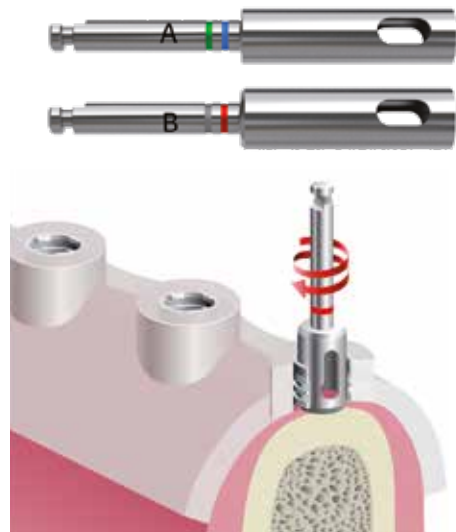
## Instrument overview (in the order of their use)

### 1 BEGO Guide Tissue Punch (A and B)

The mucosal punch is used without a BEGO Guide spoon directly through the BEGO Guide master sleeve.

Rotational speed: 200 rpm

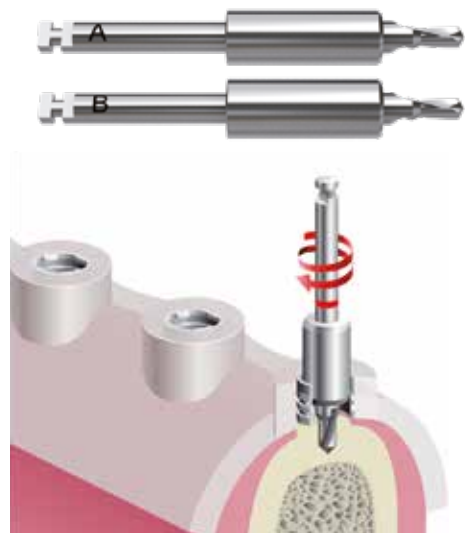
To remove the mucosa with forceps, you may have to remove the guide.



### 2 BEGO Guide Center Drill (A and B)

The center drill is used without a spoon directly through the BEGO Guide master sleeve. The non-cutting guiding shaft of the center drill, which is tailored precisely to the master sleeve, achieves a very high degree of precision. It is used to punch out the cortical part of the bone and thus provides an initial guide for the remaining drill.

Rotational speed: 800 rpm



### 3 BEGO Guide Spoons (A1–A4, B1–B6)

The innovative spoons are the most important components of the BEGO Guide trays. They reduce the diameter of the BEGO Guide master sleeves to the particular drill diameter. So that the spoons do not have to be secured during drilling, they have a locking mechanism, similar to that of a bayonet closure.

Insert the required spoon into the master sleeve—there are exactly four possible positions for this. Ensure that the spoon is inserted fully into the master sleeve up to the attachment of the spoon handle and turn it clockwise until a slight resistance can be felt. The spoon is now locked.

To loosen, turn the spoon in the counter-clockwise direction and remove it from the master sleeve.



#### 4 BEGO Guide Pilot and Depth Drill (X1–X6, Y1–Y6, Z1–Z6)

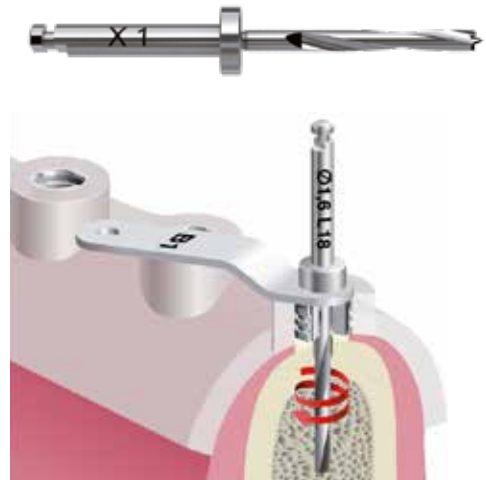
The pilot drill is always used with BEGO Guide spoon A1 or B1. Unlike other pilot drills, you prepare the cavity with the BEGO Guide pilot drill down to the final length. First, insert the required spoon into the BEGO Guide master sleeve and lock it. Then position the pilot drill (X1, Y1, or Z1) that is indicated in the drilling protocol in the spoon and drill intermittently until the drill stop. The master sleeve position is determined here by the implant length selected by you in the 3D implant planning.

The depth drills are used together with the corresponding spoons. The protocol indicates the corresponding drill and spoon. The name (number) of the drill must always correspond to the numbering on the spoon.

Example: BEGO Guide drill X1 with BEGO Guide spoon A1 or B1 (depending on the BEGO Guide master sleeve)

Drill with the depth drills intermittently up to the drill stop.

Rotational speed: 800 rpm



#### 5 BEGO Guide Connector (AX, AY, AZ, BX, BY, BZ)

The connector forms the interface to the countersinks and the screw tappers. Select the corresponding connector according to the drilling protocol and insert it into the contra-angle.

The BEGO Guide connector contains up to 4 (length X) or up to 6 (lengths Y and Z) depth markings. These are indicated on the protocol with 1 to 6. The bottommost marking is marking 1 and the markings are numbered in ascending order to the contra-angle.

