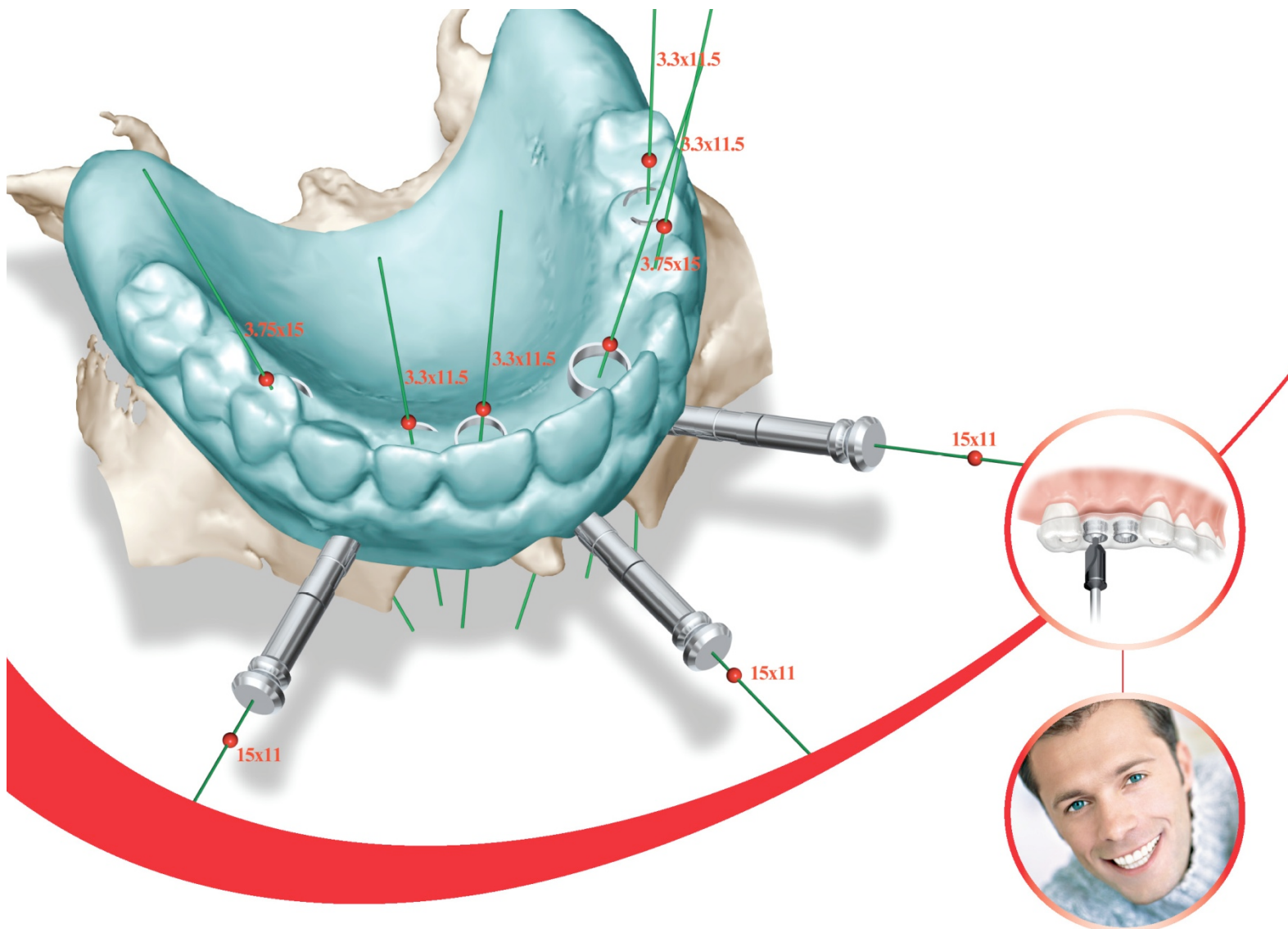




NobelGuide™

Glossary of Terms & Products

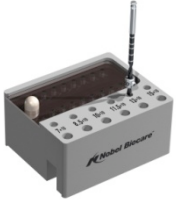
NobelGuide™ Glossary of Terms & Products

Important: Always refer to the current Nobel Biocare NobelGuide™ Procedures and Products manual.

All-on-4	A surgical implant placement technique where four implants are placed, with the two most distal implants “tilted” Refer to the All-on-4 Procedures and Products manual for details.	
Combined open-end wrench		In some situations when the implants have been installed through the Surgical Template and you are preparing to remove the Guided Implant Mount, there is a need to “wiggle” the implant mount free. Should this situation occur, our recommendation is to use an open-ended wrench or tongs.
Cone Beam	A type of CT scanner that uses a different x-ray beam shape to derive the CT image. The Cone Beam family of scanners are typically smaller and emit less radiation, reducing exposure to the patient.	
CT Scan		CT (computed tomography), sometimes called CAT scan, uses special x-ray equipment to obtain image data from different angles around the body and then uses computer processing of the information to show a cross-section (slices) of body tissues and organs.
DICOM, DICOM3, DICOM file, DICOM set	Refers to the file interchange format standard used by most CT manufacturers to transfer the CT scan data from the scanner to other devices. DICOM stands for “ D igital I maging and C ommunications in M edicine	
double-scan technique	Refers to the CT scanning of the Scan 1: patient, Radiographic Guide and Radiographic Index Scan 2: Radiographic Guide only (no patient, no Radiographic Index)	
Guided Abutment		This is an “adjustable” abutment that is used with the Procera® Implant Bridge to enable placement of the prosthesis (provisional or definitive) at the time of implant placement. Provides up to 0.4mm of vertical adjustment.
Guided Anchor Pin 1.5 mm		Used with the Surgical Template to secure the template to the patients’ mandible or maxilla prior to surgery. The Guided Anchor Pin slides into the press-fit Guided Anchor Pin Sleeve.

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Guided Anchor Pin Sleeve 1.5mm	 The Guided Anchor Pin Sleeve is incorporated into the Surgical Template. It is the sleeve through which the Guided Anchor Pin 1.5mm will be placed at time of implant placement. Computer-based: Installed into the Surgical Template during manufacture at the factory. Model-Based. May be used by the lab during the manufacture of a Surgical Template.
Guided Cylinder w Pin Unigrip	 Used by the lab when: Computer-based: Inserted into the Guided Sleeves of the Surgical Template, an Implant Replica is affixed, positions the Implant Replica at the exact distance and angulation relative to the Guided Sleeve. Soft tissue mask and stone are added to create the master model. Model-based: mounted on the implant replicas, to position the Guided Sleeve at the exact distance and angulation relative to the implant replica. The Surgical Template is fabricated by capturing the Guided Sleeve in acrylic, creating a Surgical Template.
Guided Drill Guide	 Used during surgery. Inserted into the Guided Sleeve in the Surgical Template to provide the proper guidance/support to drills smaller than the Guided Sleeve. Comes in different “outside diameters” to fit the different sized Guided Sleeves (NP, RP WP/6.0).
Guided Drill Stop	 Part of the Guided Drills Stop Kit. Used by the dentist. The Guided Drill Stop is placed at the proper place on the twist drill (a 3.0 mm drill for the Guided Drill Stop pictured) and using a Unigrip™ Screwdriver, the set screw is tightened to lock the Guided Drill Stop onto the drill. This minimizes the possibility of drilling the site too deep.
Guided Drill Stop Kit	 Used with twist drills to quickly, easily and accurately set the drill stop to the appropriate depth. One version for Guided Surgery – indicated by a “+10” (shown), a second version for conventional surgery.
Guided Implant Mount	 Used by the dentist to hold the implant during placement with Guided Surgery. Includes a ‘stop’ to indicate the implant is set to the proper depth. The Implant Mount includes markings to indicate the position of the internal (lobes) or external (hex) connection. Platforms: NP, RP, WP, 6.0

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Guided Laboratory Abutment		Lab Component. Used with Guided Ti Temporary Coping and Guided Laboratory Screw or Guided Pin 28mm. Affixed to the Implant Replicas within the stone model by the lab to simulate the size and location of the Guided Abutment. Used when creating the design of the Procera® Implant Bridge or provisional screw retained restoration for delivery at time of surgery.
Guided Laboratory Screw		Lab Component. Used with Guided Ti Temporary Coping and Guided Laboratory Abutment.
Guided Pin 28mm		Lab Component. Used with Guided Ti Temporary Coping and Guided Laboratory Abutment.
Guided Sleeve		This is the metal “bushing” captured in the Surgical Template, through which all the instruments are inserted. Used by the lab during the creation of the Surgical Template for model-based planning. These are also embedded in the Surgical Template manufactured by Nobel Biocare when using computer-based planning.
Guided Soft Tissue Plug		Optional. Used during surgery to avoid soft-tissue collapse, for example, prior to delivery of the prosthesis.
Guided Soft Tissue Punch		To be used through the Surgical Template before the Surgical Template is removed. This is for removing any remnants of soft tissue prior to delivery of the prosthesis. Platforms: NP, RP, 6.0/WP
Guided Start Drill/Counterbore		First drill used in Guided Surgery. Starts a pilot hole, creates a slight counterbore/chamfer in the bone and removes the soft tissue. Design includes an integral depth stop.