With the depth stop ring, you can adjust the depth stop to the selected implant length. To do so, rotate the depth stop ring by about 90° in the opposite direction to the arrow (until the flat section of the connector and the depth stop ring are on top of one another)—the height of the ring can then be freely adjusted in this position on the instrument. Select the desired depth marking and lock the ring by turning about 90° in the opposite direction in the direction of the arrow. The ring is now locked. Note that the particular depth marking disappears under the depth stop ring and can therefore no longer be seen.

In the BEGO GUIDE RS / RSX-Line tray there are an additional six BEGO Guide connectors with ratchet connection.



#### 6 BEGO Guide Countersink (3–6)

Using the countersink, you expand the cortical bone for easier insertion of the implant. The countersink is attached to the BEGO Guide connector for this purpose. Select the correct instrument according to your protocol. The use of the countersink is optional. For hard bone (D1/D2) use is recommended.

Rotational speed: 800 rpm



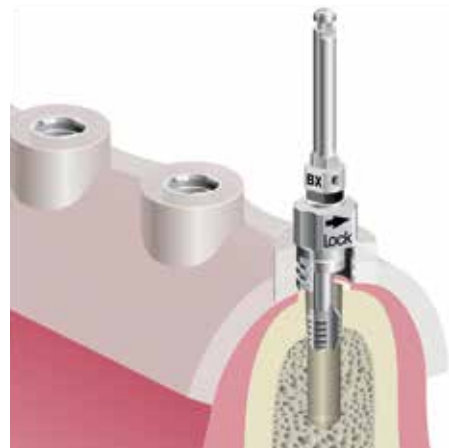
## 7 BEGO Guide Screw Tapper (3–6)

Using the screw tapper, you prepare a thread in the cavity for the implant to be inserted. We recommend the general use of the screw tapper in the lower jaw as well as if hard bone (D1/D2) is expected in the upper jaw.

The screw tapper is attached to the BEGO Guide connector for this purpose. Select the correct instrument according to the included protocol.

For manual screw tapping, use the BEGO Guide ratchet adapter together with the corresponding BEGO Guide connector.

Rotational speed: 15 rpm



## 8 BEGO Guide Implant Placement

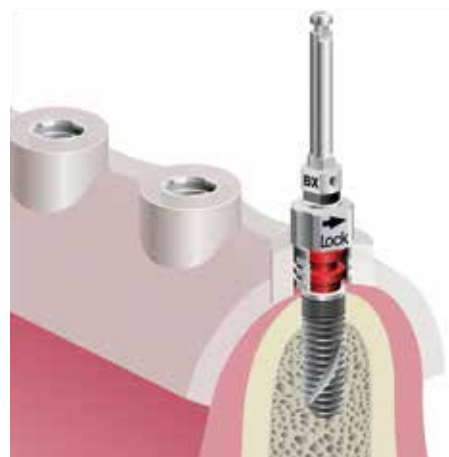
Using the BEGO Guide connector, you can also optionally insert the implant through the guide (see note below). First select the correct instrument in accordance with your protocol and adjust the depth stop ring as described in step 5. If you have already used the countersink or screw tapper, the BEGO Guide connector is already at the correct marking and does not have to be changed.

Remove the implant from the packaging using the BEGO Guide connector and insert it directly through the guide (max. torque 50 Ncm). When tightening, ensure that you do not continue to rotate the implant once the depth stop has been reached because you may damage the implant bed as a result.

**BEGO Guide S-Line Tray:** To insert using the torque wrench, use the BEGO Guide ratchet adapter.

**BEGO Guide RS / RSX-Line Tray:** To insert using the torque wrench, use one of the 6 BEGO Guide connectors with the ratchet connection (select according to the protocol), ensuring that the depth stop ring is set to the correct position when doing so.

**Caution:** When inserting the implants through the guide, you require implants with the new insertion post compatible with the BEGO Guide system. You can identify compatible implants using the following images.





3

Registration

Create case

Proposed  
plan

Sign-off

## BEGO Guide Order Portal

### All details available

#### Register

- Register at [guide.bego.com](https://guide.bego.com)
- Enter e-mail address and password
- Complete activation

#### Creating the patient case

- Click on “Create new case”
- Select product, support, and sleeve system
- Enter patient name, implant position(s), surgery date, and other comments about the case

#### Provide model and/or data

- Provision of the necessary CT or CBCT image(s) and, if applicable, the diagnostic model of the jaw depending on the treatment concept
- Shipping optionally by uploading, mail or collection service

#### Preparation of the proposed plan

- Planning team in Bremen prepares proposed plan
- Notification by e-mail after completion
- Requested changes and/or online session possible

#### Expert review and sign-off of the plan

- Production of the guide after sign-off
- Individual treatment protocol for viewing or downloading in the BEGO Guide order portal
- Printout is provided with the delivery of the guide
- Tracking number in the order portal to track the location of the BEGO Guide surgical guides

This summary can also  
be seen online.



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**BEGO Guide**  
order portal

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