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Guided Template Abutment	 Used during the initial stages of Guided Surgery to firmly anchor the Surgical Template to the first two implants (typically fully edentulous cases). Fully prepare one site, place the implant, then insert and tighten the Guided Template Abutment. Fully prepare the second site, place the implant, then insert and tighten the second Guided Template Abutment. Then prepare/place the remaining implants Platforms: NP, RP, WP, 6.0
Guided Ti Temporary Coping	 Lab component. Used with Guided Laboratory Abutment and Guided Laboratory Screw or Guided Pin 28mm. Used by the lab when designing the Procera® Implant Bridge acrylic framework or a provisional screw retained acrylic bridge. The inside dimension of the Guided Ti Temporary Coping accepts both the Guided Abutment and the Guided Laboratory Abutment. See Procera® Implant Bridge, acrylic model.
Gutta percha	A “radio opaque” material (that is, it is easily visible on an x-ray). Facilitates the double CT scanning technique and the subsequent matching of the two CT scans in Procera® Clinical Software; A minimum of six reference points must be placed into the Radiographic Guide. This material is very familiar to dentists as it is used to fill the inside of the root during endodontic procedures.
Handle for Guided Drill Guide	 Optional. Guided Drill Guides are attached to the Handle for Guided Drill Guide by inserting the “ball” of the Guided Drill Guide into the tip of the handle. It is used to reach areas with difficult access.
iCAT	A popular cone-beam CT scanner manufactured by Imaging Sciences International.
Markers	Refers to both the gutta percha reference points both the within the actual Radiographic Guide and to their “image” within the CT scan data.
Model-Based NobelGuide™	Refers to the procedures for planning the surgery and creating the Surgical Template on the stone model using established techniques. No CT scan data is required and the Surgical Template is manufactured by the laboratory.
Multi-unit Abutments 30° Non-Engaging	This abutment gives you the ability to perform the All-on-4 concept using NobelGuide™. An angulated non-engaging abutment is a prerequisite for combining these concepts, since it is impossible to know in advance the exact orientation of the implant connection. Enables planning and fabrication of an All-on-4 prosthesis so can be ready at the time of surgery.

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nVidia	nVidia is the brand of high-performance video card required to run the NobelGuide™ software. Other video boards are not supported.
Procera® Implant Bridge	 This is the PIB for NobelGuide™. It is shown as received from the factory (bottom) and finished with denture teeth (top). In the top image, the screws of the Guided Abutments can be seen. Also see <i>Procera® Implant Bridge for NobelGuide</i> on page 8 for more detail.
Procera® Implant Bridge, acrylic model	 This is an acrylic model of a Procera® Implant Bridge as designed by the laboratory in preparation for sending to Nobel Biocare in Sweden for manufacture in titanium. In this image you can clearly see the Guided Ti Temporary Coping captured in the acrylic. The lab sends acrylic frame and verified stone model to the Procera® facility after the order has been placed in Procera® Software. See <i>Procera® Software Requirements</i>.
Procera® Software Clinical Design	The software (often called “NobelGuide™ Software”) that enables computer-based planning of implant placement and the design of the surgical template.
Radiographic Guide	The Radiographic Guide is used to simulate the teeth, the soft tissue surface and the edentulous space during the CT scan. The correct design of the Radiographic Guide is pre-requisite for successful treatment since the final outcome of the rehabilitation is determined by the Radiographic Guide.   Design the Radiographic Guide with the functional, geometrical and mechanical requirements of the Surgical Template in mind.

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Radiographic Index	Used during the CT scanning to ensure the Radiographic Guide is properly positioned during the CT scan. Proper alignment of the Radiographic Guide is essential to ensure the accuracy of the resulting scan. This is different from the Surgical Index.
Rapid Prototyping	Describes a manufacturing process whereby a digital file representing a 3-dimensional object (the Surgical Template, in this case) is sent to a special production device. Using special light-curing plastics, the production device quickly produces a very accurately dimensioned final product. For a tutorial, see http://computer.howstuffworks.com/stereolith.htm
Scatter	Scatter refers to the 'starburst' patterns created during the CT scan when the x-ray beam hits a metal crown or filling. The first image (below, left) shows the scatter in a single axial slice. The second image (below right) is the same case, showing the scatter in the 3-D rendering.
Surgical Index	Similar to the Radiographic Index, however the Surgical Index is used during surgery to ensure complete seating and proper orientation of the Surgical Template prior to placing the Guided Anchor Pins.
Surgical Template	Used during surgery to provide guidance for the instruments. Fabricated by Nobel Biocare as the result of computer-based planning with the NobelGuide™ Procera® Software Clinical Design. Fabricated by the laboratory as the result of model-based planning.

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Teeth-in-an-Hour™	Refers to the ability to use the NobelGuide™ software and components to deliver a definitive restoration to the patient at the time of surgery.
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Procera® Implant Bridge for NobelGuide™

Is a variation of the PIB that has been manufactured by Nobel Biocare for many years. However, instead of cylinders that come down to meet the implant, holes are machined into the bridge to accept the Guided Abutment (see Figure 1).



Figure 1 - PIB for NobelGuide™, 'bottom' view



Figure 2 - PIB for Nobel Guide™, 'top' view

Just prior to placement onto the implants, the Guided Abutments are inserted into the underside of the PIB.

In Figure 3, three Guided Abutments are already inserted, one is being placed and two are yet to be placed.

There is an o-ring on the Guided Abutment that will hold it securely in the PIB until it can be placed onto the implants. This ring also acts to seal out microbial leakage



Figure 3 - PIB with Guided Abutments

Procera® Software Requirements

For a lab to order the Procera® Implant Bridge for NobelGuide™, they will need to have Procera® Software Manager V1.5 (15832) or newer installed.